



**Integrating Danube Region into Smart & Sustainable
Multi-modal & Intermodal Transport Chains**

**Report on trade flows and economic
framework conditions for cargo and
passenger transport development in
the Danube Region**

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Abbreviations

Abbreviation	Explanation
GRP	Gross regional product
GDP	Gross domestic product
PPS	Purchasing Power Standards
GVA	Gross value added

1 Focus of the summary report

The current report makes an overview of the economic framework of the Danube Region countries, showing the past trends of the economy and population, detailing as much as possible at the NUTS2 regional level. Moreover, the report makes also an overview of the evolution of trade in the last 5 years, expressed both in monetary units and in volumes in tonnes per year. Goods are considered at the minimum at the level of NSTR1, in order to identify the most dynamic segments of the economy and of the market in the region.

The forecasts of the economy and trade are also considered in the current report, in order to provide an image of the expected trends and challenges.

All these provide a good base for the further analysis and for the identifications of the main challenges, in order to make possible to identify the most suitable segments of the market for addressing measures to make possible the modal shift towards inland navigation, contributing to the European policy on developing a sustainable transport system in the region, to promote economy growth, social security, quality of life and reducing the environmental impact.

Moreover, all measures to be identified will contribute also to increase the number of jobs in the inland water navigation industry.

2 Executive summary

2.1 Austria

In 2019 the Austrian economy expanded by 1.4%. Hence, the growth rate is below the preliminary estimates, which, however, had already indicated a slowdown in growth dynamics in Austria (2017: +2.4%, 2018: +2.6%). The real GDP growth in the European Union, information so far available, was with 1.5% similar to the Austrian growth rate.

In 2019 Austria's GDP rose by 3.2% in 2019 at current prices to around € 397.6 billion. Hence, GDP per capita amounted to € 44 780 (+2.7%). In real terms (adjusted by purchasing power and indicated in Purchasing Power Standards = PPS) for the European comparison the GDP per capita adds up to € 40 320 (+2.3 vs. 2018; revised).

Austria kept its top position and ranks in fifth place after Luxembourg, Ireland, Denmark and the Netherlands in economic performance of all EU member states.

In 1900, close to 6 million people were living in Austria (within its present-day borders). In the 1950s the 7 million mark was reached. In 2000, Austria's population has surpassed the 8 million mark. At the beginning of 2020, 8.9 million inhabitants were registered in Austria.

Austrian population is growing almost exclusively through immigration

95% of Austria's total population growth between January 1st, 2010 and January 1st, 2020 (+549 421 people) can be attributed to net migration gains (+521 157).

The overall GVA growth for the period 2015 – 2019 in Austria from Primary sector (A) and Secondary Sector (B-F) is 16,82%. The GVA of construction in Austria even has a growth of 26,18%. With a view to the federal states of Austria the highest growth rate is shown by Carinthia with 23,28% followed by Styria (20,57%), Salzburg (19,85%), Upper Austria (17,09%), Tyrol (16,61%), Burgenland (15,07%), Lower Austria (14,07%), Vienna (13,22%) and Vorarlberg (13,20%).

The highest growth in trade, as for imports, of 57,40%, is observed for Goods ANG, followed by Beverages & Tobacco with 28,35% and Machines/Vehicles by 24,85%.

For exports it is noticed the highest growth in Animal & Vegetable oils & fats, followed by Beverages & Tobacco with 41,65% and Fuels Energy by 38,93%.

2.2 Bulgaria

This report was concluded based on the available information from official sources such as the National Statistical Institute of the Republic of Bulgaria and data from the Ministry of Finance.

Different socio-economic indicators were reviewed in the first section of the report, such as population, GDP (Gross Domestic Product), as well as GVA (Gross Value Added) per economic sector. All data was provided on a NUTS 2 level for the regions relevant to this study. The information has been visualized via tables and graphs.

In terms of trade flows, the statistical institution in Bulgaria does not keep records of the imports and exports on a NUTS 2 level. All of the presented data is for the country as a whole. Information is presented for each major product category, as it is described in the Standard International Trade Classification, which would provide better opportunity for comparisons between different countries. In addition to reviewing the main product categories, attention is given to the most important sub-

categories of products, whose imports and exports are visualized with graphs both in terms of monetary value and net weight in kilograms.

Forecasts are included for both the possible socio-economic conditions and indicators in the next years, as well as for trade flows. Although there is a long-term prognosis for the development of the population in the next few decades, such information is not available for the trade flows, therefore the forecast for imports and exports encompasses only the next few years. Moreover, the data is provided for the entire country and not for the NUTS 2 regions.

2.3 Croatia

Prior to the COVID-19 crisis, Croatia recorded steady economic growth of close to 3 percent. A convergence to the European Union (EU) income average remained elusive, however.

Attaining higher growth rates was constrained by structural rigidities and a strong reliance on less innovative activities, with lower value added and limited backward and forward linkages. As a result, only in 2019 did the economy reach its pre-global financial crisis level of output.

A severe economic recession triggered by the COVID-19 pandemic is reversing the income gains, poverty reduction, and fiscal sustainability that Croatia achieved during the past five years. In addition, the March earthquake in Zagreb and its environs has strained the functioning of public institutions and caused extensive damage that will take years to repair.

Although it is expected that the crisis will be short lived and the recovery will gain momentum in 2021, there remains a high level of uncertainty, and risks are tilted to the downside. A further worsening of the pandemic globally cannot be excluded, which might require the re-imposition of stringent social distancing measures.

The crisis could nevertheless provide an opportunity for Croatia to revisit its growth model and focus on policies to increase resilience to exogenous shocks and raise growth potential.

Furthermore, Next Generation EU, the new EU temporary recovery instrument, if used adequately and efficiently, could support the country's investments and policy reforms, enabling it to emerge stronger from the crisis¹.

2.4 Hungary

The following picture is shown in the light of the data showing economic / social development.

¹ <https://www.worldbank.org/en/country/croatia/overview>

The average GDP growth for the period 2014 – 2019 is 45,12% at the country level. The highest GDP growth is shown by the region Észak-Magyarország with 49,46%, while the lowest growth is shown by the region Nyugat-Dunántúl with 35,48%.

It is observed that the total population shows a decrease of 0.84% at the country level.

The highest decrease is shown by the region Észak Magyarország with 3.30%, while for Pest region it is noticed a growth with 4.3% of the total population, due to the migration from other regions.

The average GDP per capita growth for the period 2014 – 2019 is 46.52% at the country level. The highest GDP growth is shown by the region Észak-Magyarország with 55.89%, while the lowest growth is shown by the region Nyugat-Dunántúl with 34,41%.

The overall GVA growth for the period 2015 – 2019 is 36,82 % at the country level.

The highest GVA growth is shown by Mining and quarrying with 275,74%, while the lowest growth is shown by Water supply; wastewater collection, treatment, waste management, decontamination with 19,91%.

The following picture is shown in the light of the data describing foreign trade.

Between 2015 and 2019, the volume of imports increased by 29%; the largest increase is shown in the Pearls, precious stones, precious metals, jewellery, coins category (71% between 2015 and 2019), the largest decrease is shown in the Works of art, collectors' pieces and antiques category (37% between 2015 and 2019).

In the period 2015-2019, the volume of exports increased by 8%; the highest increase is shown in the Pearls, precious stones, precious metals, jewellery, coins category (107% between 2015 and 2019) and the largest decrease in the Return goods category (38% between 2015 and 2019).

In terms of main groups of goods, from 2014 to 2019, exports of machinery and transport equipment increased the most. As a result, the share of the “machinery and transport equipment” commodity group in Hungarian exports increased from 54.8% in 2014 to 57.4% in 2019 (with a proportional decrease in the share of the other three commodity groups).

GDP is expected to grow further in the future; the OECD estimates that it will increase by 22.42% in 10 years, or 1-3% per year. Although GDP will continue to grow in the 2030s, the pace of expansion will already be slowing down by this time; By 2040, it will be only 13% higher than it was / will be in 2031.

By the end of the decade, GDP / capita will be 28% higher than in 2020, while by the end of the 2030s it will be approx. Expansion of 19% is expected.

The country's population is expected to decline in the future; It will be 2.24 percent lower by 2030 and 4.79 percent lower by 2040 than it was in 2020.

With regard to the future development of the composition of foreign trade, we see that the exports of the health economy, the food economy (including agricultural technologies), the construction economy, water management, and the creative industry will probably expand the most next year

2.5 Romania

The overall GDP growth of 42% in Romania for the period 2014 – 2018 is quite high, showing a good dynamic of all economic sectors in this period of time. As it has been already mentioned, the highest

GDP growth is shown by the region Sud-Vest Oltenia with 50.25%, while the lowest growth is shown by the region Sud-Muntenia with 28.36%.

GDP per capita shows an overall increase above the increase of the GDP, with 45.32% in the period 2014 – 2018. The highest GDP per capita growth is shown by the region Sud-Vest Oltenia with 56.93%, while the lowest growth is shown by the region Sud-Est with 33.99%.

Population shows a small decrease in the period 2015 – 2019, with 2.32%, with two regions showing a decrease in population of some more than 4% in this period of time. One region, namely Bucuresti-Ilfov, shows an increase of 1.35%, due mainly to the internal migration process.

The highest GVA increase is shown by services with 53.12%, followed by Agriculture with almost 40% and by Construction sector with 38.57%.

Imports

When expressed in monetary terms, the highest growth of imports is shown for Miscellaneous goods and products with 67.08%, followed by Mineral products with 62.78%.

Considering the volume of imports in tonnes, it is observed that the highest growth is shown by Fertilizers with 96%, followed by Chemicals with 58%. The highest decrease is shown by Metal products with 24%. The high increase in Fertilizers is in line with the growth of agriculture production and of the exports of cereals.

Exports

When expressed in monetary terms, it is noticed a decrease of -11.21% for Wood products, excluding furniture, and the highest increase of 163.25% for Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments.

Considering the volume of imports expressed in tonnes, it is observed that the highest growth is shown by Crude and manufactures minerals and building materials, with 78%, and the highest decrease is shown by Solid mineral fuels with 96%. The growth of exports for agricultural products is of 22.65%, and for foodstuff is of 34.53%.

Following the GTPM – General Transport Master Plan for Romania, and the related NTM – National Transport Model, an overall increase of almost 40% of the total freight transport demand is expected for the period 2020 – 2030, and of 96% for the period 2020 – 2040.

2.6 Serbia

The average GDP growth for the period 2013 – 2019 is 38.31% at the country level. The highest GDP growth is shown by the Region Belgrade with 45.93%, while the lowest growth is shown by the Region Šumadija and Western Serbia with 34.03%.

Regarding the population, it is observed that the total population shows a decrease of 3.04% at the country level. The highest decrease is shown by the Region Southern and Eastern Serbia with 5.77%, while for Region Belgrade it is noticed a growth with 1.47% of the total population, due to the migration from other regions.

The overall GVA growth for the period 2013 – 2019 is 28.49 % at the country level. The highest GVA growth is shown by Construction with 149.22 %, while the negative growth is shown by Mining and Quarrying with -7.05 %.

Regarding imports, the highest growth of 175.50% is observed for commodities like coin (other than gold), gold (excluding gold ores and concentrates) and unclassified goods. These products are followed by beverages and tobaccos, as well as crude materials, inedible, except fuels both with the growth of above 120%.

For exports it is noticed a decrease of almost 22% for crude materials, excluding fuel, and the highest increase of around 100% for chemicals and related products.

2.7 Slovakia

Economic conditions 2015 - 2019

In 2015, the Slovak economy grew the highest rate in the previous five years. Rough domestic product grew by 3.6% year-on-year at constant prices compared to 2.5% growth in 2014. The main source of growth was mainly domestic demand, within which the most significant investment has increased. In 2016 Slovakia's GDP at constant prices increased by 3.3%, year on year. The slowdown reflected a drop in domestic demand, particularly in investment. On the other hand, household consumption and net trade contributed positively to GDP growth, even more so than they did in 2015. In 2017 GDP increased by 3.4%. This increase was driven by domestic demand and net exports. The component that recorded the largest drop in growth was government consumption. In 2018 Slovakia's annual GDP growth accelerated to 4.1%, driven by domestic demand in the form of increasing investment and consumption. In 2019 Slovakia's annual GDP growth slowed to 2.3%, largely because foreign demand weakened. The economic slowdown had only a partial impact on the labour market. This was confined mainly to the industry sector, which experienced a decline in production.

Trade flows 2015 - 2019

In 2015 – 2019, turnover of foreign trade in goods increased, however, its growth rate alternately increased and decreased in turns. In 2015, it rose by 5,6 p.p., in 2016, it decreased by 3,4 p.p., in 2017, it rose by 3,8 p.p., in 2018 by 1,3 p.p. and in 2019, turnover growth rate decreased again by 5,5 p.p.

Forecasts and conclusion

Thanks to a stronger third quarter, the Slovak economy closed 2020 with a decline of 5.8%. A decrease of 6.7% was reported in September. The positive reason is a more moderate decline in household consumption and a faster resumption of exports. In 2021, the recovery will continue, and GDP growth will reach 4.3%, mainly due to a faster restart of the economy after the first wave of the pandemic. The economy could already be supported by investments from the EU's Recovery and Resilience Plan.

In 2021, GDP growth will reach 4.3%. The second wave of the pandemic will slow the pace of recovery this year. The update of the forecast assumes that although the second wave has less of an impact on the economy, it will last longer. Current economic situation in Slovakia is significantly impacted by outbreak of COVID-19 pandemic. Not only pandemic itself but also related measures and restrictions may have very negative impact on the economic performance and trade flows in general since pandemic will also negatively affect the economies of our trading partners, and foreign demand will be weaker in near future.

On the contrary, growth will be helped by the release of the billion-euro COVID reserve to help the economy and, in the second half of the year, the start of the EU Recovery and Resilience Plan. The

economy will gain momentum from 2022, mainly thanks to EU funds. The update of the forecast envisages the drawing of funds under the EU Recovery and Resilience Plan in the amount of 5.8 billion euro They will support the economy until 2026. At the same time, by 2023, the drawing of funds from the current programming period of EU funds will peak. EU resources thus compensate for the consolidation of public finances at the level of 1 p.p. since 2022.

2.8 Relations with Black Sea countries

It is observed that more than 50% of the total imports of the six DR countries for who data has been identified at Comext, is represented by imports of petroleum products from Russian Federation, with 33.2 mln tonnes in 2019, from 62.7 mln tonnes total imports.

These are followed by the imports of NSTR4 Ores and Metal Waste from Ukraine, with 5.1 mln tonnes in 2019.

Russian Federation is the main partner for imports, with 41.6 mln tonnes in 2019.

Imports from Ukraine reach 14 mln tonne sand from Turkey 6.7 mln tonnes in 2019.

Regarding exports, the total volume is much less compared with the imports, with 16.3 mln tonnes exported to Black Sea countries in 2019. Turkey is the most important partner for exports, with 9.3 mln tonnes, thus with more than 50% of the total exports, of which exports of NSTR0 Agricultural products and live animals are of 1.8 mln tonnes.

The highest volume by goods is represented by the exports of NSTR3 Petroleum products to Ukraine, with 3.2 mln tonnes, most of it from Hungary with 2.9 mln tonnes.

3 Data collection base year 2019 and 2015 – 2019 period

3.1 Austria

Austria and its federal states

Austria has a land area of 83 883 km² and is thus somewhat smaller than Portugal and Hungary and somewhat larger than the Czech Republic.

Located in the southern part of Central Europe, the republic shares borders with Germany and the Czech Republic in the north, the Slovak Republic and Hungary in the east, Slovenia and Italy in the south, and Switzerland and Liechtenstein in the west.

There are 573 km between the western and easternmost points of Austria. The longest north-south stretch totals 294 km. With 114 m above sea level, Austria's lowest point is located in Burgenland, in the Seewinkel region near Apetlon.

Figure 1: Austria in the EU

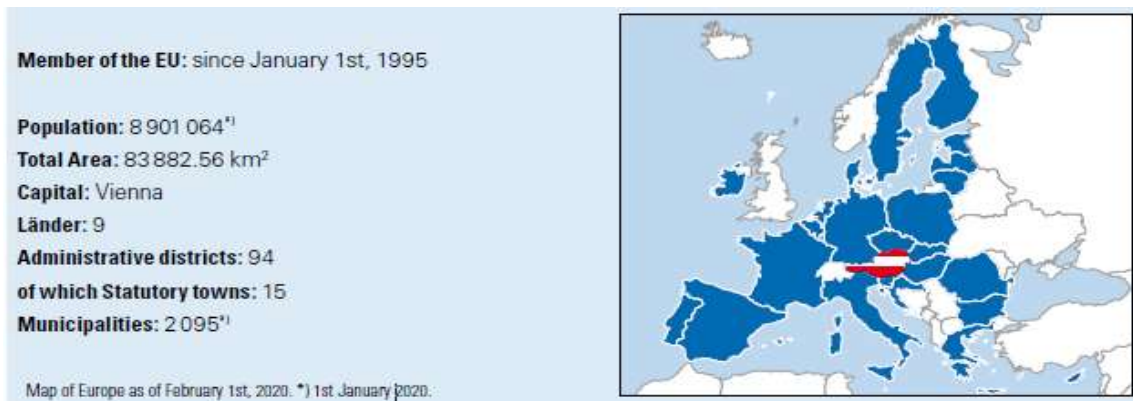


Figure 2: Austria as a federal state



3.2 Bulgaria

The following social and economic data has been gathered for the purpose of this study:

- Data category: socio-economic data at NUTS 2 level
 - o GDP
 - o Population
 - o GDP per capita
 - o GVA by economic sector
- Data category: trade flows at a country level
 - o Imports and Exports by category of goods, in tonnes per year
 - o Internal/domestic trade by category of goods, in tonnes per year (IN/OUT flows)

The term “regions” is used on NUTS 2 level. There are overall six NUTS 2 regions in Bulgaria, three of them are bordering the Danube River, thus are part of the Danube region.

Figure 3: Map of the NUTS 2 regions in Bulgaria



3.3 Croatia

N.a.

3.4 Hungary

The NUTS 2 level indicators are shown below, i.e.

- GDP data for 2014-2019,
- the population between 2015-2019,
- GDP / capita between 2014 and 2019,
- the GVA value between 2015-2019,

in addition, foreign trade data at NUTS 3 level, i.e. tables showing the volume of exports and imports in value and volume, are based on statistics from the Central Statistical Office

The map below shows the NUTS2 regions for Hungary.

Figure 4: Map of the NUTS2 regions for Hungary



Source: https://www.ksh.hu/teruletiatlasz_regiok

3.5 Romania

The following socio-economic data has been collected at the minimum at NUTS2 level:

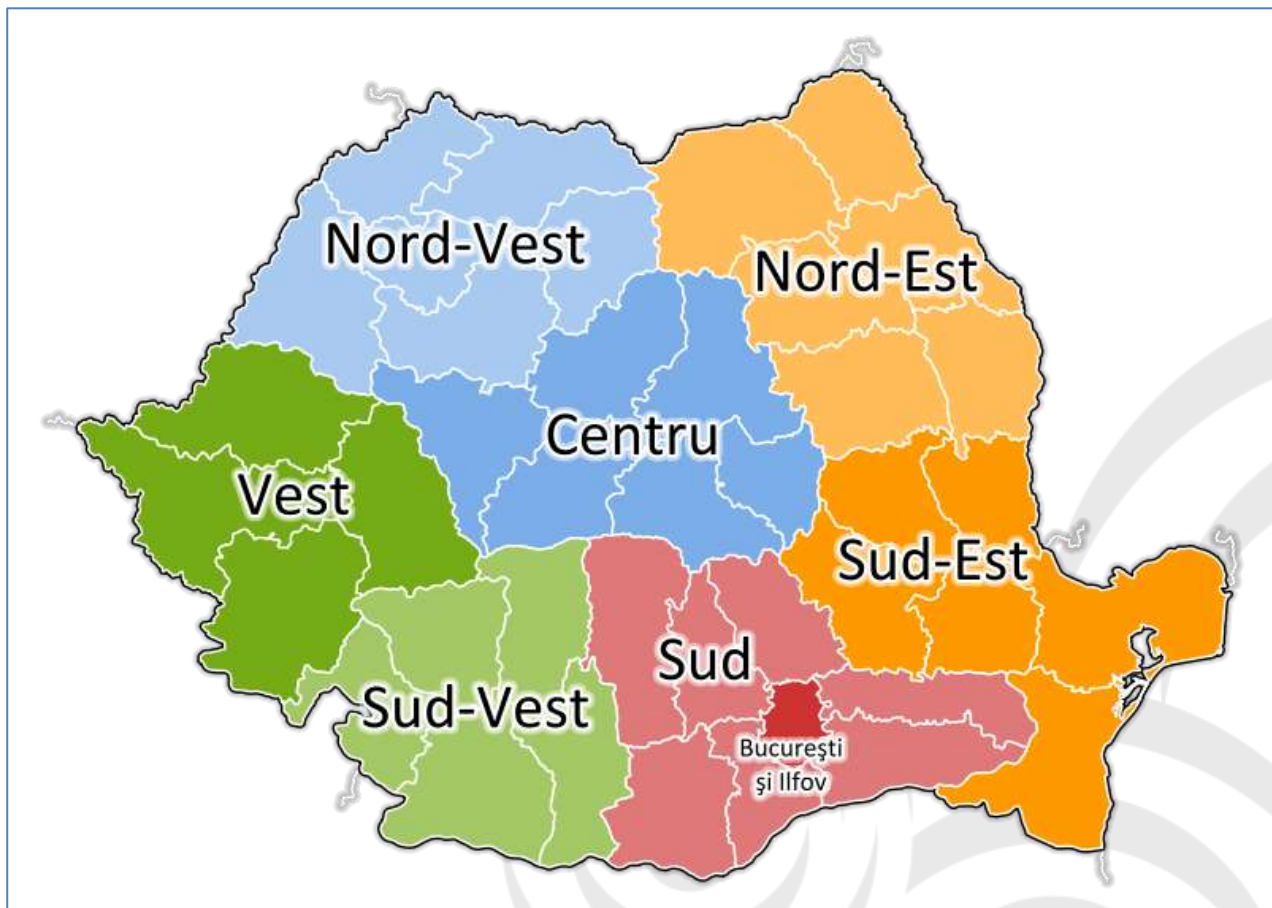
- GDP: 2014 – 2018 officially available at the National Statistics Institute
- Population: 2015 – 2019 officially available at the National Statistics Institute
- GDP per capita: 2014 – 2018 officially available at the National Statistics Institute
- GVA by economic sector, from the National Forecasting Commission

The following trade flows data has been collected at the minimum at NUTS 2 level:

- Imports and Exports by category of goods, in Euros and tonnes per year
- Internal/domestic trade by category of goods, in Euros and tonnes per year (IN/OUT flows)

The map below shows the NUTS2 regions for Romania.

Figure 5: Map of the NUTS2 regions for Romania



3.6 Serbia

The following socio-economic data has been collected at the minimum at NUTS2 level:

- GDP: 2013 – 2019 officially available at the Statistical Office of the Republic of Serbia
- Population: 2013 – 2019 officially available at the Statistical Office of the Republic of Serbia
- GDP per capita: 2013 – 2019 officially available at the Statistical Office of the Republic of Serbia
- GVA by economic sector, from the Statistical Office of the Republic of Serbia

Imports and exports trade flows data has been collected at the country level by category of goods and expressed in USD and tonnes per year.

The map below shows the NUTS2 regions for Serbia.

Figure 6: Map of the NUTS2 regions for Serbia



3.7 Slovakia

Current and historical international abbreviation “NUTS” is derived from French name valid until 2002, “*Nomenclature des unités territoriales statistiques*” that stands for “Nomenclature of statistical territorial units.” The NUTS classification is a hierarchical system for dividing up the economic territory of the EU and the UK for the purpose of:

- The collection, development and harmonization of European regional statistics
- Socio-economic analyses of the regions:
 - NUTS 1: major socio-economic regions
 - NUTS 2: basic regions for the application of regional policies
 - NUTS 3: small regions for specific diagnoses
- Framing of EU regional policies

The NUTS level of the relevant administrative unit is determined based on demographic thresholds:

- NUTS 1: 3 million - 7 million inhabitants
- NUTS 2: 800 000 - 3 million inhabitants
- NUTS 3: 150 000 - 800 000 inhabitants

NUTS may but does not have to correspond necessarily to the administrative division of the state. For this purpose, Slovakia is divided into 4 parts:

1. SK01: Bratislava region,
2. SK02: Western Slovakia (Trnava, Nitra and Trenčín regions),
3. SK03: Central Slovakia (Žilina and Banská Bystrica regions) and
4. SK04: Eastern Slovakia (Prešov and Košice regions).

Interactive map of Slovakia reflecting both administrative and NUTS division may be found at: http://www.sodbtn.sk/obce/obce_nuts_mapa.php.

Figure 7: Administrative division of Slovakia



Figure 8: NUTS2 division of Slovakia



Following socio-economic data has been collected at the NUTS 2 level in Slovakia:

- GDP 2015 – 2018 available at the Statistical Office of the Slovak Republic
- Population 2015 – 2019 available at the Statistical Office of the Slovak Republic
- GDP per capita 2015 – 2018
- GVA by economic

Data has been collected from official databases of the Statistical Office of the Slovak Republic.

The following trade flows data has been collected at the country level:

- Imports and Exports by category of goods, in tonnes per year
- Internal/domestic trade by category of goods, in tonnes per year (IN/OUT flows)

Unfortunately, the central government authority in this field, Statistical Office of the Slovak Republic, does not keep import and export statistics at NUTS 2 level.

4 Economic framework conditions 2015 – 2019

4.1 Gross Domestic Product

4.1.1 Austria

In 2019 all NUTS 2 regions showed a real growth of gross regional product (GRP) on the previous year, with volume growth rates ranging between 2.0% (Styria) and 0.8% (Carinthia). Total Austrian GDP at previous year's prices increased by 1.4%. Besides the above mentioned, Vorarlberg and Tirol (each 1.8%), Salzburg (1.7%), Burgenland (1.6%) and Upper Austria (1.5%) achieved growth rates of GRP above the Austrian average. Vienna (1.2%) and Lower Austria (0.9%) showed growth rates below the Austrian average.

Table 1: GRP 2019 NUTS 2 AT

Gross Regional Product¹⁾ 2019²⁾ by Länder

Region	2019 in million € (current prices)	real growth in % (based on previous year's prices)	Portion of Austrian GDP in 2019 in %	Portion of resident population ³⁾ in 2019 in %
AUSTRIA	397.575	1,4	100,0	100,0
Burgenland	9.273	1,6	2,3	3,3
Lower Austria	61.706	0,9	15,5	18,9
Vienna	100.348	1,2	25,2	21,4
Carinthia	21.506	0,8	5,4	6,3
Styria	50.831	2,0	12,8	14,0
Upper Austria	68.380	1,5	17,2	16,7
Salzburg	29.852	1,7	7,5	6,3
Tyrol	36.383	1,8	9,2	8,5
Vorarlberg	19.162	1,8	4,8	4,5
Extra-Regio ⁴⁾	135	-1,3	0,0	.

S: STATISTICS AUSTRIA, Regional Accounts. Compiled on 4 December 2020. - Consistent with National Accounts dated September 2020. - Concept: ESA 2010. - No compensation of any rounding differences. - 1) The Gross Regional Product (GRP) is the regional counterpart of the Gross Domestic Product (GDP); it is determined by Gross Value Added at basic prices plus taxes on products minus subsidies on products. - 2) Preliminary estimates. - 3) Annual average. - 4) "Extra-Regio" refers to parts of the economic territory not directly allocable to a region (i.e. embassies abroad).

The following content gives an overview of the current economic and social situation in Austria in general, and also with a view to the NUTS 2 level as described below.

Some figures of Federal States in AT 2019

Table 2: Socio economic data NUTS 2 AT 2019

Federal State AT	Total area (sqkm)	Population (January 1st 2020)	Unemployment rate 2019 in % (ILO definition)	Average living space per person in sqm 2019	GRP in volume terms 2019 change in % / GRP per capita 2019 in €
Burgenland	3 965.22	294 436	3.6%	54.0	1.6/31 600
Carinthia	9 536.50	561 293	3.8%	49.7	0.8/38 300
Lower Austria	19 179.56	1 684 287	4.0%	51.1	0.9/36 700
Upper Austria	11 982.52	1 490 279	2.9%	47.8	1.5/46 000
Salzburg	7 154.56	558 410	2.4%	43.0	1.7/53 600
Styria	16 399.34	1 246 395	3.2%	47.5	2.0/40 800
Tyrol	12 648.37	757 634	2.1%	43.2	1.8/48 100
Vorarlberg	2 601.67	397 139	3.2%	42.8	1.8/48 400
Vienna	414.82	1 911 191	9.3%	36.1	1.2/52 700

(Source: Austria Data/Figures/Facts 2020)

Data at NUTS 2 level have been collected from the National Statistics Institute. In the following the data is presented for the period 2015 – 2019 for each category of socio-economic data.

Conclusions on GDP and GDP per capita

In 2019 the Austrian economy expanded by 1.4%. Hence, the growth rate is below the preliminary estimates, which, however, had already indicated a slowdown in growth dynamics in Austria (2017: +2.4%, 2018: +2.6%). The real GDP growth in the European Union, information so far available, was with 1.5% similar to the Austrian growth rate.

In 2019 Austria's GDP rose by 3.2% in 2019 at current prices to around € 397.6 billion. Hence, GDP per capita amounted to € 44 780 (+2.7%). In real terms (adjusted by purchasing power and indicated in Purchasing Power Standards = PPS) for the European comparison the GDP per capita adds up to € 40 320 (+2.3 vs. 2018; revised).

Austria kept its top position and ranks in fifth place after Luxembourg, Ireland, Denmark and the Netherlands in economic performance of all EU member states.

Table 3: GDP, price level, inflation 2017 - 2019

Gross domestic product (GDP), price level, inflation				
	Austria	EU-15	EU-28	Eurozone-19
GDP growth as % change on previous period				
2017	2.4	2.4	2.6	2.6
2018	2.6	1.7	2.0	1.9
2019	1.4	1.3	1.5	1.3
GDP per capita in € (PPS)				
2017	37 960	32 470	30 110	31 920
2018	39 410	33 310	31 030	32 840
2019	40 320	34 190	32 020	33 730
Price level index for private households (EU-28=100)				
2017	111 .8	110 .0	100 .0	105 .6
2018	112 .0	110 .1	100 .0	105 .9
2019	113 .0	110 .3	100 .0	106 .0
Inflation: Harmonized index of consumer prices (HICP)				
Average annual rate of change as %, 2019	1.5	1.5	1.5	1.2

S: STATISTICS AUSTRIA, Eurostat, PPS: Purchasing power standards.

The GRP growth for the Period 2015 – 2019 by NUTS 2 region is shown below:

Table 4: GRP NUTS 2 2015 - 2019

Gross Regional Product ¹⁾ by Länder ²⁾ in volume terms						
NUTS-Code	Region	2015	2016	2017	2018	2019 ³⁾
change in %						
AT	AUSTRIA	1,0	2,0	2,4	2,6	1,4
AT11	Burgenland	1,0	1,5	3,3	0,7	1,6
AT12	Low er Austria	1,4	1,2	3,3	2,2	0,9
AT13	Vienna	0,6	2,8	1,0	3,0	1,2
AT21	Carinthia	-0,4	0,5	3,6	3,9	0,8
AT22	Styria	0,2	2,6	3,1	1,4	2,0
AT31	Upper Austria	0,8	1,8	2,6	3,4	1,5
AT32	Salzburg	2,0	2,9	2,5	1,9	1,7
AT33	Tyrol	2,2	1,6	2,2	3,0	1,8
AT34	Vorarlberg	2,4	0,8	3,1	1,4	1,8
ATZZ	Extra-Regio ⁴⁾	1,6	-2,0	-1,4	1,4	-1,3
change in % per person						
AT	AUSTRIA	0,0	0,7	1,8	2,1	1,0
AT11	Burgenland	0,5	0,7	3,1	0,5	1,2
AT12	Low er Austria	0,7	0,1	2,9	1,8	0,5
AT13	Vienna	-1,2	0,7	-0,4	2,2	0,6
AT21	Carinthia	-0,7	0,1	3,6	3,9	0,8
AT22	Styria	-0,4	1,7	2,9	1,2	1,7
AT31	Upper Austria	-0,1	0,6	2,0	2,8	1,0
AT32	Salzburg	1,0	1,7	1,9	1,4	1,2
AT33	Tyrol	1,1	0,2	1,4	2,4	1,4
AT34	Vorarlberg	1,3	-0,7	2,1	0,7	1,0
ATZZ	Extra-Regio ⁴⁾

Table 5: GRP 2019, growth in %

Gross Regional Product ¹⁾ 2019 ²⁾ by Länder				
Region	2019 in million € (current prices)	real grow th in % (based on previous year's prices)	Portion of Austrian GDP in 2019 in %	Portion of resident population ³⁾ in 2019 in %
AUSTRIA	397.575	1,4	100,0	100,0
Burgenland	9.273	1,6	2,3	3,3
Low er Austria	61.706	0,9	15,5	18,9
Vienna	100.348	1,2	25,2	21,4
Carinthia	21.506	0,8	5,4	6,3
Styria	50.831	2,0	12,8	14,0
Upper Austria	68.380	1,5	17,2	16,7
Salzburg	29.852	1,7	7,5	6,3
Tyrol	36.383	1,8	9,2	8,5
Vorarlberg	19.162	1,8	4,8	4,5
Extra-Regio ⁴⁾	135	-1,3	0,0	.

4.1.2 Bulgaria

The following table shows some of the required indicators for every region relevant to this study. The Severozapaden (North West), Severen Tsentralen (North Central) and Severoiztochen (North East) regions are part of the Bulgarian side of the Danube region, while the Yugoiztochen (South East) region is a neighbouring Black sea region, therefore also relevant for this study. A five-year period is reviewed – from 2015 to 2019.

Table 6: GDP in the relevant NUTS 2 regions in Bulgaria

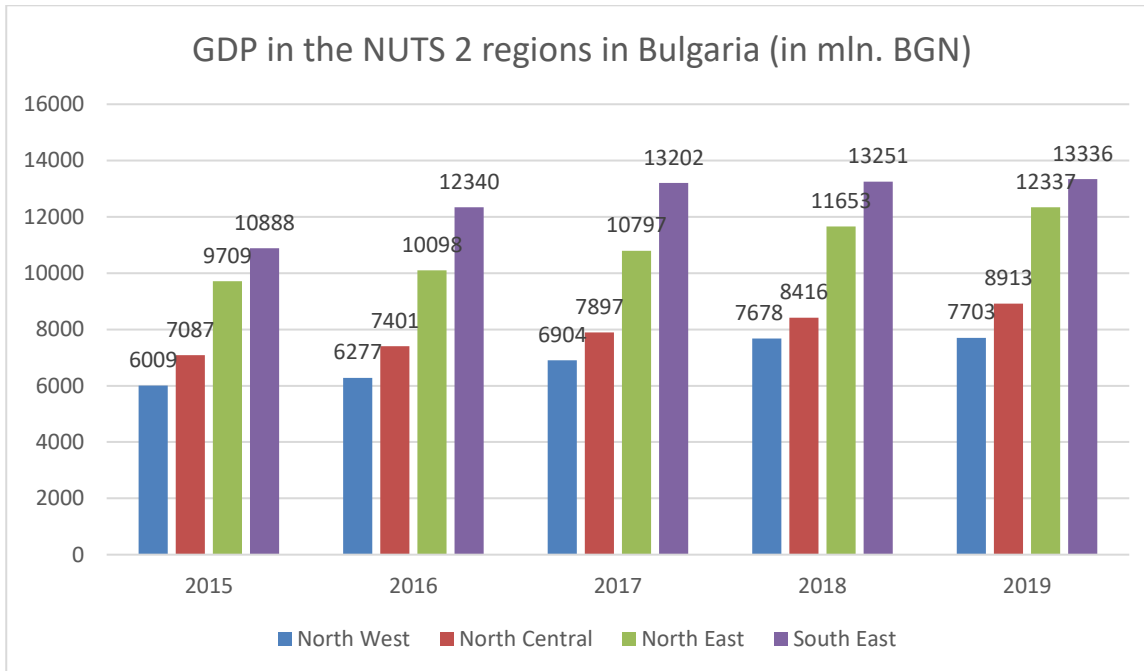
Region	GDP (in mln. BGN)
Severozapaden (North West region)	2019 – 7 703
	2018 – 7 678
	2017 – 6 904
	2016 – 6 277
	2015 – 6 009
Severen Tsentralen (North Central region)	2019 – 8 913
	2018 – 8 416
	2017 – 7 897
	2016 – 7 401
	2015 – 7 087
Severoiztochen (North East region)	2019 – 12 337
	2018 – 11 653
	2017 – 10 797
	2016 – 10 098
	2015 – 9 709
Yugoiztochen (South East region)	2019 – 13 336
	2018 – 13 251
	2017 – 13 202
	2016 – 12 340
	2015 – 10 888

Exchange rate: 1 BGN = 0.511292 EUR

This data, represented below in a series of charts, illustrates the current condition of the socio-economic indicators and growing trends, based on the reviewed five-year period.

The figure below presents the GDP of the relevant regions:

Figure 9: GDP in the NUTS 2 regions in Bulgaria



South East region leads in this category thanks to its two strong economic centers – Burgas and Stara Zagora. At the same time, Varna is the driving force behind North East region reaching the second place. The other two regions do not have such distinctly strong economic centers and that is why they lag behind.

In terms of the GDP, the South East region is in the lead thanks to two cities – Burgas and Stara Zagora. Both cities are major industrial centers and attract a lot of investments. The other major industrial center in Northern and Eastern Bulgaria is Varna, which is situated in the North East region and that is why this region takes the second spot in the ranking. North Central and North West regions are far behind the other two. The main economic centers in North Central are Ruse and Veliko Tarnovo, while in North West – Vratsa and Pleven.

The situation is similar when it comes to GDP/capita. The North East and South East regions take the first two spots. In terms of development, they are very close to one another and both are Black Sea regions. The other two – North West and North Central, are far behind them.

4.1.3 Croatia

Republic of Croatia – data for 2018 (last official final data)

Table 7: GDP, population and GDP/capita Croatia 2018

Gross domestic product, '000 HRK	385.377
Gross domestic product, '000 EUR	51.979
Population, '000	4,088
Gross domestic product per capita, EUR	12.716

Table 8: GDP 2015 – 2019, Croatia

GDP Croatia 2015-2019²

year	2015	2016	2017	2018	2019
GDP Croatia / 000 EUR	44,612.03	46,619.26	49,238.45	51,950.15	54,237.91

² https://ec.europa.eu/eurostat/databrowser/view/nama_10r_2gdp/default/table?lang=en

4.1.4 Hungary

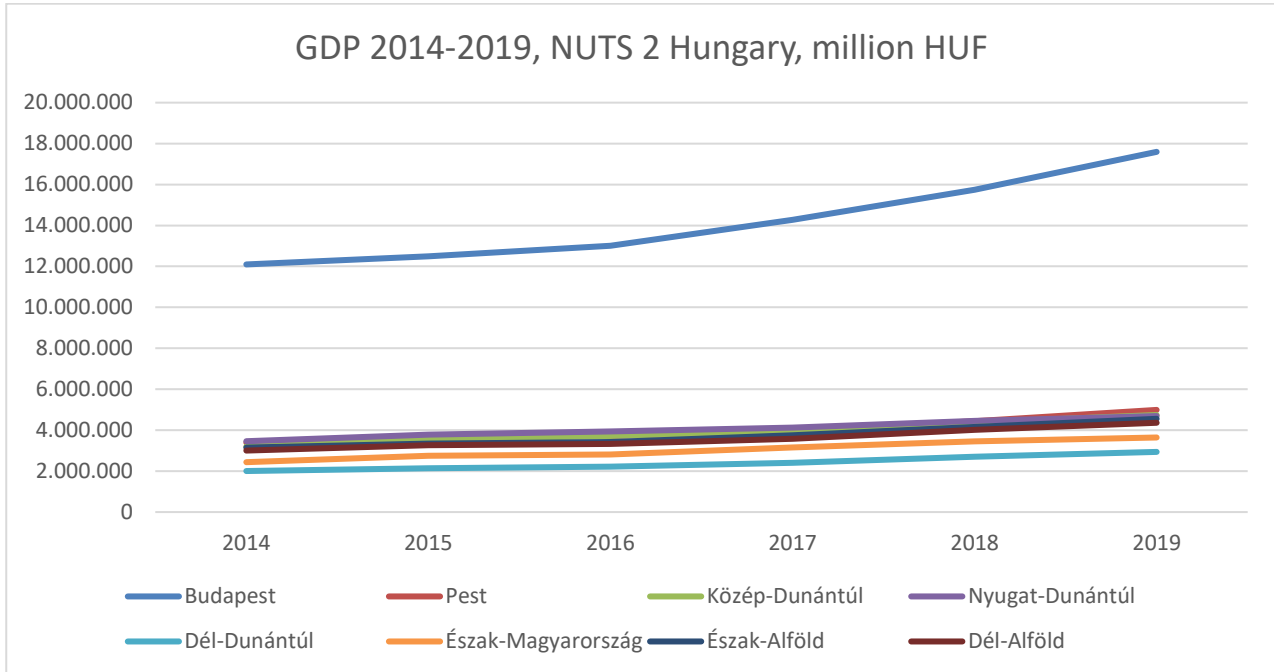
The table and graph below show the development of gross domestic product (GDP) between 2014 and 2019, broken down by NUTS 2 regions, at market purchase prices, in HUF million.

Table 9: GDP 2014 - 2019, by NUTS2, Hungary

Region - NUTS 2/year	2014	2015	2016	2017	2018	2019
Budapest	12 096 396	12 485 510	13 015 246	14 281 602	15 746 146	17 596 316
Pest	3 392 719	3 642 416	3 716 887	3 972 662	4 441 173	4 989 854
Közép-Dunántúl	3 198 222	3 535 822	3 712 773	3 956 545	4 369 339	4 742 111
Nyugat-Dunántúl	3 460 675	3 783 013	3 942 441	4 125 848	4 455 080	4 688 396
Dél-Dunántúl	2 003 525	2 135 243	2 215 675	2 412 577	2 707 892	2 938 728
Észak-Magyarország	2 436 724	2 746 511	2 815 101	3 149 617	3 460 272	3 641 814
Észak-Alföld	3 149 773	3 348 569	3 423 156	3 756 606	4 151 152	4 554 887
Dél-Alföld	3 004 143	3 260 229	3 326 177	3 577 972	4 015 987	4 361 805

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt012c.html

Figure 10: GDP in the NUTS 2 regions in Hungary



Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt012c.html

The highest GDP value can be observed in the Budapest region; In 2019, this amount is HUF 17,596,316,000,000.

4.1.5 Romania

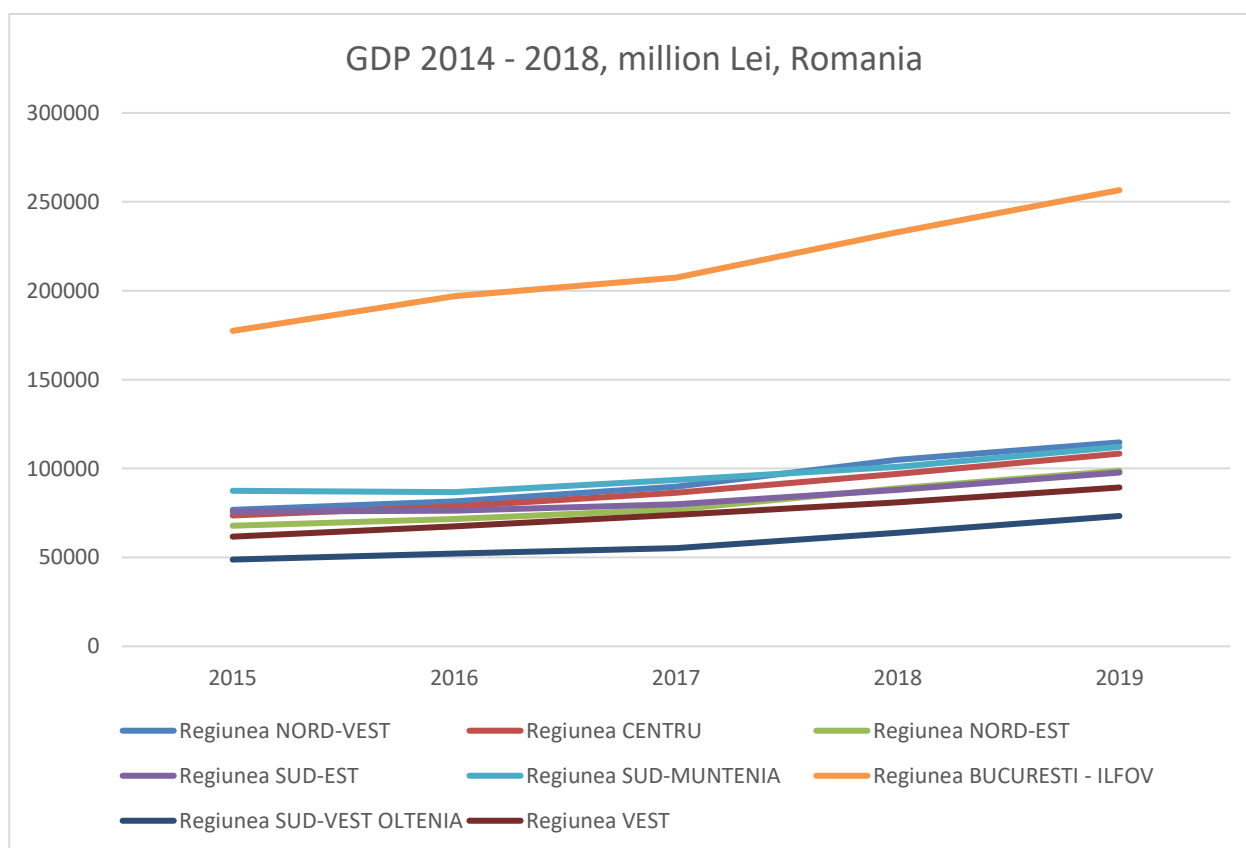
The available data set is for the period 2014 – 2018, in mln. Lei, as follows:

Table 10: GDP by NUTS 2 RO 2014 - 2018

Region - NUTS2	2014	2015	2016	2017	2018
Regiunea NORD-VEST	76764	81499	89715	104849	114694
Regiunea CENTRU	73595	78612	86291	96984	108370
Regiunea NORD-EST	67834	71578	76990	88848	98763
Regiunea SUD-EST	75735	76254	79824	87914	97757
Regiunea SUD-MUNTENIA	87397	86728	93599	100918	112179
Regiunea BUCURESTI - ILFOV	177422	196988	207390	232876	256596
Regiunea SUD-VEST OLTENIA	48785	52215	55300	63928	73300
Regiunea VEST	61699	67486	74012	80895	89327
Total	669232	711360	763120	857212	950986

The figure below shows the evolution of the GDP for the period 2014 – 2018.

Figure 11: GDP 2014 - 2018, million Lei, Romania



The highest GDP and the highest GDP growth is noticed for the region Bucharest – Ilfov, reaching almost 257 billion Lei in 2019.

Conclusions on GDP

The GDP growth for the period 2014 – 2018 is shown below.

Table 11: GDP growth by NUTS 2 RO 2014 - 2018

Region – NUTS2	Growth 2018 - 2014
Regiunea NORD-VEST	49.41%
Regiunea CENTRU	47.25%
Regiunea NORD-EST	45.60%
Regiunea SUD-EST	29.08%
Regiunea SUD-MUNTENIA	28.36%
Regiunea BUCURESTI - ILFOV	44.62%
Regiunea SUD-VEST OLTENIA	50.25%
Regiunea VEST	44.78%
Total	42.10%

The average GDP growth for the period 2014 – 2018 is 42.10% at the country level. The highest GDP growth is shown by the region Sud-Vest Oltenia with 50.25%, while the lowest growth is shown by the region Sud-Muntenia with 28.36%.

Correlation between economic development and trade flows

The following has been considered at the country level:

- Correlation between total imports growth and GDP growth;
- Correlation between total exports growth and GDP growth;
- Correlation between total trade growth and GDP growth.

The results are shown in the plot below.

Figure 12: Imports, exports and total trade growth vs GDP growth, Romania



The figure above shows that the ratio between imports, exports and total trade is between 0.9 and 1, with imports growth showing a higher ratio than exports growth to GDP growth.

4.1.6 Serbia

Data at NUTS 2 level have been collected from the Statistical Office of the Republic of Serbia. Following tables contain socio-economic data for each category for the period 2013 – 2019.

GDP – Gross Domestic Product

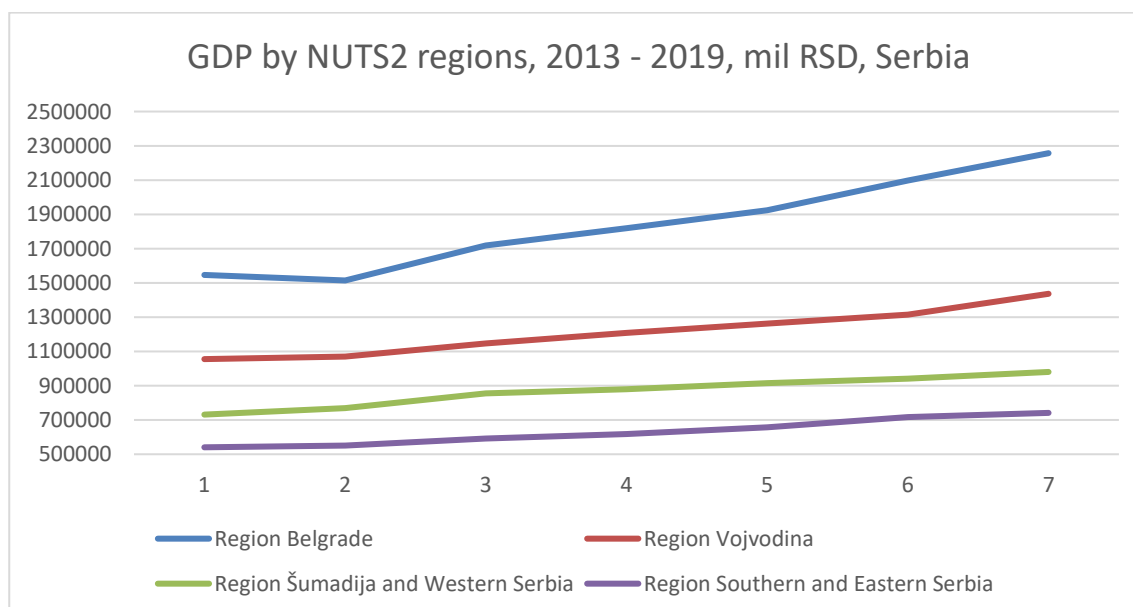
The available data set is for the period 2013 – 2019, in mln. RSD, as follows.

Table 12: GDP 2013 – 2019, by NUTS2 regions, Serbia

Region – NUTS2	2013	2014	2015	2016	2017	2018	2019
Region Belgrade	1 546 620	1 514 166	1 717 609	1 818 714	1 923 578	2 097 607	2 257 001
Region Vojvodina	1 055 270	1 070 479	1 147 310	1 209 041	1 262 680	1 314 080	1 436 403
Region Šumadija and Western Serbia	731 466	770 165	855 627	880 002	914 513	941 439	980 388
Region Southern and Eastern Serbia	540 461	551 050	591 421	617 415	656 810	717 110	741 290
Region Kosovo and Metohija ³	–	–	–	–	–	–	–
Total	3 876 403	3 908 470	4 315 020	4 528 192	4 760 686	5 072 932	5 417 725

The figure below shows the evolution of the GDP for the period 2013 – 2019.

Figure 13: GDP by NUTS2 regions, 2013 - 2019, mil RSD, Serbia



The regions of the Republic of Serbia had the following shares in the national GDP:

³ Statistical Office of the Republic of Serbia, since 1999, does not have data for the Autonomous Province of Kosovo and Metohija so that this is not included in the data coverage for the Republic of Serbia (total).

- Region Belgrade – 41.7%;
- Region Vojvodina – 26.5%
- Region Šumadija and Western Serbia – 18.1%
- Region Southern and Eastern Serbia – 13.7%.

Conclusions on GDP

The GDP growth for the period 2013 – 2019 is shown below.

Table 13: GDP growth for the period 2013 – 2019, by NUTS2 regions, Serbia

Region – NUTS2	Growth 2019 - 2013
Region Belgrade	45.93%
Region Vojvodina	36.12%
Region Šumadija and Western Serbia	34.03%
Region Southern and Eastern Serbia	37.16%
Region Kosovo and Metohija ⁴	-
Total	38.31%

The average GDP growth for the period 2013 – 2019 is 38.31% at the country level. The highest GDP growth is shown by the Region Belgrade with 45.93%, while the lowest growth is shown by the Region Šumadija and Western Serbia with 34.03%.

⁴ Statistical Office of the Republic of Serbia, since 1999, does not have data for the Autonomous Province of Kosovo and Metohija so that this is not included in the data coverage for the Republic of Serbia (total).

4.1.7 Slovakia

Regional gross domestic product (million PPS) by NUTS 2 regions between 2015-2018

GDP (gross domestic product) is an indicator of the output of a country or a region. It reflects the total value of all goods and services produced less the value of goods and services used for intermediate consumption in their production. Expressing GDP in PPS (purchasing power standards) eliminates differences in price levels between countries. Calculations on a per inhabitant basis allow for the comparison of economies and regions significantly different in absolute size. GDP per inhabitant in PPS is the key variable for determining the eligibility of NUTS 2 regions in the framework of the European Union's structural policy.

Figure 14: Euro area GDP and its components (annual percentage changes; percentage point contributions) Slovakia 2015-2019

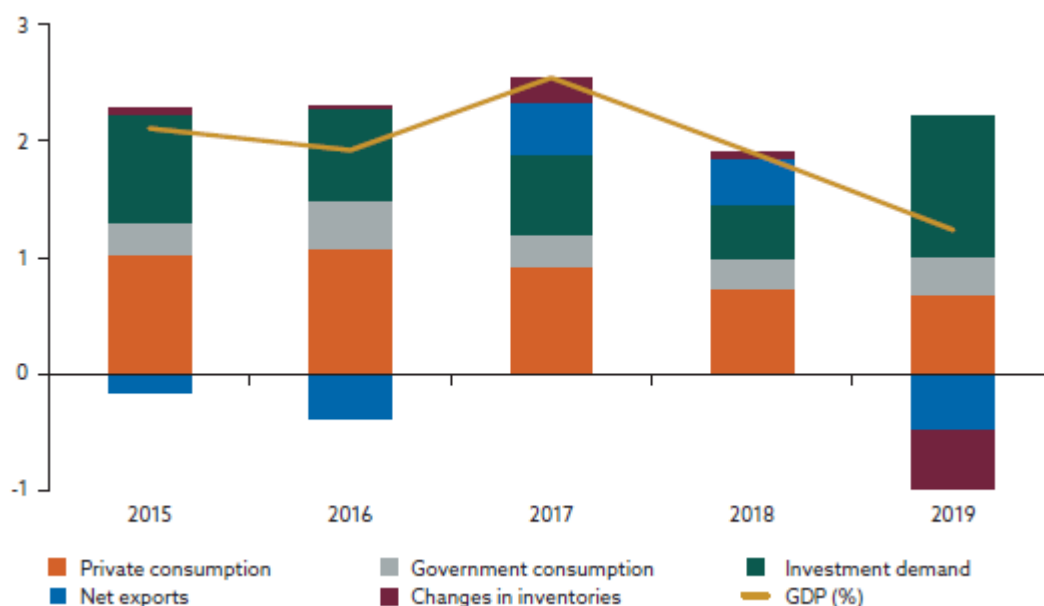
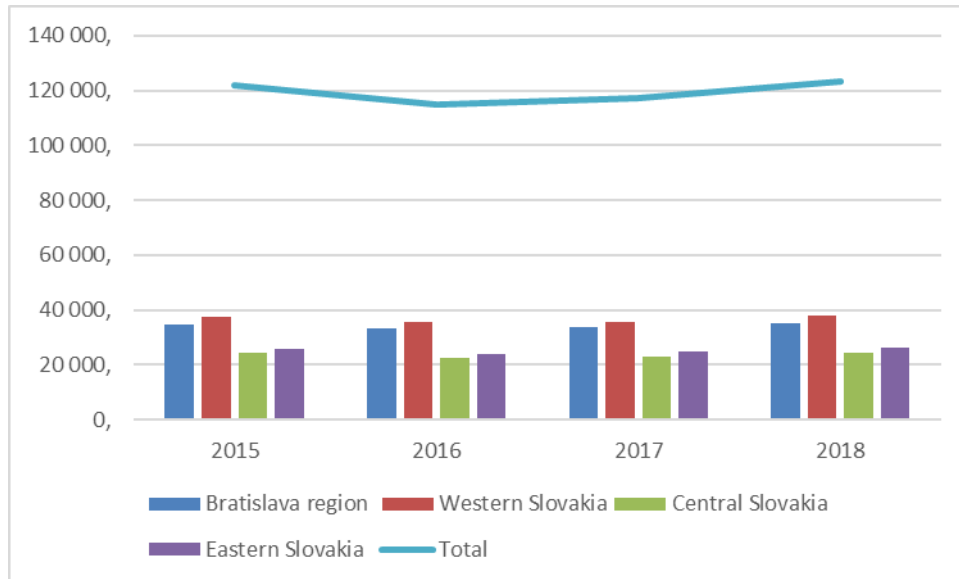


Table 14: Regional gross domestic product (million PPS) by NUTS 2 regions – Slovakia

NUTS2	2015	2016	2017	2018
Bratislava	34 791,55	33 191,49	33 589,69	34 943,67
Western Slovakia	37 490,44	35 444,26	35 695,66	37 725,52
Central Slovakia	24 192,52	22 623,92	22 904,5	24 105,72
Eastern Slovakia	25 524,14	23 824,2	24 874,74	26 416,9
Total	121 998,65	115 083,87	117 064,59	123 191,81

Figure 15: Regional gross domestic product (million PPS) by NUTS 2 regions - Slovakia



Conclusions on GDP

NUTS2	Difference 2015-2018
Bratislava region	0,44%
Western Slovakia	0,63%
Central Slovakia	-0,36%
Eastern Slovakia	3,50%
Total	0,98%

The highest GDP growth between 2015 and 2018 is noticed for the Eastern Slovakia. Western Slovakia and Bratislava region have been economically the strongest, therefore growth is not that significant.

4.2 Population

4.2.1 Austria

Around 1900, close to 6 million people were living in Austria (within its present-day borders). The 7 million mark was reached in the late 1950s. In 2000, Austria's population has surpassed the 8 million mark. At the beginning of 2020, 8.9 million inhabitants were registered in Austria. According to current population projections, the figure is expected to reach 9.93 million by 2080. The municipality with the largest population is Vienna, which had 1.9 million residents at the beginning of 2020. A fifth of Austria's population thus lives in the federal capital. Next come the provincial capitals Graz (291 000 residents), Linz (207 000 residents), Salzburg (155 000 residents) Innsbruck (132 000 residents) and Klagenfurt (101 000 residents).

There are also some very small municipalities in Austria. A total of six municipalities had less than 100 inhabitants at the beginning of 2020. The smallest municipality is Gramais in Tyrol with 41 citizens, followed by Tschanigraben (Burgenland, 65 residents), Namlos (Tyrol, 73 residents), Kaisers (Tyrol, 75 residents) and Hinterhornbach (Tyrol, 91 residents).

The age pyramid, a mirror of history

The history of the 20th century has left its mark on the present-day age pyramid. There are many more women than men not only in the highest ages but generally in all age groups beginning with the age of 58. This is due to the longer life expectancy of women.

Table 15: Population by sex and major age groups, 2015 – 2020, Austria

Population by sex and major age groups at the beginning of the year						
Sex	2015	2016	2017	2018	2019	2020
Total	8 584 926	8 700 471	8 772 865	8 822 267	8 858 775	8 901 064
Males	4 200 397	4 272 553	4 312 441	4 338 518	4 357 033	4 378 772
Females	4 384 529	4 427 918	4 460 424	4 483 749	4 501 742	4 522 292
Age	in %					
0 to 14 years	14.3	14.3	14.4	14.4	14.4	14.4
15 to 64 years	67.3	67.2	67.1	66.9	66.7	66.6
65+ years	18.5	18.4	18.5	18.7	18.8	19.0

S: STATISTICS AUSTRIA, Population Statistics.

Table 16: Population development in Austria

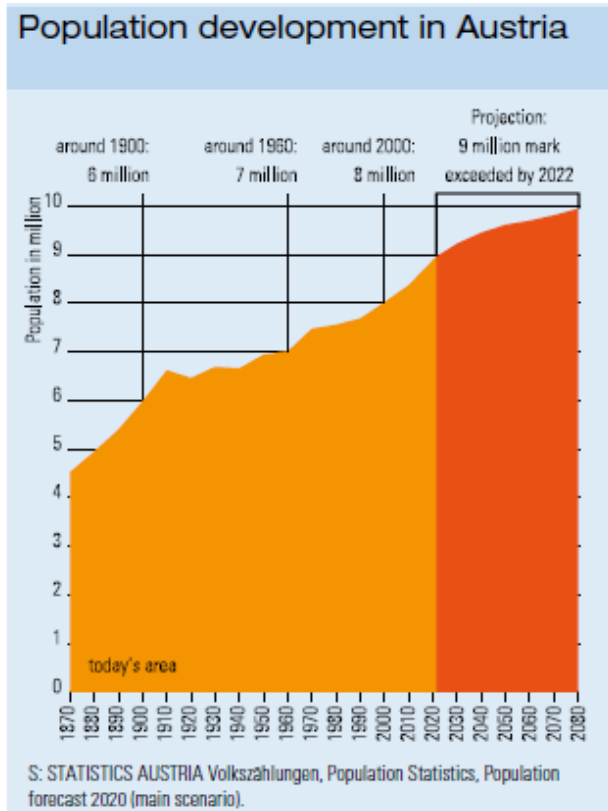


Table 17: Population six largest & smallest municipalities

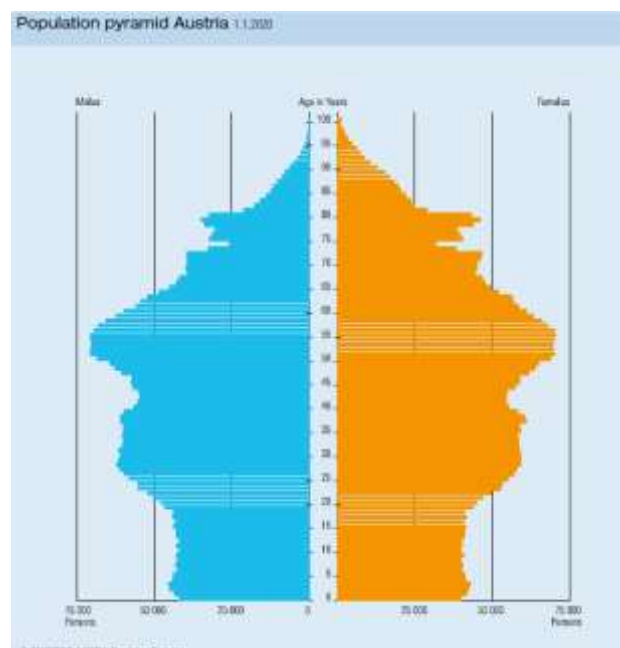
The six largest and smallest municipalities at the beginning of the year

The largest municipalities	Total population	
	2019	2020
Wien	1 897 491	1 911 191
Graz	288 806	291 072
Linz	205 726	206 595
Salzburg	154 211	155 021
Innsbruck	132 110	131 961
Klagenfurt	100 817	101 300

The smallest municipalities	2019	2020
Gramais (T)	41	41
Tschanigraben (B)	65	65
Namlos (T)	74	73
Kaisers (T)	76	75
Hinterhornbach (T)	93	91
Spiss (T)	109	104

S: STATISTICS AUSTRIA, Population Statistics.

Figure 16: Population pyramid AT



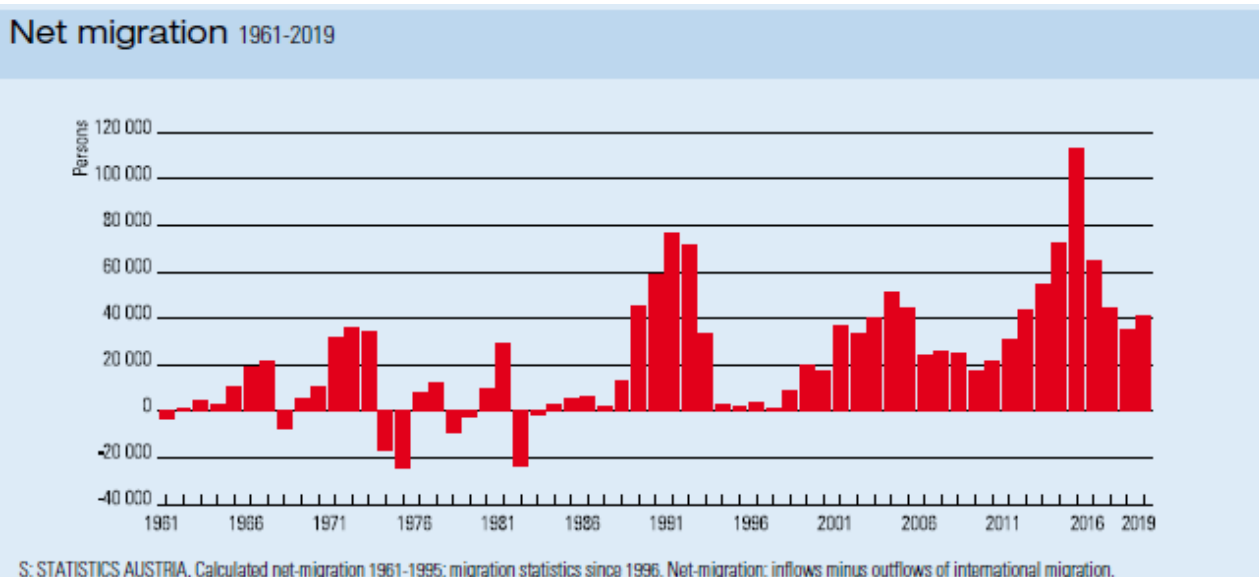
Demographic trends

Table 18: Demographic trends 2015 - 2019

Births, deaths, marriages, divorces, net migration and naturalizations 2015-2019					
Indicator	2015	2016	2017	2018	2019
Life births	84 381	87 675	87 633	85 535	84 952
Total fertility rate	1.49	1.53	1.52	1.48	1.46
Deaths	83 073	80 669	83 270	83 975	83 386
Balance of births and deaths	1 308	7 006	4 363	1 560	1 566
Marriages ^{*)}	44 502	44 890	44 981	46 468	46 034
of which both partners never married before	30 489	31 114	31 110	32 225	32 007
Divorces ^{**)}	16 351	15 919	16 180	16 304	16 319
Total divorce rate (as %) ^{***)}	41.60	40.45	40.98	40.99	40.68
Net migration	113 067	64 676	44 630	35 301	40 613
Naturalizations	8 144	8 530	9 125	9 355	10 500
Rate of naturalizations (as %) ^{****)}	0.68	0.65	0.67	0.66	0.72

S: STATISTICS AUSTRIA. *) Since 2015 including marriages occurring abroad of persons with main residence in Austria. From 2018 onwards including same-sex couples and from 2019 onwards including conversions of registered partnerships into marriages. **) Since 2018 including divorces of people with a main residence in Austria that took place abroad. Since 2019 including divorces of same-sex-couples. ***) Sum of duration-specific divorce rates in per cent of the corresponding marriages as a whole. ****) Naturalizations in per cent of foreigners living in Austria on an annual average.

Figure 17: Net migration 1961 - 2019



Foreign citizens

Table 19: Population by selected citizenship 2015 - 2019

Figure 18: Share of foreign population in AT

Figure 19: Foreign population by citizenship

Year (1st Jan.)	Total Population	Austria	Foreign citizenship				
			Total	in %	EU *)	EFTA*)	Third countrys
2015	8 584 926	7 438 848	1 146 078	13.3	570 298	18 483	566 915
2016	8 700 471	7 432 797	1 267 674	14.6	616 401	19 049	642 186
2017	8 772 865	7 430 935	1 341 930	15.3	655 524	19 573	677 201
2018	8 822 267	7 426 387	1 395 880	15.8	693 855	20 106	692 600
2019	8 858 775	7 419 852	1 438 923	16.2	730 209	20 586	699 098
2020	8 901 064	7 414 841	1 486 223	16.7	757 420	21 023	707 780

S: STATISTICS AUSTRIA, Population Statistics; *) According to recent borders (without Austria). **) UK is included in EU from 2015 to 2019 and in EFTA for 2020.

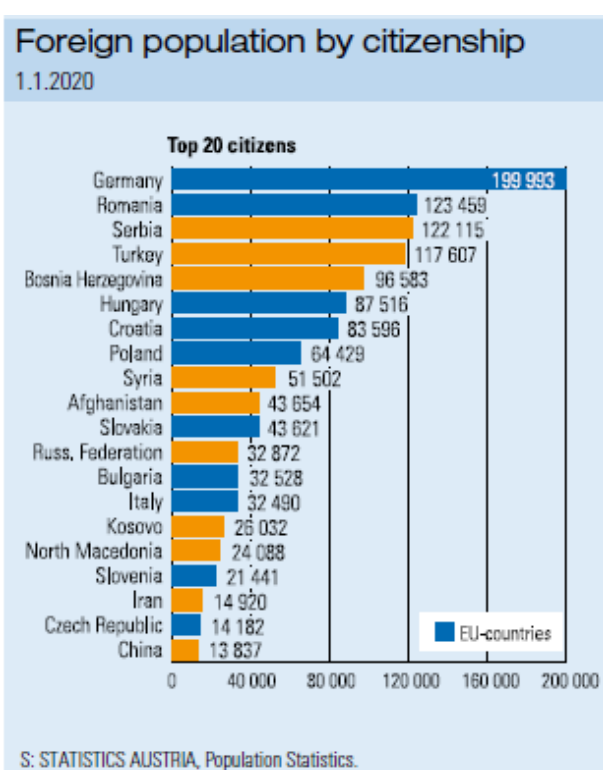
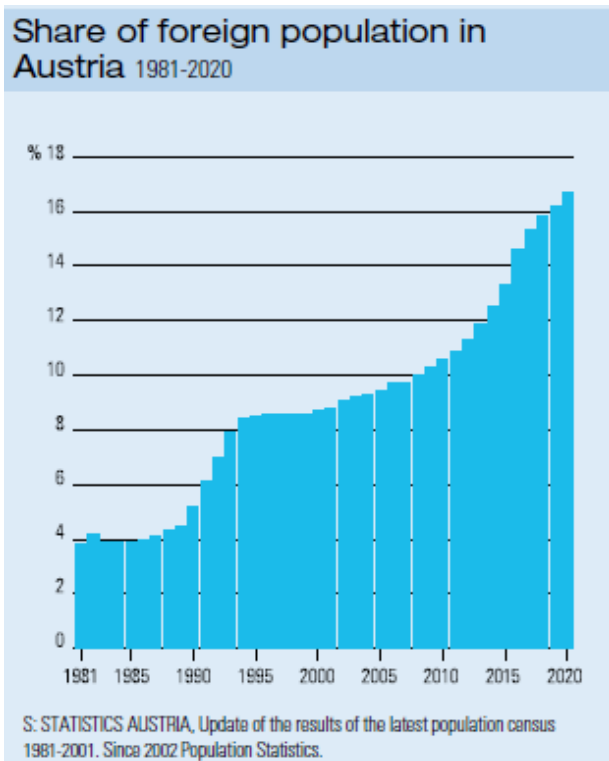


Figure 20: Private households 2019

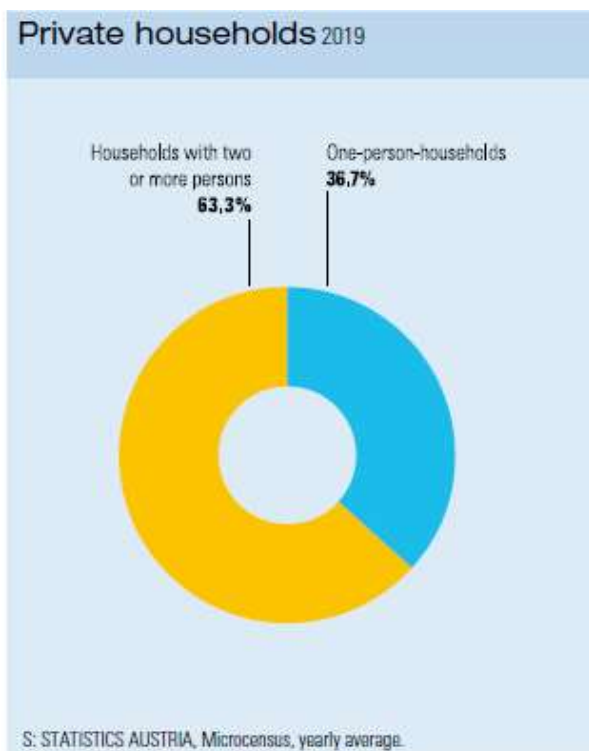
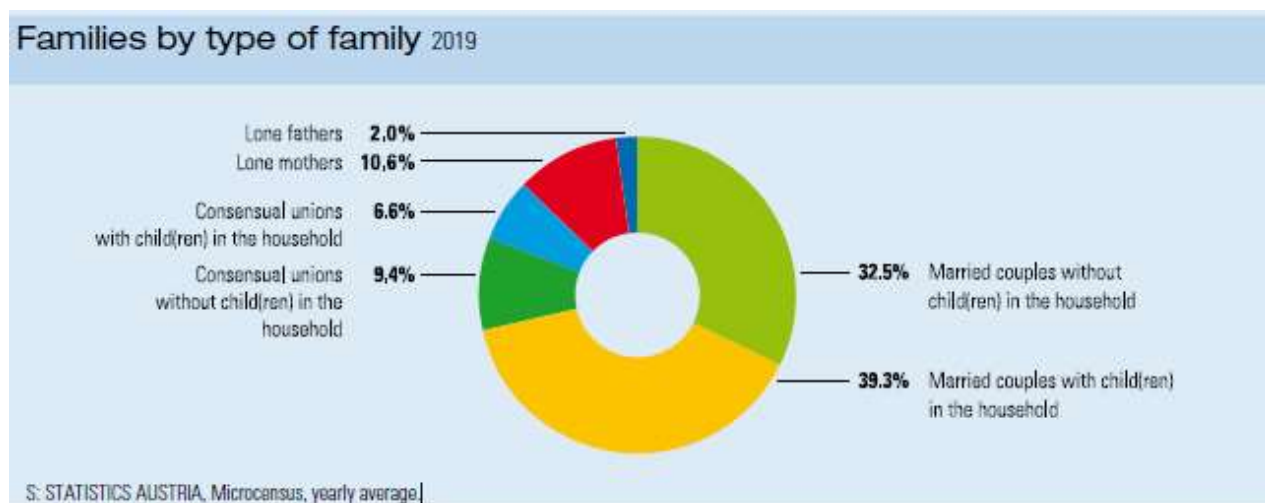


Figure 21: Families by type of family 2019



In the table below is shown the evolution of the total population for the period 2015 – 2019, by NUTS 2 region.

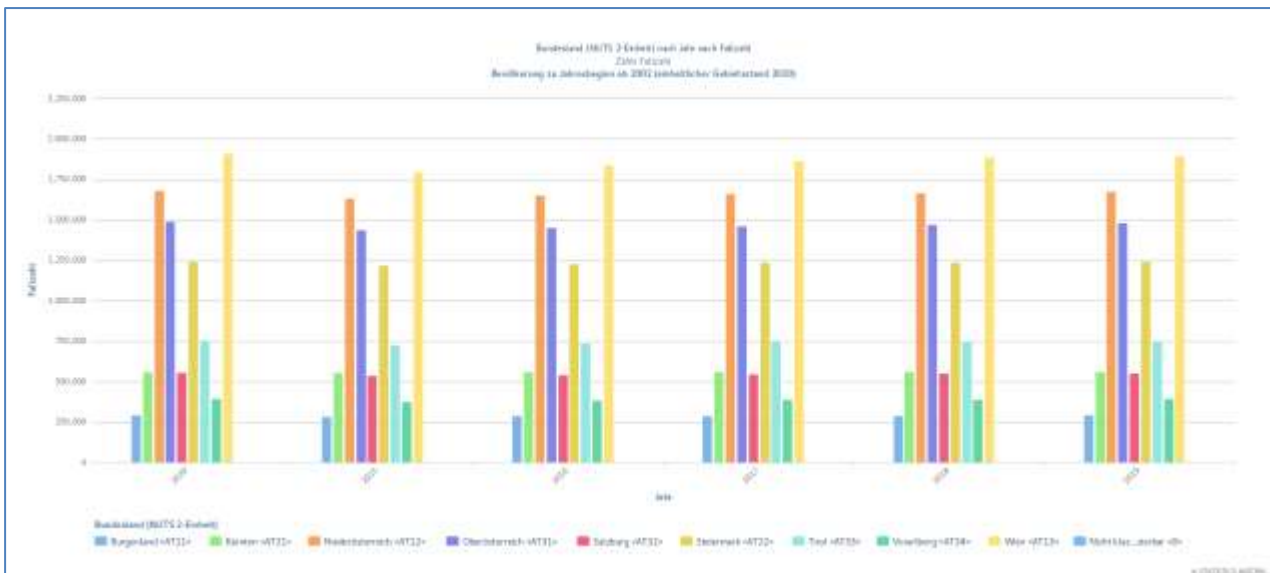
Table 20: NUTS 2 total population 2015 - 2019

NUTS 2 region	2015	2016	2017	2018	2019
Burgenland	289.262	291.663	292.160	292.966	293.861
Lower Austria	1.643.001	1.661.109	1.667.630	1.673.607	1.680.588
Vienna	1.814.225	1.853.140	1.877.719	1.892.150	1.903.240
Carinthia	558.612	561.099	560.852	560.787	561.062
Styria	1.225.187	1.235.582	1.238.067	1.241.228	1.244.474
Upper Austria	1.444.122	1.460.276	1.469.187	1.477.752	1.486.141
Salzburg	541.439	547.639	550.976	553.930	556.627
Tyrol	732.671	742.590	748.186	752.262	755.695
Vorarlberg	381.000	386.708	390.296	393.025	395.949
Total population	8.629.519	8.739.806	8.795.073	8.837.707	8.877.637

(Source: Statistics Austria)

This figure below also illustrates the evolution of the total population by NUTS 2 region, in the period 2015 – 2019.

Figure 22: Total population NUTS 2 2015 – 2019



Source: Statistics Austria

Conclusion on population

1900, close to 6 million people were living in Austria (within its present-day borders). In the 1950s the 7 million mark was reached. In 2000, Austria’s population has surpassed the 8 million mark. At the beginning of 2020, 8.9 million inhabitants were registered in Austria.

Austrian population is growing almost exclusively through immigration

95% of Austria’s total population growth between January 1st, 2010 and January 1st, 2020 (+549 421 people) can be attributed to net migration gains (+521 157).

Table 21: Population 2015 - 2020 in AT

Population by sex and major age groups at the beginning of the year						
Sex	2015	2016	2017	2018	2019	2020
Total	8 584 926	8 700 471	8 772 865	8 822 267	8 858 775	8 901 064
Males	4 200 397	4 272 553	4 312 441	4 338 518	4 357 033	4 378 772
Females	4 384 529	4 427 918	4 460 424	4 483 749	4 501 742	4 522 292
Age	in %					
0 to 14 years	14.3	14.3	14.4	14.4	14.4	14.4
15 to 64 years	67.3	67.2	67.1	66.9	66.7	66.6
65+ years	18.5	18.4	18.5	18.7	18.8	19.0

S: STATISTICS AUSTRIA, Population Statistics.

According to capitals of NUTS 2 region

The municipality with the largest population is Vienna, which had 1.9 million residents at the beginning of 2020. A fifth of Austria’s population lives in the federal capital. Next come the provincial capitals Graz/Styria (291 000 residents), Linz/Upper Austria (207 000 residents), Salzburg (155 000 residents), Innsbruck/Tyrol (132 000 residents) and Klagenfurt/Carinthia (101 000 residents).

According to the statistics below the total population shows an increase of 6,3% in Austria. The highest increase is shown by the federal state Vienna with 12,26% followed by Vorarlberg (7,53%), Tyrol (7,12%), Salzburg (5,8%), Upper Austria (5,69%), Lower Austria (4,67%), Burgenland (3,48%), while Carinthia noticed the lowest growth of population with 0,48% from 2011 up to 2020.

Table 22: Area and population 1981 - 2020

3.0 Area and population

province	area km ²	population ¹				
		1981	1991	2001	2011	2020
		1,000				
Burgenland	3,962	269.7	271.6	276.0	284.6	294.5
Carinthia	9,538	536.2	547.8	559.6	556.7	561.4
Lower Austria	19,186	1,426.4	1,471.6	1,539.4	1,609.5	1,684.6
Upper Austria	11,980	1,267.4	1,311.3	1,373.1	1,410.2	1,490.4
Salzburg	7,156	440.7	480.8	514.9	527.9	558.5
Styria	16,401	1,187.7	1,171.7	1,182.4	1,206.6	1,246.6
Tyrol	12,640	585.7	624.1	671.5	707.5	757.9
Vorarlberg	2,602	304.4	329.3	350.1	369.3	397.1
Vienna	414	1,535.1	1,502.8	1,554.0	1,702.9	1,911.7
AUSTRIA	83,879	7,553.3	7,710.9	8,020.9	8,375.2	8,902.6

¹ Population statistics; 2020: provisional data;
up to 2001: data based on population census results;
2002 onwards: results based on population register data
(data base POPREG of Statistics Austria)

source: STATISTICS AUSTRIA

(Source: WKO yearbook 2020)

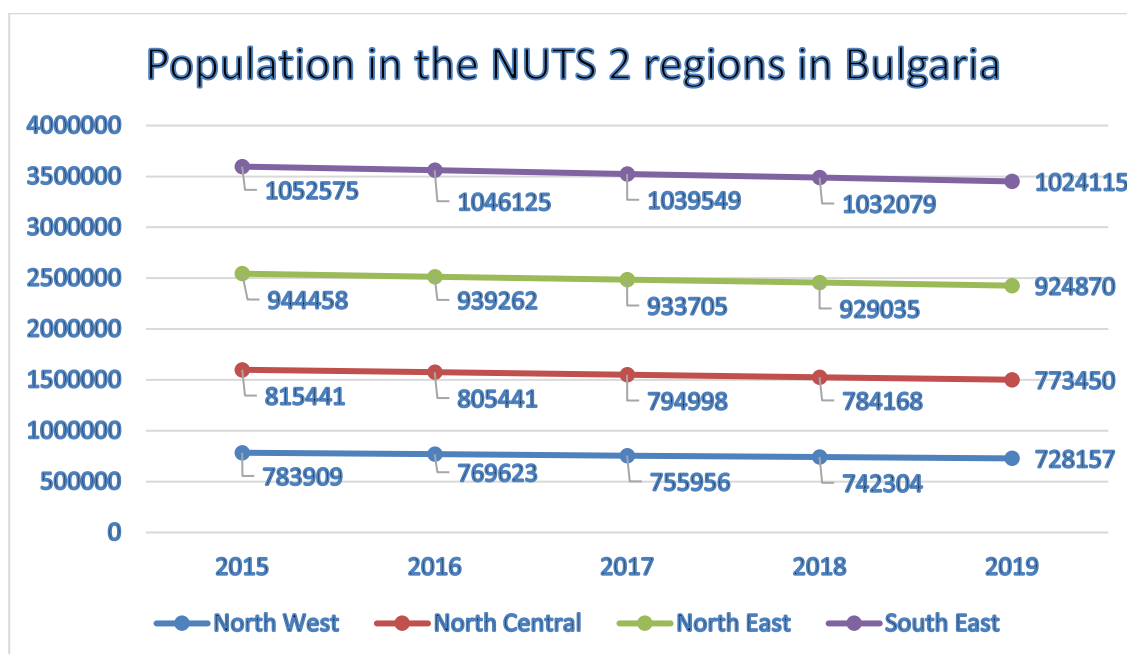
4.2.2 Bulgaria

The table below shows the population by region for the period 2015 – 2019.

Table 23: Population in the relevant NUTS 2 regions in Bulgaria

Region	Population
Severozapaden (North West region)	2019 – 728 157
	2018 – 742 304
	2017 – 755 956
	2016 – 769 623
	2015 – 783 909
Severen Tsentralen (North Central region)	2019 – 773 450
	2018 – 784 168
	2017 – 794 998
	2016 – 805 441
	2015 – 815 441
Severoiztochen (North East region)	2019 – 924 870
	2018 – 929 035
	2017 – 933 705
	2016 – 939 262
	2015 – 944 458
Yugoiztochen (South East region)	2019 – 1 024 115
	2018 – 1 032 079
	2017 – 1 039 549
	2016 – 1 046 125
	2015 – 1 052 575

Figure 23: Population in the NUTS 2 regions in Bulgaria



It is observed that the total population shows a decrease of a little less than 3% at the country level (average annual rate of decrease of 0.6%). The emerging trend regarding the population in the relevant NUTS 2 regions in Bulgaria is for a slow, but steady decline. There are multiple reasons, but the main one is the low economic prosperity and well-being of the population, which makes many people migrate to the more developed southern regions in Bulgaria or abroad.

4.2.3 Hungary

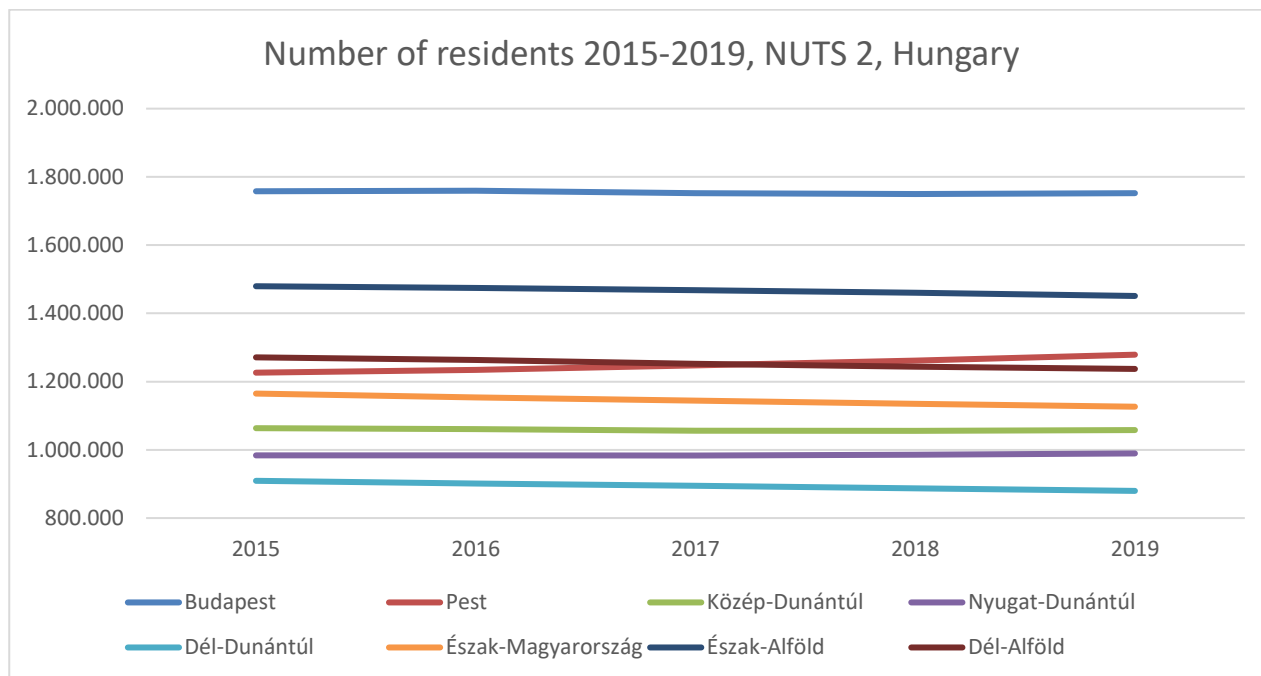
The table and graph below show the evolution of the resident population by NUTS2 region for the period 2015-2019.

Table 24: Evolution of the resident population by NUTS2 region for the period 2015-2019

Region – NUTS 2/year	2015	2016	2017	2018	2019
Budapest	1 757 618	1 759 407	1 752 704	1 749 734	1 752 286
Pest	1 226 115	1 234 541	1 247 372	1 261 864	1 278 874
Közép-Dunántúl	1 063 408	1 060 703	1 056 097	1 055 570	1 058 236
Nyugat-Dunántúl	983 925	983 933	983 251	985 457	989 343
Dél-Dunántúl	909 130	900 868	894 223	886 840	879 596
Észak-Magyarország	1 164 813	1 153 714	1 143 902	1 134 945	1 126 360
Észak-Alföld	1 479 522	1 474 383	1 468 088	1 460 096	1 450 960
Dél-Alföld	1 271 040	1 262 936	1 251 924	1 243 865	1 237 101
Total	9 855 571	9 830 485	9 797 561	9 778 371	9 772 756

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_wdsd003c.html

Figure 24: Number of residents 2015-2019, NUTS 2, Hungary



Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_wdsd003c.html

Conclusions on population

The evolution of the total population for the period 2015 – 2019 is shown below:

Table 25: Evolution of the total population for the period 2015 – 2019

Region – NUTS2	Growth 2019 - 2014
Budapest	-0,30%
Pest	4,30%
Közép-Dunántúl	-0,49%
Nyugat-Dunántúl	0,55%
Dél-Dunántúl	-3,25%
Észak-Magyarország	-3,30%
Észak-Alföld	-1,93%
Dél-Alföld	-2,67%
Total	-0,84%

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_wdsd003c.html

It is observed that the total population shows a decrease of 0.84% at the country level. The highest decrease is shown by the region Észak Magyarország with 3.30%, while for Pest region it is noticed a growth with 4.3% of the total population, due to the migration from other regions.

4.2.4 Romania

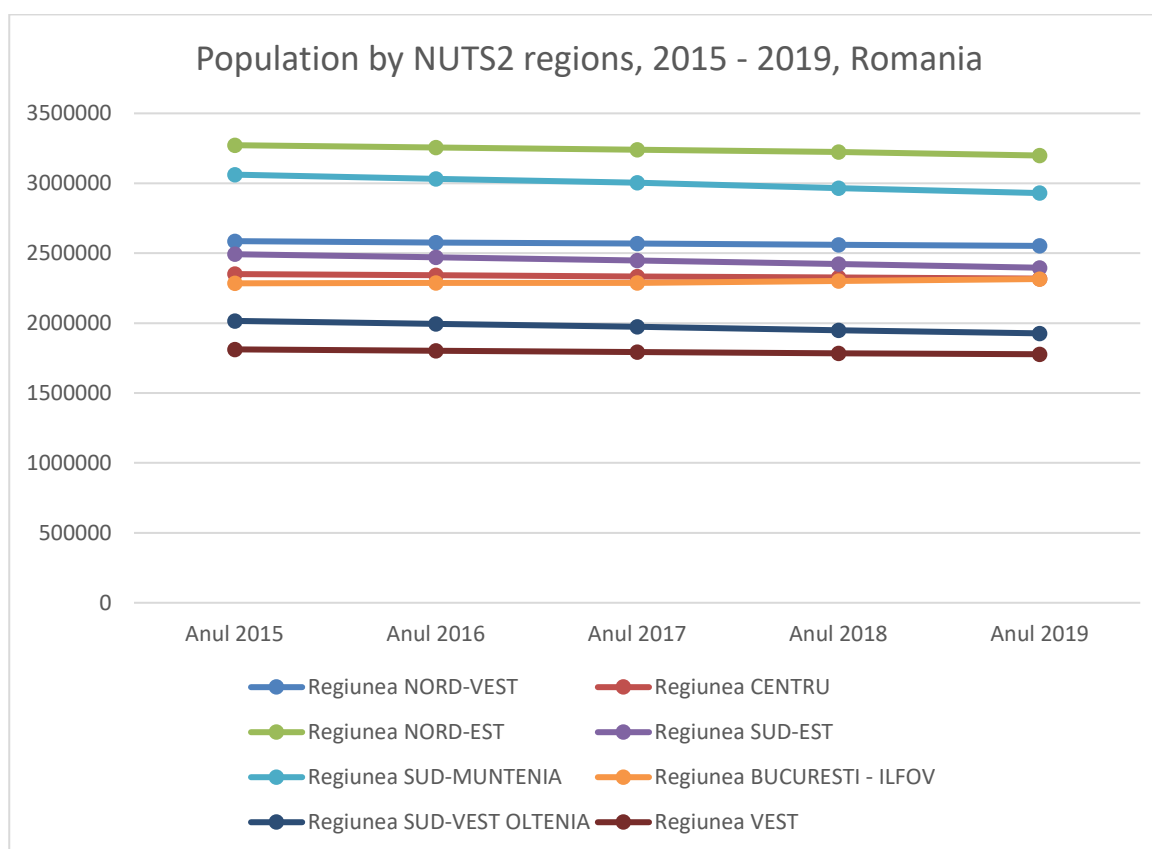
In the table below is shown the evolution of the total population for the period 2015 – 2019, by NUTS 2 region.

Table 26: Population by NUTS2 region for the period 2015 – 2019, Romania

NUTS 2 Region	2015	2016	2017	2018	2019
Regiunea NORD-VEST	2586034	2576567	2568392	2560504	2552112
Regiunea CENTRU	2350539	2341964	2332791	2325371	2318272
Regiunea NORD-EST	3272210	3256734	3239573	3222732	3198564
Regiunea SUD-EST	2492582	2469868	2447305	2423059	2396171
Regiunea SUD-MUNTENIA	3061759	3031555	3003333	2965415	2929832
Regiunea BUCURESTI - ILFOV	2284443	2288203	2287065	2302291	2315173
Regiunea SUD-VEST OLTENIA	2015792	1993482	1972940	1949813	1926860
Regiunea VEST	1812183	1802212	1792550	1784296	1777474
Total population	19875542	19760585	19643949	19533481	19414458

The figure below also illustrates the evolution of the total population by NUTS2 region, in the period 2015 – 2019.

Figure 25: Population by NUTS2 regions, 2015 - 2019, Romania



Conclusions on population

The evolution of the total population for the period 2015 – 2019 is shown below:

Table 27: Evolution of the total population for the period 2015 – 2019, Romania

Region – NUTS2	Growth 2019 - 2015
Regiunea NORD-VEST	-1.31%
Regiunea CENTRU	-1.37%
Regiunea NORD-EST	-2.25%
Regiunea SUD-EST	-3.87%
Regiunea SUD-MUNTENIA	-4.31%
Regiunea BUCURESTI - ILFOV	1.35%
Regiunea SUD-VEST OLTENIA	-4.41%
Regiunea VEST	-1.92%
Total	-2.32%

It is observed that the total population shows a decrease of 2.32% at the country level. The highest decrease is shown by the region Sus-Vest Oltenia with 4.41%, while for Bucharest-Ilfov region it is noticed a growth with 1.35% of the total population, due to the migration from other regions.

4.2.5 Serbia

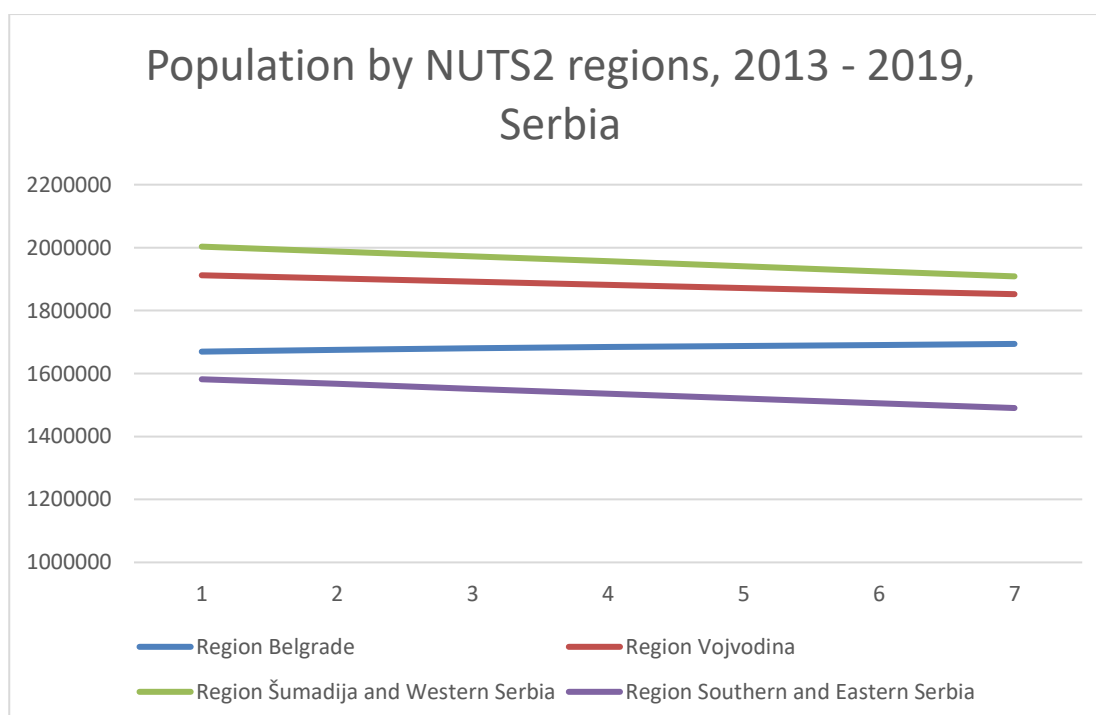
In the table below is shown the estimate of the evolution of the total population for the period 2013 – 2019, by NUTS 2 region in Serbia.

Table 28: Population by NUTS2 region for the period 2013 – 2019, Serbia

	2013	2014	2015	2016	2017	2018	2019
Region Belgrade	1 669 552	1 675 043	1 679 895	1 683 962	1 687 132	1 690 193	1 694 056
Region Vojvodina	1 912 095	1 901 935	1 891 701	1 881 357	1 871 515	1 861 863	1 852 093
Region Šumadija and Western Serbia	2 003 118	1 987 799	1 972 183	1 956 786	1 941 130	1 924 816	1 908 641
Region Southern and Eastern Serbia	1 581 787	1 567 010	1 551 604	1 536 217	1 521 081	1 505 732	1 490 445
Region Kosovo and Metohija⁵	–	–	–	–	–	–	–
Total population	7 166 552	7 131 787	7 095 383	7 058 322	7 020 858	6 982 604	6 945 235

The figure below also illustrates the evolution of the total population by NUTS2 region, in the period 2013 – 2019.

Figure 26: Population by NUTS2 regions, 2013 - 2019, Serbia



⁵ Statistical Office of the Republic of Serbia, since 1999, does not have data for the Autonomous Province of Kosovo and Metohija so that this is not included in the data coverage for the Republic of Serbia (total).

Conclusions on population

The evolution of the total population for the period 2013 – 2019 is shown below:

Table 29: Evolution of the total population for the period 2013 – 2019, Serbia

Region – NUTS2	Growth 2019 - 2013
Region Belgrade	1,47%
Region Vojvodina	-3,14%
Region Šumadija and Western Serbia	-4,72%
Region Southern and Eastern Serbia	-5,77%
Region Kosovo and Metohija ⁴	-
Total	-3.04%

It is observed that the total population shows a decrease of 3.04% at the country level. The highest decrease is shown by the Region Southern and Eastern Serbia with 5.77%, while for Region Belgrade it is noticed a growth with 1.47% of the total population, due to the migration from other regions.

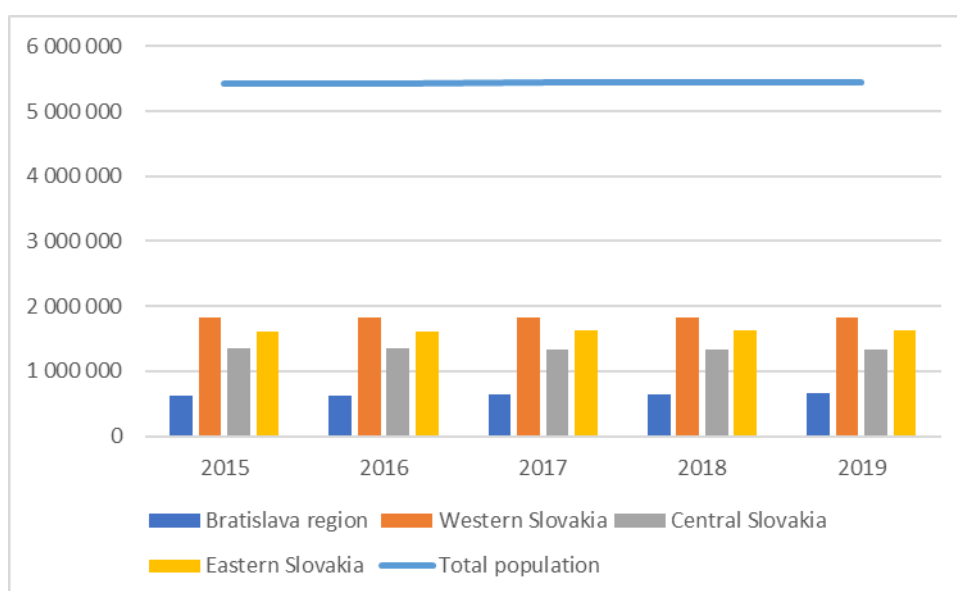
4.2.6 Slovakia

Population by NUTS2 regions between 2015-2018

Table 30: Population on 1 January 2015 - 2019 by NUTS 2 region - Slovakia

NUTS2	2015	2016	2017	2018	2019
Bratislava region	625 167	633 288	641 892	650 838	659 598
Western Slovakia	1 834 832	1 832 159	1 830 751	1 828 428	1 826 145
Central Slovakia	1 345 808	1 343 458	1 342 287	1 340 811	1 339 242
Eastern Slovakia	1 615 542	1 617 347	1 620 413	1 623 043	1 625 436
Total	5 421 349	5 426 252	5 435 343	5 443 120	5 450 421

Figure 27: Population on 1 January 2015-2019 by NUTS 2 region Slovakia



Conclusions on population

NUTS2	Difference 2015-2019
Bratislava region	5,51%
Western Slovakia	-0,47%
Central Slovakia	-0,49%
Eastern Slovakia	0,61%
Total	0,54%

The long-term decline in the birth rate and the unsatisfactory development of mortality in the Slovak Republic resulted in a gradual decrease in the natural increase of the population to the extent that in 2001 - 2003 there was a decrease in population from natural movement, t. j. the number of live births was lower than the number of deaths. However, thanks to a positive migration balance, there was no overall decrease in population even in the mentioned years. Since 2004, the natural increase of the population has reached positive values with a maximum in 2011 (8,910 persons); the lowest value was reached in 2007 (568 persons). In 2018, the natural population growth reached 3,346 people.

Total population of Slovakia grew from 2015 to 2019 by 0,54%, the highest growth is noticed for Bratislava, the capital city. This is caused by migration from other less developed regions. Principal reason is the employment situation.

4.3 GDP per capita

4.3.1 Austria

According to latest estimates by Statistics Austria the Austrian economy expanded by 1.4% in 2019. Hence, the growth rate is slightly below the preliminary estimates, which, however, had already indicated a slowdown in growth dynamics (2017: +2.4%; 2018: +2.6%). With regard to the information so far available, real GDP growth was 1.5% in the European Union, and, thus, similar to the Austrian growth rate. The economic growth for Germany (+0.6%) and Italy (+0.3%), Austria's most important trading partners in the EU, was clearly lacking behind (Eurostat Database, September 2020).

Austrian GDP at current prices amounted to approximately 397.6 bn euros (+3.2%) in 2019 and GDP per inhabitant equalled 44 780 euros.

The economic growth of both the producing sector and the service sector was 1.4% in real terms. Water supply and waste management achieved the most significant growth rate within the producing sector (+5.4%); however, its share in total value added is rather small. Growth in construction (+2.7% in real terms) and in energy supply (+2.5% in real terms) was significantly above average, too. Manufacturing, which predominantly shaped the producing sector in the last years, showed a slowdown in growth (+0.7% in real terms).

Within the service sector the highest growth rates were observed for information and communication services (+3.7% in real terms), followed by scientific activities and administrative services (+2.1% in real terms) and restaurant and accommodation services (+2.1% in real terms). On the other hand, gross value added from services mainly provided by the government (public administration, education and health services) increased by only 0.6% in real terms.

On the expenditure side, gross fixed capital formation was the predominant category of domestic demand (4.0% in real terms), thereby showing the most significant increase for transport equipment (+7.9 % in real terms). The increase in consumption expenditure was 1.0% in real terms, and, thus was similar to the growth in the previous year (2018: 1.1% in real terms), showing a stronger growth for government consumption expenditure (1.5% in real terms) than for household consumption expenditure (0.8% in real terms).

Growth in exports of goods and services (+2.9% in real terms) was significantly less than in the previous years (2017: +4.9%; 2018: +5.4%). The balance of trade in goods once more had a positive sign. However, the overall surplus in the external balance (+13.4 bn euros) was mainly based on trade in services (+10.4 bn euros).

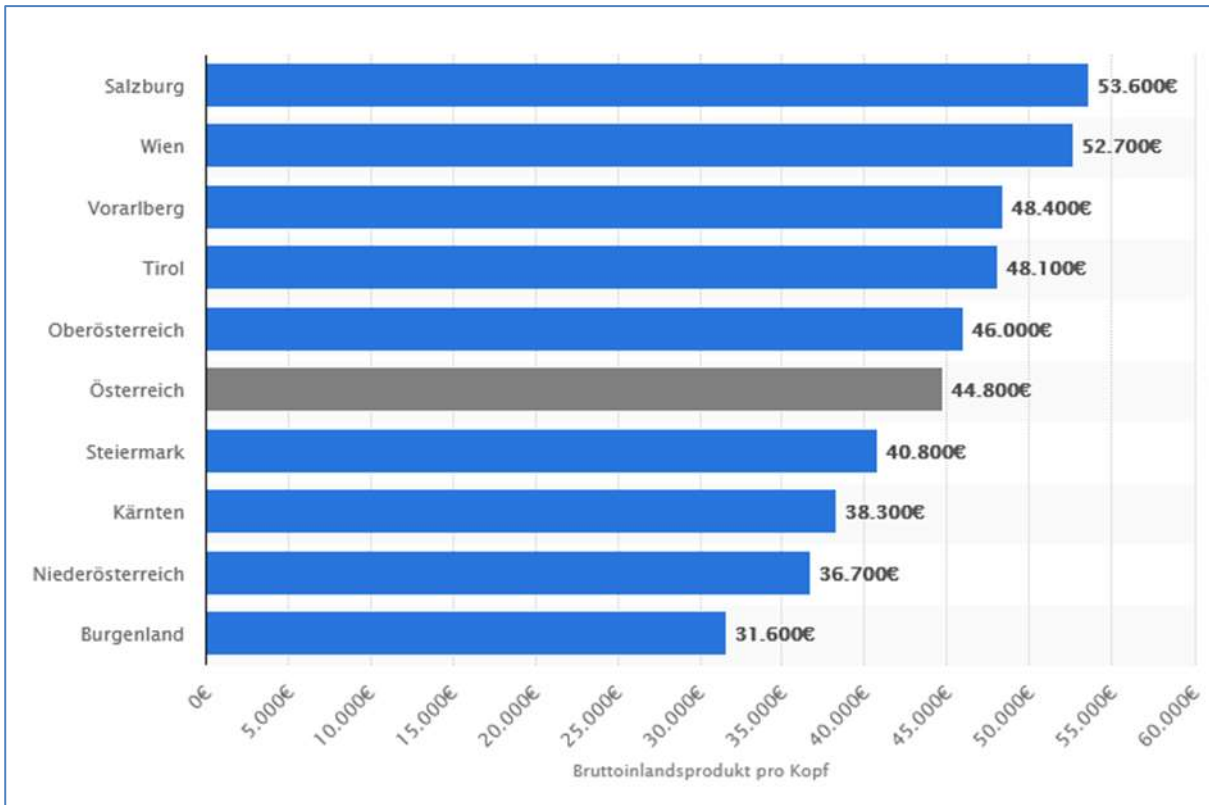
Employment expressed in full-time equivalents increased by 1.5%. The number of jobs rose by 1.3%, reaching an all-time high of more than 4.8 million. At the same time the average hours worked per job increased by 0.4%, thus leading to an increase of 1.7% in the volume of total hours worked compared to the previous year. Finally, the trend in employment resulted in a slight decrease in labour productivity per hour worked (-0,2%).

Compensation of employees (i.e. the total remuneration, in cash or in kind, payable by an employer to an employee) grew by 4.2% at current prices in 2019. Along with the growth of GDP at current prices by 3.2% and according to the logic of functional income distribution, the increase of gross operating surplus and mixed income was 1.8%. Real net disposable income of the total economy grew by 2.8%.

The implicit price index of GDP (derived from the GDP at current prices and at constant prices respectively, based on previous year's prices) was 101.7. Hence, the overall price development was somewhat stronger the change of the consumer prices index (+1.5%).

Gross domestic product (GDP) per capita in Austria by federal state in 2019 is shown in the figure below.

Figure 28: Gross domestic product (GDP) per capita in Austria by federal state in 2019



(Source: Statista BIP pro Kopf in Österreich nach Bundesländer)

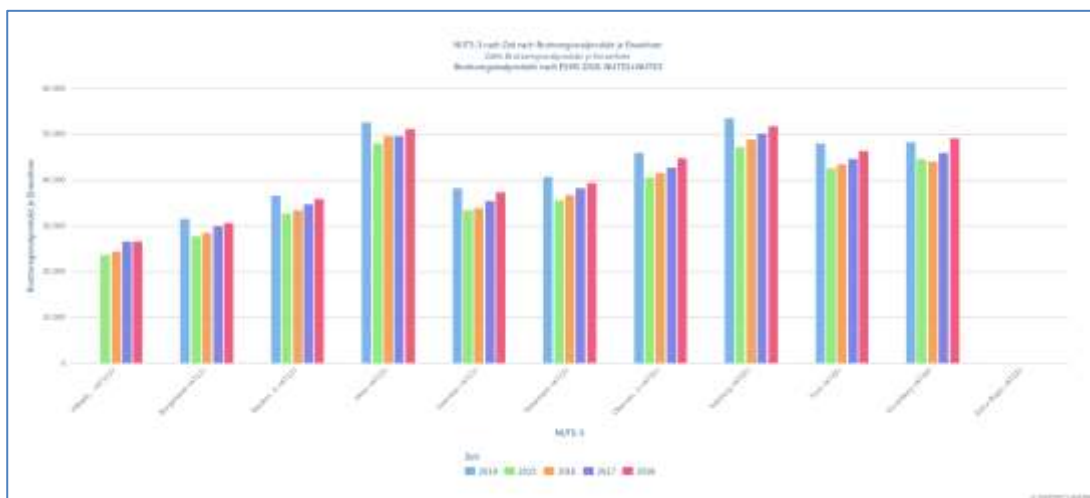
GRP – Gross Domestic Product

Table 31: GRP 2015 - 2019 in AT

Gross Regional Product ¹⁾ , absolute and per capita ²⁾ by Länder ³⁾ , current prices						
NUTS-Code	Region	2015	2016	2017	2018	2019 ⁴⁾
Absolute, in million €						
AT	AUSTRIA	344.269	357.608	369.341	385.362	397.575
AT11	Burgenland	8.041	8.351	8.753	8.981	9.273
AT12	Lower Austria	53.885	55.570	58.028	60.115	61.706
AT13	Vienna	87.285	91.943	93.160	97.058	100.348
AT21	Carinthia	18.718	19.094	19.912	20.963	21.506
AT22	Styria	43.722	45.543	47.429	48.847	50.831
AT31	Upper Austria	58.651	60.754	62.883	66.166	68.380
AT32	Salzburg	25.604	26.806	27.665	28.773	29.852
AT33	Tyrol	31.194	32.356	33.412	34.982	36.383
AT33	Vorarlberg	17.040	17.060	17.970	19.342	19.162
ATZZ	Extra-Regio ⁵⁾	131	130	130	134	135
Per capita, in €						
AT	AUSTRIA	39.900	40.900	42.000	43.600	44.800
AT11	Burgenland	27.800	28.600	30.000	30.700	31.600
AT12	Lower Austria	32.800	33.500	34.800	35.900	36.700
AT13	Vienna	48.100	49.600	49.600	51.300	52.700
AT21	Carinthia	33.500	34.000	35.500	37.400	38.300
AT22	Styria	35.700	36.900	38.300	39.400	40.800
AT31	Upper Austria	40.600	41.600	42.800	44.800	46.000
AT32	Salzburg	47.300	48.900	50.200	51.900	53.600
AT33	Tyrol	42.600	43.600	44.700	46.500	48.100
AT33	Vorarlberg	44.700	44.100	46.000	49.200	48.400
ATZZ	Extra-Regio ⁵⁾

GDP/capita for the 2015 – 2019, by NUTS 2 region, is shown below.

Figure 29: GDP/capita, 2015 – 2019, NUTS 2 Austria



(Source: Statistics Austria)

4.3.2 Hungary

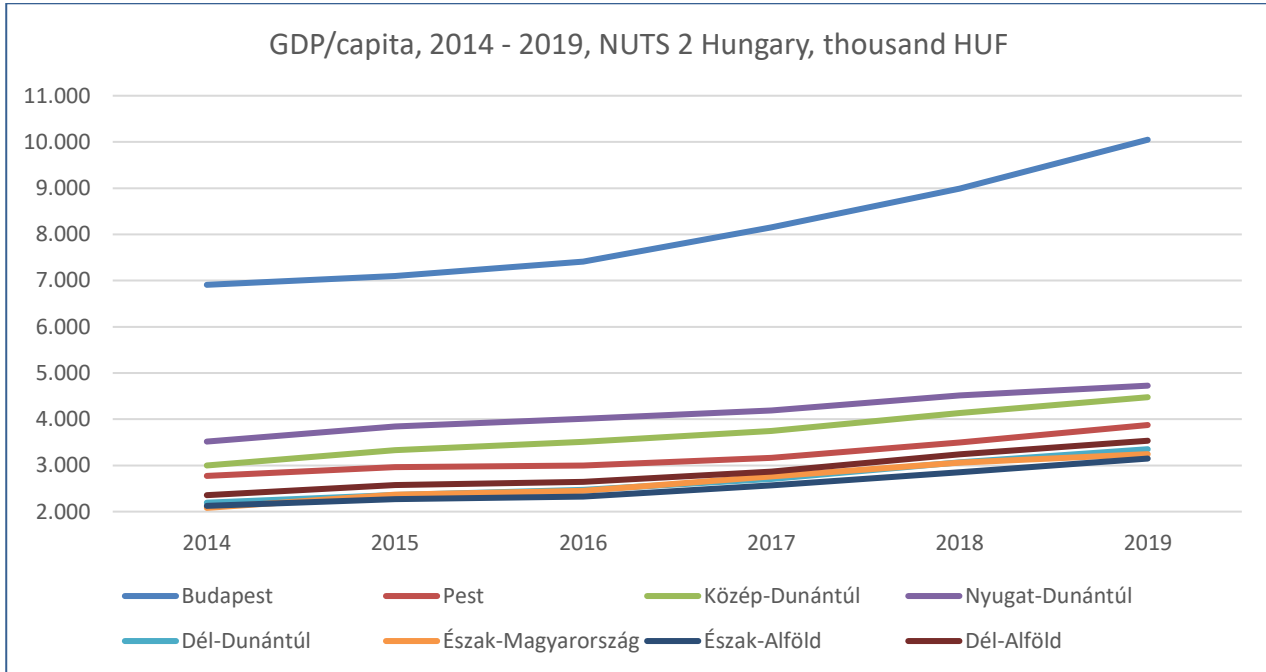
The amount of GDP per capita is shown in the table and graph below.

Table 32: GDP/capita 2014 – 2019, NUTS2 regions, Hungary

Region – NUTS 2/year	2014	2015	2016	2017	2018	2019
Budapest	6 908	7 100	7 412	8 155	8 993	10 048
Pest	2 773	2 961	2 995	3 166	3 496	3 874
Közép-Dunántúl	2 999	3 329	3 508	3 747	4 134	4 476
Nyugat-Dunántúl	3 516	3 845	4 008	4 191	4 512	4 726
Dél-Dunántúl	2 194	2 359	2 469	2 709	3 066	3 351
Észak-Magyarország	2 081	2 369	2 450	2 764	3 060	3 244
Észak-Alföld	2 125	2 267	2 327	2 566	2 852	3 148
Dél-Alföld	2 356	2 573	2 645	2 867	3 237	3 534
Average	3 319	3 549	3 685	4 008	4 434	4 863

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt014b.html

Figure 30: GDP/capita, 2014 - 2019, NUTS 2 Hungary, thousand HUF



Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt014b.html

The highest GDP / capita value can be observed in the Budapest region.

Conclusions on GDP per capita

The GDP per capita growth for the period 2014 – 2019 is shown below:

Table 33: GDP/capita growth 2014 – 2019, NUTS2 regions, Hungary

Region - NUTS2	Growth 2019 - 2014
Budapest	45,45%
Pest	39,70%
Közép-Dunántúl	49,25%
Nyugat-Dunántúl	34,41%
Dél-Dunántúl	52,73%
Észak-Magyarország	55,89%
Észak-Alföld	48,14%
Dél-Alföld	50,00%
Average	46,52%

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt014b.html

The average GDP per capita growth for the period 2014 – 2019 is 46.52% at the country level. The highest GDP growth is shown by the region Észak-Magyarország with 55.89%, while the lowest growth is shown by the region Nyugat-Dunántúl with 34,41%.

4.3.3 Romania

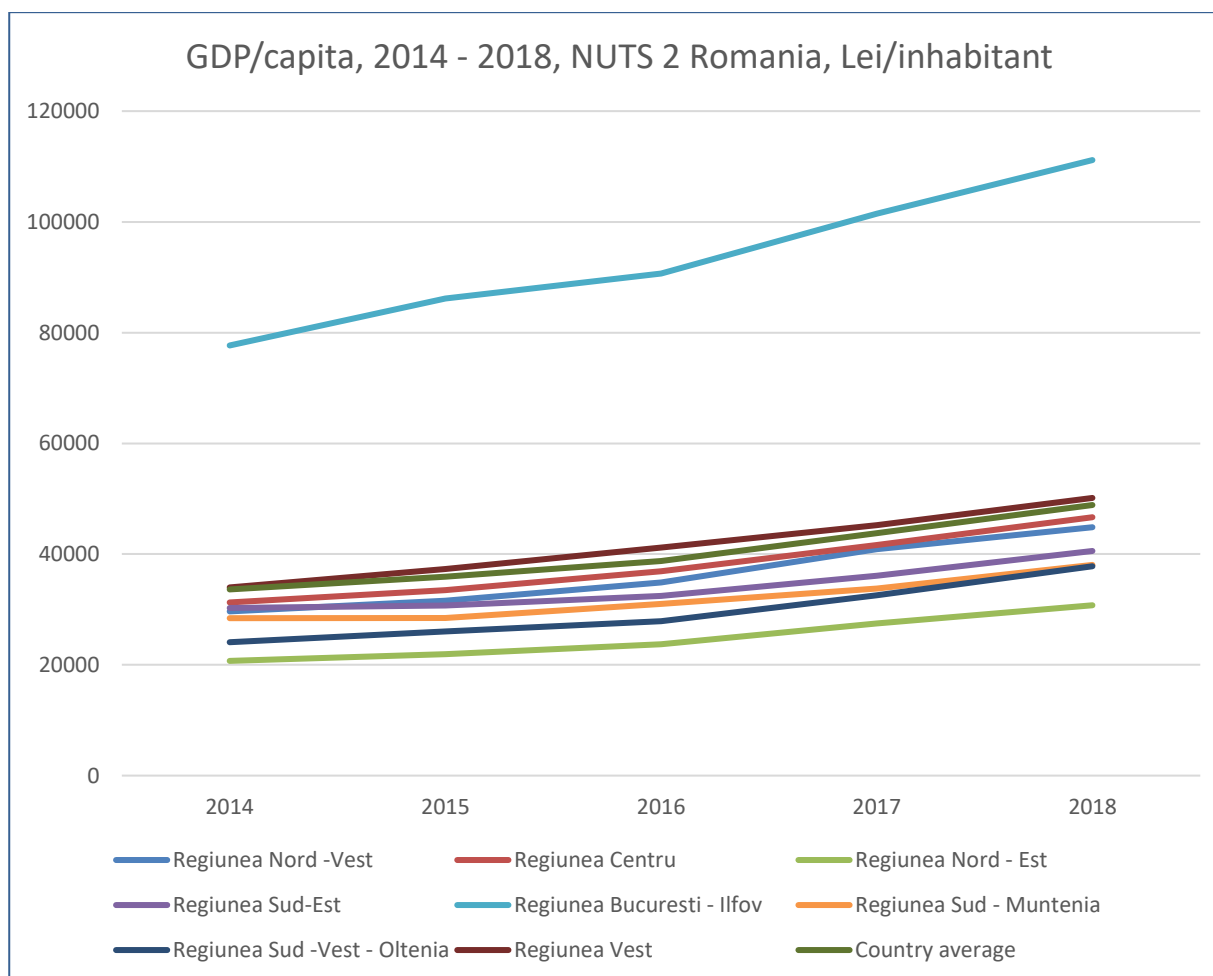
GDP per capita for the period 2014 – 2018 is shown in the table below.

Table 34: GDP/capita for the period 2014 – 2018, NUTS2 regions, Romania

	2014	2015	2016	2017	2018
Regiunea Nord -Vest	29653	31566	34867	40876	44854
Regiunea Centru	31271	33497	36908	41630	46659
Regiunea Nord - Est	20718	21922	23698	27492	30763
Regiunea Sud-Est	30276	30725	32460	36093	40568
Regiunea Bucuresti - Ilfov	77679	86154	90651	101479	111160
Regiunea Sud - Muntenia	28430	28460	31012	33807	38050
Regiunea Sud -Vest - Oltenia	24091	26041	27877	32585	37805
Regiunea Vest	33985	37334	41169	45223	50144
Country average	33626	35916	38751	43786	48865

The evolution of the GDP/capita by NUTS2 region is also shown in the figure below.

Figure 31: GDP/capita, 2014 - 2018, NUTS 2 Romania, Lei/inhabitant



The highest GDP/capita is observed for Bucharest – Ilfov region, this being almost double compared to all other regions. For this region it is also observed the highest growth in the period 2014 – 2018.

Conclusions on GDP per capita

The GDP per capita growth for the period 2014 – 2018 is shown below:

Table 35: GDP/capita growth for the period 2014 – 2018, NUTS2 regions, Romania

Region – NUTS2	Growth 2018 - 2014
Regiunea NORD-VEST	51.26%
Regiunea CENTRU	49.21%
Regiunea NORD-EST	48.48%
Regiunea SUD-EST	33.99%
Regiunea SUD-MUNTENIA	43.10%
Regiunea BUCURESTI - ILFOV	33.84%
Regiunea SUD-VEST OLTENIA	56.93%
Regiunea VEST	47.55%
Total	45.32%

The average GDP per capita growth for the period 2014 – 2018 is 45.32% at the country level. The highest GDP growth is shown by the region Sud-Vest Oltenia with 56.93%, while the lowest growth is shown by the region Sud-Est with 33.99%.

4.3.4 Serbia

GDP per capita by NUTS2 regions in Serbia, in thousands RSD, for the period 2013 – 2019 is shown in the table below.

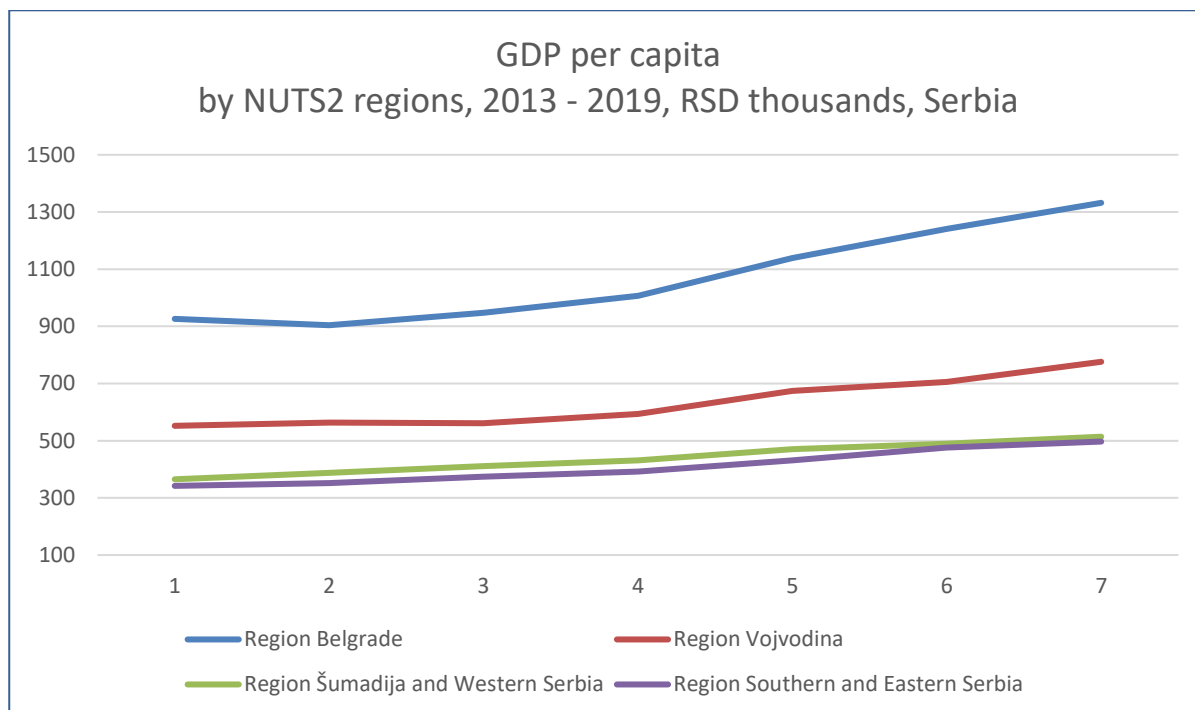
Table 36: GDP per capita by NUTS2 regions in Serbia, in thousands RSD, for the period 2013 – 2019

	2013	2014	2015	2016	2017	2018	2019
Region Belgrade	926	904	947	1007	1139	1241	1332
Region Vojvodina	552	563	561	594	674	706	776
Region Šumadija and Western Serbia	365	387	411	431	470	489	514
Region Southern and Eastern Serbia	342	352	374	392	431	476	497
Region Kosovo and Metohija⁶	926	904	947	1007	1139	1241	1332
Country average	541	548	570	604	677	727	780

The evolution of the GDP/capita by NUTS2 region in Serbia is also shown in the figure below.

⁶ Statistical Office of the Republic of Serbia, since 1999, does not have data for the Autonomous Province of Kosovo and Metohija so that this is not included in the data coverage for the Republic of Serbia (total).

Figure 32: GDP per capita by NUTS2 regions, 2013 - 2019, RSD thousands, Serbia



Region Belgrade, with GDP per capita amounting to RSD 1 332 000 (EUR 11 307), notable is by 70.8% higher compared to the national average. The GDP per capita level index for Region Vojvodina is 99.4% (RSD 776 000/EUR 6 585), it is approx. by 2.3% lower compared to 2018. The GDP per capita level index for Region Šumadija and Western Serbia equals 65.8% (RSD 514 000/EUR 4 361). For Region Southern and Eastern Serbia the level index is 63.8% (RSD 497 000/EUR 4 217).

Conclusions on GDP per capita

The GDP per capita growth for the period 2013 – 2019 is shown below:

Table 37: GDP per capita growth by NUTS2 regions in Serbia, for the period 2013 – 2019

Region - NUTS2	Growth 2019 - 2013
Region Belgrade	43.84%
Region Vojvodina	40.58%
Region Šumadija and Western Serbia	40.82%
Region Southern and Eastern Serbia	45.32%
Region Kosovo and Metohija ⁷	-
Total	42.64%

⁷ Statistical Office of the Republic of Serbia, since 1999, does not have data for the Autonomous Province of Kosovo and Metohija so that this is not included in the data coverage for the Republic of Serbia (total).

The average GDP per capita growth for the period 2013 – 2019 is 42.64% at the country level. The highest GDP growth is shown by Region Southern and Eastern Serbia with 45.32%, while the lowest growth is shown by the Region Vojvodina with 40.58%.

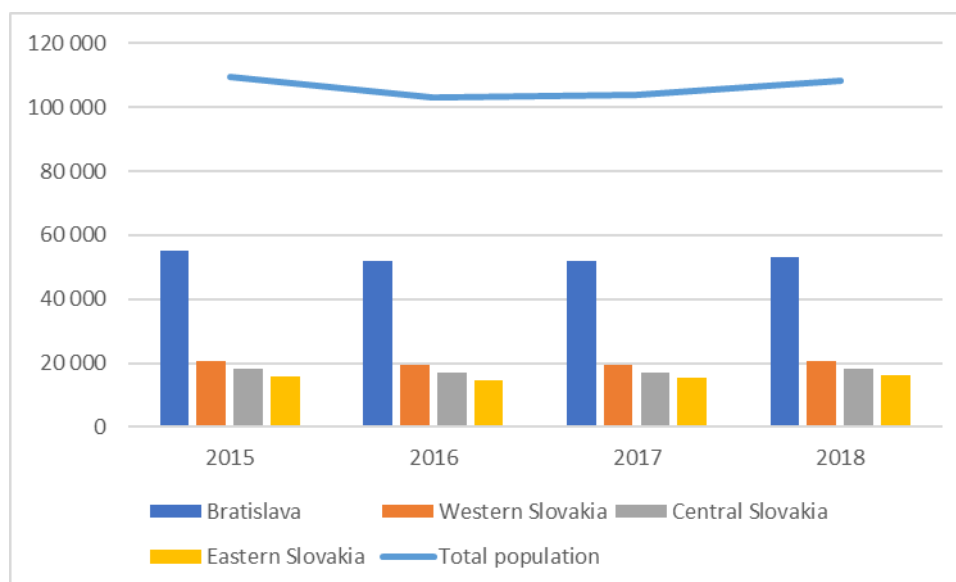
4.3.5 Slovakia

GDP per capita by NUTS 2 regions between 2015-2018

Table 38: Regional gross domestic product (PPS per capita) by NUTS 2 regions - Slovakia

NUTS2	2015	2016	2017	2018
Bratislava	55 300	52 100	52 000	53 300
Western Slovakia	20 500	19 400	19 500	20 600
Central Slovakia	18 000	16 800	17 100	18 000
Eastern Slovakia	15 800	14 700	15 300	16 300
Total population	109 600	103 000	103 900	108 200

Figure 33: Regional gross domestic product (PPS per capita) by NUTS 2 regions Slovakia



Conclusions on GDP/capita

Gross Domestic Product Per capita

NUTS2	Difference 2015-2018
Bratislava region	-3,62%
Western Slovakia	0,49%
Central Slovakia	0,00%
Eastern Slovakia	3,16%
Total	-1,28%

GPD per capita noticed slight decrease by 1,28% between 2015 and 2018. This is directly related to population statistics. Most noticeable decrease is observed in Bratislava where population increased more rapidly than overall GDP for the region.

4.4 GVA – Gross Value Added

4.4.1 Austria

Austria's economy grew by 1.4% in 2019

According to the latest calculations by Statistics Austria, the Austrian economy grew by 1.4% in real terms in 2019. This means a slowdown in the dynamics of recent years (2017: + 2.4%; 2018: + 2.6%). The result is also slightly below the provisional estimates, which were based on a less broad database. In 2019, Austrian economic growth was around the average of the EU28 (+ 1.5%), but significantly exceeded the growth rates of its most important EU trading partners Germany (+ 0.6%) and Italy (+ 0.3%) (Sources: Eurostat database, September 2020).

The Austrian gross domestic product at current prices was around 397.6 billion euros (+ 3.2%) in 2019, which corresponds to a value of 44,780 euros per inhabitant.

After real growth in the manufacturing sector in previous years significantly exceeded that in the service sector, both sectors grew by 1.4% in real terms in 2019, with the individual sectors developing very differently. In the manufacturing sector, strong growth was observed in construction (+ 2.7% in real terms) and in energy supply (+ 2.5% in real terms). The strongest growth with real + 5.4% was recorded by water and waste management, although their contribution to total value added is small. The momentum in the production of goods has slowed significantly (+ 0.7% in real terms; after + 3.7% in 2017 and + 5.3% in 2018).

In the service sector, information and communication services (+ 3.7% in real terms), finance and insurance (+ 3.0% in real terms) as well as business-related services and accommodation and catering (both + 2.1% in real terms) recorded an above-average plus. The most important service industry for Austria's economy - trade - grew significantly weaker in real terms by 0.6% in 2019. The value added from government-related services (public administration, education and training and health and social services) also developed at a slower pace, with real growth of + 0.6%.

On the usage side, gross investments in the broader sense developed rather subdued with a real plus of 0.8%, but this is due to a lower inventory build-up compared to the previous year and a sharp decline in the demand for valuables.

By contrast, the demand for capital goods recorded a significant real increase of 4.0% in 2019, to which all investment categories contributed. Vehicle investments grew most strongly with a real plus of 7.9%, followed by construction investments and investments in intangible goods (software, research and development) with + 3.6% each. But there was also a marked increase in machine investments (+ 3.3% in real terms).

In contrast, there was only moderate growth in consumer spending (+ 1.0% in real terms). Consumer spending by private households rose by 0.8% in real terms, with accommodation and catering services increasing significantly by + 2.7% in real terms, while the demand for goods and services in transport fell by 0.7%, among the largest consumption items mainly due to significantly lower spending on vehicles (-5.1% in real terms). State consumption expenditure grew by 1.5% in real terms, which was mainly due to the increase in expenditure on individual consumption (mainly health and education expenditure) of 2.2% in real terms.

The lower dynamism in the production of goods is also reflected in the export demand, the real increase of which, at 2.9%, was only about half as strong as in the previous year (+ 5.5%). In contrast, there was a real plus of 2.4% in imports in 2019.

The external contribution at current prices amounted to around € 13.4 billion in the 2019 reporting year. More than three quarters of this comes from the strongly positive balance of services (EUR 10.4 billion), to which in turn the travel surplus made a major contribution (EUR 8.7 billion).

The employment of all employed and self-employed people in Austria rose in 2019 by 1.3% or around 61,000 jobs to a high of just over 4.8 million jobs. Employment in full-time equivalents increased by 1.5%.

At the same time, the average hours worked per employment relationship rose by 0.4%. Compared to the previous year, the work volume increased by 1.7% (= total number of hours worked). This development in the labor force meant a slight decrease in productivity per hour worked by 0.2% in 2018.

Nominal compensation (the sum of all cash and non-cash benefits from employers to employees) increased by 4.2% in 2019. With a nominal GDP growth of 3.2% and an increase in net taxes on production by 3.5%, this results in an increase of 1.8% for gross operating surplus and self-employed income. The real net disposable income of the economy as a whole rose by 2.8%.

The "GDP deflator" (implicit price index, calculated from nominal and real gross domestic product based on the previous year's price) rose by 1.7%. The development of macroeconomic domestic inflation was thus somewhat stronger than the rate of change in the consumer price index (+ 1.5%).

(Source: https://www.statistik.at/web_de/statistiken/wirtschaft/volkswirtschaftliche_gesamtrechnungen/bruttoinlandsprodukt_und_hauptaggregate/jahresdaten/index.html)

Figure 34: Fraction of gross value added

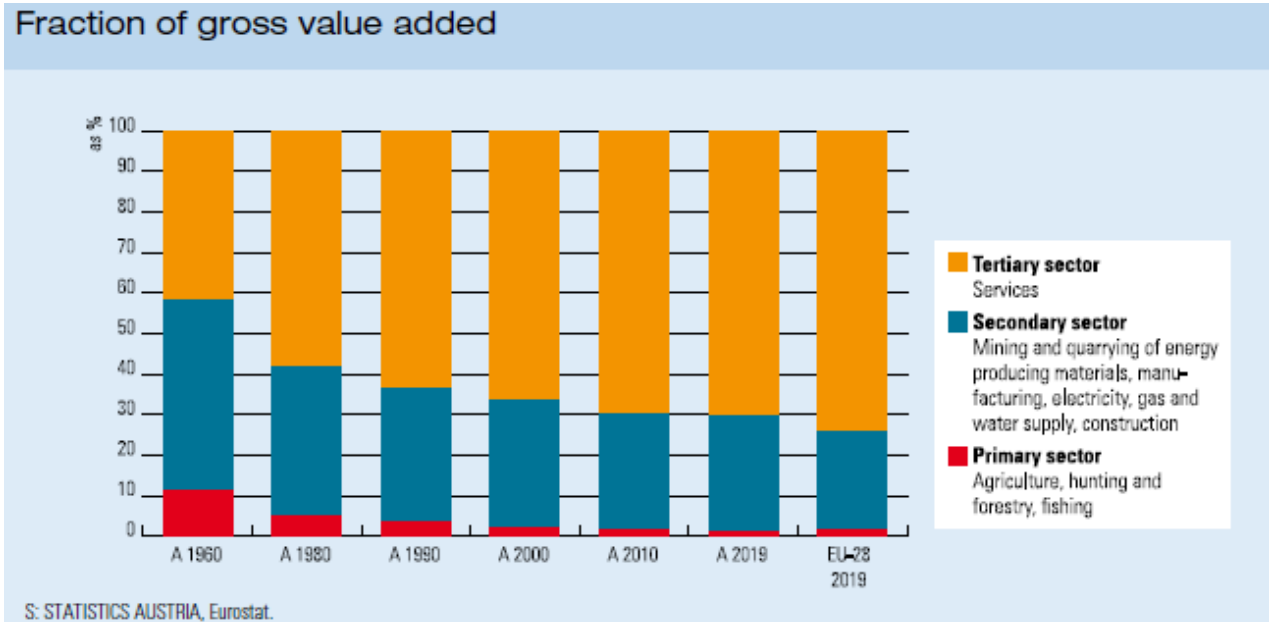


Figure 35: Employed by economic sectors

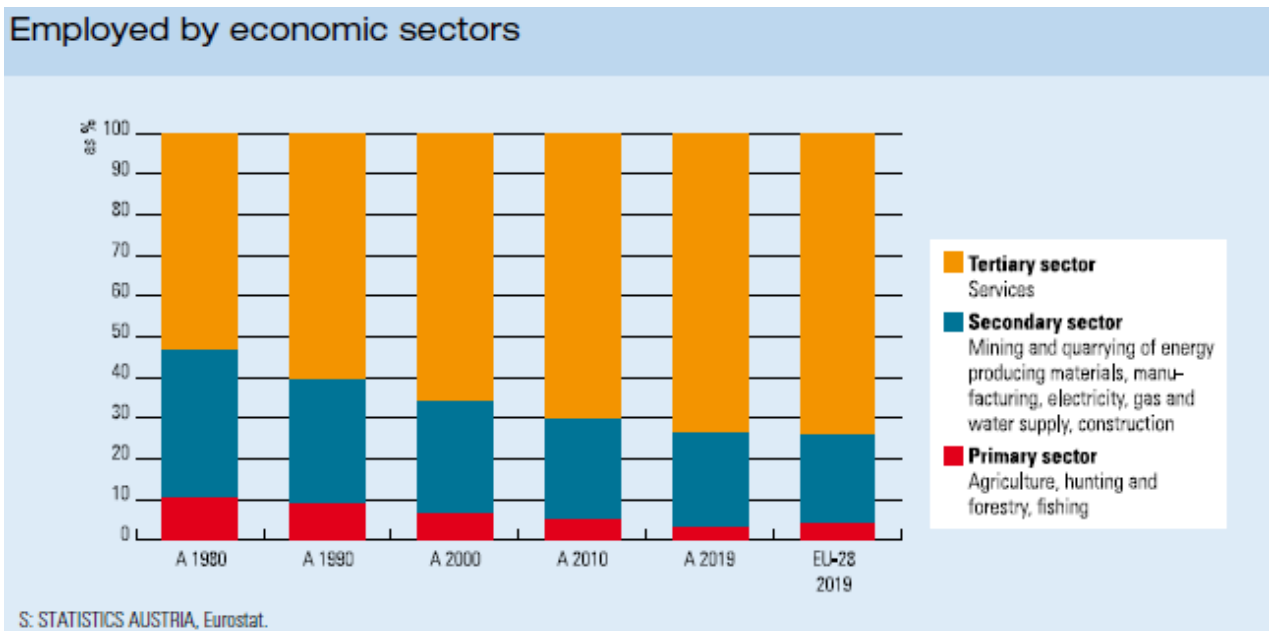


Table 39: Farm structure, land use and livestock farming, Austria

Farm structure, land use and livestock farming			
Farm structure	1999	2010	2016
Number of agricultural and forestry holdings	217 508	173 317	162 018
of which: full-time holdings	80 215	66 802	57 531
Average area per holding in hectares	34.9	42.6	45.0
Labour force in agriculture and forestry	575 091	413 755	404 734
Agricultural land use in 1 000 hectares	3 390	2 880	2 671
of which: arable land/permanent grassland	1 395/1 917	1 371/1 441	1 344/1 259
Forestry land use in 1 000 hectares	3 260	3 406	3 408
Livestock farming holders/heads in 1 000			
Cattle and calves	101/2 151	72/2 024	60/1 933
of which: dairy cows	78/697	48/540	32/562
Pigs	83/3 426	38/3 247	26/2 884
Sheep and lambs	18/340	15/398	14/400
Goats	12/51	10/81	9/92
Poultry	81/13 654	55/13 919	54/16 745

S: STATISTICS AUSTRIA, Farm Structure Survey (FSS). Full census in 1999, 2010 and a sample survey in 2016.

Figure 36: agriculture 2016

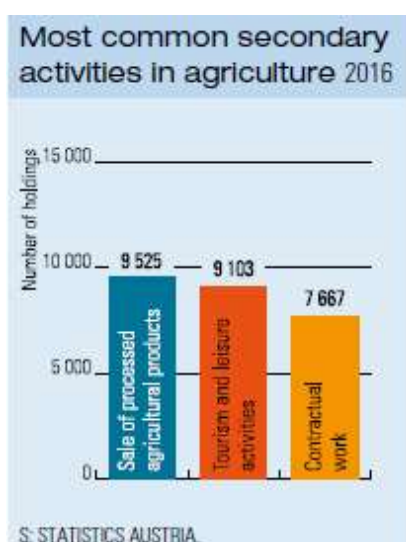


Figure 37: farming areas 2018

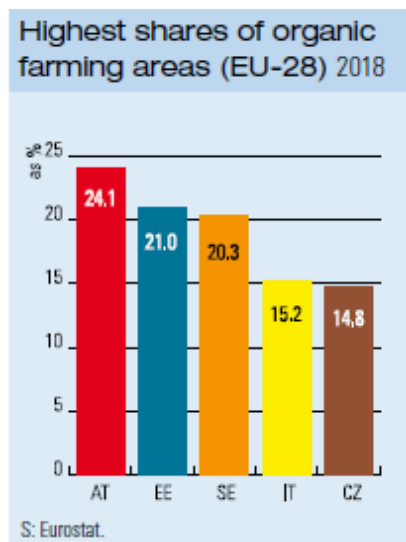


Figure 38: average farm size

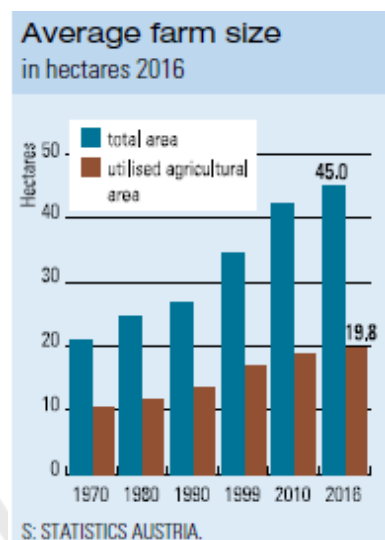


Table 40: Selected indicators for industry and construction 2018, Austria

Selected indicators for industries and construction 2018						
Sections (Based on ÖNACE 2008)	Enterprises	Total persons employed (annual average)	Turnover in billion €	Value added at factor cost in billion €	Persons employed per enterprise	Value added at factor costs in € per person employed
B-F Industries and Construction	67 842	1 022 214	311.2	85.8	15	83 900
B-E Industries¹	30 700	713 066	259.4	67.3	23	94 332
B Mining and Quarrying	335	6 316	2.4	1.0	19	161 029
C Manufacturing	25 637	655 875	205.0	56.3	26	89 126
D Electricity, Gas, Steam and Air Conditioning	2 508	29 032	45.8	5.8	12	192 170
E Water Supply; Sewerage, Waste Management and Remediation Activities	2 220	21 843	6.2	2.1	10	101 328
F Construction	37 142	309 148	51.9	17.6	8	59 836

S: STATISTICS AUSTRIA, Structural Business Statistics 2018.

Figure 39: Development of production index and index of persons employed in industries and construction

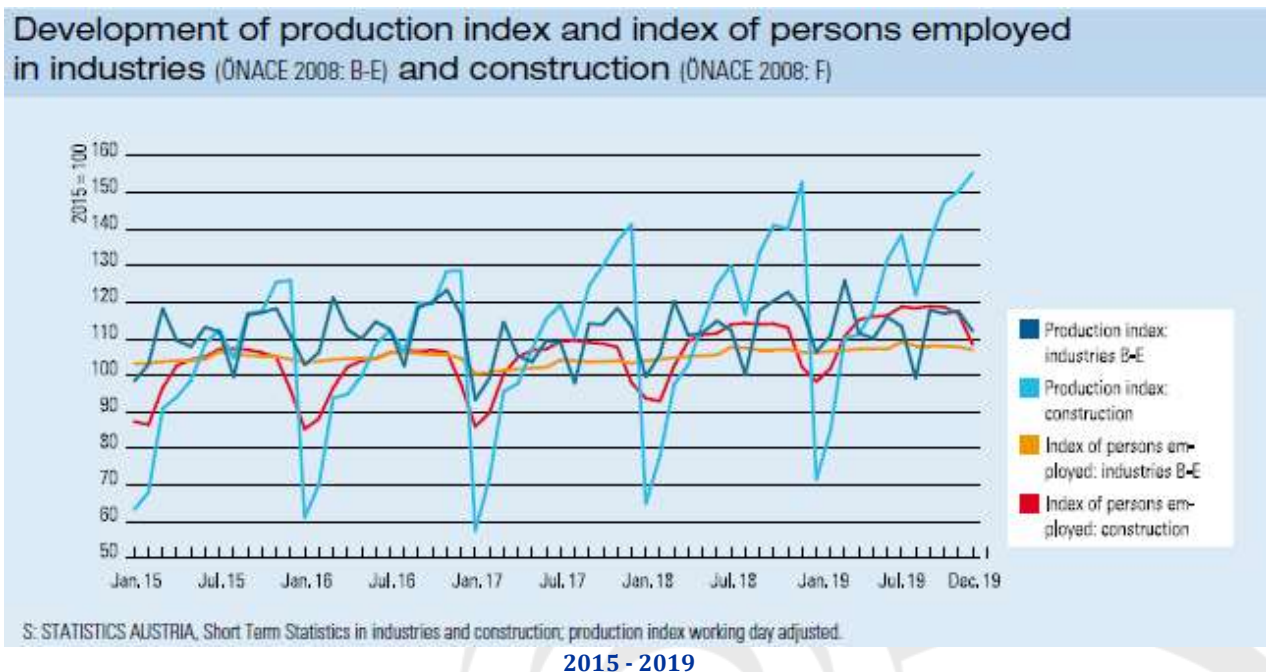
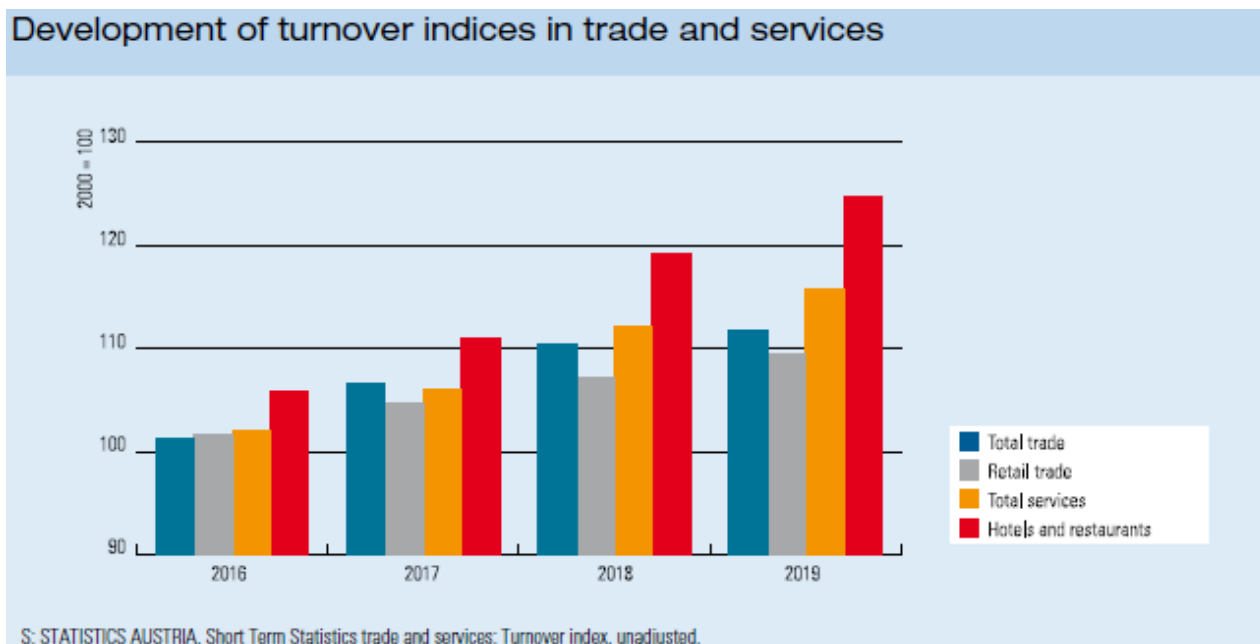


Table 41: Selected sections and indicators for trade and services 2018, Austria

Sections (of ÖNACE 2008)	Enterprises	Total persons employed (annual average)	Turnover in billion €	Value added at factor cost in billion €	Persons employed per enterprise	Value added at factor costs in 1 000 € per person employed
Total trade and services (G-N, S95)	278 627	2 022 012	496.2	130.2	7	64
G Trade	80 153	679 111	268.7	38.7	8	57
H Transportation and storage	14 816	210 209	45.4	14.7	14	70
I Accommodation and food service activities	48 160	315 503	21.3	10.5	7	33
J Information and communication	20 684	120 653	25.2	11.2	6	93
L Real estate activities	19 990	52 962	20.1	10.4	3	197
M Professional, scientific and technical activities	70 083	263 304	36.0	16.9	4	64

S: STATISTICS AUSTRIA, Structural Business Statistics 2018.

Figure 40: Development of turnover indices in trade and services



Conclusions on GVA

The GVA growth for the period 2015 – 2019 at the level of federal states in Austria is shown below.

Table 42: GVA growth for the period 2015 – 2019 at the level of federal states, Austria

Federal State (NUTS 2-Einheit)	2015	2016	2017	2018	2019
Burgenland	7171,9	7448,4	7806,2	8024,9	8288,4
Lower Austria	48056,9	49563,7	51752,0	53715,4	55153,7
Vienna	77845,2	82004,5	83084,2	86726,1	89692,3
Carinthia	16693,2	17030,7	17758,6	18731,3	19222,1
Styria	38994,0	40620,4	42299,9	43647,2	45433,5
Upper Austria	52307,6	54187,3	56081,5	59123,1	61119,1
Salzburg	22835,4	23907,9	24673,7	25709,5	26682,0
Tyrol	27820,2	28858,4	29798,0	31258,2	32519,4
Vorarlberg	15197,3	15216,3	16026,6	17283,2	17127,6
Extra-Regio	116,6	115,8	115,6	119,8	121,1

(Source: STATcube – Statistics Austria website 03.2021)

Table 43: GVA NUTS 2, primary & secondary sector 2015 - 2019, Austria

Gross Value Added at basic prices ¹⁾ by industry and by Länder ²⁾ , current prices, ESA 2010 ³⁾												
Year	Primary sector (A)	Agriculture, forestry and fishing (A)	Growth in % 2015-2019 (A)	Secondary Sector (B-F)	of which					Growth in % 2015-2019 (B-F)	Total	Growth in % 2015-2019 (from total)
					Mining and quarrying (B)	Manufacturing (C)	Electricity, gas, steam and air conditioning supply (D)	Water supply; sewerage, waste management and remediation activities (E)	Construction (F)			
In million €												
AT AUSTRIA												
2015	3.890	3.890	10,95%	86.669	1.148	57.459	5.691	3.198	19.174	17,09%	90.559	16,82%
2019 ⁴⁾	4.316	4.316		101.478	1.074	66.064	6.520	3.626	24.194		105.794	
AT11 Burgenland												
2015	259	259	5,79%	2.030	19	1.056	200	101	653	16,26%	2.289	15,07%
2019 ⁴⁾	274	274		2.360	15	1.153	202	121	869		2.634	
AT12 Lower Austria												
2015	1.140	1.140	16,14%	14.886	563	9.359	806	711	3.446	13,91%	16.026	14,07%
2019 ⁴⁾	1.324	1.324		16.957	416	10.498	956	776	4.312		18.281	
AT13 Vienna												
2015	25	25	68,00%	11.198	22	5.858	1.345	600	3.372	13,10%	11.223	13,22%
2019 ⁴⁾	42	42		12.665	75	5.960	1.628	684	4.318		12.707	
AT21 Carinthia												
2015	307	307	4,56%	5.278	70	3.324	498	217	1.170	24,90%	5.585	23,28%
2019 ⁴⁾	293	293		6.592	73	4.246	521	256	1.496		6.885	
AT22 Styria												
2015	852	852	5,75%	13.124	118	9.249	620	433	2.704	21,53%	13.976	20,57%
2019 ⁴⁾	901	901		15.950	142	11.136	804	498	3.371		16.851	
AT31 Upper Austria												
2015	782	782	22,63%	20.865	247	15.613	855	542	3.608	16,88%	21.647	17,09%
2019 ⁴⁾	959	959		24.387	228	18.191	952	620	4.396		25.346	
AT32 Salzburg												
2015	212	212	0,00%	5.450	41	3.553	314	196	1.345	20,62%	5.662	19,85%
2019 ⁴⁾	212	212		6.574	46	4.318	397	226	1.587		6.786	
AT33 Tyrol												
2015	218	218	2,75%	8.004	43	5.125	687	256	1.892	16,99%	8.222	16,61%
2019 ⁴⁾	224	224		9.364	59	5.695	719	312	2.577		9.588	
AT34 Vorarlberg												
2015	95	95	-9,47%	5.835	24	4.321	365	144	982	13,57%	5.930	13,20%
2019 ⁴⁾	86	86		6.627	20	4.865	342	133	1.268		6.713	

(Source: Statistics Austria)

The overall GVA growth for the period 2015 – 2019 in Austria from Primary sector (A) and Secondary Sector (B-F) is 16,82%. The GVA of construction in Austria even has a growth of 26,18%. With a view to the federal states of Austria the highest growth rate is shown by Carinthia with 23,28% followed by Styria (20,57%), Salzburg (19,85%), Upper Austria (17,09%), Tyrol (16,61%), Burgenland (15,07%), Lower Austria (14,07%), Vienna (13,22%) and Vorarlberg (13,20%).

Table 44: GVA NUTS 2, tertiary sector, 2015 - 2019, Austria

Tertiary Sector (G-T)	Wholesale and retail trade; repair of motor vehicles and motorcycles (G)	Transportation and storage (H)	Accommodation and food service activities (I)	Information and communication (J)	Financial and insurance activities (K)	Real estate activities (L)	Professional, scientific and technical activities; administrative and support service activities (M+N)	Public administration and defence; compulsory social security (O)	Education (P)	Human health and social work activities (Q)	Arts, entertainment and recreation, repair of household goods and other services (R,S,T)	Growth in % tert. Sect (G-T)
In million €												
216.479	37.530	17.415	15.696	10.695	13.483	29.897	29.208	15.721	16.789	21.205	8.839	15,28%
249.565	40.420	19.618	19.141	13.540	14.739	35.310	35.153	17.602	18.941	25.137	9.963	
4.883	853	275	407	149	311	803	410	542	433	494	206	15,77%
5.653	994	337	466	160	368	954	461	619	468	595	231	
32.031	6.506	3.768	1.407	652	1.500	5.351	3.466	2.685	2.170	3.344	1.182	15,11%
36.872	7.124	4.232	1.687	753	1.709	6.285	4.217	3.044	2.454	4.022	1.345	
66.622	10.185	4.406	2.681	6.543	5.149	7.410	11.567	4.687	5.091	5.569	3.335	15,55%
76.985	10.942	4.737	3.397	8.248	5.370	8.891	13.838	5.293	5.876	6.694	3.699	
11.109	1.727	782	1.089	273	668	1.529	1.273	1.112	940	1.292	423	7,33%
12.337	1.831	877	1.286	304	710	1.724	1.442	1.156	1.003	1.549	454	
25.017	3.887	1.723	1.565	782	1.389	3.760	3.395	1.946	2.482	3.079	1.009	11,30%
28.582	4.127	1.975	1.848	1.080	1.553	4.419	3.945	2.212	2.739	3.561	1.123	
30.661	5.770	2.274	1.350	1.152	1.860	4.868	4.588	2.073	2.420	3.246	1.059	15,01%
35.772	6.401	2.602	1.624	1.575	2.163	5.736	5.654	2.259	2.726	3.815	1.218	
17.174	3.680	1.435	2.242	537	1.046	2.242	1.946	938	1.116	1.370	623	21,51%
19.896	3.860	1.687	2.804	663	1.158	2.634	2.431	1.052	1.243	1.606	757	
19.599	2.907	1.973	3.923	423	988	2.483	1.674	1.093	1.534	1.937	664	10,69%
22.932	3.219	2.297	4.800	532	1.098	2.888	2.105	1.240	1.739	2.280	735	
9.268	2.015	779	1.032	185	571	1.451	890	529	603	875	337	18,99%
10.414	1.921	875	1.228	225	609	1.780	1.060	606	693	1.016	401	

The overall GVA growth for the tertiary sector 2015 – 2019 in Austria is 15,28%. Therefore the total growth for the period 2015 – 2019 in Austria is 15,74% like shown below.

Table 45: GVA NUTS 2, all sectors 2015 - 2019, Austria

Year	Primary sector (A)	Agriculture, forestry and fishing (A)	Growth in % (A)	Secondary sector (B-F)	Mining and quarrying (B)	Manufacturing (C)	Electricity, gas, steam and hot water supply (D)	Construction (E)	Growth in % (B-F)	Tertiary sector (G-T)	of which											Growth in % (G-T)		
											Wholesale and retail trade; repair of motor vehicles and motorcycles (G)	Transportation and storage (H)	Accommodation and food service activities (I)	Information and communication (J)	Financial and insurance activities (K)	Real estate activities (L)	Professional, scientific and technical activities; administrative and support service activities (M+N)	Public administration and defence; compulsory social security (O)	Education (P)	Human health and social work activities (Q)	Arts, entertainment and recreation, repair of household goods and other services (R,S,T)			
AT AUSTRIA														in million €										
2015	3.080	2.880	18,0%	85.688	1.180	87.408	5.891	3.798	19.174	216.479	37.530	17.415	15.696	10.695	13.483	29.208	15.721	16.789	21.205	8.839	15,28%			
2019	4.318	4.310	19,8%	104.078	1.074	99.004	8.520	3.520	24.104	249.565	40.420	19.618	19.141	13.540	14.739	35.310	35.153	17.602	18.941	25.137	9.963	15,74%		

4.4.2 Bulgaria

The following table provides information on the GVA (Gross Value Added) per economic sector for each of the relevant NUTS 2 regions in Bulgaria. The reviewed period is 2015 – 2019 and the values are in mln. BGN:

Table 46: Gross Value Added (GVA) in the NUTS 2 regions in Bulgaria

Economic sectors Regions	Agriculture, forestry and fisheries	Industry	Services	Overall
North West	2015 – 612	2015 – 1673	2015 – 2901	2015 – 5186
	2016 – 713	2016 – 1751	2016 – 2939	2016 – 5403
	2017 – 700	2017 – 2070	2017 – 3192	2017 – 5961
	2018 – 605	2018 – 2425	2018 – 3625	2018 – 6655
	2019 – 641	2019 – 2141	2019 – 3867	2019 – 6649
North Central	2015 – 576	2015 – 1998	2015 – 3543	2015 – 6117
	2016 – 594	2016 – 2149	2016 – 3629	2016 – 6371
	2017 – 647	2017 – 2294	2017 – 3878	2017 – 6819
	2018 – 584	2018 – 2464	2018 – 4246	2018 – 7295
	2019 – 623	2019 – 2474	2019 – 4597	2019 – 7694
North East	2015 – 593	2015 – 2371	2015 – 5415	2015 – 8379
	2016 – 623	2016 – 2504	2016 – 5565	2016 – 8692
	2017 – 695	2017 – 2633	2017 – 5995	2017 – 9323
	2018 – 609	2018 – 2735	2018 – 6755	2018 – 10100
	2019 – 655	2019 – 2775	2019 – 7219	2019 – 10649
South East	2015 – 524	2015 – 3865	2015 – 5008	2015 – 9397
	2016 – 553	2016 – 4921	2016 – 5148	2016 – 10622
	2017 – 621	2017 – 5214	2017 – 5563	2017 – 11399
	2018 – 553	2018 – 4714	2018 – 6218	2018 – 11485
	2019 – 592	2019 – 4292	2019 – 6628	2019 – 11511

Exchange rate: 1 BGN = 0.511292 EUR

The charts represent a comparison between the different regions for the reviewed period for each sector. Based on this information, conclusions are made about the possible upcoming trends in the next few years.

Figure 41: GVA of Agriculture, forestry and fisheries (in mln. BGN)

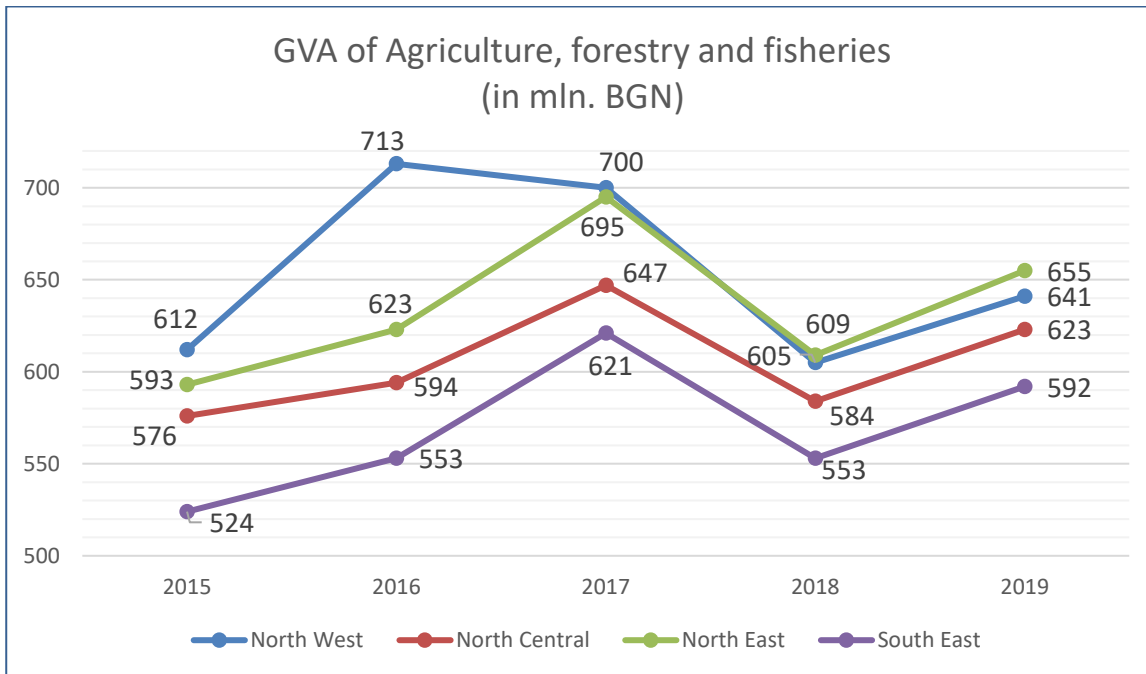


Figure 42: GVA of the Industrial sector (in mln. BGN)

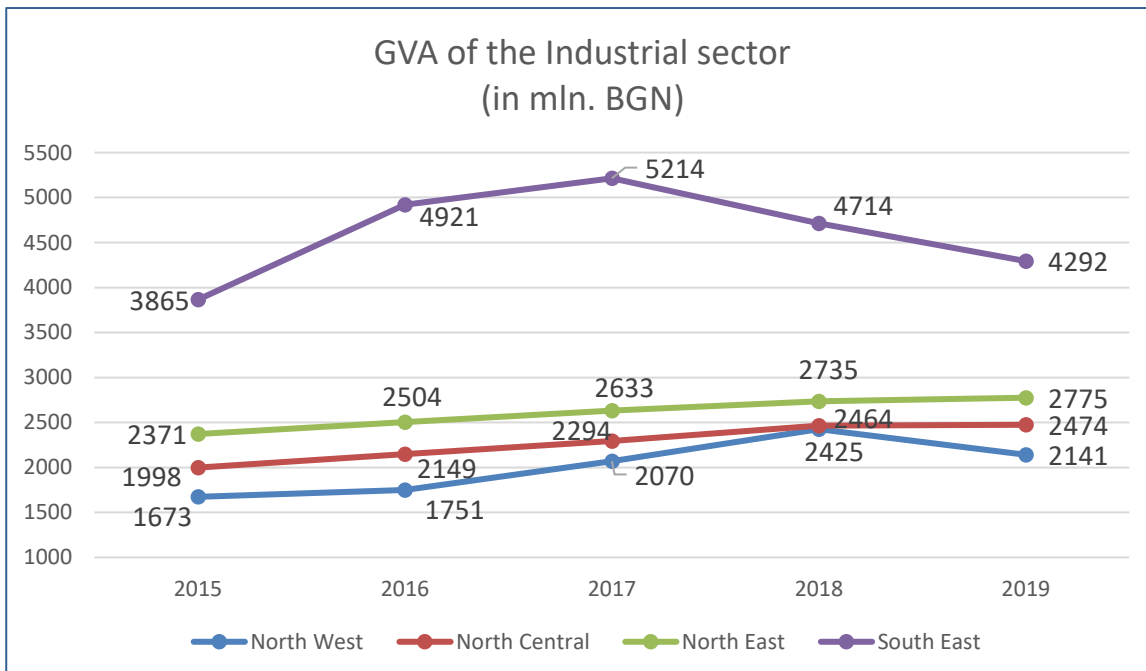
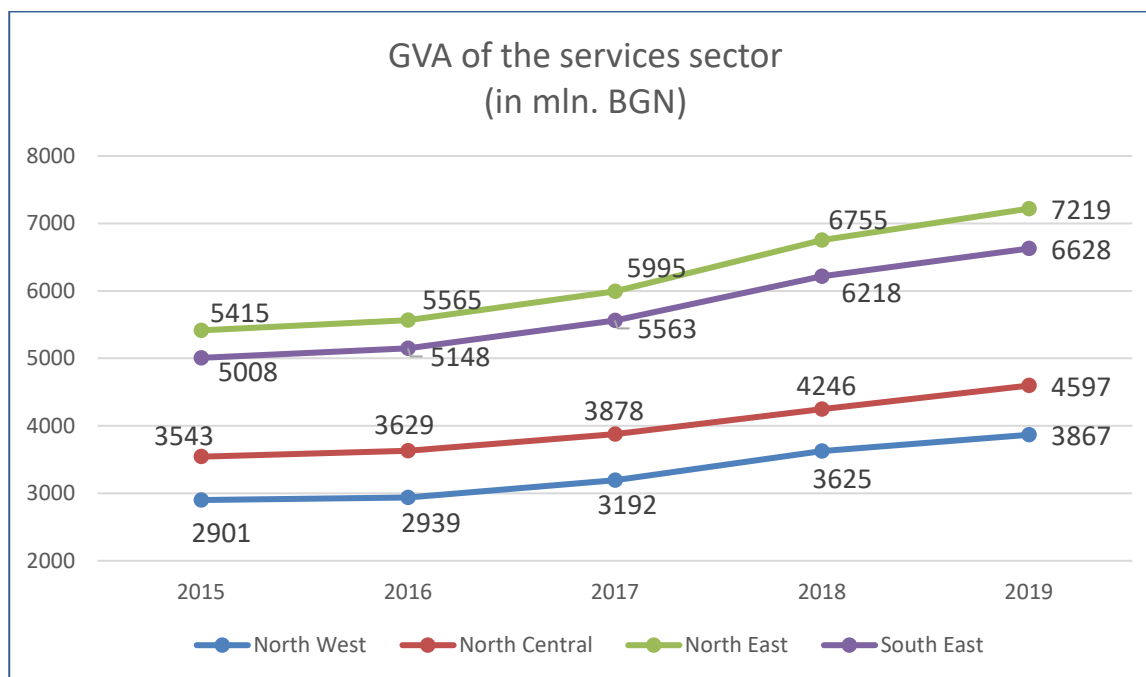


Figure 43: GVA of the services sector (in mln. BGN)



The conclusions that can be summarized from the analysis of the indicator "gross added value " for the period 2015-2019 show that as a derivative of GDP, GVA repeats the picture of the development of the economy in territorial aspect. At the national level permanently leading in the revised period is the sector of services, followed by the industry while the lowest growth is shown by the agriculture and forestry sector.

4.4.3 Croatia

GVA by economic sector⁸

Table 47: Gross Value Added (GVA) in the NUTS 2 regions in Croatia

Economic Sector – mil. kuna	2018.	2019.
Agriculture, forestry and fishing	11.291	11.431
Mining and quarrying	1.330	1.288
Manufacturing	48.254	48.235
Electricity, gas, steam and air conditioning supply	9.224	9.768
Water supply; sewerage, waste management and remediation activities	4.270	4.338
Construction	16.221	17.517
Wholesale and retail trade; repair of motor vehicles and motorcycles	39.647	41.527
Transportation and storage	14.475	14.856
Accommodation and food service activities	18.855	19.313
Information and communication	14.930	15.599
Financial and insurance activities	18.030	18.285
Real estate activities	28.264	28.508
Professional, scientific and technical activities	18.552	18.858
Administrative and support service activities	7.283	7.599

⁸ https://www.dzs.hr/Hrv_Eng/Pokazatelji/Bruto%20domaci%20proizvod%20Godisnji.xls

Public administration and defence; compulsory social security	16.421	16.591
Education	14.676	14.992
Human health and social work activities	14.926	15.312
Arts, entertainment and recreation	5.596	5.790
Other service activities	5.280	5.464
Activities of households as employers; undifferentiated goods and services producing activities of households for own use	139	128
Activities of extraterritorial organisations and bodies	-	-
Gross value added (basic prices)	307.712	315.458
Taxes on products less subsidies on products	66.133	69.065
Gross domestic product (market prices)	373.844	384.532

4.4.4 Hungary

The two tables below show the value added and percentage distribution of gross value added by industry in the period 2015-2019.

Table 48: Gross Value Added (GVA) 2015 - 2019, Hungary

Industry / year	2015	2016	2017	2018	2019
Agriculture, forestry, fishing	1 325 029	1 408 289	1 475 136	1 496 725	1 595 066
Mining and quarrying	47 185	44 670	64 833	103 235	130 109
Manufacturing	7 068 205	7 098 168	7 519 568	8 074 104	8 404 028
Electricity, gas, steam and air conditioning supply	595 759	691 532	582 785	582 926	736 147

Industry / year	2015	2016	2017	2018	2019
Water supply; wastewater collection, treatment, waste management, decontamination	277 212	302 057	315 329	312 525	332 413
Building industry	1 236 448	1 092 855	1 412 000	1 855 503	2 257 667
Trade, car repair	3 053 965	3 077 229	3 384 061	3 822 036	4 454 152
Transport, storage	1 908 203	2 027 019	2 055 048	2 219 032	2 425 967
Accommodation services, hospitality	482 961	501 261	600 544	680 409	773 836
Information, communication	1 429 882	1 494 025	1 636 147	1 792 891	1 968 000
Financial and insurance activities	1 050 033	1 069 518	1 200 895	1 287 446	1 442 155
Real estate transactions	2 476 770	2 724 174	3 000 186	3 437 035	3 799 697
Professional, scientific and technical activities	1 667 519	1 794 159	2 003 281	2 228 311	2 453 878
Administrative and support service activities	1 029 200	1 102 421	1 307 982	1 465 635	1 624 588
Administration, defense; compulsory social security	2 360 234	2 561 214	2 726 499	2 894 570	3 161 746
Education	1 337 859	1 456 244	1 524 471	1 649 294	1 771 395
Human health and social work activities	1 250 550	1 356 978	1 497 665	1 651 296	1 755 002
Arts, entertainment, leisure	369 892	399 229	482 830	532 197	602 256
Other service	459 233	467 696	489 729	523 595	572 625
Activity of households	5 726	6 410	6 460	11 888	9 414
Gross value added	29 431 865	30 675 148	33 285 449	36 620 653	40 270 141
Balance of taxes and subsidies on products	5 505 448	5 492 305	5 947 981	6 726 388	7 243 771
Gross domestic product (at market purchase price)	34 937 313	36 167 453	39 233 430	43 347 041	47 513 912

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt002d.html

Percentage distribution of GVA

Table 49: Percentage distribution of GVA 2015 - 2019, Hungary

Industry / year	2015	2016	2017	2018	2019
Agriculture, forestry, fishing	4,5	4,6	4,4	4,1	4,0
Mining and quarrying	0,2	0,1	0,2	0,3	0,3
Manufacturing	24,0	23,1	22,6	22,0	20,9
Electricity, gas, steam and air conditioning supply	2,0	2,3	1,8	1,6	1,8
Water supply; wastewater collection, treatment, waste management, decontamination	0,9	1,0	0,9	0,9	0,8
Building industry	4,2	3,6	4,2	5,1	5,6
Trade, car repair	10,4	10,0	10,2	10,4	11,1
Transport, storage	6,5	6,6	6,2	6,1	6,0
Accommodation services, hospitality	1,6	1,6	1,8	1,9	1,9
Information, communication	4,9	4,9	4,9	4,9	4,9
Financial and insurance activities	3,6	3,5	3,6	3,5	3,6
Real estate transactions	8,4	8,9	9,0	9,4	9,4
Professional, scientific and technical activities	5,7	5,8	6,0	6,1	6,1
Administrative and support service activities	3,5	3,6	3,9	4,0	4,0
Administration, defense; compulsory social security	8,0	8,3	8,2	7,9	7,9
Education	4,5	4,7	4,6	4,5	4,4
Human health and social work activities	4,2	4,4	4,5	4,5	4,4
Arts, entertainment, leisure	1,3	1,3	1,5	1,5	1,5
Other service	1,6	1,5	1,5	1,4	1,4
Activity of households	0,0	0,0	0,0	0,0	0,0

Gross value added	100,0	100,0	100,0	100,0	100,0
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Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt002d.html

Conclusions on GVA

The GVA growth for the period 2015 – 2019 at the country level is shown below:

Million forints & %

Table 50: GVA growth for the period 2015 - 2019, Hungary

Industry	2015	2019	Growth
Agriculture, forestry, fishing	1 325 029	1 595 066	20,38%
Mining and quarrying	47 185	130 109	275,74%
Manufacturing	7 068 205	8 404 028	18,90%
Electricity, gas, steam and air conditioning supply	595 759	736 147	23,56%
Water supply; wastewater collection, treatment, waste management, decontamination	277 212	332 413	19,91%
Building industry	1 236 448	2 257 667	82,59%
Trade, car repair	3 053 965	4 454 152	45,85%
Transport, storage	1 908 203	2 425 967	27,13%
Accommodation services, hospitality	482 961	773 836	60,23%
Information, communication	1 429 882	1 968 000	37,63%
Financial and insurance activities	1 050 033	1 442 155	37,34%
Real estate transactions	2 476 770	3 799 697	53,41%
Professional, scientific and technical activities	1 667 519	2 453 878	47,16%

Industry	2015	2019	Growth
Administrative and support service activities	1 029 200	1 624 588	57,85%
Administration, defence; compulsory social security	2 360 234	3 161 746	33,96%
Education	1 337 859	1 771 395	32,41%
Human health and social work activities	1 250 550	1 755 002	40,34%
Arts, entertainment, leisure	369 892	602 256	62,82%
Other service	459 233	572 625	24,69%
Activity of households	5 726	9 414	64,41%
Gross value added	29 431 865	40 270 141	36,82%

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qpt002d.html

The overall GVA growth for the period 2015 – 2019 is 36,82 % at the country level. The highest GVA growth is shown by Mining and quarrying with 275,74%, while the lowest growth is shown by Water supply; wastewater collection, treatment, waste management, decontamination with 19,91%.

4.4.5 Romania

The Gross Value Added is retrieved from the National Forecasting Commission in Romania. In the table below is shown the GVA by sector for the period 2015 – 2019.

Billion Lei and %

Table 51: GVA for the period 2015 - 2019, Romania

	2015			2016			2017			2018			2019		
	Value at 2014 price	Price index	Current price value	Value at 2015 price	Price index	Current price value	Value at 2016 price	Price index	Current price value	Value at 2017 price	Price index	Current price value	Value at 2018 price	Price index	Current price value
GDP	692.6	102.9	712.8	745.4	102.2	761.5	820.7	104.6	858.7	891.8	105.9	944.2	991.3	106.9	1059.8
Industry															
Production	491.9	99.0	487.0	499,1	99,2	494,9	537.7	104.2	560.1	571.4	105.2	601	603.1	105.1	633.7
Interim consumption	322.6	99.6	321.5	326,9	97,7	319,4	338.9	103.9	352.2	359.2	105.4	378.6	389.3	103.5	402.8
GVA - brutto	169.3	97.8	165.5	172,2	101,9	175,5	198.9	104.6	207.9	212.2	104.8	222.4	213.8	108.0	230.8
Agriculture, forestry, fishing															
Production	63.8	103.1	65.8	64,9	98,7	64,1	77.1	101.4	78.3	85.2	103.6	88.3	85.3	108.0	92.1
Interim consumption	35.3	102.0	36.1	35,4	97,4	34,5	40.3	101.4	40.9	44.5	106.2	47.2	45.2	107.7	48.7
GVA - brutto	28.5	104.5	29.8	29,6	100,3	29,7	36.9	101.5	37.4	40.7	100.8	41.0	40.2	108.3	43.5
Construction															
Production	140.0	98.7	138.2	126,2	104,6	131,9	120.9	107.1	129.4	123.2	116.2	143.2	174.5	109.8	191.5
Interim consumption	88.0	96.9	85.3	84,2	102,3	86,2	74.6	106.0	79.1	78.2	117.7	92.0	113.2	109.4	123.9
GVA - brutto	52.0	101.8	52.9	41,9	109,1	45,8	46.3	108.7	50.3	45.1	113.5	51.2	61.3	110.3	67.6
Total servicii															
Production	692.0	102.0	706.1	768,9	101,9	783,6	828.3	104.2	863.3	904.2	106.5	962.6	1037.5	105.2	1091.8
Interim consumption	331.3	99.1	328.4	357,1	98,3	351,1	372.9	102.2	380.9	399.8	105.9	423.4	460.9	103.1	475.4
GVA - brutto	360.8	104.7	377.7	411,8	105,0	432,5	455.4	105.9	482.4	504.4	106.9	539.2	576.6	106.9	616.4
Total economy															
Production	1387.8	100.7	1397.1	1459,1	101,1	1474,6	1564	104.3	1631	1684	106.6	1795	1900.4	105.7	2009.1
Interim consumption	777.2	99.2	771.2	803,5	98,5	791,1	826.6	103.2	853	881.7	106.8	941.2	1008.5	104.2	1050.7
GVA - brutto	610.6	102.5	625.9	655,6	104,3	683,5	737.4	105.5	778	802.3	106.4	853.8	891.8	107.5	958.4

Conclusions on GVA

The GVA growth for the period 2015 – 2019 at the country level is shown below:

Billion Lei & %

Table 52: GVA growth for the period 2015 - 2019, Romania

Industry	2015	2019	Growth
Production	487	633.7	30.12%
Interim consumption	321.5	402.8	25.29%
GVA - brutto	165.5	230.8	39.46%
Agriculture, forestry, fishing			
Production	65.8	92.1	39.97%
Interim consumption	36.1	48.7	34.90%
GVA - brutto	29.8	43.5	45.97%
Construction			
Production	138.2	191.5	38.57%
Interim consumption	85.3	123.9	45.25%
GVA - brutto	52.9	67.6	27.79%
Total services			
Production	706.1	1091.8	54.62%
Interim consumption	328.4	475.4	44.76%
GVA - brutto	377.7	616.4	63.20%
Total economy			
Production	1397.1	2009.1	43.81%
Interim consumption	771.2	1050.7	36.24%
GVA - brutto	625.9	958.4	53.12%

The overall GVA growth for the period 2015 – 2019 is 53.12% at the country level. The highest GVA growth is shown by services with 63.20%, while the lowest growth is shown by constructions with 27.79%.

4.4.6 Serbia

The Gross Value Added is retrieved from the Statistical Office of the Republic of Serbia. Table below shows the GVA by sector for the period 2013 – 2019.

Million RSD and % (2013-2016)

Table 53: GVA for the period 2013 - 2019, Serbia

	2013				2014				2015				2016			
	Values, current prices	Price index	Share of GDP, %	Values at 2012 prices	Values, current prices	Price index	Share of GDP, %	Values at 2013 prices	Values, current prices	Price index	Share of GDP, %	Values at 2014 prices	Values, current prices	Price index	Share of GDP, %	Values at 2015 prices
Total	3487377.2	1.05	84.6	3333842.8	3494671.5	1.02	84.0	3420676.6	3597767.3	1.01	83.4	3575518.1	3755978.3	1.01	82.9	3703522.3
A AGRICULTURE, FORESTRY AND FISHING	305554.7	1.03	7.4	296665.6	293979.5	0.94	7.1	311520.5	289704.1	0.96	6.7	300318.9	308422	0.99	6.8	311289
01 Crop and animal production, hunting and related service activities	293657.6	1.03	7.1	284586.6	282211.7	0.94	6.8	299484.8	277839	0.96	6.4	288388.6	295280	0.99	6.5	298484
02 Forestry and logging	10519.6	0.97	0.3	10807.7	10461.7	0.98	0.3	10677.4	10614	1.00	0.2	10631.8	11744	1.01	0.3	11585
03 Fishing and aquaculture	1377.4	1.08	0.0	1271.2	1306.1	0.96	0.0	1358.2	1251	0.96	0.0	1298.5	1398	1.15	0.0	1220
B MINING AND QUARRYING	112257.1	1.02	2.7	110354.5	95499.4	1.00	2.3	95954.7	92537	0.89	2.1	103766.7	88296.7	0.93	1.9	94525.9
05 Mining of coal and lignite	63761.4	0.99	1.5	64202.1	50284.8	1.04	1.2	48562.2	52975	0.85	1.2	62337.6	49565.4	0.93	1.1	53118.5
06 Extraction of crude petroleum and natural gas	11966.2	0.90	0.3	13290.6	11633.4	0.98	0.3	11847.2	7722.9	0.68	0.2	11337.6	5433	0.77	0.1	7056.2
07 Mining of metal ores	21984.4	1.16	0.5	19025.5	19569.4	0.92	0.5	21165.3	18597.1	1.12	0.4	16631.5	19593.9	0.93	0.4	20986.8
08 Other mining and quarrying	4978.5	1.08	0.1	4630.1	5401.9	1.01	0.1	5323	6337.2	1.00	0.1	6325.2	7169.9	1.00	0.2	7145
09 Mining support service activities	9566.6	1.04	0.2	9206.2	8609.9	0.95	0.2	9057	6904.8	0.97	0.2	7134.8	6534.4	1.05	0.1	6219.5
C MANUFACTURING	664288.8	1.04	16.1	641152.8	622570.3	1.00	15.0	621686.6	637239.1	0.99	14.8	641983.8	670688.3	1.02	14.8	656226.4
10 Manufacture of food products	122443.9	1.09	3.0	112042	126068.3	0.98	3.0	129151.7	126942.5	1.00	2.9	126693	136297.9	1.06	3.0	129008
11 Manufacture of beverages	28923	1.12	0.7	25779.7	29206.5	1.02	0.7	28545	32196.3	1.05	0.7	30589	29131	0.92	0.6	31786.9
12 Manufacture of tobacco products	4261.3	1.08	0.1	3952.8	4692.4	1.11	0.1	4235.5	6835.2	1.00	0.2	6826.7	8638.1	1.08	0.2	7994.2
13 Manufacture of textiles	11624.9	1.00	0.3	11599.6	9981.1	1.02	0.2	9797.5	12997.4	1.07	0.3	12124.4	13740.6	1.00	0.3	13780.4
14 Manufacture of wearing apparel	26007	1.05	0.6	24827.5	25954.9	1.00	0.6	26012.3	25689.8	1.03	0.6	24959.9	28658.6	1.01	0.6	28319.3
15 Manufacture of leather and related products	10929.1	1.06	0.3	10322.1	11256.9	1.04	0.3	10806	10841.8	1.00	0.3	10847	10368.8	1.03	0.2	10097.3
16 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	13521.7	1.07	0.3	12663.8	16308.8	1.06	0.4	15455.3	15518	1.04	0.4	14979.4	15366	1.02	0.3	15069
17 Manufacture of paper and paper products	17241.4	0.99	0.4	17344.4	16215.6	0.95	0.4	17111.9	18058	1.06	0.4	17057	19977	1.08	0.4	18564
18 Printing and reproduction of recorded media	13605.1	1.08	0.3	12638.6	12930.3	1.00	0.3	12885.9	12690	0.91	0.3	13987	13792	1.01	0.3	13695
19 Manufacture of coke and refined petroleum products	59676.3	0.94	1.4	63179.6	55499	0.94	1.3	58785.6	46029	0.79	1.1	58122.4	40030	0.89	0.9	45169
20 Manufacture of chemicals and chemical products	33141.1	1.05	0.8	31665.3	29856.8	1.08	0.7	27579	33175	1.04	0.8	31872.7	38246	1.02	0.8	37467

	2013				2014				2015				2016			
	Values, current prices	Price index	Share of GDP, %	Values at 2012 prices	Values, current prices	Price index	Share of GDP, %	Values at 2013 prices	Values, current prices	Price index	Share of GDP, %	Values at 2014 prices	Values, current prices	Price index	Share of GDP, %	Values at 2015 prices
21 Manufacture of basic pharmaceutical products and pharmaceutical preparations	16729.6	1.06	0.4	15819.8	16728	1.00	0.4	16679.4	16105	0.92	0.4	17432.7	15656	0.98	0.3	16018
22 Manufacture of rubber and plastic products	39180.5	0.98	1.0	39860.6	39572.3	1.01	1.0	39067	45425	1.04	1.1	43495	53021	1.06	1.2	50244
23 Manufacture of other non-metallic mineral products	22664.2	1.03	0.5	21954.8	24513.5	1.05	0.6	23400.5	25783	1.02	0.6	25311.5	27926	1.03	0.6	27112
24 Manufacture of basic metals	4228	0.96	0.1	4395	4929.9	1.06	0.1	4670	6047	1.01	0.1	6004.8	6898	1.04	0.2	6653
25 Manufacture of fabricated metal products, except machinery and equipment	101279.7	1.04	2.5	97212.7	64049.3	1.01	1.5	63387.2	65570	1.00	1.5	65499.3	71580	1.03	1.6	69233
26 Manufacture of computer, electronic and optical products	12525.4	1.04	0.3	12091.9	14001.7	1.02	0.3	13701.3	12007	1.03	0.3	11612	13810	1.01	0.3	13642
27 Manufacture of electrical equipment	20190.3	1.02	0.5	19835.5	22040.2	1.03	0.5	21420.6	22880	1.02	0.5	22365.4	23940	1.04	0.5	22930
28 Manufacture of machinery and equipment n.e.c.	17900.4	1.01	0.4	17690.3	16139	1.00	0.4	16213	23532	1.06	0.5	22254.5	23011	1.04	0.5	22064
29 Manufacture of motor vehicles, trailers and semi-trailers	49499.8	1.01	1.2	48974.1	48514.7	1.00	1.2	48564.1	43881	0.97	1.0	45074.8	43020	1.05	1.0	40844
30 Manufacture of other transport equipment	3351.9	1.02	0.1	3284.1	3124.9	1.00	0.1	3128.3	2196	1.00	0.1	2191.2	2905	1.03	0.1	2820
31 Manufacture of furniture	16846.9	1.07	0.4	15818.5	13676.3	1.01	0.3	13511.1	13465.1	1.02	0.3	13180.7	14862.9	1.04	0.3	14269.3
32 Other manufacturing	6575.6	1.00	0.2	6575.6	6315.2	0.99	0.2	6392.6	9117.9	1.00	0.2	9074	9959.2	1.03	0.2	9702.7
33 Repair and installation of machinery and equipment	11941.7	1.03	0.3	11624.4	10994.7	0.98	0.3	11185.7	10257	0.98	0.2	10429.3	9853	1.01	0.2	9744
D ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY	157560.3	1.06	3.8	149084.3	146720.1	1.06	3.5	138476.7	169520.2	1.03	3.9	165089.5	180762.3	1.05	4.0	172345.2
35 Electricity, gas, steam and air conditioning supply	157560.3	1.06	3.8	149084.3	146720.1	1.06	3.5	138476.7	169520.2	1.03	3.9	165089.5	180762.3	1.05	4.0	172345.2
E WATER SUPPLY; SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES	47950	1.13	1.2	42277.8	52273.2	1.09	1.3	47981.9	51820.3	1.07	1.2	48324.4	52943	1.11	1.2	47750
36 Water collection, treatment and supply	20396.4	1.16	0.5	17519.6	23432.7	1.15	0.6	20387.9	23215.1	1.04	0.5	22279.1	23879	1.11	0.5	21432
37 Sewerage	197.4	1.24	0.0	159.6	210.1	1.06	0.0	198.9	230.6	1.06	0.0	217.8	227.1	1.07	0.0	211.7
38 Waste collection, treatment and disposal activities; materials recovery	27259.2	1.11	0.7	24505.1	28528.1	1.05	0.7	27298.1	28257.4	1.10	0.7	25721.6	28735.8	1.11	0.6	25998.8
39 Remediation activities and other waste management services	97	1.04	0.0	93.5	102.3	1.05	0.0	97.1	117.1	1.11	0.0	105.9	101.1	0.94	0.0	107.5
F CONSTRUCTION	124066.2	1.04	3.0	118815.4	132938.4	1.06	3.2	125836.7	162040.6	1.04	3.8	155890.2	176494.6	1.03	3.9	171933.8
41 Construction of buildings	39498.4	1.04	1.0	37808.5	41840.6	1.05	1.0	40004.2	49599.6	1.03	1.1	48144.6	54412.4	1.03	1.2	52672.1

	2013				2014				2015				2016			
	Values, current prices	Price index	Share of GDP, %	Values at 2012 prices	Values, current prices	Price index	Share of GDP, %	Values at 2013 prices	Values, current prices	Price index	Share of GDP, %	Values at 2014 prices	Values, current prices	Price index	Share of GDP, %	Values at 2015 prices
42 Civil engineering	42589.4	1.05	1.0	40707	45877.9	1.06	1.1	43181.2	55406.6	1.03	1.3	53562.7	60156.4	1.03	1.3	58624
43 Specialised construction activities	41978.5	1.04	1.0	40299.9	45219.9	1.06	1.1	42651.3	57034.4	1.05	1.3	54182.9	61925.8	1.02	1.4	60637.8
G WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	453093.1	1.06	11.0	427630.9	456428.1	1.02	11.0	446806.4	480125.1	1.02	11.1	469219.2	504002.1	1.01	11.1	496914
45 Wholesale and retail trade and repair of motor vehicles and motorcycles	33341.5	1.06	0.8	31322.6	33731.5	1.06	0.8	31912.8	36225	1.02	0.8	35569.7	42360	0.99	0.9	42597
46 Wholesale trade, except of motor vehicles and motorcycles	258249	1.06	6.3	244555.9	253442.4	1.02	6.1	249553.9	269110	1.03	6.2	261376.1	276835	1.03	6.1	269966
47 Retail trade, except of motor vehicles and motorcycles	161502.6	1.06	3.9	151752.5	169254.2	1.02	4.1	165339.7	174790	1.01	4.1	172273.4	184807	1.00	4.1	184351
H TRANSPORTATION AND STORAGE	140485.7	1.08	3.9	130230	145802.1	1.04	3.5	140860	159357.3	1.05	3.7	152098.4	170142	1.04	3.8	164018.3
49 Land transport and transport via pipelines	85343.6	1.10	2.1	77583.2	84336.2	1.01	2.0	83657.5	92789.2	1.05	2.2	88683	101101	1.03	2.2	97754.2
50 Water transport	1129.6	1.11	0.0	1019.5	1317.5	1.08	0.0	1222.5	1575	1.08	0.0	1462.9	1657	1.07	0.0	1553
51 Air transport	1272.7	0.93	0.0	1373.7	2239.7	1.09	0.1	2051.2	2555	1.02	0.1	2494	3077	1.13	0.1	2721
52 Warehousing and support activities for transportation	36584.6	1.07	0.9	34156.3	38487.3	1.01	0.9	37992.9	41955.1	1.03	1.0	40709.5	42736	1.03	0.9	41473.1
53 Postal and courier activities	16155.2	1.00	0.4	16097.3	19421.4	1.22	0.5	15936	20483	1.09	0.5	18749	21571	1.05	0.5	20517
I ACCOMMODATION AND FOOD SERVICE ACTIVITIES	48360.6	1.08	1.2	44715.7	50433	1.06	1.2	47387.4	54005	1.04	1.3	51863.4	58238	1.00	1.3	58129
55 Accommodation	12730.6	1.08	0.3	11759.4	12479.8	1.06	0.3	11797.8	14136.7	1.04	0.3	13645.6	14683.1	1.00	0.3	14701.1
56 Food and beverage service activities	35630	1.08	0.9	32956.3	37953.3	1.07	0.9	35589.6	39868.3	1.04	0.9	38217.8	43554.9	1.00	1.0	43427.9
J INFORMATION AND COMMUNICATION	181578.8	1.10	4.4	165158.9	197948.9	1.06	4.8	186682.5	208232.7	1.02	4.8	203307.6	219236.2	1.02	4.8	214633.7
58 Publishing activities	12897.2	1.08	0.3	11977.4	13554	1.12	0.3	12144.2	14366	1.01	0.3	14265.2	14166	1.03	0.3	13693
59 Motion picture, video and television programme production, sound recording and music publishing activities	4758.4	1.08	0.1	4420.8	5322.7	1.11	0.1	4812.8	5674.3	1.06	0.1	5341.6	6493.7	0.91	0.1	7112.7
60 Programming and broadcasting activities	9925.6	1.07	0.2	9248.4	10684	1.06	0.3	10082.6	11590.7	1.09	0.3	10664.1	10877.4	1.06	0.2	10245.3
61 Telecommunications	98145.3	1.12	2.4	87519.3	99066.1	1.05	2.4	94162.1	104118.9	1.00	2.4	104067.4	104866.1	1.00	2.3	105092.9
62 Computer programming, consultancy and related activities	51104.8	1.07	1.2	47569.4	64268	1.06	1.5	60681.3	66936	1.05	1.6	63712.6	76784.4	1.06	1.7	72702.8
63 Information service activities	4747.6	1.07	0.1	4423.6	5054	1.05	0.1	4799.6	5546.9	1.06	0.1	5256.7	6048.6	1.05	0.1	5787.1
K FINANCIAL AND INSURANCE ACTIVITIES	116463.7	1.02	2.8	114286.6	119325.8	1.03	2.9	115983.9	128318	1.06	3.0	120799.3	133163	0.99	2.9	134820.3

	2013				2014				2015				2016			
	Values, current prices	Price index	Share of GDP, %	Values at 2012 prices	Values, current prices	Price index	Share of GDP, %	Values at 2013 prices	Values, current prices	Price index	Share of GDP, %	Values at 2014 prices	Values, current prices	Price index	Share of GDP, %	Values at 2015 prices
64 Financial service activities, except insurance and pension funding	96552.1	1.02	2.3	94401.2	96374.1	1.01	2.3	95681.7	102384	1.05	2.4	97434.2	104815	0.97	2.3	107655.3
65 Insurance, reinsurance and pension funding, except compulsory social security	14499.5	0.99	0.4	14580	16362	1.16	0.4	14119.4	19548	1.14	0.5	17129.9	21579	1.04	0.5	20711
66 Activities auxiliary to financial services and insurance activities	5412.1	1.02	0.1	5305.4	6589.7	1.07	0.2	6182.8	6386	1.02	0.1	6235.2	6769	1.05	0.1	6454
L REAL ESTATE ACTIVITIES	316540.9	1.01	7.7	313008.9	336841	1.06	8.1	318994.7	339817.1	1.00	7.9	338436.2	341237	1.01	7.5	336488
68 Real estate activities	316540.9	1.01	7.7	313008.9	336841	1.06	8.1	318994.7	339817.1	1.00	7.9	338436.2	341237	1.01	7.5	336488
M PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	159833.1	1.08	3.9	148134.2	169792.8	1.08	4.1	156981.2	169967.3	1.03	3.9	164712.2	176568.2	1.02	3.9	172721
69 Legal and accounting activities	36494.9	1.08	0.9	33888.6	40014.8	1.08	1.0	37089.8	35936.4	1.04	0.8	34567	37005.3	1.02	0.8	36283.6
70 Activities of head offices; management consultancy activities	40464.3	1.11	1.0	36574.6	39805.6	1.08	1.0	36801.3	41593.7	1.05	1.0	39683.2	43359.8	1.03	1.0	41918.4
71 Architectural and engineering activities; technical testing and analysis	34768.1	1.07	0.8	32385.9	37560.7	1.11	0.9	33773.4	39404.1	1.00	0.9	39368.2	39740	1.00	0.9	39718
72 Scientific research and development	19291.5	1.05	0.5	18291.6	21176	1.09	0.5	19354.6	22103	1.01	0.5	21900.3	22833	1.02	0.5	22466
73 Advertising and market research	12867.8	1.06	0.3	12151.9	14016.2	1.02	0.3	13776.9	15644	1.05	0.4	14851.2	17201	1.08	0.4	15977
74 Other professional, scientific and technical activities	12736.9	1.08	0.3	11792.9	13540.5	1.05	0.3	12859.9	11312.2	1.06	0.3	10684.8	12115.7	1.01	0.3	11952.5
75 Veterinary activities	3209.6	1.05	0.1	3048.8	3679	1.11	0.1	3325.3	3973.8	1.09	0.1	3657.5	4313.3	0.98	0.1	4405.5
N ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	75934	1.07	1.8	70660.4	82234.4	1.05	2.0	78337.9	87073.8	1.06	2.0	82491.1	93084.7	1.00	2.1	92868.7
77 Rental and leasing activities	9301.2	1.07	0.2	8670.5	10215.7	1.05	0.2	9691.1	11082	1.05	0.3	10604.4	10676	0.90	0.2	11918
78 Employment activities	10253.4	1.08	0.2	9491.7	11454.1	1.04	0.3	11026.2	13548	1.05	0.3	12964.5	17252.9	0.98	0.4	17682.9
79 Travel agency, tour operator and other reservation service and related activities	5475.2	1.02	0.1	5385.6	5802.3	1.07	0.1	5447	6281	1.21	0.1	5195.7	7129	1.12	0.2	6356
80 Security and investigation activities	18778.7	1.07	0.5	17482.9	19232.9	1.04	0.5	18437.6	18424.8	1.05	0.4	17508.3	19774.2	0.99	0.4	20007.3
81 Services to buildings and landscape activities	13492.7	1.09	0.3	12364.6	13023.3	1.05	0.3	12428.4	13569.9	1.05	0.3	12980.2	12457.6	0.96	0.3	12935.8
82 Office administrative, office support and other business support activities	18632.9	1.08	0.5	17265.2	22506.1	1.06	0.5	21307.6	24168.2	1.04	0.6	23238	25794.9	1.08	0.6	23968.8
O PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY	149914.5	1.02	3.6	147302.2	150080.3	1.01	3.6	148712.6	139316	0.93	3.2	150213.7	138917	0.99	3.1	140707.9

	2013				2014				2015				2016			
	Values, current prices	Price index	Share of GDP, %	Values at 2012 prices	Values, current prices	Price index	Share of GDP, %	Values at 2013 prices	Values, current prices	Price index	Share of GDP, %	Values at 2014 prices	Values, current prices	Price index	Share of GDP, %	Values at 2015 prices
84 Public administration and defence; compulsory social security	149914.5	1.02	3.6	147302.2	150080.3	1.01	3.6	148712.6	139316	0.93	3.2	150213.7	138917	0.99	3.1	140707.9
P EDUCATION	130778.7	1.04	3.2	126010.9	135994.1	1.01	3.3	134558	141396.4	1.11	3.3	127436.5	145219.3	0.98	3.2	148083.2
85 Education	130778.7	1.04	3.2	126010.9	135994.1	1.01	3.3	134558	141396.4	1.11	3.3	127436.5	145219.3	0.98	3.2	148083.2
Q HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	192830.6	1.03	4.7	186409.7	189013.9	0.98	4.5	193466.2	169934	0.91	3.9	187676.6	175030	1.04	3.9	167831
86 Human health activities	142793	1.04	3.5	137188.5	138382.1	0.97	3.3	142586.6	136443	0.97	3.2	140974.4	141257	1.02	3.1	137831
87 Residential care activities	16060.8	1.02	0.4	15786.7	14611.4	1.00	0.4	14657.4	8440.1	0.73	0.2	11563.2	8463.1	1.12	0.2	7584
88 Social work activities without accommodation	33976.7	1.02	0.8	33434.5	36020.4	0.99	0.9	36222.2	25050.9	0.71	0.6	35139	25309.9	1.13	0.6	22416
R ARTS, ENTERTAINMENT AND RECREATION	46677.4	1.04	1.1	44766	48785.1	1.07	1.2	45520.1	52421.6	1.12	1.2	46973.1	55036.7	1.00	1.2	55210.8
90 Creative, arts and entertainment activities	10798.4	1.13	0.3	9578.6	11052	1.04	0.3	10577	12425.5	1.21	0.3	10306.2	12884.4	1.03	0.3	12471.7
91 Libraries, archives, museums and other cultural activities	5887.4	1.03	0.1	5740.6	6070.4	1.03	0.1	5887.4	6214.7	1.11	0.1	5605.2	6140.8	1.02	0.1	6024.1
92 Gambling and betting activities	10892.9	1.08	0.3	10088.7	10723.2	1.05	0.3	10225.2	11529.6	1.07	0.3	10757.3	13025.6	0.94	0.3	13885.1
93 Sports activities and amusement and recreation activities	19098.7	0.99	0.5	19358.1	20939.5	1.11	0.5	18830.5	22251.8	1.10	0.5	20304.4	22985.9	1.01	0.5	22829.9
S OTHER SERVICE ACTIVITIES	54932.9	1.11	1.3	49491.2	57984.1	1.05	1.4	55292.9	58688.5	1.00	1.4	58802.4	61837	1.02	1.4	60417.2
94 Activities of membership organisations	14729.4	1.11	0.4	13307.6	16029.5	1.06	0.4	15181.2	17327.9	1.03	0.4	16766.5	17134	0.94	0.4	18175.1
95 Repair of computers and personal and household goods	8244.5	1.04	0.2	7907.5	8587.5	1.05	0.2	8161.6	8648.9	1.03	0.2	8424	9335	1.03	0.2	9023
96 Other personal service activities	31959.1	1.13	0.8	28276.1	33367.1	1.04	0.8	31950.2	32711.7	0.97	0.8	33611.9	35368	1.06	0.8	33219.1
T ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS- AND SERVICES-PRODUCING ACTIVITIES OF HOUSEHOLDS FOR OWN USE	8276.1	1.08	0.2	7686.8	10027	1.04	0.2	9635.7	6253.1	1.02	0.1	6114.9	6660	1.01	0.1	6608.6
97 Activities of households as employers of domestic personnel	5743.6	1.08	0.1	5328.7	7109.8	1.04	0.2	6835.6	4434	1.02	0.1	4335.9	4615.6	1.01	0.1	4580
98 Undifferentiated goods- and services-producing activities of private households for own use	2532.5	1.07	0.1	2358.1	2917.3	1.04	0.1	2800.1	1819.2	1.02	0.0	1778.9	2044.4	1.01	0.0	2028.6

Million RSD and % (2017-2019)

	2017				2018				2019			
	Values, current prices	Price index	Share of GDP, %	Values at 2012 prices	Values, current prices	Price index	Share of GDP, %	Values at 2013 prices	Values, current prices	Price index	Share of GDP, %	Values at 2014 prices
Total												
A AGRICULTURE, FORESTRY AND FISHING	3952669.8	1.03	83.0	3833941.5	4202926.3	1.02	82.9	4122275.9	4480899.8	1.02	82.7	4387956.1
01 Crop and animal production, hunting and related service activities	286315	1.05	6.0	273283.8	321765.1	0.98	6.3	329591.1	322559.9	1.02	6.0	316578.4
02 Forestry and logging	271622.3	1.05	5.7	259691.3	307134.1	0.98	6.1	314015.1	307237.5	1.02	5.7	301426
03 Fishing and aquaculture	12866.9	1.04	0.3	12404.2	12799	0.95	0.3	13470	13555.4	1.02	0.3	13238.7
B MINING AND QUARRYING	1825.9	1.54	0.0	1188.4	1832	0.87	0.0	2106	1767	0.92	0.0	1913.7
05 Mining of coal and lignite	101210.5	1.12	2.1	90137.4	100826.9	1.05	2.0	96418.7	104337.4	1.03	1.9	100878.4
06 Extraction of crude petroleum and natural gas	51453.2	1.00	1.1	51204.8	48298.4	1.01	1.0	47636.7	50692.4	1.05	0.9	48484.1
07 Mining of metal ores	6354.5	1.24	0.1	5122.8	7973.4	1.27	0.2	6264.9	7708.3	1.01	0.1	7627.2
08 Other mining and quarrying	27914	1.38	0.6	20217.7	28693.3	1.05	0.6	27414.7	27781.7	1.03	0.5	26984.4
09 Mining support service activities	7654.9	1.01	0.2	7563.9	7456.2	1.03	0.1	7247.9	8281.2	1.01	0.2	8193.9
C MANUFACTURING	7833.9	1.30	0.2	6028.2	8405.6	1.07	0.2	7854.4	9873.8	1.03	0.2	9588.8
10 Manufacture of food products	718230.2	1.02	15.1	700940.8	736961.1	1.01	14.5	728843.1	740321.2	1.00	13.7	738072
11 Manufacture of beverages	135800.4	1.01	2.9	134534.8	130218.4	0.98	2.6	132812.4	124624.5	1.02	2.3	122581.7
12 Manufacture of tobacco products	29079.3	1.00	0.6	29045.1	30321	1.02	0.6	29762.3	29383.6	1.00	0.5	29253.6
13 Manufacture of textiles	10883.7	1.15	0.2	9495.7	10038.6	1.03	0.2	9759.3	9835.8	1.03	0.2	9558.6
14 Manufacture of wearing apparel	14407.7	0.97	0.3	14801.1	13216.5	0.98	0.3	13494.3	13014.5	1.00	0.2	12998.2
15 Manufacture of leather and related products	28341.1	0.98	0.6	28911	29292.9	1.00	0.6	29200.3	27900.7	1.01	0.5	27687.5

16 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	9817.6	1.00	0.2	9865.1	9886.6	0.95	0.2	10394.4	9542.7	0.98	0.2	9726.1
17 Manufacture of paper and paper products	17570.2	1.00	0.4	17484.3	17535	0.99	0.3	17787	14580.2	1.02	0.3	14277.5
18 Printing and reproduction of recorded media	21727.3	1.01	0.5	21427	23256	1.02	0.5	22891	25611.3	1.00	0.5	25636.4
19 Manufacture of coke and refined petroleum products	9543.8	0.80	0.2	11982.8	9389	0.98	0.2	9593	9046.7	1.02	0.2	8829.6
20 Manufacture of chemicals and chemical products	51231.2	1.23	1.1	41786.8	65131	1.19	1.3	54874	58171.6	0.97	1.1	59850.7
21 Manufacture of basic pharmaceutical products and pharmaceutical preparations	44065.1	1.03	0.9	42948.8	43179	0.97	0.9	44539	39770.9	0.98	0.7	40651.5
22 Manufacture of rubber and plastic products	17224	1.00	0.4	17267.5	17076	0.98	0.3	17368	19366.7	1.01	0.4	19088.7
23 Manufacture of other non-metallic mineral products	60489.9	1.03	1.3	58698.1	61503	1.01	1.2	61055	63832.5	0.99	1.2	64581.7
24 Manufacture of basic metals	29376.8	1.02	0.6	28873.7	32055	1.02	0.6	31459	32888.4	1.02	0.6	32259.9
25 Manufacture of fabricated metal products, except machinery and equipment	8211.8	0.98	0.2	8369.5	9081	0.93	0.2	9723	9118.7	0.95	0.2	9622.6
26 Manufacture of computer, electronic and optical products	80192.5	1.02	1.7	78651.3	84913	1.04	1.7	81609	94746.3	1.01	1.7	93638.1
27 Manufacture of electrical equipment	16045.8	1.12	0.3	14388.2	14523	1.12	0.3	12971	15944.4	1.00	0.3	15873.1
28 Manufacture of machinery and equipment n.e.c.	25090.2	1.00	0.5	25061.1	23966	1.00	0.5	24031	23678.4	0.98	0.4	24197.7
29 Manufacture of motor vehicles, trailers and semi-trailers	29436.1	1.00	0.6	29362	31095	0.98	0.6	31831	32603	1.01	0.6	32346.4
30 Manufacture of other transport equipment	39794.8	1.02	0.8	39173.9	36127	0.95	0.7	38151	35229.2	0.99	0.7	35556.5
31 Manufacture of furniture	3162.8	1.05	0.1	3024.6	3470	0.99	0.1	3512	5064.9	1.08	0.1	4705.8
32 Other manufacturing	15799.1	1.00	0.3	15775.5	16615.1	0.98	0.3	16966.6	17461.6	1.01	0.3	17214.6
33 Repair and installation of machinery and equipment	10789.3	1.04	0.2	10344.2	12884	1.00	0.3	12855.4	14990.7	1.02	0.3	14642.9
D ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY	10149.6	1.05	0.2	9668.8	12189	1.00	0.2	12204	13913.9	1.05	0.3	13292.4

35 Electricity, gas, steam and air conditioning supply	171415.5	0.99	3.6	172767.3	173353	1.00	3.4	173020	171796.5	0.99	3.2	173580.9
E WATER SUPPLY; SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES	171415.5	0.99	3.6	172767.3	173353	1.00	3.4	173020	171796.5	0.99	3.2	173580.9
36 Water collection, treatment and supply	54714.9	1.00	1.1	54763.4	56115.1	0.99	1.1	56710.3	59874.3	1.01	1.1	59044.1
37 Sewerage	23588.8	1.02	0.5	23121.1	24052	0.98	0.5	24531.1	26375.2	1.01	0.5	26004.7
38 Waste collection, treatment and disposal activities; materials recovery	204.9	0.82	0.0	251.2	225.1	1.01	0.0	223.1	240.7	1.01	0.0	237.3
39 Remediation activities and other waste management services	30681.3	0.98	0.6	31218.3	31566.3	1.00	0.6	31711.7	32991.2	1.01	0.6	32536.1
F CONSTRUCTION	239.9	1.39	0.0	172.9	271.6	1.11	0.0	244.4	267.2	1.00	0.0	266
41 Construction of buildings	196119.4	1.05	4.1	186069	226215.6	1.03	4.5	220370.9	309202.7	1.02	5.7	302468.6
42 Civil engineering	59634.3	1.06	1.3	56486.5	68776.6	1.03	1.4	66986.1	93514.1	1.02	1.7	91640.1
43 Specialised construction activities	67065.7	1.05	1.4	63933.7	77558.1	1.03	1.5	75505.4	105454.5	1.02	1.9	103587.5
G WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	69419.4	1.06	1.5	65648.8	79881	1.03	1.6	77879.4	110234.1	1.03	2.0	107241
45 Wholesale and retail trade and repair of motor vehicles and motorcycles	545664.7	1.03	11.5	528619	581452.1	1.00	11.5	581618.1	616321.8	1.00	11.4	617729.5
46 Wholesale trade, except of motor vehicles and motorcycles	48158.5	0.99	1.0	48439.4	49601	0.94	1.0	52785	55055.6	0.99	1.0	55537.4
47 Retail trade, except of motor vehicles and motorcycles	295765.9	1.02	6.2	288765.8	316054.1	0.98	6.2	321408.1	330829.8	1.00	6.1	330349.1
H TRANSPORTATION AND STORAGE	201740.2	1.05	4.2	191413.8	215797	1.04	4.3	207425	230436.4	0.99	4.3	231843
49 Land transport and transport via pipelines	186122.1	1.05	3.9	177434	197881	1.01	3.9	196329.3	203035.9	0.97	3.7	208439
50 Water transport	109199.9	1.01	2.3	107919.5	120076	1.00	2.4	120499.2	123310.9	0.95	2.3	129733.7
51 Air transport	1753.1	1.06	0.0	1653.2	1714	0.87	0.0	1969	2292.8	1.06	0.0	2153.3
52 Warehousing and support activities for transportation	3208	0.99	0.1	3249.1	3003	1.05	0.1	2865	3260	1.00	0.1	3261.2

53 Postal and courier activities	50563	1.19	1.1	42649.7	51836	1.04	1.0	50058.1	52741.6	0.99	1.0	53115.3
I ACCOMMODATION AND FOOD SERVICE ACTIVITIES	21398.1	0.97	0.4	21962.4	21252	1.01	0.4	20938	21430.6	1.06	0.4	20175.5
55 Accommodation	65733	1.02	1.4	64407.6	70921.8	1.01	1.4	70201	75669.7	1.01	1.4	75209.7
56 Food and beverage service activities	16237.7	1.04	0.3	15625.9	18270.1	0.99	0.4	18426.8	19706.2	1.00	0.4	19712.8
J INFORMATION AND COMMUNICATION	49495.3	1.01	1.0	48781.7	52651.7	1.02	1.0	51774.2	55963.5	1.01	1.0	55497
58 Publishing activities	235559.9	1.04	4.9	227404.3	243433	0.98	4.8	248293.7	263899	1.00	4.9	263580.3
59 Motion picture, video and television programme production, sound recording and music publishing activities	13389.1	1.01	0.3	13245.8	12635	0.94	0.2	13421	13278.6	1.04	0.2	12785.5
60 Programming and broadcasting activities	6658.7	0.93	0.1	7188.2	6307.1	0.99	0.1	6340.7	6757.8	0.99	0.1	6829.1
61 Telecommunications	10253.7	0.96	0.2	10708.8	11322.9	1.07	0.2	10603.3	11556.1	1.04	0.2	11094.7
62 Computer programming, consultancy and related activities	106654.2	1.06	2.2	100874	109998	0.98	2.2	112128.9	114238.9	0.99	2.1	115435.2
63 Information service activities	92062.6	1.05	1.9	87923.2	97010.2	0.99	1.9	98013.2	110940.4	1.00	2.0	110441.3
K FINANCIAL AND INSURANCE ACTIVITIES	6541.7	0.88	0.1	7464.3	6159.8	0.79	0.1	7786.7	7127.3	1.02	0.1	6994.5
64 Financial service activities, except insurance and pension funding	134787.9	1.00	2.8	134491	152077	1.05	3.0	144925	170570.2	1.10	3.1	155638.4
65 Insurance, reinsurance and pension funding, except compulsory social security	100198.3	0.96	2.1	103876.5	111882	1.03	2.2	108378	130734.9	1.14	2.4	115016.2
66 Activities auxiliary to financial services and insurance activities	27418	1.16	0.6	23698.1	31790	1.10	0.6	28973	31438.7	0.98	0.6	32022.9
L REAL ESTATE ACTIVITIES	7171.7	1.04	0.2	6916.4	8405	1.11	0.2	7574	8396.6	0.98	0.2	8599.3
68 Real estate activities	348617.9	1.01	7.3	343791.1	356761.1	1.02	7.0	348652.1	373775.7	1.04	6.9	359683.9
M PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	348617.9	1.01	7.3	343791.1	356761.1	1.02	7.0	348652.1	373775.7	1.04	6.9	359683.9
69 Legal and accounting activities	191937.1	1.05	4.0	182202.1	197996.8	1.05	3.9	188154.3	210636.2	1.03	3.9	205024.8

70 Activities of head offices; management consultancy activities	41341.8	1.06	0.9	39088.6	40098.8	1.03	0.8	38966.4	41816.1	1.02	0.8	41010
71 Architectural and engineering activities; technical testing and analysis	45727.6	1.04	1.0	43949	47714.1	1.10	0.9	43446.7	50845.1	1.02	0.9	50040.7
72 Scientific research and development	45524.1	1.07	1.0	42701.3	48610	1.05	1.0	46215.1	51344.6	1.04	0.9	49401.4
73 Advertising and market research	24318.7	1.08	0.5	22617.2	26755	1.07	0.5	25064	29457.7	1.06	0.5	27778.6
74 Other professional, scientific and technical activities	17947.7	1.05	0.4	17045.7	17430	0.99	0.3	17523	18351.2	1.00	0.3	18270.9
75 Veterinary activities	12549.7	1.02	0.3	12328.1	12928.8	1.05	0.3	12350.2	14308.7	1.02	0.3	14089.8
N ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	4527.4	1.01	0.1	4472.2	4460.2	0.97	0.1	4588.8	4512.8	1.02	0.1	4433.4
77 Rental and leasing activities	103849.1	1.04	2.2	100215.4	115432.9	1.02	2.3	113131.6	121393.1	1.03	2.2	118037.4
78 Employment activities	12054.7	1.02	0.3	11767.1	12741	1.00	0.3	12694	14276	1.02	0.3	13956.8
79 Travel agency, tour operator and other reservation service and related activities	20355.2	1.02	0.4	20025.8	23174	0.98	0.5	23701.9	22690.8	1.02	0.4	22213.3
80 Security and investigation activities	7870.5	1.02	0.2	7696.5	8246	1.04	0.2	7949	9463.6	1.13	0.2	8409.5
81 Services to buildings and landscape activities	22234.1	1.05	0.5	21254.6	26104.5	1.03	0.5	25298.5	27301.1	1.02	0.5	26738
82 Office administrative, office support and other business support activities	13672.4	1.03	0.3	13239.1	12561.2	0.95	0.2	13247.4	12866.3	1.02	0.2	12615.1
O PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY	27662.2	1.05	0.6	26232.4	32606.3	1.08	0.6	30240.8	34795.2	1.02	0.6	34104.6
84 Public administration and defence; compulsory social security	150611.8	1.05	3.2	143628.9	172059	1.10	3.4	156965.7	199214	1.08	3.7	184933.2
P EDUCATION	150611.8	1.05	3.2	143628.9	172059	1.10	3.4	156965.7	199214	1.08	3.7	184933.2
85 Education	160508.8	1.04	3.4	154701.9	174045	1.07	3.4	162819.2	188120.7	1.03	3.5	181930.4
Q HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	160508.8	1.04	3.4	154701.9	174045	1.07	3.4	162819.2	188120.7	1.03	3.5	181930.4
86 Human health activities	176076.5	1.01	3.7	173979.5	196073	1.07	3.9	182417.4	216533.1	1.12	4.0	193301.5
87 Residential care activities	139453.1	1.00	2.9	139161.2	154250	1.06	3.0	144860.3	172227.9	1.11	3.2	154941.6

88 Social work activities without accommodation	9464.4	1.05	0.2	9000.1	11046.6	1.13	0.2	9777.3	11083.6	1.04	0.2	10632.9
ARTS, ENTERTAINMENT AND RECREATION	27159	1.05	0.6	25818.2	30776.4	1.11	0.6	27779.8	33221.6	1.20	0.6	27727
90 Creative, arts and entertainment activities	56111.1	1.00	1.2	55885.9	60000.4	1.02	1.2	58617.5	61737.9	0.99	1.1	62216.2
91 Libraries, archives, museums and other cultural activities	13365.6	0.98	0.3	13602.7	13306.1	1.00	0.3	13341.8	13937.4	1.01	0.3	13790.5
92 Gambling and betting activities	6408.1	1.01	0.1	6364.4	7496.3	1.09	0.1	6876.3	7566.9	1.01	0.1	7458.3
93 Sports activities and amusement and recreation activities	14052.7	1.05	0.3	13333.5	16475.8	1.07	0.3	15365.6	16983	0.96	0.3	17657.7
S OTHER SERVICE ACTIVITIES	22284.8	0.99	0.5	22585.3	22722.2	0.99	0.4	23033.8	23250.6	1.00	0.4	23309.7
94 Activities of membership organisations	59797.7	1.00	1.3	60000.6	60825	1.07	1.2	56956.6	63079.9	1.00	1.2	62849.6
95 Repair of computers and personal and household goods	17367.5	0.98	0.4	17672.3	19531	1.06	0.4	18423.9	20855.9	1.01	0.4	20699.6
96 Other personal service activities	9967.7	1.04	0.2	9609.3	8149	0.97	0.2	8363.9	8213.7	1.01	0.2	8140.8
T ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS- AND SERVICES-PRODUCING ACTIVITIES OF HOUSEHOLDS FOR OWN USE	32462.5	0.99	0.7	32719	33145	1.10	0.7	30168.8	34010.3	1.00	0.6	34009.2
97 Activities of households as employers of domestic personnel	9286.9	1.01	0.2	9218.5	8731.1	1.06	0.2	8240	8820.8	1.01	0.2	8759.7
98 Undifferentiated goods- and services-producing activities of private households for own use	6381.6	1.01	0.1	6333.3	6891.9	1.20	0.1	5724	6952.4	1.01	0.1	6903.9

Conclusions on GVA

The GVA growth for the period 2013 – 2019 at the country level is shown below:

Table 54: GVA growth for the period 2013 - 2019, Serbia

Industry NACE Rev2.	Growth 2013-2019 (%)
TOTAL	28.49
A Agriculture, Forestry and Fishing	5.57
B Mining and Quarrying	-7.05
C Manufacturing	11.45
D Electricity, Gas, Steam and Air Conditioning Supply	9.04
E Water Supply; Sewerage, Waste Management and Remediation Activities	24.87
F Construction	149.22
G Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	36.03
H Transportation and Storage	44.52
I Accommodation and Food Service Activities	56.47
J Information and Communication	45.34
K Financial and Insurance Activities	46.46
L Real Estate activities	18.08
M Professional, Scientific and Technical Activities	
N Administrative and Support Service Activities	59.87
O Public Administration and Defence; Compulsory Social Security	32.89
P Education	43.85
Q Human Health and Social Work Activities	12.29
R Arts, Entertainment and Recreation	32.27
S Other Service Activities	14.83
T Activities of Households as Employers; Undifferentiated Goods- and Services-Producing Activities of Households for own use	6.58

The overall GVA growth for the period 2013 – 2019 is 28.49 % at the country level. The highest GVA growth is shown by Construction with 149.22 %, while the negative growth is shown by Mining and Quarrying with -7.05 %.

4.4.7 Slovakia

Gross Value Added by economic sector

Slovakia's GDP: Gross Value Added (GVA) data was reported at 21,878.700 EUR mn in Sep 2020. This records an increase from the previous number of 18,885.300 EUR mn for Jun 2020. Slovakia's GDP: Gross Value Added (GVA) data is updated quarterly, averaging 14,187.700 EUR mn from Mar 1995 to Sep 2020, with 103 observations. The data reached an all-time high of 21,997.200 EUR mn in Sep 2019 and a record low of 3,998.800 EUR mn in Mar 1995. Slovakia's GDP: Gross Value Added (GVA) data remains active status in CEIC and is reported by Statistical Office of the Slovak Republic. The data is categorized under Global Database's Slovakia – Table SK.A015: ESA 2010: GDP: by Industry: Current Price.

Figure 44: GVA 2015-2019 Slovakia

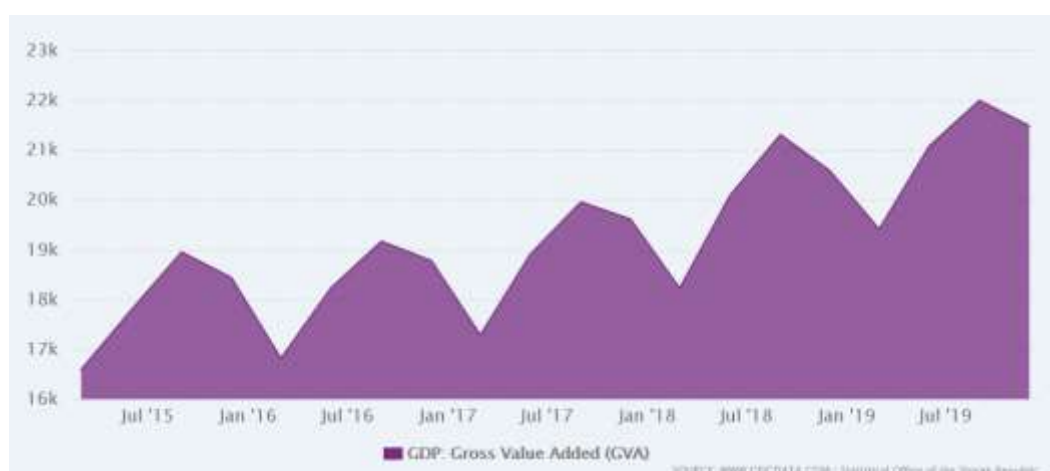


Table 55: GVA at basic prices by NUTS 2 regions - Slovakia

Bratislava	Gross value added in current. prices (million EUR)			
	2015	2016	2017	2018
Total	20 469	21 039	21 746	22 833
Agriculture, forestry, and fishing (A)	209	209	212	216
Total industry (B-E)	3 532	3 173	3 203	3 771
Industrial production (C)	3 166	2 847	2 841	3 400
Construction (F)	1 009	1 011	1 087	1 086
Wholesale and retail, engine repair, vehicles and motorcycles; transport and storage; accommodation, and food, services (G-I)	4 601	4 579	4 811	5 430
Information and communication (J)	1 025	1 235	1 251	1 253
Financial and insurance activities (K)	1 397	1 285	1 190	1 461
Real estate activities (L)	2 470	2 904	3 054	2 962
Professional, scientific, and technical activities; administrative services (M-N)	2 460	2 705	2 786	2 877
Public administration, defence, compulsory, socially, security; education; health and social work (O-Q)	2 449	2 703	2 913	3 056
Arts, entertainment, and recreation; other activities (R-U)	1 318	1 235	1 238	722

Western Slovakia	Gross value added in current prices (million EUR)			
	2015	2016	2017	2018
Total	22 057	22 467	23 109	24 650
Agriculture, forestry, and fishing (A)	853	916	807	848
Total industry (B-E)	7 892	7 574	7 592	8 410
Industrial production (C)	5 680	5 418	5 423	6 333
Construction (F)	1 491	1 598	1 824	1 745
Wholesale and retail, engine repair, vehicles and motorcycles; transport and storage; accommodation, and food, services (G-I)	4 007	3 780	3 952	4 353
Information and communication (J)	820	898	950	926
Financial and insurance activities (K)	456	445	410	470
Real estate activities (L)	1 303	1 626	1 761	1 852
Professional, scientific, and technical activities; administrative services (M-N)	1 659	1 635	1 635	1 843
Public administration, defence, compulsory, socially, security; education; health and social work (O-Q)	3 067	3 464	3 614	3 856
Arts, entertainment, and recreation; other activities (R-U)	508	530	564	349
Central Slovakia	Gross value added in current prices (million EUR)			
	2015	2016	2017	2018
Total	14 233	14 341	14 828	15 751
Agriculture, forestry and fishing (A)	527	576	543	557
Total industry (B-E)	3 538	3 486	3 499	4 019
Industrial production (C)	3 140	3 081	3 113	3 648
Construction (F)	1 523	1 615	1 676	1 731
Wholesale and retail, engine repair, vehicles and motorcycles; transport and storage; accommodation, and food, services (G-I)	2 616	2 360	2 514	2 687
Information and communication (J)	610	627	700	670
Financial and insurance activities (K)	333	315	303	345
Real estate activities (L)	1 135	1 263	1 274	1 396
Professional, scientific, and technical activities; administrative services (M-N)	1 455	1 455	1 651	1 781
Public administration, defence, compulsory, socially, security; education; health and social work (O-Q)	1 950	2 198	2 204	2 284
Arts, entertainment and recreation; other activities (R-U)	545	445	464	283
Eastern Slovakia	Gross value added in current prices (million EUR)			
	2015	2016	2017	2018
Total	15 017	15 101	16 104	17 261
Agriculture, forestry, and fishing (A)	503	479	463	499
Total industry (B-E)	3 741	3 832	3 893	4 462
Industrial production (C)	3 573	3 681	3 762	4 272
Construction (F)	1 613	1 378	1 706	1 813

Wholesale and retail, engine repair, vehicles and motorcycles; transport and storage; accommodation, and food, services (G-I)	2 988	2 927	3 030	3 216
Information and communication (J)	759	784	865	937
Financial and insurance activities (K)	260	248	232	233
Real estate activities (L)	1 325	1 363	1 613	1 693
Professional, scientific, and technical activities; administrative services (M-N)	1 367	1 405	1 554	1 666
Public administration, defence, compulsory, socially, security; education; health and social work (O-Q)	1 975	2 216	2 290	2 430
Arts, entertainment, and recreation; other activities (R-U)	486	469	458	311

Table 56: Gross value added by economic activity 2015 – 2019 Slovakia

Indicator / Activity	Year				
	2015	2016	2017	2018	2019
(01) Crop and animal production, hunting	1 483,91	1 566,22	1 405,93	1 501,95	1 676,54
(02) Forestry and logging	571,7	592,16	607,94	624,75	633,96
(03) Fisheries and aquaculture	37,31	23,16	14,09	3,29	4,31
(05) Coal and lignite mining	63,18	60,72	64,84	57,7	58,05
(06) Extraction of crude petroleum and natural gas	0,56	0,22	0,3	0,26	0,28
(07) Mining of metal ores	13,58	13,37	12,17	13,24	10,3
(08) Other mining and quarrying	60,24	73	76,25	106,07	93,56
(09) Support activities for mining	216,22	170,23	164,63	151,52	158,2
(10) Production of food	767,15	637,96	662,52	856,28	894,01
(11) Production of beverages	187,89	193,14	192,42	206,42	211,76
(12) Production of tobacco products	0,19	0,77	1,06	0,02	0,09
(13) Production of textiles	163,74	172,69	173,7	184,54	181,85
(14) Production of wearing apparel	241,62	266,77	267,14	275,23	274,95
(15) Production of leather and leather products	258,4	167,94	96,35	203,48	183,5
(16) Processing of wood, cork and straw products	709,38	646,1	781	720,65	729,64
(17) Production of paper and paper products	342,82	363,73	318,54	333,02	309,8
(18) Printing and reproduction of recording media	161,38	158,55	169,77	195,2	186
(19) Production of coal and refined petroleum products	330,1	42,77	336,24	301,72	287,7
(20) Production of chemicals and chemical products	646,14	609,04	588,78	532,7	601,91
(21) Production of pharmaceutical products	55,09	78,79	68,89	69,05	71,02
(22) Production of rubber and plastic products	1 303,65	1 382,80	1 360,79	1 369,71	1 418,43
(23) Production of other non-metallic mineral products	523,47	573,94	623,86	628,53	689,71
(24) Production and processing of metals	866,23	940,41	951,66	1 102,86	715,11
(25) Production of metal structures, except machinery	1 954,82	1 957,26	2 184,82	2 320,24	2 317,04
(26) Production of computer, electronic and optical products	625,5	647,13	542,25	560,77	473,16
(27) Production of electrical equipment	873,37	868,65	945,62	1 002,60	1 078,23
(28) Production of machinery and equipment i. n.	1 487,79	1 288,60	1 086,22	1 497,26	1 538,21

(29) Production of motor vehicles and trailers	2 945,91	2 914,99	2 717,40	3 398,71	3 628,81
(30) Production of other transport equipment	139,59	94,26	88,02	106,66	119,6
(31) Production of furniture	264,78	302	300,34	290,97	293,58
(32) Other production	218,01	202,2	192,44	219,08	234,39
(33) Repair and installation of machines and devices	492,94	517,4	540,7	593,32	591,08
(35) Electricity, gas, steam, and air supply	2 098,07	2 123,99	2 042,68	1 835,42	2 549,07
(36) Collection, treatment, and supply of water	287,28	281,15	276,32	276,09	270,99
(37) Wastewater treatment and disposal	18,26	20,14	19,49	23,25	24,46
(38) Waste collection and disposal, recycling	379,2	344,83	358,72	394,07	413,25
(39) Recovery and other waste management activities	6,34	9,86	6,72	6,39	4,99
(41) Construction of buildings	1 926,20	1 949,87	2 036,22	2 058,65	1 955,20
(42) Civil engineering	747,8	666,69	797,51	849,14	898,99
(43) Specialized construction works	2 961,16	2 985,51	3 456,94	3 453,91	3 491,92
(45) Wholesale, retail trade and repair of vehicles	763,2	826,3	912,52	972,4	1 002,60
(46) Wholesale trade, except of motor vehicles and motorcycles	3 994,60	3 449,86	3 648,09	3 595,33	3 743,54
(47) Retail trade, except of motor vehicles and motorcycles	3 133,56	3 309,22	3 556,72	3 790,69	3 734,65
(49) Land transport and transport via pipelines	3 061,20	3 202,58	3 101,77	3 050,36	3 268,47
(50) Water transport	16,54	16,36	16,33	12,37	15,46
(51) Air transport	39,29	43,22	39,85	29,32	24,99
(52) Warehousing and support activities for transportation	1 899,42	1 417,09	1 604,92	1 709,39	1 761,19
(53) Postal and courier services	263,21	269,6	287,25	286,05	323,31
(55) Accommodation	346,46	368,25	372,47	367,07	423,37
(56) Restaurant and hospitality activities	696,11	744,47	759,95	861,33	887,61
(58) Publishing activities	225,14	214,52	195,87	219,63	215,28
(59) Production of films, videos, and TV programs	161,16	169,62	169,68	187,4	164,98
(60) Radio and television broadcasting activities	123,98	145,85	164,92	100,01	113,73
(61) Telecommunications	1 076,29	1 065,29	1 126,76	1 129,48	1 231,65
(62) Computer programming, consultancy	1 274,96	1 550,33	1 568,70	1 615,10	1 943,73
(63) Information services	353,05	399,31	447,55	455,38	482,64
(64) Financial services, except insurance and pension funding. security	1 889,43	1 651,65	1 548,45	1 887,24	1 986,34
(65) Insurance, reinsurance, and pension funding	321,17	323,4	245,72	277,06	180,48
(66) Activities auxiliary to financial services and insurance activities	236,2	324,51	344,69	380	450,66
(68) Real estate activities	6 237,31	7 157,68	7 727,04	8 262,73	8 890,56
(69) Legal and accounting activities	1 114,25	1 217,73	1 413,80	1 321,27	1 273,04
(70) Company management, consulting	992,61	1 255,52	1 205,37	1 331,25	1 296,30
(71) Architectural and engineering activities	994,83	1 080,05	1 164,53	1 212,16	1 187,37
(72) Scientific research and development	225,93	259	244,83	284,48	264,76
(73) Advertising and market research	713,63	764,59	728,17	708,41	732,74
(74) Other professional, scientific, and technical activities	451,38	498,23	365,63	384,99	367,36
(75) Veterinary activities	38,97	43,44	44,61	43,38	44,98
(77) Renting and leasing	349,95	404,51	396,45	416,86	483,45

(78) Job placement	313,52	309,38	322,95	303,25	305,56
(79) Activities of travel agencies and tour operators	181,26	183,62	219,92	217,69	208,15
(80) Security and investigation services	199,13	233,65	242,6	267,94	289,26
(81) Equipment maintenance and landscaping	273,82	320,91	424,94	385,1	373,47
(82) Administrative and other ancillary activities	1 092,90	632,09	892,29	1 208,55	1 178,74
(84) Public administration and defence; compulsory social security	4 153,95	4 898,76	5 126,11	5 578,83	6 154,62
(85) Education	2 614,25	2 747,47	2 877,04	3 120,76	3 379,31
(86) Healthcare	2 216,88	2 450,89	2 483,55	2 576,84	2 938,18
(87) Residential care	341,08	366,28	372,1	401,97	466,99
(88) Social work without accommodation	115,04	117,8	163,06	145,83	142,3
(90) Creative, artistic and entertainment activities	125,39	167,26	182,63	185,72	185,17
(91) Activities of libraries, museums, and other cultural establishments	134,59	151,88	152,65	166,62	181,62
(92) Gambling and betting activities	1 572,75	1 232,98	1 241,51	1 261,73	1 203,78
(93) Sports, entertainment, and recreation activities	245,11	273	232,16	257,52	261,08
(94) Activities of membership organizations	161,99	206,73	213,56	204,25	207,15
(95) Repair of computers and household goods	102,83	110,04	109,11	115,04	107,76
(96) Other personal services	481,61	495,68	550,93	560,89	590,15
(97) Activities of households as employed. domestic staff	35,24	42,45	39,59	42,53	43,4
Gross value added by economic activities TOTAL	71 786,17	73 022,03	75 780,61	80 216,93	83 985,54

Conclusions on the GVA

Gross Value Added

Table 57: GVA growth for the period 2013 - 2019, Slovakia

Indicator / Activity	Difference 2015-2018	2015	2019
(01) Crop and animal production, hunting	12,98%	1 483,91	1 676,54
(02) Forestry and logging	10,89%	571,7	633,96
(03) Fisheries and aquaculture	-88,45%	37,31	4,31
(05) Coal and lignite mining	-8,12%	63,18	58,05
(06) Extraction of crude petroleum and natural gas	-50,00%	0,56	0,28
(07) Mining of metal ores	-24,15%	13,58	10,3
(08) Other mining and quarrying	55,31%	60,24	93,56
(09) Support activities for mining	-26,83%	216,22	158,2
(10) Production of food	16,54%	767,15	894,01
(11) Production of beverages	12,70%	187,89	211,76
(12) Production of tobacco products	-52,63%	0,19	0,09
(13) Production of textiles	11,06%	163,74	181,85
(14) Production of wearing apparel	13,79%	241,62	274,95
(15) Production of leather and leather products	-28,99%	258,4	183,5
(16) Processing of wood, cork, and straw products	2,86%	709,38	729,64

(17) Production of paper and paper products	-9,63%	342,82	309,8
(18) Printing and reproduction of recording media	15,26%	161,38	186
(19) Production of coal and refined petroleum products	-12,84%	330,1	287,7
(20) Production of chemicals and chemical products	-6,85%	646,14	601,91
(21) Production of pharmaceutical products	28,92%	55,09	71,02
(22) Production of rubber and plastic products	8,80%	1 303,65	1 418,43
(23) Production of other non-metallic mineral products	31,76%	523,47	689,71
(24) Production and processing of metals	-17,45%	866,23	715,11
(25) Production of metal structures, except machinery	18,53%	1 954,82	2 317,04
(26) Production of computer, electronic and optical products	-24,35%	625,5	473,16
(27) Production of electrical equipment	23,46%	873,37	1 078,23
(28) Production of machinery and equipment i. n.	3,39%	1 487,79	1 538,21
(29) Production of motor vehicles and trailers	23,18%	2 945,91	3 628,81
(30) Production of other transport equipment	-14,32%	139,59	119,6
(31) Production of furniture	10,88%	264,78	293,58
(32) Other production	7,51%	218,01	234,39
(33) Repair and installation of machines and devices	19,91%	492,94	591,08
(35) Electricity, gas, steam and air supply	21,50%	2 098,07	2 549,07
(36) Collection, treatment and supply of water	-5,67%	287,28	270,99
(37) Wastewater treatment and disposal	33,95%	18,26	24,46
(38) Waste collection and disposal, recycling	8,98%	379,2	413,25
(39) Recovery and other waste management activities	-21,29%	6,34	4,99
(41) Construction of buildings	1,51%	1 926,20	1 955,20
(42) Civil engineering	20,22%	747,8	898,99
(43) Specialized construction works	17,92%	2 961,16	3 491,92
(45) Wholesale, retail trade and repair of vehicles	31,37%	763,2	1 002,60
(46) Wholesale trade, except of motor vehicles and motorcycles	-6,28%	3 994,60	3 743,54
(47) Retail trade, except of motor vehicles and motorcycles	19,18%	3 133,56	3 734,65
(49) Land transport and transport via pipelines	6,77%	3 061,20	3 268,47
(50) Water transport	-6,53%	16,54	15,46
(51) Air transport	-36,40%	39,29	24,99
(52) Warehousing and support activities for transportation	-7,28%	1 899,42	1 761,19
(53) Postal and courier services	22,83%	263,21	323,31
(55) Accommodation	22,20%	346,46	423,37
(56) Restaurant and hospitality activities	27,51%	696,11	887,61
(58) Publishing activities	-4,38%	225,14	215,28
(59) Production of films, videos, and TV programs	2,37%	161,16	164,98
(60) Radio and television broadcasting activities	-8,27%	123,98	113,73
(61) Telecommunications	14,43%	1 076,29	1 231,65
(62) Computer programming, consultancy	52,45%	1 274,96	1 943,73
(63) Information services	36,71%	353,05	482,64

(64) Financial services, except insurance and pension funding, security	5,13%	1 889,43	1 986,34
(65) Insurance, reinsurance, and pension funding	-43,81%	321,17	180,48
(66) Activities auxiliary to financial services and insurance activities	90,80%	236,2	450,66
(68) Real estate activities	42,54%	6 237,31	8 890,56
(69) Legal and accounting activities	14,25%	1 114,25	1 273,04
(70) Company management, consulting	30,60%	992,61	1 296,30
(71) Architectural and engineering activities	19,35%	994,83	1 187,37
(72) Scientific research and development	17,19%	225,93	264,76
(73) Advertising and market research	2,68%	713,63	732,74
(74) Other professional, scientific, and technical activities	-18,61%	451,38	367,36
(75) Veterinary activities	15,42%	38,97	44,98
(77) Renting and leasing	38,15%	349,95	483,45
(78) Job placement	-2,54%	313,52	305,56
(79) Activities of travel agencies and tour operators	14,84%	181,26	208,15
(80) Security and investigation services	45,26%	199,13	289,26
(81) Equipment maintenance and landscaping	36,39%	273,82	373,47
(82) Administrative and other ancillary activities	7,85%	1 092,90	1 178,74
(84) Public administration and defence; compulsory social security	48,16%	4 153,95	6 154,62
(85) Education	29,26%	2 614,25	3 379,31
(86) Healthcare	32,54%	2 216,88	2 938,18
(87) Residential care	36,92%	341,08	466,99
(88) Social work without accommodation	23,70%	115,04	142,3
(90) Creative, artistic and entertainment activities	47,68%	125,39	185,17
(91) Activities of libraries, museums, and other cultural establishments	34,94%	134,59	181,62
(92) Gambling and betting activities	-23,46%	1 572,75	1 203,78
(93) Sports, entertainment, and recreation activities	6,52%	245,11	261,08
(94) Activities of membership organizations	27,88%	161,99	207,15
(95) Repair of computers and household goods	4,79%	102,83	107,76
(96) Other personal services	22,54%	481,61	590,15
(97) Activities of households as employed. domestic staff	23,16%	35,24	43,4
Gross value added by economic activities TOTAL	16,99%	71 786,17	83 985,54

More than 25% of the total gross value added of Slovakia is generated around the capital city, Bratislava and this share is increasing year-on-year. Professional, scientific, and technical activities, arts, entertainment, and recreation, and partly information and communication, have a growing share in the creation of GVA. The most significant decrease has been noticed for Fisheries and aquaculture (-88%). 90,80% has been noticed for Financial and insurance services and activities. For transportation and cargo flows important increases are 31,76% for Production of other non-metallic mineral products and 55,31% for category Other mining and quarrying.

5 Trade flows 2015 – 2019

5.1 Austria

5.1.1 Imports and Exports by category of goods, in tonnes per year

Modal Split

In 2019 the transport volume of freight transport amounted to 709 million tonnes in Austria. 84% thereof were transported on the road, 15% on rail and 1% on the Danube.

About 65% (386 million tonnes) of the tonnage on the road were transported within Austria, 12% (71 million tonnes) were received from other countries and 11% (63 million tonnes) were dispatched from Austria. Exactly 13% (78 million tonnes) were transported through Austria.

Figure 45: Modal split 2019

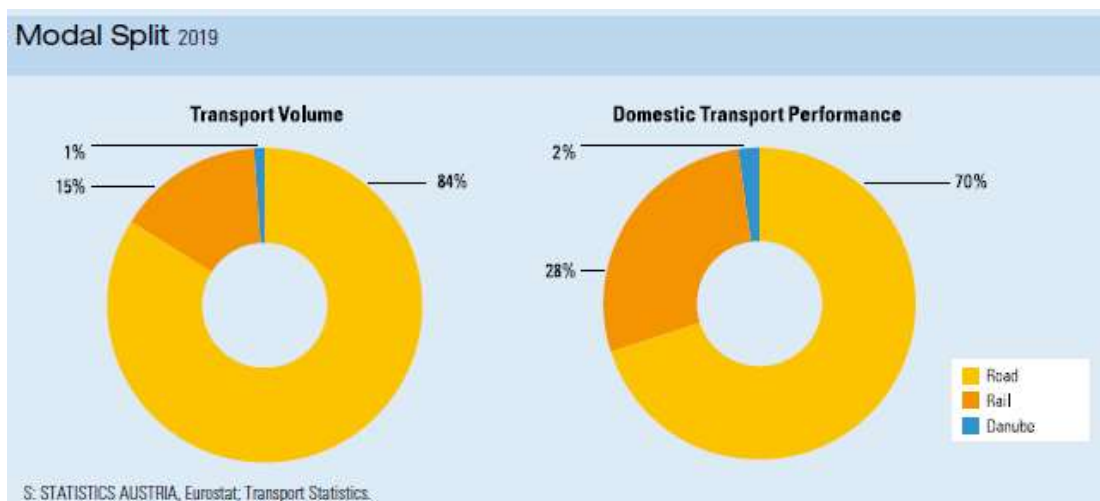


Figure 46: Transport volume road 2019

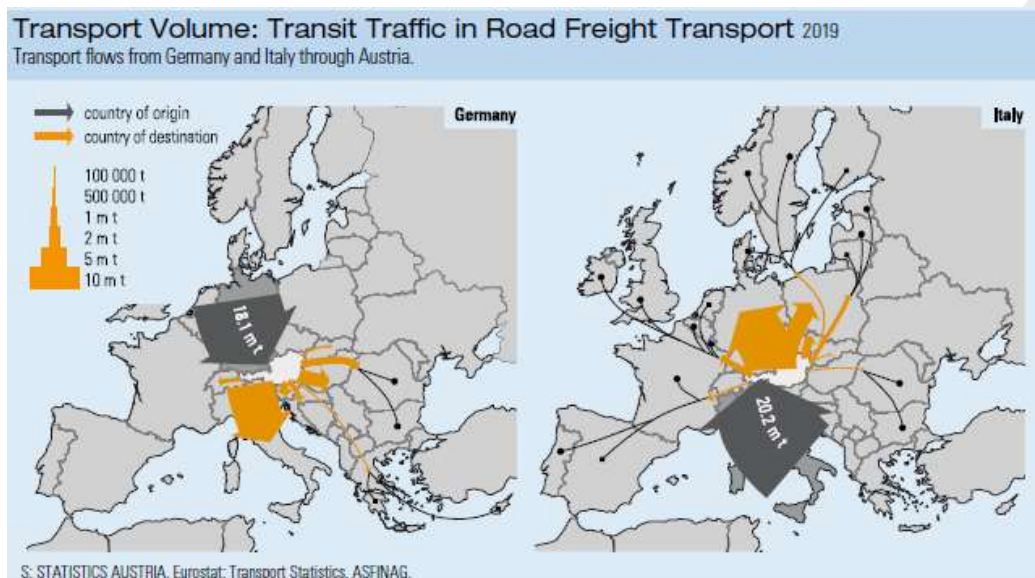
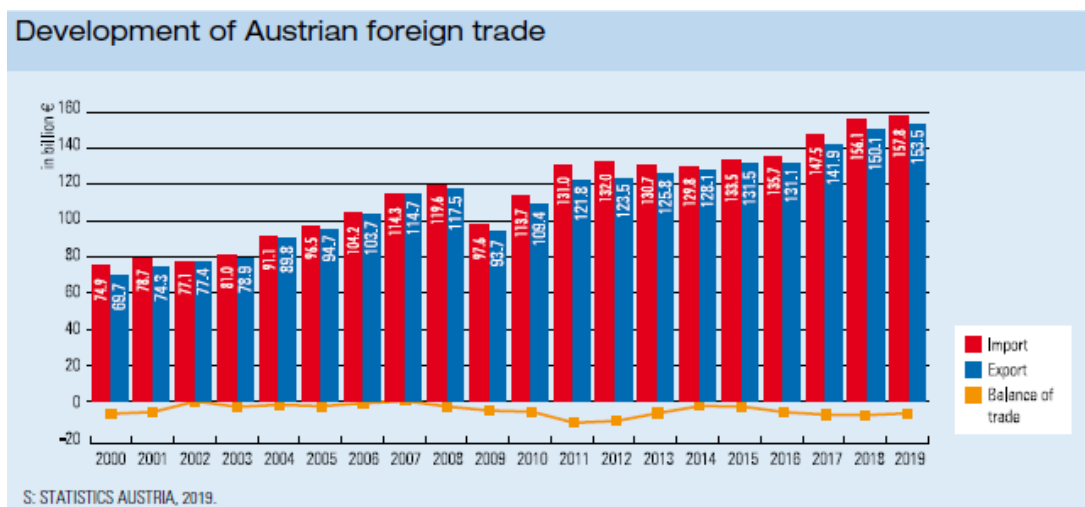


Table 58: Foreign trade by goods 2019, Austria

SITC 4 Classification	in total			EU-28		
	Import	Export	Balance of trade	Import	Export	Balance of trade
	in billion €					
In total	157.8	153.5	-4.3	110.7	106.9	-3.7
0 Food and live animals	10.2	8.6	-1.6	8.4	7.2	-1.3
1 Beverages and tobacco	1.0	2.8	1.8	0.9	1.2	0.4
2 Crude materials	6.1	4.7	-1.3	4.4	3.5	-0.9
3 Mineral fuels, lubricants and related materials	12.3	3.6	-8.7	6.1	3.1	-3.0
4 Animal and vegetable oils, fats and waxes	0.4	0.3	-0.2	0.4	0.2	-0.2
5 Chemicals and related products, n.e.s.	21.8	21.6	-0.3	14.4	14.1	-0.3
6 Manufactured goods	24.4	31.9	7.4	19.5	23.7	4.2
7 Machinery and transport equipment	56.8	61.8	4.9	41.8	40.5	-1.4
8 Miscellaneous manufactured articles	23.7	17.3	-6.4	14.2	12.5	-1.8
9 Commodities, n.e.s.	0.9	1.1	0.1	0.4	0.9	0.5

S: STATISTICS AUSTRIA, January to December 2019. SITC-revised 4; rounding differences.

Figure 47: Development foreign trade AT



Total transport volume in 2019 784.0 million tons; Total transport performance 95.5 billion tkm

In 2019, the total transport volume of all modes of transport in Austria was 784.0 million t. This corresponds to an increase of 3.0% compared to the previous year (2018: 761.0 million t). 398.4 million t of the total transport volume were produced by goods vehicles registered in Austria, which corresponds to an increase of 2.3% (2018: 389.5 million t). Foreign goods vehicles transported 199.6 million t on Austria's roads and recorded the greatest increase of 8.2% compared to the previous year (2018: 184.4 million t). Overall, the road transport volume resulted in a transport volume of 598.0 million t and an increase of 4.2% (2018: 574.0 million t). Transports on the Danube waterway rose by 18.2% to 8.5 million t in 2019 after a year characterized by low water and thus a reduced transport volume (7.2 million t). In the case of pipelines, the transport volume only increased slightly by 0.6% to 74.6 million t (2018: 74.3 million t). The only decrease in transport volume was recorded on the rail in 2019. The transported tonnage decreased by 2.6% to 102.6 million t (2018: 105.3 million t). A comparatively low transport volume, roughly unchanged from the previous year, of 0.2 million t was achieved in aviation.

In relation to the NST 2007 goods classification, the most common goods in Division 3 “Stones, earth, mining products; Peat”. 88.8% or 165.7 million t of this was accounted for by road goods vehicles registered in Austria. Goods from Department 2 “Coal; crude oil and natural gas”(74.7 million t) naturally accounted for a high proportion of 94.2% of the total tonnage (79.3 million t) of this department. Department 9 “Otherwise. Mineral products” was the third largest, of the total transport volume (60.9 million t), 86.3% (52.6 million t) were again transported by Austrian road freight vehicles (Figure 32). In the “Not assignable” category, values for third countries or transit European vehicles are shown cumulatively, as evaluations according to goods type are not possible for these areas.

Figure 48: Transported goods by modality in AT 2019

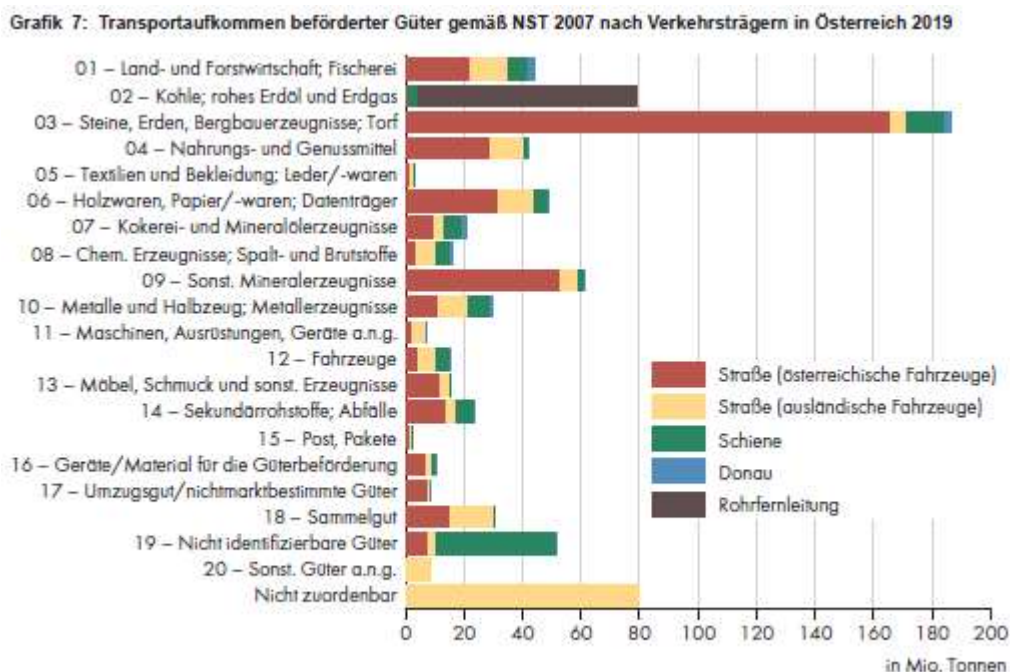


Table 59: Transported goods by modality in AT 2019

Übersicht 2: Transportaufkommen der wichtigsten Verkehrsträger gemäß NST 2007 in Österreich 2019

Abteilung der NST 2007	Straßengüterverkehr ausländische Fahrzeuge ¹⁾		Straßengüterverkehr inländische Fahrzeuge ¹⁾		Schienengüterverkehr		Güterverkehr auf der Donau	
	1.000 Tonnen	Veränderung zum Vorjahr in %	1.000 Tonnen	Veränderung zum Vorjahr in %	1.000 Tonnen	Veränderung zum Vorjahr in %	1.000 Tonnen	Veränderung zum Vorjahr in %
D1 Land- und Forstwirtschaft, Fischerei	12.724	0,4%	22.085	-2,4	7.210	-10,7	2.029	63,1
D2 Kohle, rohes Erdöl und Erdgas	212	-9,9%	1.012	50,0	3.333	5,4	54	-44,8
D3 Steine, Erden, Bergbauerzeugnisse; Torf	5.873	-4,7%	165.743	3,7	12.369	6,1	2.731	10,5
D4 Nahrungs- und Genussmittel	11.861	7,2%	28.656	1,5	1.325	-1,6	287	5,2
D5 Textilien und Bekleidung; Leder/-waren	1.650	-2,8%	1.241	1,6	5	92,8	-	-
D6 Holzwaren, Papier/-waren; Daltonträger	12.529	11,5%	31.446	1,5	4.899	-9,0	26	-6,5
D7 Kokerel- und Mineralerzeugnisse	3.566	2,1%	9.947	7,9	6.013	3,8	1.392	6,4
D8 Chem. Erzeugnisse; Spalt- und Brutstoffe	6.949	-1,4%	3.367	-11,1	4.709	1,3	842	59,9
D9 Sonst. Mineralerzeugnisse	6.664	16,6%	52.592	5,8	1.670	8,4	14	-62,5
D10 Metalle und Halbzeug; Metallerzeugnisse	10.229	12,2%	11.080	-3,8	7.364	-17,1	1.003	-7,9
D11 Maschinen, Ausrüstungen, Geräte a.n.g.	4.366	28,3%	2.448	13,6	366	-24,1	32	6,1
D12 Fahrzeuge	6.019	35,6%	4.415	19,7	4.927	11,0	28	14,6
D13 Möbel, Schmuck und sonst. Erzeugnisse	3.674	-22,1%	11.664	2,3	11	-58,1	-	-
D14 Sekundärrohstoffe; Abfälle	3.702	3,5%	13.967	-4,2	6.072	-6,6	18	123,2
D15 Post, Pakete	1.235	-28,0%	1.318	-34,3	0	-100,0	-	-
D16 Geräte/Material für die Güterbeförderung	2.289	7,5%	7.105	-1,4	1.201	4,8	8	-16,2
D17 Umzugsgut/nicht marktbestimmte Güter	421	-5,6%	7.853	-1,4	1	100,0	5	-75,4
D18 Sammelgut	15.300	19,0%	14.958	-1,4	93	-21,6	-	-
D19 Nicht identifizierbare Güter	2.904	34,7%	7.480	-1,4	41.008	-2,2	44	14,1
D20 Sonst. Güter a.n.g.	8.519	7,6%	-	-	-	-	-	-
Nicht zuordenbar	79.479	5,9	-	-	-	-	-	-
Insgesamt	200.167	7,1	388.375	2,3	102.575	-2,6	8.512	18,2

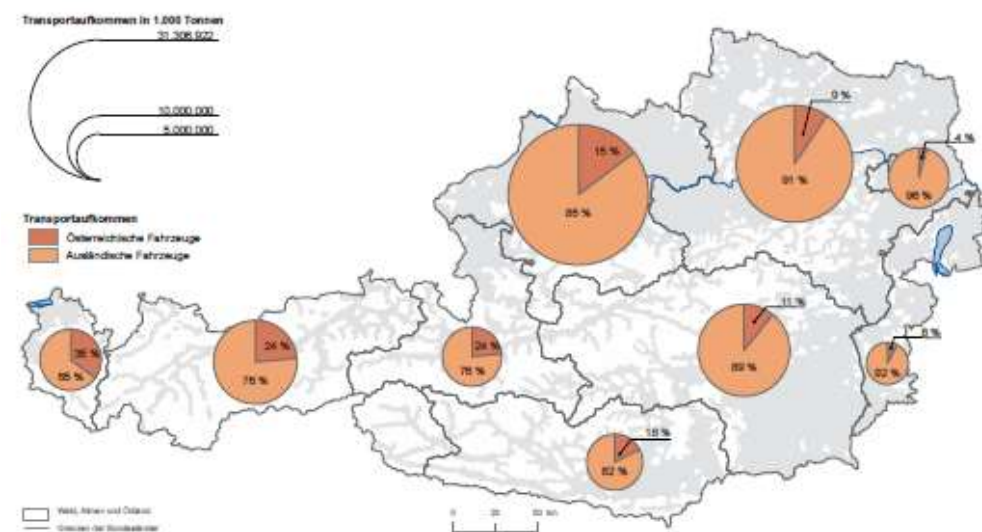
Q: STATISTIK AUSTRIA, Verkehrsstatistik; Eurostat (Tabelle D1.1 und D5); ASPINAQ. - Die Langtitel der NST 2007 Abteilungen befinden sich im Anhang. Rundungsdifferenzen möglich. - 1) Güterarten für die Verkehrsart Transit sowie für Drittstaaten nicht zuordenbar. - 2) Inländische Fahrzeuge ohne Sonstiger Auslandsverkehr.

In the case of cross-border traffic (receipt and dispatch), it was found that around two thirds (66.6%) of the transport volume in the federal states of Upper Austria (31.3 million t or 23.4%), Lower Austria (24.7 million t or 18.4%), Styria (17.7 million t or 13.2%) and Tyrol (15.4 million t or 11.5%) were unloaded and loaded.

With regard to the transport performance in cross-border traffic, less than two thirds (64.4%) of the ton-kilometers were in the federal states of Lower Austria (4.0 billion tkm or 22.9%) and Upper Austria (4.0 billion tkm or 22.8%) and Styria (3.3 billion tkm or 18.7%).

Cross-border transport volume (receipt + dispatch) in road freight traffic by Austrian federal states in 2019

Figure 49: Transport volume share by NUTS 2 2019



Q: STATISTIK AUSTRIA, Verkehrsstatistik; Eurostat; ASPINAQ.

Austrian foreign trade in 2019 (final results)

Overview

Compared to year 2018, the turnover of the Austrian foreign trade of the year 2019 (final results) indicated an increase with regard to imports as well as to exports. Austrian imports of goods rose by 1.1% to €157.82 bn; Austrian exports grew by 2.3% to €153.50 bn. Foreign trade with EU member states showed a growth in both trade flows (intra-EU-imports: +0.3% to €110.66 bn; intra-EU-exports: +1.9% to €106.94 bn). Imports and exports from third-countries rose (extra-EU-imports: +3.1% to €47.16 bn; extra-EU-exports: +3.2% to €46.56 bn). The Austrian trading of goods balance registered a deficit of €4.32 bn in the year 2019.

Trade according to goods categories

Imports of Machinery and transport equipment increased by 3.7% to €56.83 bn and showed the strongest plus in terms of value and the highest value for imports. The value of imports of Miscellaneous manufactured articles increased by 3.1% to €23.70 bn.

The highest increase for exports revealed Chemicals and related products (+8.4 to €21.57 bn), Machinery and transport equipment (+2.5% to €61.76 bn) and Food and live animals (+5.6% to €8.56 bn).

Trade with the EU-28

Overall, trade with the EU member states accounted for 70.1% of total imports (year 2018: 70.7%) and 69.7% of total exports (year 2018: 69.9%). In 2019 as a whole, imports of goods from the EU partner countries rose by 0.3% to €110.66 bn. Exports of goods to these countries increased by 1.9% to €106.94 bn. Compared with the previous year; the deficit in trade with the EU declined from €5.38 bn to €3.72 bn.

The most important EU-trading partners for imports were Germany, Italy, Czech Republic, Poland, Hungary and Netherlands. One half of these countries showed a plus for imports. Germany, Italy, France, Hungary, Czech Republic and Poland played an important role in Austrian exports to the EU Member States. With the exception of Germany, Italy and Czech Republic these countries recorded an increase for exports.

The largest growth with respect to imports and exports was recorded for Machinery and transport equipment (intra-EU-imports: +1.7% to €41.83 bn; intra-EU-exports: +2.7% to €40.46 bn). The value of imports of Food and live animals increased by 4.0% to €8.43 bn. Chemicals and related products showed the second-largest growth for exports (+7.0% to €14.11 bn).

Trade with non-EU countries

The value of imports from non-EU countries increased by 3.1% to €47.16 bn; exports grew by 3.2% to €46.56 bn. The balance of trade with non-EU countries showed a deficit of €0.60 bn. In the year 2019 an amount of 29.9% of all imports were registered with third countries while the share of exports was 30.3%.

China, the United States and Switzerland were the most important non-EU-trading partners on the import side and showed positive change rates compared with 2018 (except Switzerland). On the export side the three major non-EU countries are congruent: United States followed by Switzerland and China. The export values of these three third countries increased (exception: United States -3.4% to €10.24 bn).

The increase of import values of Machinery and transport equipment (+9.6% to €15.00 bn) and Miscellaneous manufactured articles (+7.9% to €9.46 bn) from non-EU countries contributed essentially to this development. The export-related increase was largely attributable to the two most important product groups Chemicals and related products (+11.3% to €7.46 bn) and Machinery and transport equipment (+2.2% to €21,31 bn).

(Source: Statistics Austria)

Table 60: Regional foreign trade 2015 – 2019, Austria

Regional foreign trade data by federal states							
Value in Euros							
Code	Federal state	2015	2016	2017	2018	2019	01.-06.2020 *)
Imports							
1	Burgenland	2 615 012 365	2 473 280 312	2 524 580 705	2 605 557 048	2 770 467 821	1 159 736 483
2	Carinthia	5 856 454 842	6 012 509 281	6 499 956 156	7 063 482 386	6 921 920 449	3 058 999 063
3	Lower Austria	23 054 898 899	22 215 086 722	24 678 794 346	26 913 021 443	27 101 919 123	11 516 764 820
4	Upper Austria	24 899 947 068	25 550 031 408	27 949 052 344	28 933 354 259	29 403 507 104	13 172 813 200
5	Salzburg	11 871 513 255	12 457 091 343	12 994 951 766	13 171 077 717	13 542 967 082	5 685 715 042
6	Styria	13 765 169 139	14 412 690 157	17 040 020 149	19 291 206 084	19 598 872 775	8 261 495 508
7	Tyrol	10 610 711 024	11 340 114 900	12 083 873 206	11 946 359 567	12 111 342 131	6 114 305 287
8	Vorarlberg	7 077 731 364	7 165 743 369	7 446 984 817	8 007 734 676	7 929 927 092	3 699 097 545
9	Vienna	33 777 858 878	34 040 580 424	36 324 014 758	38 124 314 703	38 436 295 082	16 981 982 458
Austria		133 529 296 834	135 667 127 916	147 542 228 247	156 056 107 883	157 817 218 659	69 650 909 406
Exports							
1	Burgenland	2 085 847 230	2 025 252 853	2 204 727 991	2 317 151 525	2 342 247 003	1 129 864 265
2	Carinthia	7 137 467 063	7 015 800 520	7 546 450 882	8 092 240 142	7 423 091 634	3 346 634 839
3	Lower Austria	20 446 932 206	20 048 291 000	21 824 435 480	23 103 940 171	22 519 656 342	9 949 956 075
4	Upper Austria	33 460 423 931	33 781 844 981	36 519 805 936	38 023 596 629	39 989 082 966	17 196 003 588
5	Salzburg	9 143 352 125	9 237 801 918	9 913 134 978	10 873 520 836	10 737 711 156	4 823 194 048
6	Styria	19 715 796 022	19 305 469 105	21 726 442 874	25 443 893 097	25 953 947 211	10 442 578 260
7	Tyrol	11 451 045 669	12 326 580 361	12 491 155 946	12 650 442 985	13 182 139 412	6 336 286 376
8	Vorarlberg	9 455 862 981	9 537 000 572	10 216 044 941	10 497 255 353	10 690 551 797	4 872 397 297
9	Vienna	18 641 654 238	17 847 163 416	19 497 497 038	19 068 942 849	20 663 214 255	10 413 313 141
Austria		131 538 381 465	131 125 204 726	141 939 696 066	150 070 983 587	153 501 641 776	68 510 227 889
S: STATISTICS AUSTRIA. Compiled on 01 February 2021. Financed by the Federal State governments and the Chamber of Commerce. - *) Preliminary results							

Figure 50: Regional Foreign Trade – 2019, final results

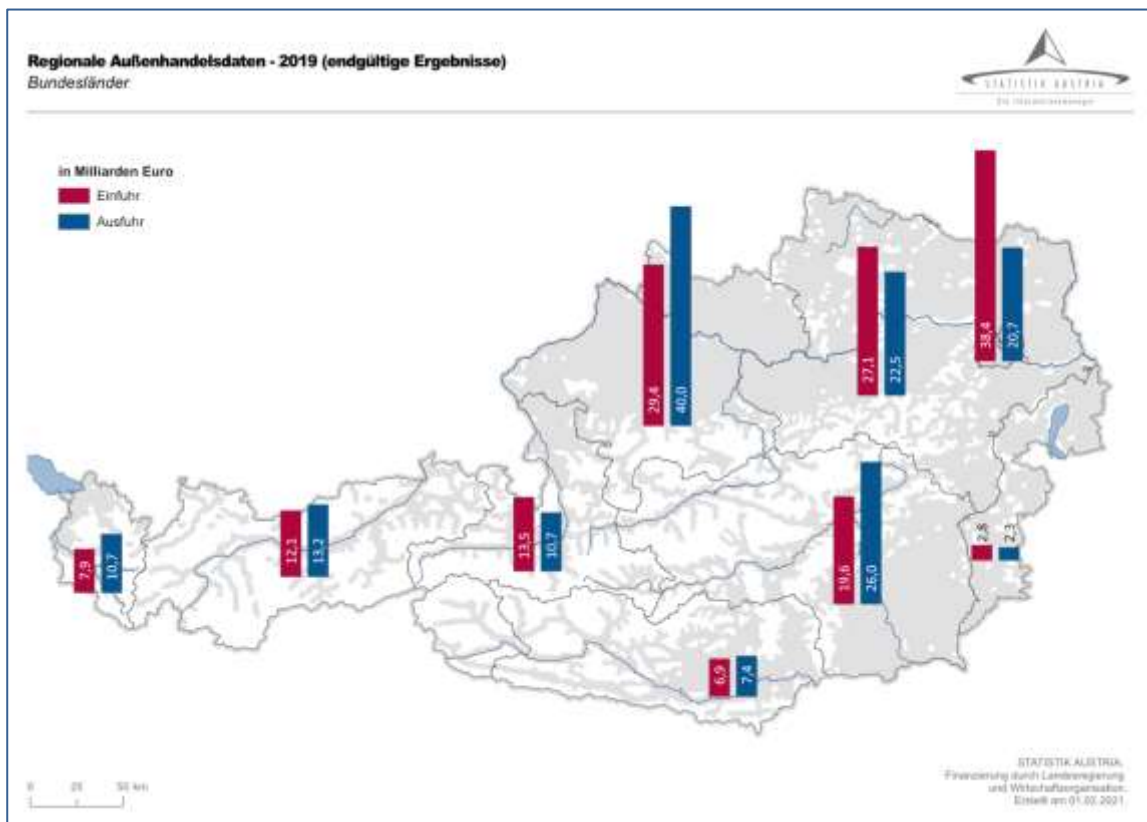
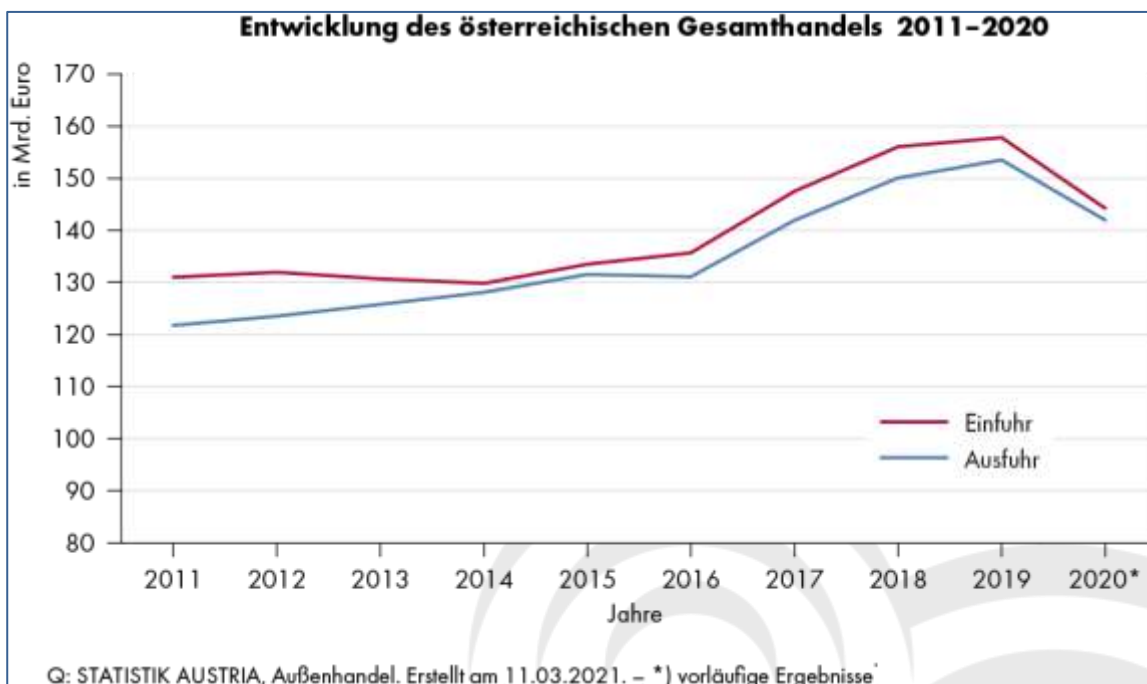


Figure 51: Trade development in AT 2011 - 2020



Identification and presentation of trade flows at NUTS 2 level by country

Regional data by Federal States

The exports of goods from Austria amounted to a total of 68.51 billion euros in the first half of 2020, according to preliminary results by Statistics Austria. With more than one quarter, Upper Austria had the largest share in the overall Austrian exports (€17.20 bn, 25.1%). Styria was the federal state with the second highest export values (€10.44 bn or 15.2%), closely followed by Vienna (€10.41 bn or 15.2%) and Lower Austria (€9.95 bn or 14.5%). In the first half year of 2020 the imports of Austria totaled €69.65 bn. With a value of €16.98 bn, Vienna had the highest share on the import side (24.4%), followed by Upper Austria (€13.17 bn or 18.9%) and Lower Austria (€11.52 bn or 16.5%).

In the period January to December 2019 (final results) most imports were registered in Vienna (€38.44 bn, 24.4%). Upper Austria (€29.40 bn, 18.6%) and Lower Austria (€27.10 bn, 17.2%) recorded the second and third highest import shares. Upper Austria recorded the largest share in the overall Austrian exports (€39.99 bn, 26.1%), followed by Styria (€25.95 bn, 16.9%) and Lower Austria (€22.52 bn, 14.7%).

Currently, regional foreign trade data by federal states are available for the years 2010-2019 (final data) as well as for the first half year 2020 (preliminary data).

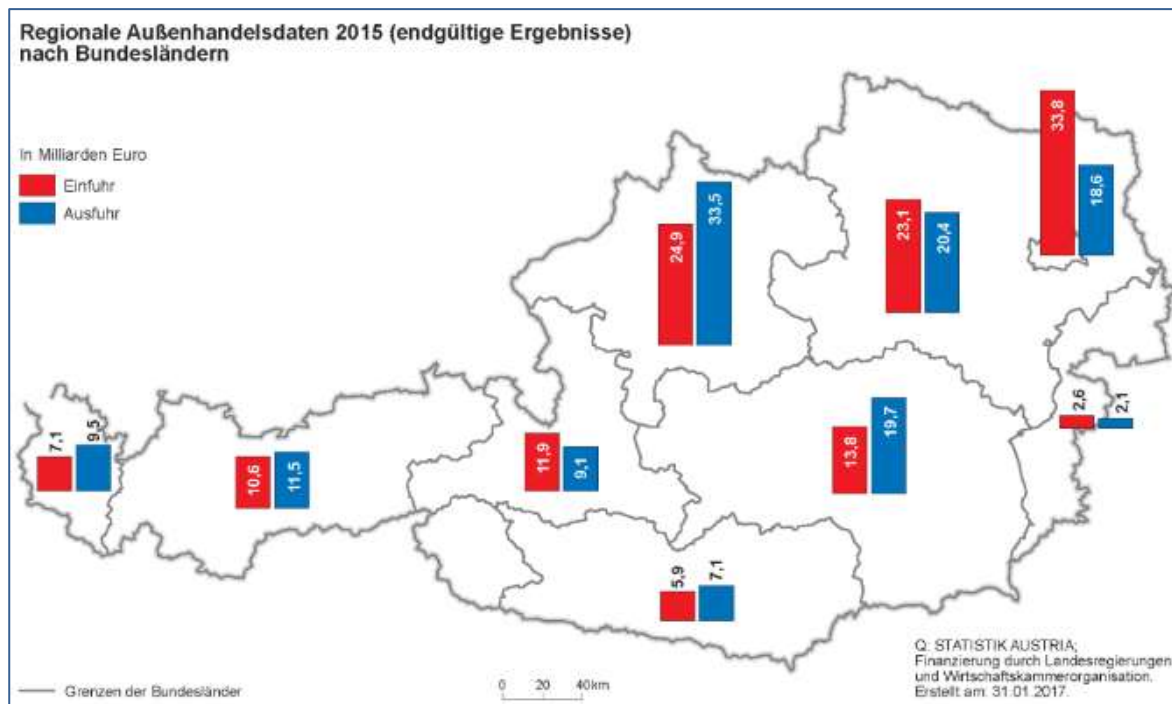
Starting with reporting year 2010, Statistics Austria compiles on behalf of the Austrian Chamber of Commerce (WKO) and the nine Austrian federal states regionalized foreign trade data by federal states. In order to calculate statistically reliable regional foreign trade data which are in compliance with the principles of the national official statistical institution, individual records are matched and reassigned by resorting to already existing data sources.

(Source:

http://www.statistik.at/web_en/statistics/Economy/foreign_trade/regional_data_by_federal_states/index.html)

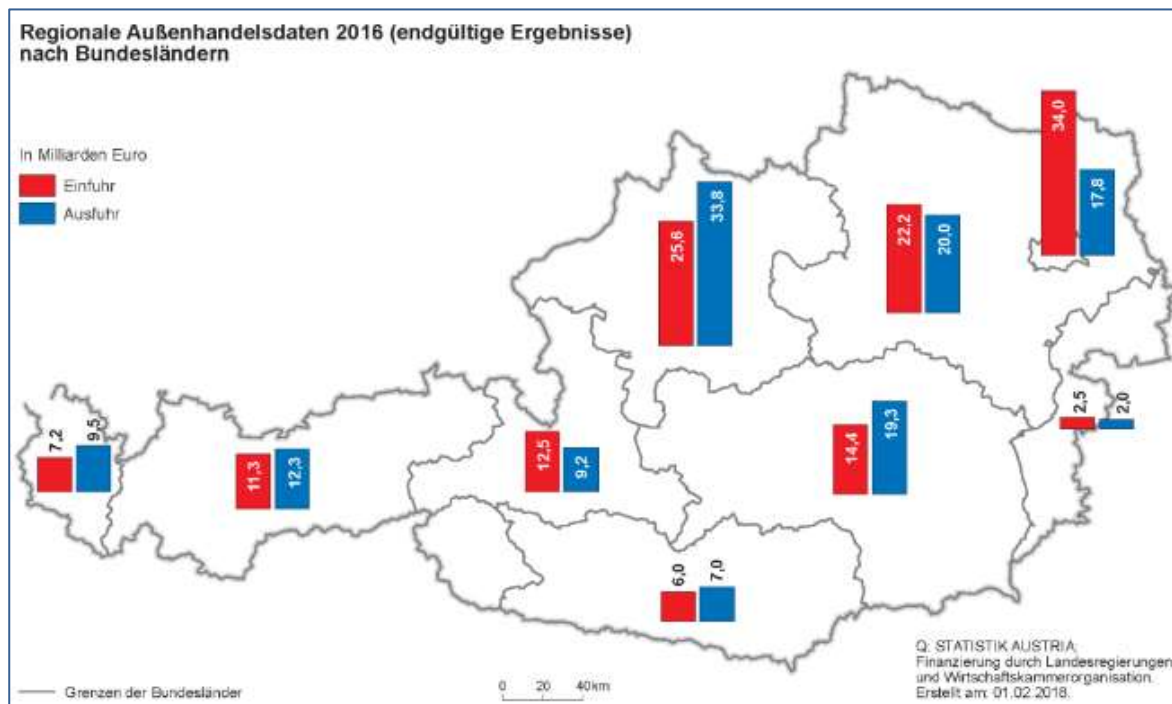
Foreign Trade NUTS 2 2015

Figure 52: Foreign trade NUTS 2 2015



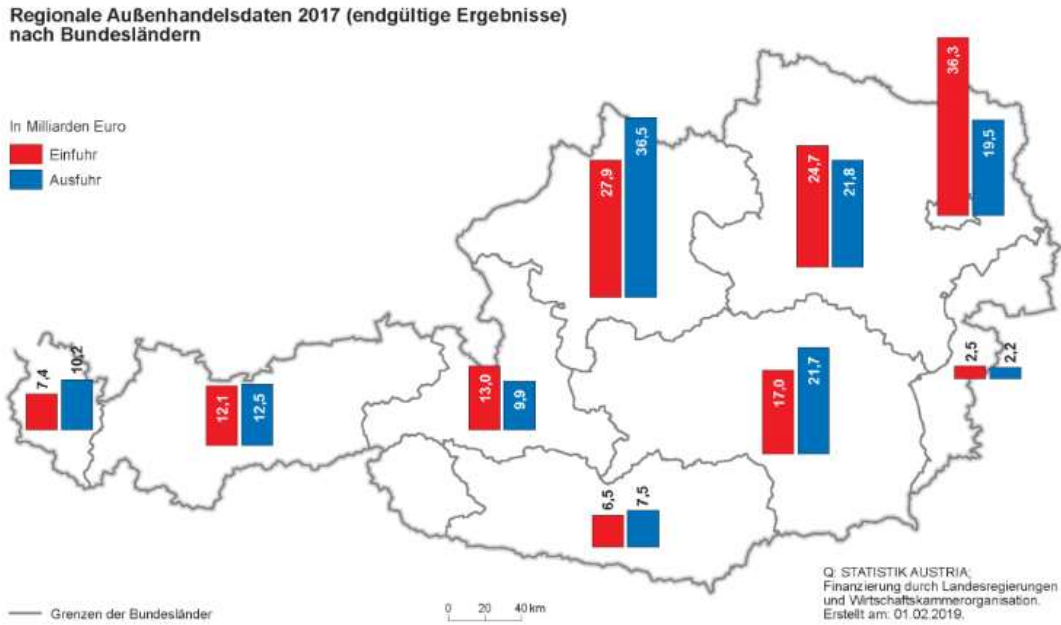
Foreign Trade NUTS 2 2016

Figure 53: Foreign trade NUTS 2 2015



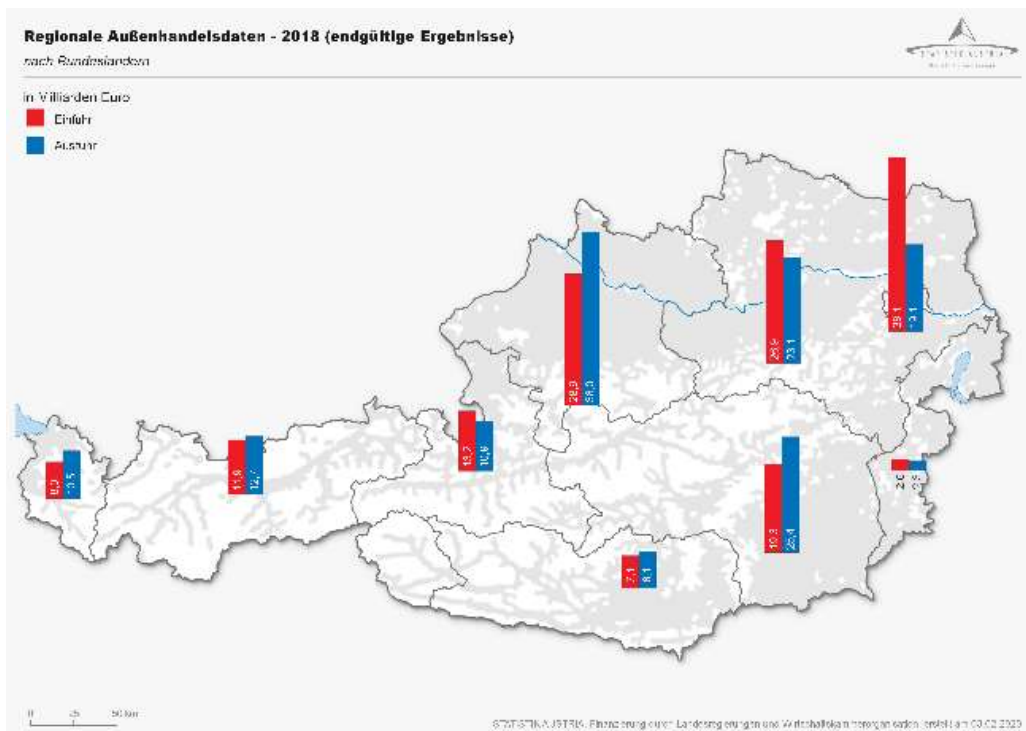
Foreign Trade NUTS 2 2017

Figure 54: Foreign trade NUTS 2 2017



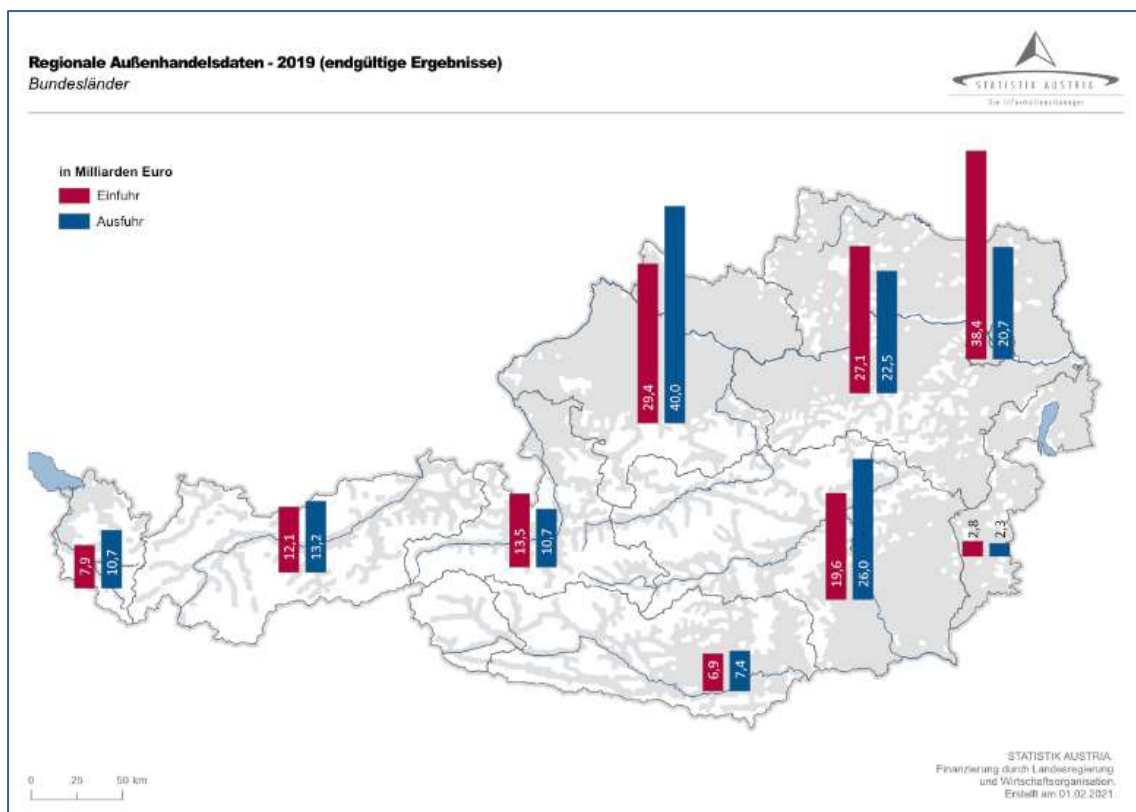
Foreign Trade NUTS 2 2018

Figure 55: Foreign trade NUTS 2 2018



Foreign Trade NUTS 2 2019

Figure 56: Foreign trade NUTS 2 2019



Trade flows in Austria – Import

Data for Austria is presented at country level and also per NUTS 2 level (federal states of Austria). Categories of goods are defined as considered by the National Statistics Institute.

Imports in Euro

The presentation of trade flows is organized as follows:

- Total imports by NUTS 2, 2015 – 2019 in EUR
- TOP3 imports, by NUTS 2, category of goods, 2019 in Mrd. EUR
- Total imports, country level, by category of goods, 2017 – 2020
- Import, country level, by category of goods, in tonnes and 1000 EUR 2019

Total imports by NUTS2, 2015 – 2019 in EUR

Table 61: Total imports NUTS 2 2015 - 2019 in EUR, Austria

Year	2015	2016	2017	2018	2019
Burgenland	2615012365	2473280312	2524580705	2605557048	2770467821
Kärnten	5856454842	6012509281	6499956156	7063482386	6921920449
Niederösterreich	23054898899	22215086722	24678794346	26913021443	27101919123
Oberösterreich	24899947068	25550031408	27949052344	28933354259	29403507104
Salzburg	11871513255	12457091343	12994951766	13171077717	13542967082
Steiermark	13765169139	14412690157	17040020149	19291206084	19598872775
Tirol	10610711024	11340114900	12083873206	11946359567	12111342131
Vorarlberg	7077731364	7165743369	7446984817	8007734676	7929927092
Wien	33777858878	34040580424	36324014758	38124314703	38436295082

(Source: Statistic Austria)

Figure 57: Import NUTS 2 2015 - 2019 in EUR

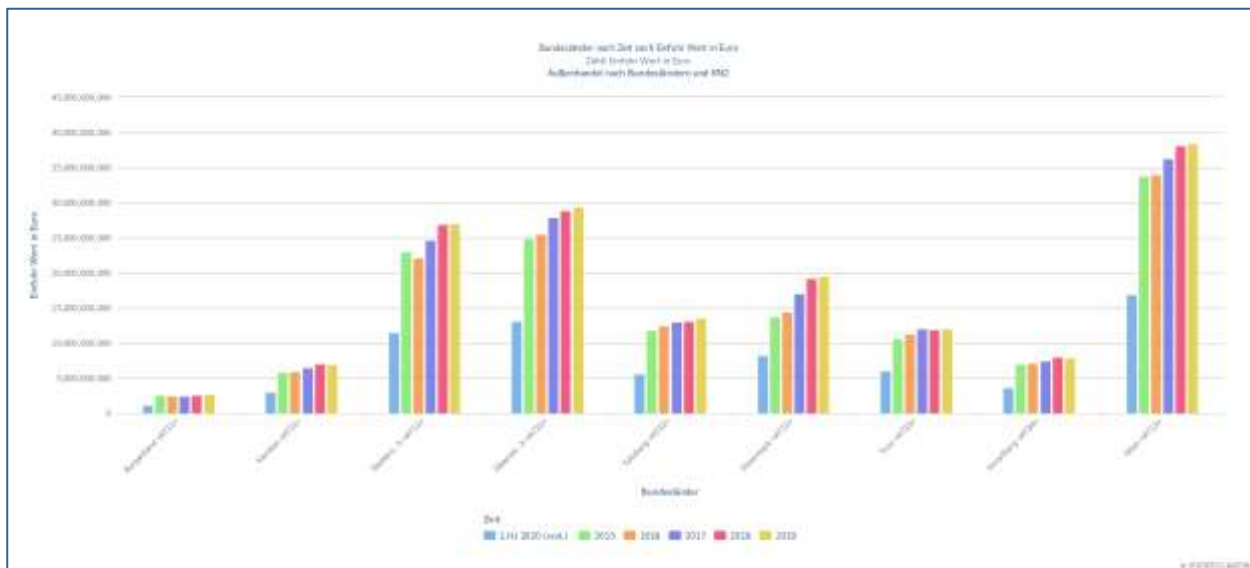
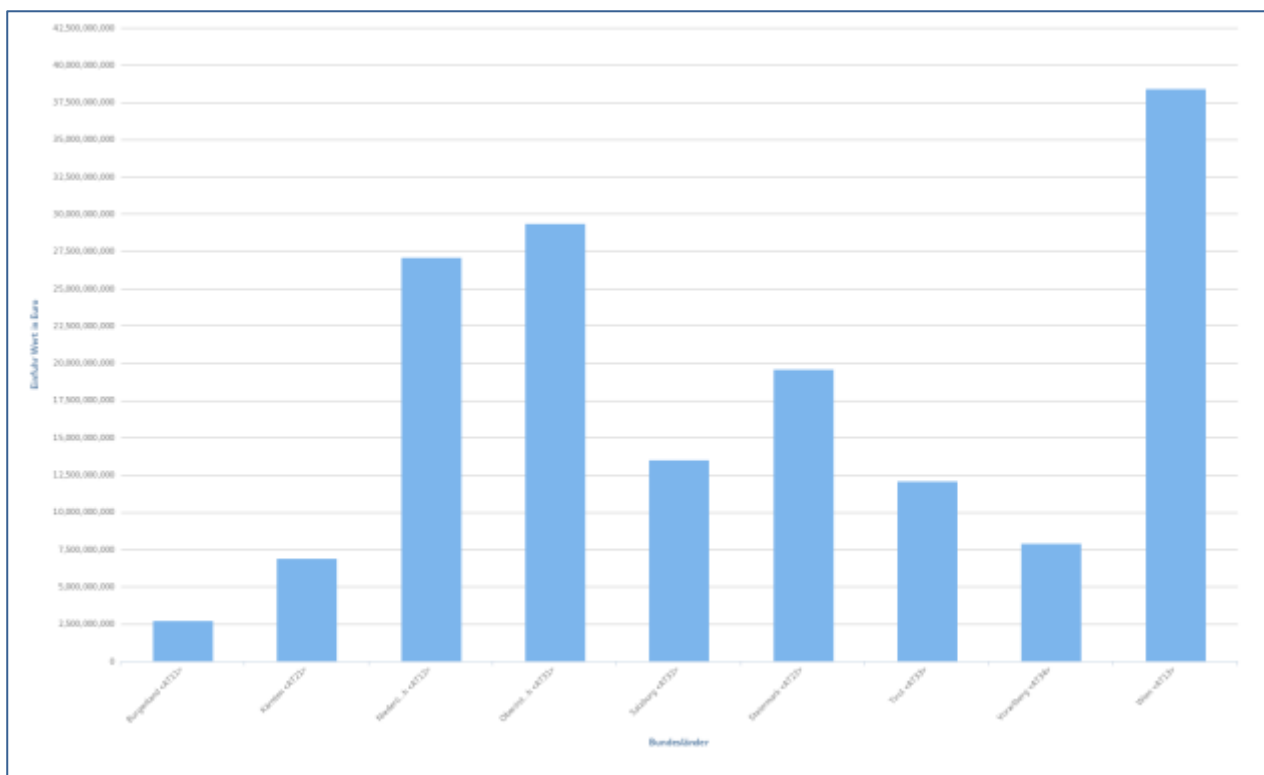


Figure 58: Import NUTS 2 2019 in EUR



Legend of Figure below:

Regional Foreign Trade Import (Einfuhr)/Export (Ausfuhr)2019 by category of goods, NUTS 2, in Mrd. EUR

- a) boiler, machines, mechanical devices (Kessel, Maschinen, mechanische Geräte)
- b) towing vehicle, motor vehicles (Zugmaschinen, Kraftwagen und dergleichen)
- c) pharmaceutical products (Pharmazeutische Erzeugnisse)
- d) electrical machines and goods (Elektrische Maschinen und Waren)
- e) mineral fuels, petroleum (Mineral. Brennstoffe, Mineralöle)
- f) organical chemical products (Organische chemische Erzeugnisse)

Figure 59: Regional foreign trade NUTS 2 2019

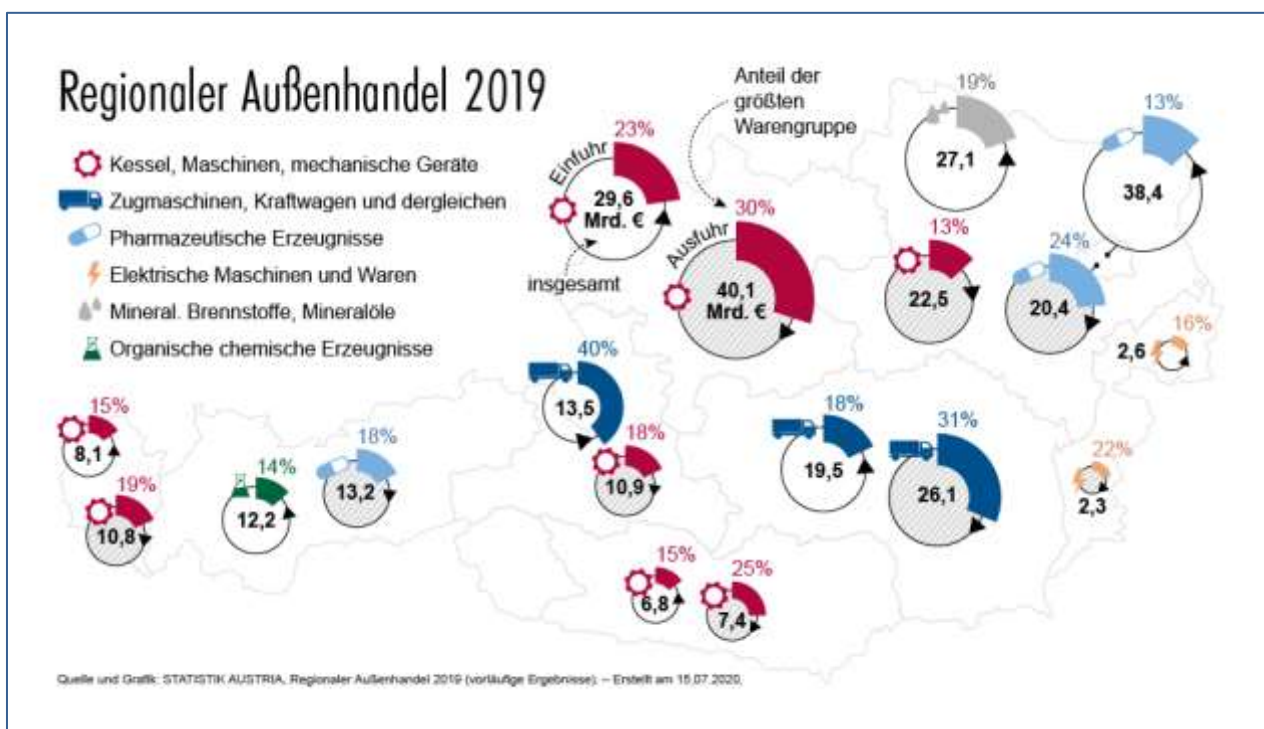


Table 62: Regional foreign trade import NUTS 2, TOP 3, 2019, Austria

Federal State	Import Grade	Import	Import in Mrd. €	Total imports of country	Share of total imports in %
Burgenland	1	85, electrical machines and goods	0,43	2,6	16%
	2	39, synthetic materials and goods	0,29		
	3	27, mineral fuels, petroleum	0,19		
Carinthia	1	84, boiler, machines, mechanical devices	1,03	6,8	15%
	2	85, electrical machines and goods	0,88		
	3	87, towing vehicle, motor vehicles....	0,45		
Lower Austria	1	27, mineral fuels, petroleum	5,22	27,1	19%
	2	84, boiler, machines, mechanical devices	2,91		
	3	85, electrical machines and goods	2,06		
Upper Austria	1	84, boiler, machines, mechanical devices	6,71	29,6	23%
	2	85, electrical machines and goods	2,85		
	3	87, towing vehicle, motor vehicles....	2,27		
Salzburg	1	87, towing vehicle, motor vehicles....	5,55	13,5	40%
	2	84, boiler, machines, mechanical devices	1,49		
	3	85, electrical machines and goods	0,71		
Styria	1	87, towing vehicle, motor vehicles....	3,50	19,5	18%
	2	85, electrical machines and goods	2,54		
	3	84, boiler, machines, mechanical devices	2,09		
Tyrol	1	29, organic chemical products	1,66	12,2	14%
	2	84, boiler, machines, mechanical devices	1,29		
	3	85, electrical machines and goods	0,79		
Vorarlberg	1	84, boiler, machines, mechanical devices	1,23	8,1	15%
	2	85, electrical machines and goods	0,75		
	3	39, synthetic materials and goods	0,50		
Vienna	1	30, pharmaceutical products	5,05	38,4	13%
	2	85, electrical machines and goods	4,62		
	3	84, boiler, machines, mechanical devices	4,12		

Import from Europe according to SITC-Classification 2017-2020 in 1000 EUR and change in % from 2019-2020

Table 63: Import AT, 2017 - 2020

Category of goods	2017	2018	2019	2020	change in % to 2019
Nutrition	8,844,848	8,860,883	9,272,893	9,259,451	-0,1
beverages and tobacco	810,243	906,513	978,503	960,334	-1,9
raw materials (commodities)	5,175,812	5,645,225	5,327,146	4,980,360	-6,5
fuels energy	7,922,617	8,803,226	8,387,809	6,224,411	-25,8
animal and vegetable oils	428,972	401,821	428,127	465,937	8,8
chemical products	16,555,959	16,988,618	17,168,169	17,631,499	2,7
processed goods	20,694,433	22,209,253	21,641,276	20,003,179	-7,6
machines/vehicles	41,836,009	43,587,215	44,409,957	38,831,855	-12,6
other finished products	15,206,475	15,886,505	15,950,454	14,570,330	-8,7
goods not included in other sections	1,660,677	1,648,775	862,583	2,344,908	171,8
Total	119,136,045	124,938,035	124,426,918	115,272,264	-7,4

Import in tonnes and 1000 EUR 2019
Table 64: Import AT 2019

The statistics show the imports by category of goods to Austria 2019 in tonnes and 1000 EUR.

Category of Goods		Import	
		tonnes	EUR
10	Food & Beverages	8.253.947	10.899.763
I	Food & Beverages	8.253.947	10.899.763
21	Solid Fuels	4.540.637	767.957
22	Electrical Power	0	1068.678
23	Mineral Raw Materials	38.553.722	13.228.356
24	Hides and Skins	66.006	77.607
25	Wood and Cork	12.795.508	143.456
26	Textile Raw Materials	36.901	80.980
29	Other Raw Materials	3.137.098	2.420.904
II	Raw Materials & Fuels	59.129.872	19.057.938
31	Chemical semi-finished products	7.023.909	11.564.785
32	Rubber	40.241	238.558
33	Hides and Skins	9.118	147.101
34	Wood and Cork	525.020	416.871
35	Textils	41.983	227.967
36	Iron and Steel	4.409.086	4.326.451
37	NE-Metals	1.265.297	4.335.997
39	Other semi-finished goods	3.047.026	1.542.484
III	Semi-finished goods	16.361.679	22.800.215
41	Industrial Goods	2.911.139	36.417.418
42	Consumer Goods	10.726.748	68.570.016
IV	Finished Products	13.637.888	104.987.434
50	Other Goods	170.958	71.869
V	Other Goods	170.958	71.869
	TOTAL	97.554.345	157.817.219

Trade flows in Austria – Export

Data for Austria is presented at country level and also per NUTS 2 level (federal states of Austria). Categories of goods are defined as considered by the National Statistics Institute.

Exports in Euro

The presentation of trade flows is organized as follows:

- Total exports by NUTS 2, 2015 – 2019 in EUR
- TOP3 exports, by NUTS 2, category of goods, 2019 in Mrd. EUR
- Total exports, country level, by category of goods, 2017 – 2020
- Export, country level, by category of goods, in tonnes and 1000 EUR 2019

Table 65: Exports NUTS 2 in AT, 2015 - 2019

Total exports by NUTS 2, 2015 – 2019 in EUR

Year	2015	2016	2017	2018	2019
Burgenland	2085847230	2025252853	2204727991	2317151525	2342247003
Carinthia	7137467063	7015800520	7546450882	8092240142	7423091634
Lower Austria	20446932206	20048291000	21824435480	23103940171	22519656342
Upper Austria	33460423931	33781844981	36519805936	38023596629	39989082966
Salzburg	9143352125	9237801918	9913134978	10873520836	10737711156
Styria	19715796022	19305469105	21726442874	25443893097	25953947211
Tyrol	11451045669	12326580361	12491155946	12650442985	13182139412
Vorarlberg	9455862981	9537000572	10216044941	10497255353	10690551797
Vienna	18641654238	17847163416	19497497038	19068942849	20663214255

Figure 60: Export NUTS 2, 2015 - 2019 in EUR

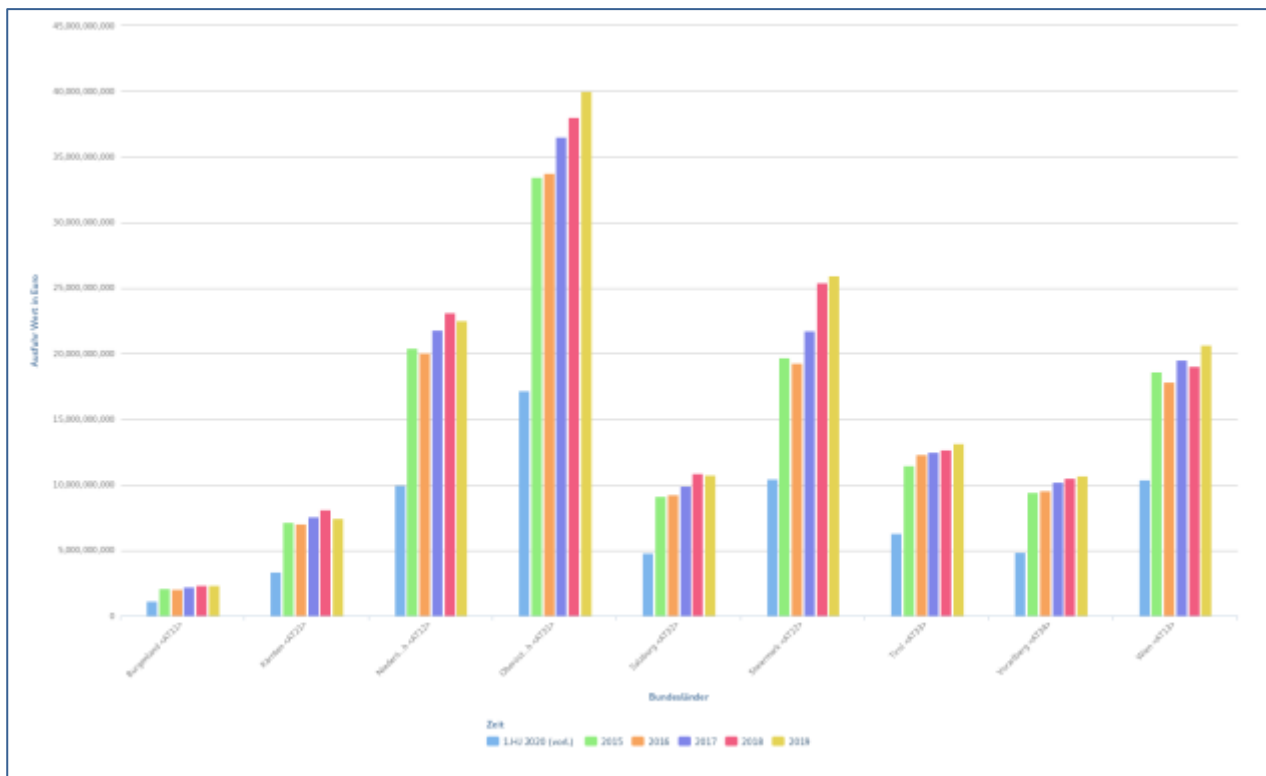


Figure 61: Export NUTS 2, 2019, in EUR

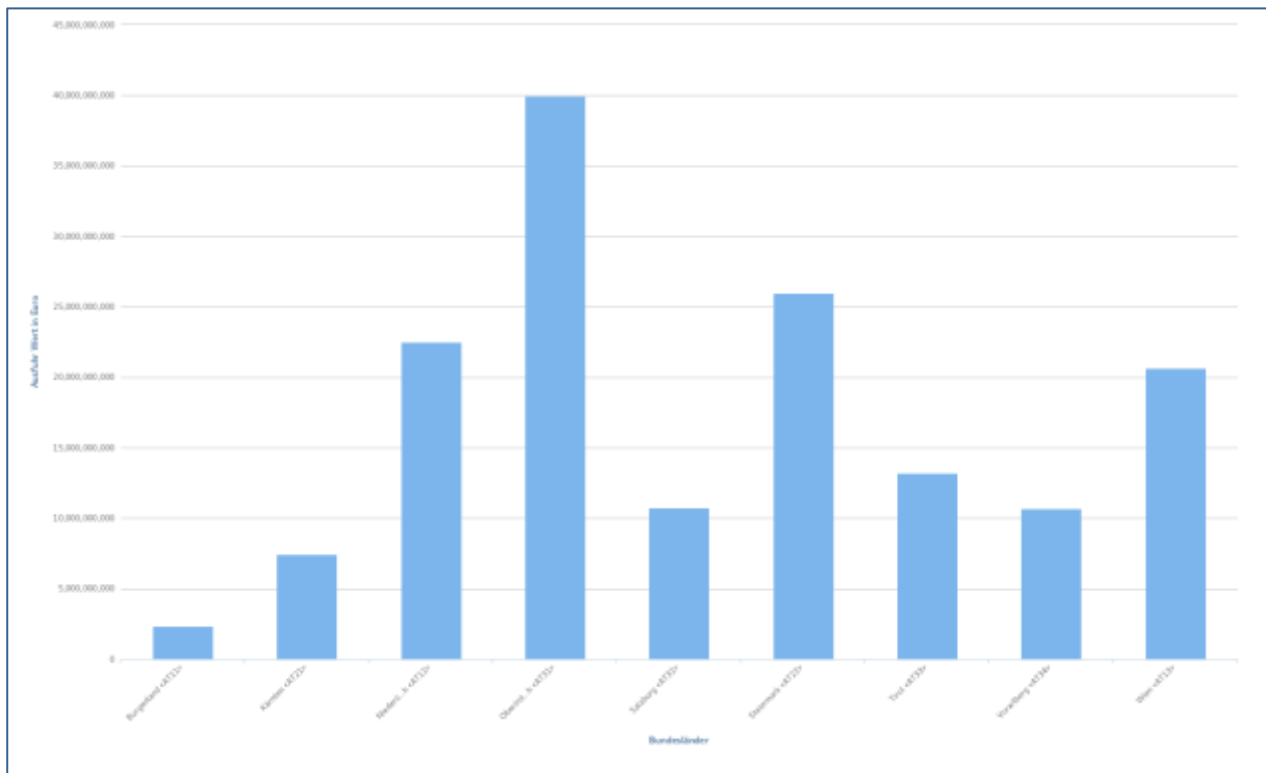


Table 66: Foreign trade NUTS 2, Top 3, 2019
Regional Foreign Trade / EXPORT, NUTS 2 TOP 3-combined Nomenklatur, Year 2019 (final results)

Federal State	Export Grade	Export	Export in Mrd. €	Total exports of country	Share of total imports in %
Burgenland	1	85, electrical machines and goods	0,49	2,3	22%
	2	39, synthetic materials and goods	0,22		
	3	27, mineral fuels, petroleum	0,21		
Carinthia	1	84, boiler, machines, mechanical devices	1,84	7,4	25%
	2	85, electrical machines and goods	1,26		
	3	44, wood and wooden products; charcoal	0,61		
Lower Austria	1	84, boiler, machines, mechanical devices	3,05	22,5	13%
	2	85, electrical machines and goods	2,33		
	3	27, mineral fuels, petroleum	1,86		
Upper Austria	1	84, boiler, machines, mechanical devices	12,00	40,1	30%
	2	87, towing vehicle, motor vehicles....	4,18		
	3	72, iron and steel	3,46		
Salzburg	1	84, boiler, machines, mechanical devices	1,91	10,9	18%
	2	22, beverages, alcoholic fluids and vinegar	1,86		
	3	87, towing vehicle, motor vehicles....	1,43		
Styria	1	87, towing vehicle, motor vehicles....	8,19	26,1	31%
	2	84, boiler, machines, mechanical devices	2,89		
	3	85, electrical machines and goods	2,32		
Tyrol	1	30, pharmaceutical products	2,30	13,2	18%
	2	84, boiler, machines, mechanical devices	1,65		
	3	85, electrical machines and goods	0,99		
Vorarlberg	1	84, boiler, machines, mechanical devices	1,98	10,8	19%
	2	83, various goods made of base metal	1,60		
	3	85, electrical machines and goods	0,88		
Vienna	1	30, pharmaceutical products	4,76	20,4	24%
	2	85, electrical machines and goods	2,25		
	3	84, boiler, machines, mechanical devices	2,13		

Table 67: Export AT 2017 - 2019 in 1000 EUR

Export from EUROPE according to SITC-Classification 2017-2020 in 1000 EUR

Category of goods	2017	2018	2019	2020	change in % to 2019
Nutrition	7,411,385	7,509,077	7,878,321	8,077,922	2,5
beverages and tobacco	1,132,298	1,292,758	1,431,011	1,507,133	5,3
raw materials (commodities)	3,722,288	4,036,463	3,870,989	3,586,341	-7,4
fuels energy	2,739,260	3,202,213	3,499,363	2,782,471	-20,5
animal and vegetable oils	226,332	238,116	251,473	267,876	6,5
chemical products	16,430,466	16,257,289	17,655,952	17,919,589	1,5
processed goods	26,016,058	27,571,308	26,764,153	24,508,685	-8,4
machines/vehicles	41,145,900	43,552,241	44,830,992	40,030,299	-10,7
other finished products	12,983,632	13,963,786	14,105,901	13,164,676	-6,7
goods not included in other sections	777,616	905,005	985,518	1,850,619	87,8
Total	112,585,236	118,528,257	121,273,674	113,695,611	-6,2

Export in tonnes and 1000 EUR 2019
Table 68: Export, category of goods 2019

The statistics show the exports by category of goods to Austria 2019 in tonnes and 1000 EUR.

Category of Goods		Export	
		tonnes	EUR
10	Food & Beverages	7.835.226	10.666.871
I	Food & Beverages	7.835.226	10.666.871
21	Solid Fuels	6.220	1.726
22	Electrical Power	0	1.200.481
23	Mineral Raw Materials	10.900.888	3.208.310
24	Hides and Skins	68.946	54.082
25	Wood and Cork	5.802.866	1.732.458
26	Textile Raw Materials	472.419	1.032.217
29	Other Raw Materials	1.472.366	1.593.607
II	Raw Materials & Fuels	18.723.705	8.822.882
31	Chemical semi-finished products	6.763.632	8.309.970
32	Rubber	46.623	204.703
33	Hides and Skins	14.232	335.078
34	Wood and Cork	1510.647	937.192
35	Textils	16.537	128.468
36	Iron and Steel	6.618.978	7.472.748
37	NE-Metals	867.582	3.994.524
39	Other semi-finished goods	2.505.027	1.302.095
III	Semi-finished goods	18.343.259	22.684.779
41	Industrial Goods	3.396.370	41.411.524
42	Consumer Goods	13.089.991	69.701.632
IV	Finished Products	16.486.360	111.113.156
50	Other Goods	366.500	213.954
V	Other Goods	366.500	213.954
	TOTAL	61.755.050	153.501.642

Conclusions on the trade flows development

The general trend at the country level is presented as conclusion. Thus, in the tables below is presented the growth 2015 – 2019 for imports and exports by category of goods SITC.

IMPORTS 2015 – 2019

Table 69: Imports AT, category of goods 2015 - 2019

Category of Goods SITC	2015	2016	2017	2018	2019	Growth 2015 - 2019
	Import in Euro	Import in Euro	Import in Euro	Import in Euro	Import in Euro	
O NUTRITION	9009693651	9219239643	9732884754	9792281367	10213459625	13,36%
1 BEVERAGES & TOBACCO	809731839	878814760	862751794	960283823	1039261668	28,35%
2 RAW MATERIALS	5593595309	5330827926	5913770688	6396993317	6094585965	8,96%
3 FUELS ENERGY	10524274456	8923632909	10700651632	12754739991	12282557756	16,71%
4 ANIMAL & VEGETABLE OILS & FATS	374372938	410887641	434412496	406887435	433769291	15,87%
5 CHEMICAL PRODUCTS	18387055452	18651565091	20273467703	21193385923	21843460988	18,80%
6 PROCESSED GOODS	20993321710	21195516210	23382694227	24997914210	24439241786	16,41%
7 MACHINES/VEHICLES	45521662609	48444106415	52498883641	54827357296	56831957303	24,85%
8 OTHER FINISHED GOODS	20118946370	21073214420	21973123810	22994437627	23703191212	17,82%
9 GOODS ANG	2196642500	1539322901	1769587502	1731826894	935733065	57,40%

The highest growth of 57,40% is observed for Goods ANG, followed by Beverages & Tobacco with 28,35% and Machines/Vehicles by 24,85%.

EXPORTS 2015 – 2019

Table 70: Exports AT, category of goods 2015 - 2019

Category of Goods SITC	2015	2016	2017	2018	2019	Growth 2015 - 2019
	Export in Euro	Export in Euro	Export in Euro	Export in Euro	Export in Euro	
0 NUTRITION	7426042680	7557774027	7963552211	8109210258	8564970767	15,34%
1 BEVERAGES & TOBACCO	1989985687	2098786305	2332138121	2559196710	2818864252	41,65%
2 RAW MATERIALS	3944258911	4133020654	4480423016	4878662277	4745854225	20,32%
3 FUELS ENERGY	2569891922	2211501189	2784761669	3273505416	3570398406	38,93%
4 ANIMAL & VEGETABLE OILS & FATS	163746491	217495724	228206873	240209305	257513984	57,26%
5 CHEMICAL PRODUCTS	17913924455	17731200106	19842326804	19896565171	21570730399	20,41%
6 PROCESSED GOODS	28790469799	28155725362	30920258959	32919423592	31870462468	10,70%
7 MACHINES/VEHICLES	52383597571	52592180656	56696347508	60238667543	61763398102	17,91%
8 OTHER FINISHED GOODS	15231751422	15331045638	15827666450	16967893891	17275142851	13,42%
9 GOODS ANG	1124712527	1096475065	864014455	987649424	1064306322	5,37%

For exports it is noticed the highest growth in Animal & Vegetable oils & fats, followed by Beverages & Tobacco with 41,65% and Fuels Energy by 38,93%.

5.2 Bulgaria

The Bulgarian National Statistical Institute does not gather data on the trade flows (imports and exports) on a NUTS 2 level. The only available information for trade flows is on a country level (equivalent to NUTS 1). There is also no data publicly available on this topic gathered for the purposes of previous studies.

Therefore, the information regarding trade flows (imports and exports) presented below covers the entire country of Bulgaria and not the specific NUTS 2 regions, whose socio-economic data was reviewed in Part 5 of the current report.

The table below presents data on imports and exports by product categories, as they are differentiated in the Standard International Trade Classification, created by the Department of Economic and Social Affairs of the United Nations Secretariat. The import/export amount is shown in million BGN.

Table 71: Monetary value of the imports, exports and trade balance of Bulgaria per product category for the 2015-2019 period

Product category	Imports (in mln. BGN)	Exports (in mln. BGN)	Trade balance
Food and live animals	2015 – 3 980.9	2015 – 4 857.3	2015 – 876.4
	2016 – 4 149.8	2016 – 5 399.5	2016 – 1 249.7
	2017 – 4 616.9	2017 – 5 612.7	2017 – 995.8
	2018 – 4 627.7	2018 – 5 962.7	2018 – 1 335
	2019 – 5 062.5	2019 – 6 799.6	2019 – 1737.1
Beverages and tobacco	2015 – 733	2015 – 823.8	2015 – 90.8
	2016 – 786.2	2016 – 810.9	2016 – 24.7
	2017 – 807.6	2017 – 720.9	2017 – (-86.7)
	2018 – 930.4	2018 – 649.4	2018 – (-281)
	2019 – 1 161.4	2019 – 714	2019 – (-447.4)
Crude materials, inedible, except fuels	2015 – 4 230.3	2015 – 2 953.8	2015 – (-1 276.5)
	2016 – 3 696.8	2016 – 3 134.3	2016 – (-562.5)
	2017 – 5 386.3	2017 – 3 347.6	2017 – (-2 038.7)
	2018 – 5 713.3	2018 – 3 542.6	2018 – (-2 170.7)
	2019 – 5 364.8	2019 – 3 970	2019 – (-1 394.8)
Mineral fuels, lubricants and related materials	2015 – 8 042.6	2015 – 4 859.4	2015 – (-3 183.2)
	2016 – 6 377.5	2016 – 4 275.4	2016 – (-2 102.1)
	2017 – 8 393.5	2017 – 5 415	2017 – (-2 978.5)

	2018 – 8 529.1 2019 – 9 131.6	2018 – 4 986.9 2019 – 5 574.6	2018 – (-3 542.2) 2019 – (-3 557)
Animal and vegetable oils, fats and waxes	2015 – 177.8 2016 – 181.7 2017 – 194.3 2018 – 201.3 2019 – 220.7	2015 – 471.6 2016 – 483.4 2017 – 585.7 2018 – 622.5 2019 – 616	2015 – 293.8 2016 – 301.7 2017 – 391.4 2018 – 421.2 2019 – 395.3
Chemicals and related products	2015 – 7 238.4 2016 – 7 609.5 2017 – 8 411.1 2018 – 8 813.9 2019 – 9 335	2015 – 4 437.3 2016 – 4 732.5 2017 – 5 420.7 2018 – 5 702.7 2019 – 6 396.4	2015 – (-2 801.1) 2016 – (-2 877) 2017 – (-2 990.4) 2018 – (-3 111.2) 2019 – (-2 938.6)
Manufactured goods classified chiefly by material	2015 – 8 722.6 2016 – 9 177.5 2017 – 10 100.3 2018 – 10 793.2 2019 – 11 050.4	2015 – 9 968.6 2016 – 9 595.8 2017 – 12 792.7 2018 – 13 011.6 2019 – 11 766.7	2015 – 1 246 2016 – 418.3 2017 – 2 692.4 2018 – 2 218.4 2019 – 716.3
Machinery and transport equipment	2015 – 14 006.3 2016 – 14 319.5 2017 – 15 999.4 2018 – 17 655.7 2019 – 18 513.2	2015 – 9 400.8 2016 – 10 163.4 2017 – 11 443 2018 – 12 643.8 2019 – 13 671.2	2015 – (-4 605.5) 2016 – (-4 156.1) 2017 – (-4 556.4) 2018 – (-5 011.9) 2019 – (-4 842)
Miscellaneous manufactured articles	2015 – 4 137.9 2016 – 4 608.4 2017 – 5 007 2018 – 5 271.1 2019 – 5 746.5	2015 – 7 058.2 2016 – 8 466.4 2017 – 9 113.2 2018 – 8 752.6 2019 – 8 748.8	2015 – 2 920.3 2016 – 3 858 2017 – 4 106.2 2018 – 3 481.5 2019 – 3 002.3
Commodities and transactions not classified elsewhere in the SITC	2015 – 279.2 2016 – 299.2 2017 – 317 2018 – 339.9 2019 – 395.7	2015 – 118.4 2016 – 124.7 2017 – 146.9 2018 – 155.4 2019 – 192	2015 – (-160.8) 2016 – (-174.5) 2017 – (-170.1) 2018 – (-184.5) 2019 – (-203.7)

Exchange rate: 1 BGN = 0.511292 EUR

The data encompasses all major product categories set in the Standard International Trade Classification. Each of them has a set of sub-categories, which are more detailed and present the imports and exports on a lower product level.

The import/export data is shown in a series of graphs, which display the development for each product category within the last few years:

Figure 62: Food and live animals

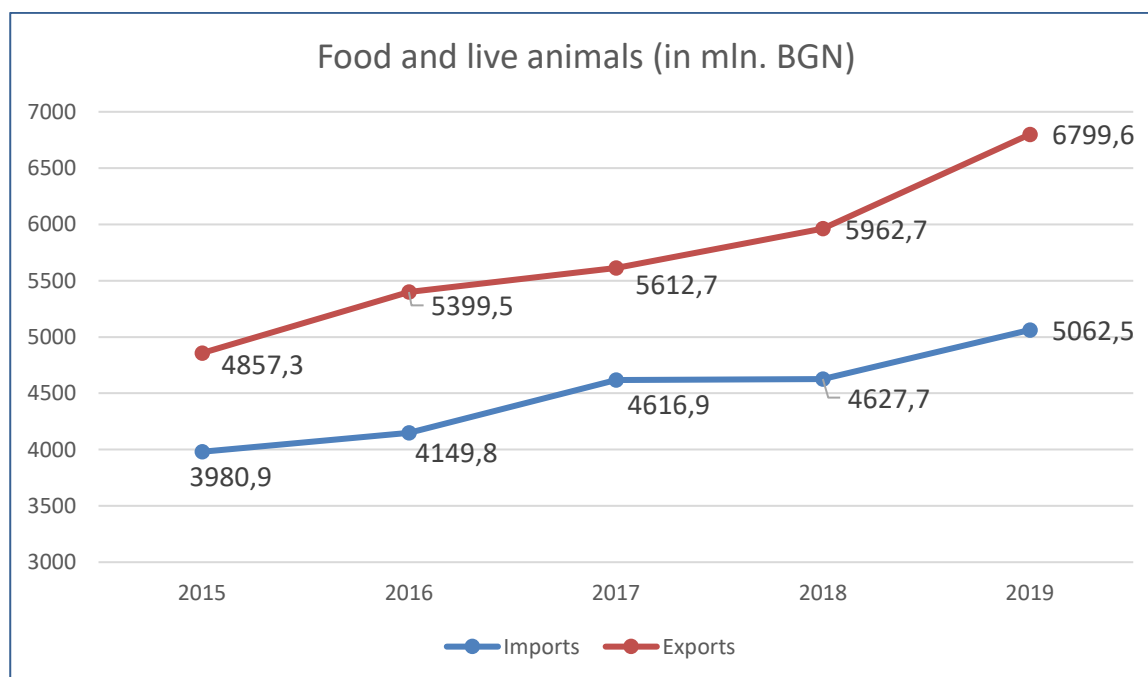


Figure 63: Beverages and tobacco

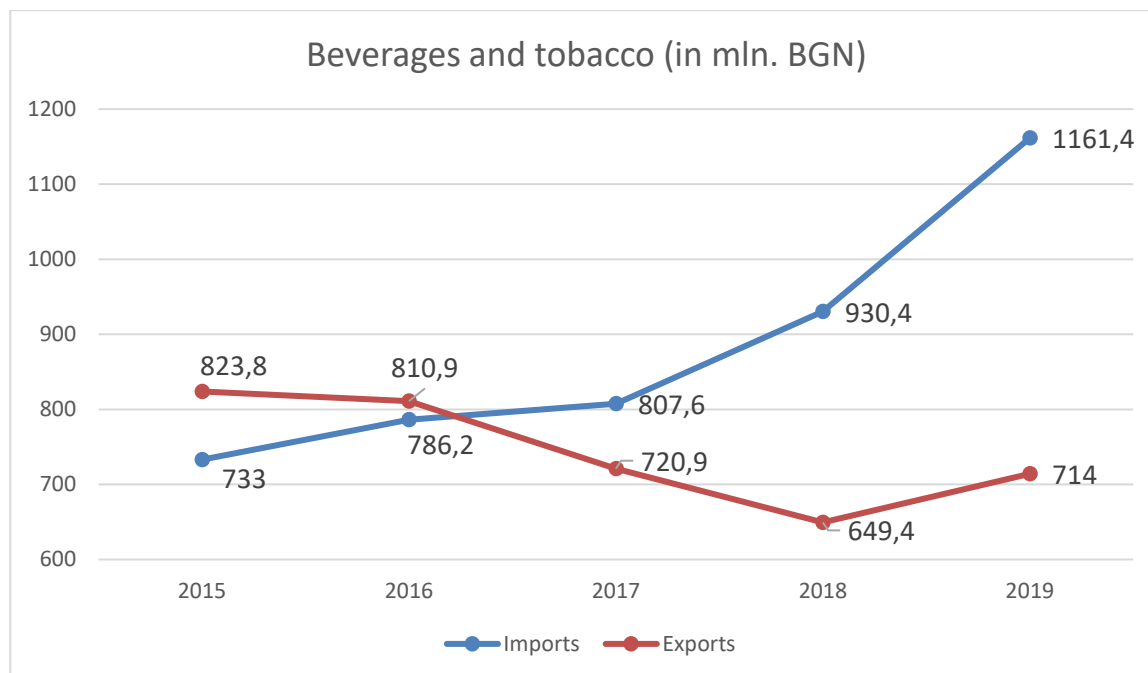


Figure 64: Crude materials, inedible, except fuels

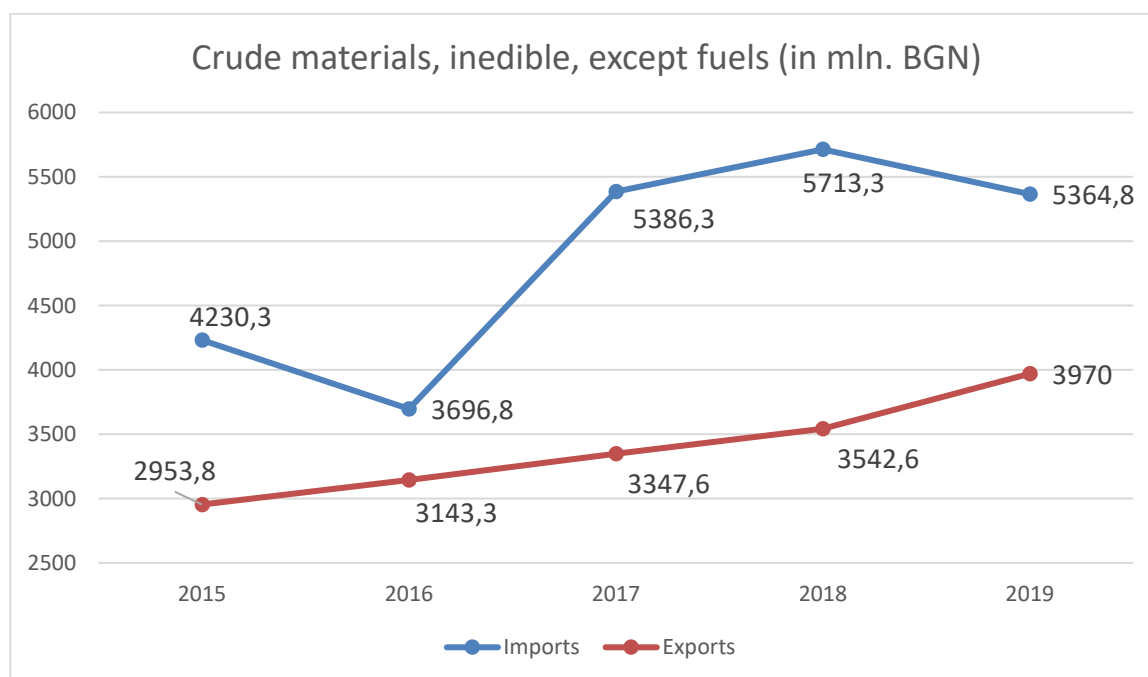


Figure 65: Mineral fuels, lubricants and related materials

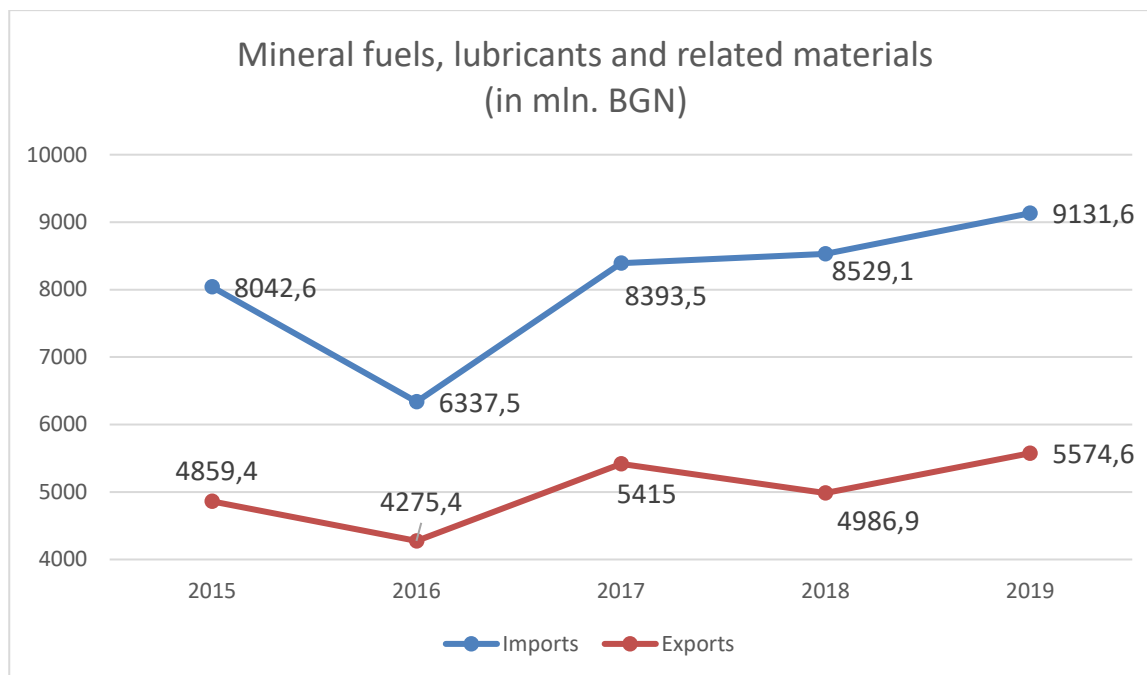


Figure 66: Animal and vegetable oils, fats and waxes

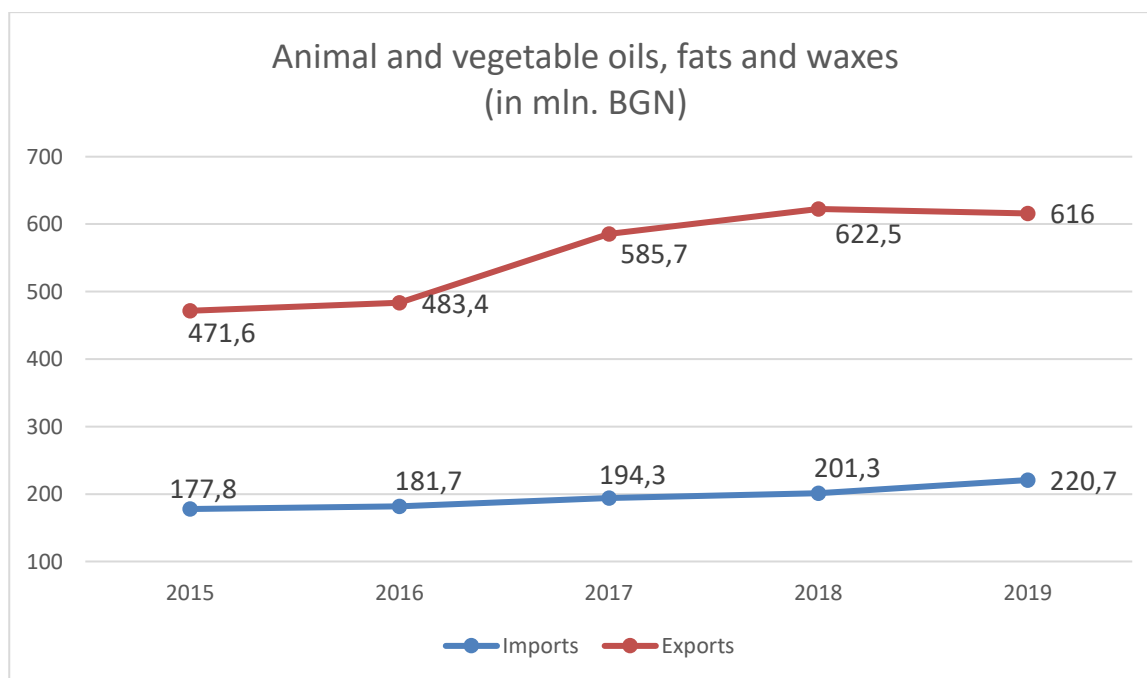


Figure 67: Chemicals and related products

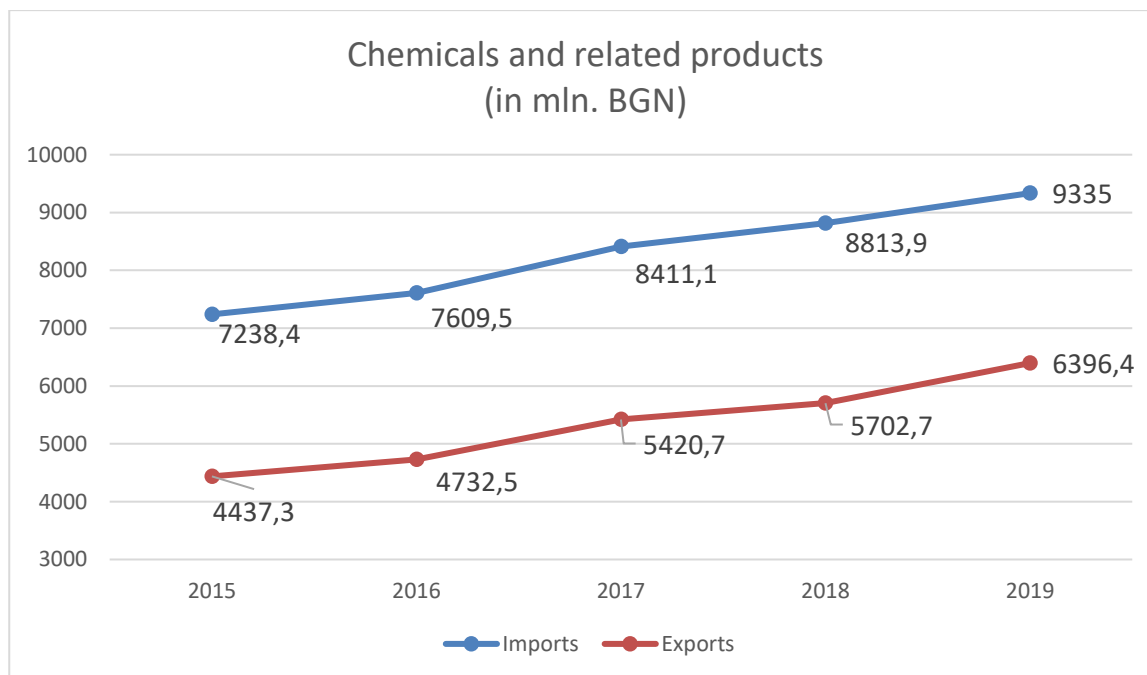


Figure 68: Manufactured goods classified chiefly by material

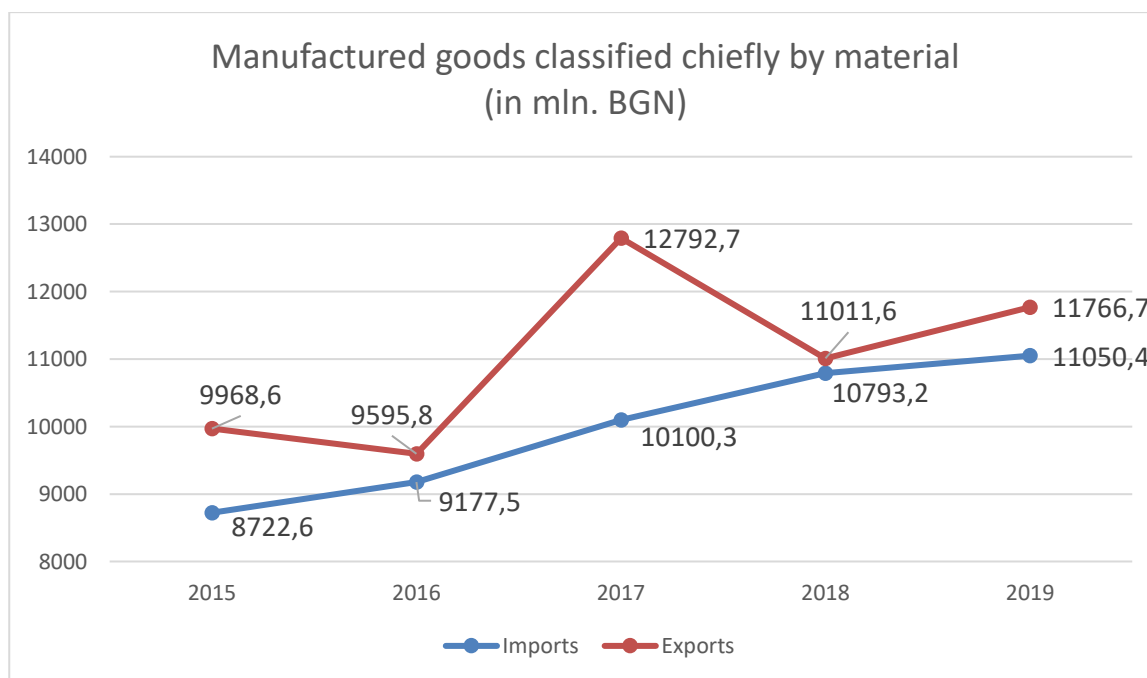


Figure 14: Manufactured goods classified chiefly by material

Figure 69: Machinery and transport equipment

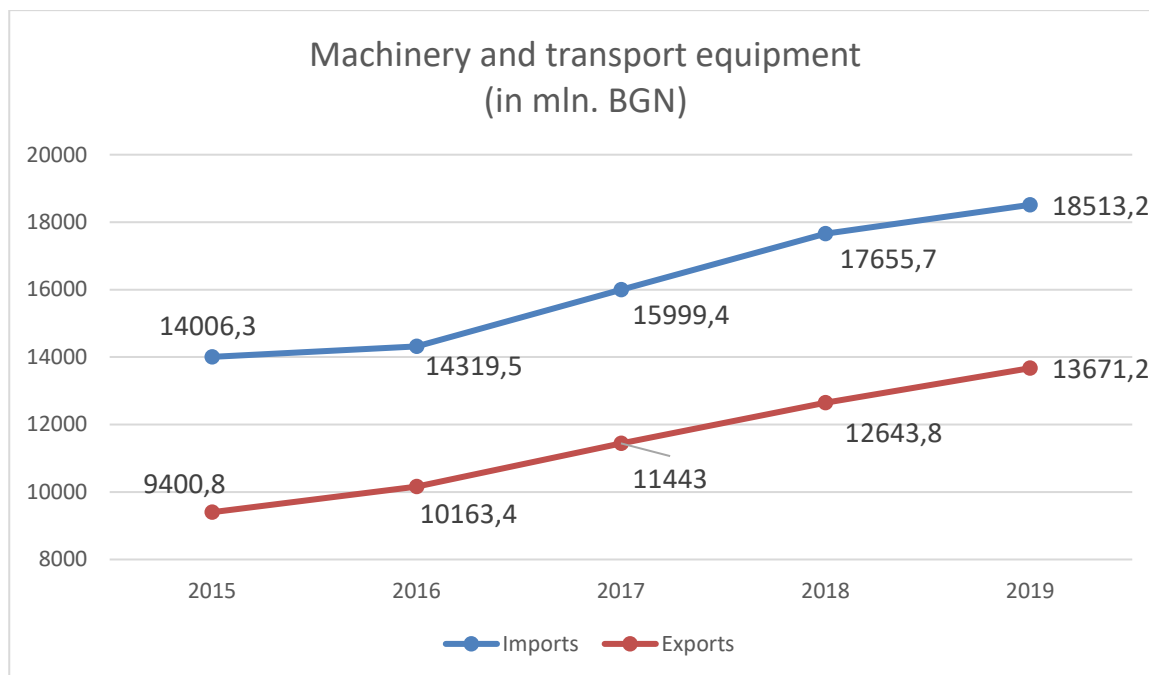


Figure 15: Machinery and transport equipment

Figure 70: Miscellaneous manufactured articles

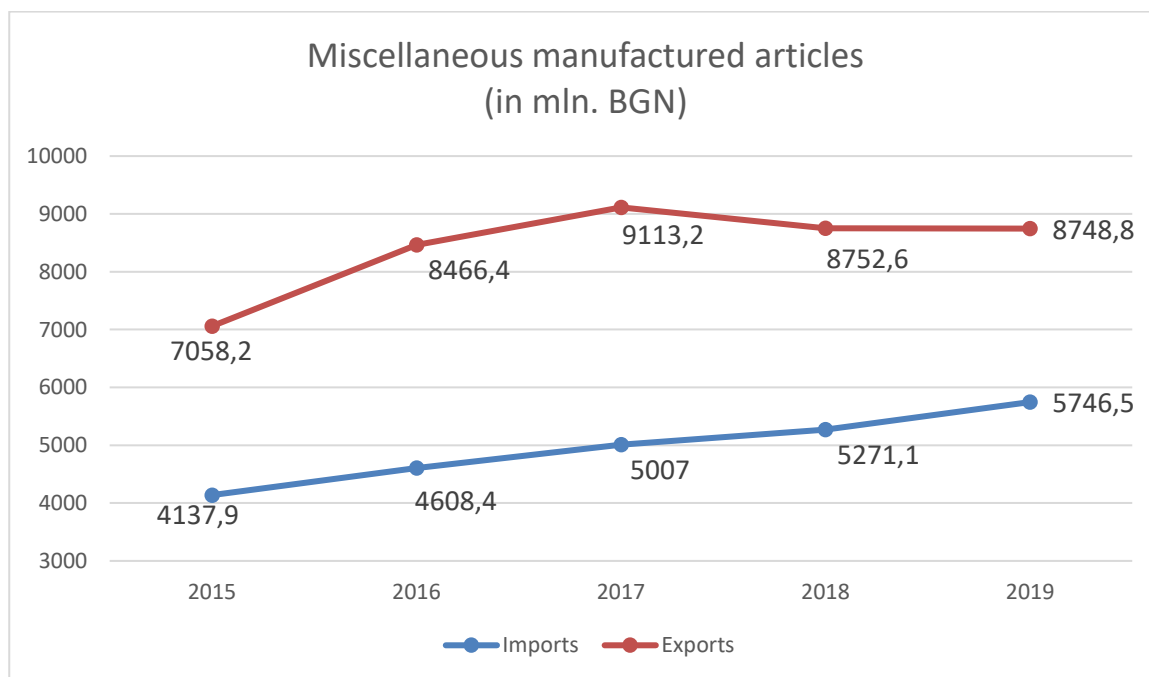
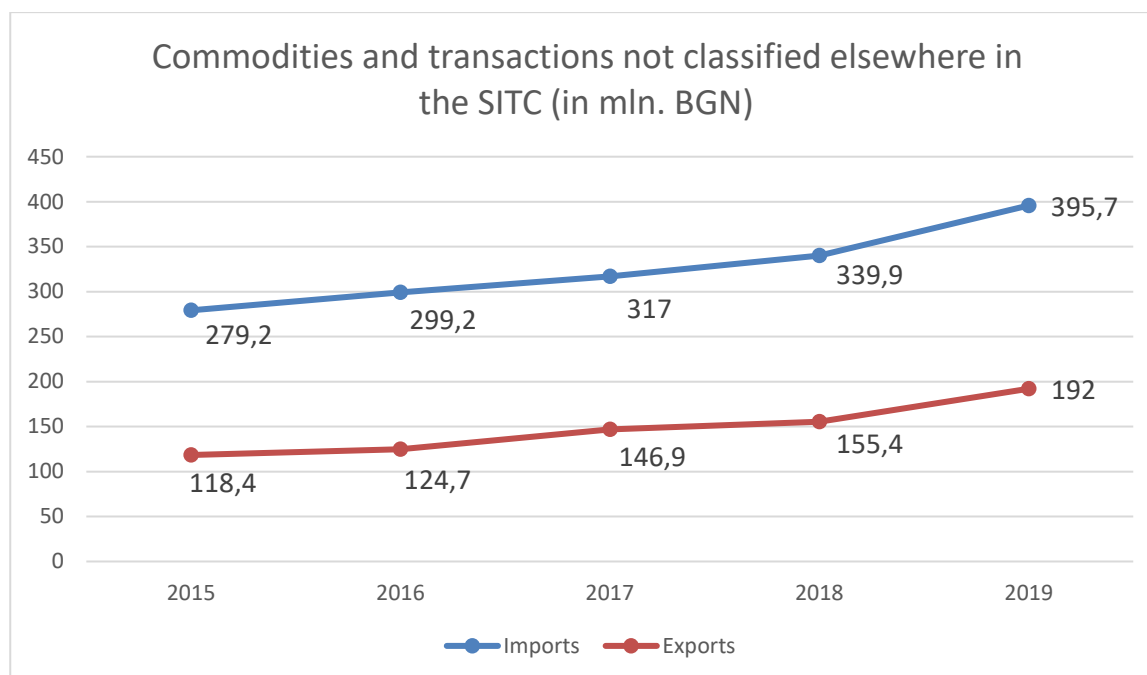


Figure 71: Commodities and transactions not classified elsewhere in the SITC



The table below presents the same categories of products in terms of their net weight in kilograms.

Table 72: Net weight of the imports, exports and trade balance of Bulgaria per product category for the 2015-2019 period

Product category	Imports (net weight in mln. kg)	Exports (net weight in mln. kg)	Trade balance
Food and live animals	2015 – 2 015.7	2015 – 6 439.7	2015 – 4 424
	2016 – 2 113.2	2016 – 7 971.5	2016 – 5 858.3
	2017 – 2 438.7	2017 – 7 477.4	2017 – 5 038.7
	2018 – 2 205.4	2018 – 7 931.1	2018 – 5 725.7
	2019 – 2 323.7	2019 – 10 115.7	2019 – 7 792
Beverages and tobacco	2015 – 319.6	2015 – 192.2	2015 – (-127.4)
	2016 – 232.7	2016 – 183.5	2016 – (-49.2)
	2017 – 258.9	2017 – 180.9	2017 – (-78)
	2018 – 297.4	2018 – 187.8	2018 – (-109.6)
	2019 – 363.5	2019 – 267.6	2019 – (-95.9)

Crude materials, inedible, except fuels	2015 – 2 914 2016 – 2 812.8 2017 – 3 490.9 2018 – 3 462.9 2019 – 3 574.8	2015 – 5 010 2016 – 4 876.2 2017 – 5 015 2018 – 4 615.6 2019 – 4 675.1	2015 – 2 096 2016 – 2 063.4 2017 – 1 524.1 2018 – 1 152.7 2019 – 1 100.3
Mineral fuels, lubricants and related materials	2015 – 12 212.3 2016 – 12 092.4 2017 – 12 815 2018 – 11 036.5 2019 – 11 685	2015 – 4 913 2016 – 5 064.5 2017 – 5 353.3 2018 – 4 124.9 2019 – 4 883	2015 – (-7 299.3) 2016 – (-7 027.9) 2017 – (-7 461.7) 2018 – (-6 911.6) 2019 – (-6 802)
Animal and vegetable oils, fats and waxes	2015 – 116 2016 – 115.7 2017 – 116.6 2018 – 122.4 2019 – 136.7	2015 – 308.7 2016 – 316.6 2017 – 391.6 2018 – 446.5 2019 – 448.2	2015 – 192.7 2016 – 200.9 2017 – 275 2018 – 324.1 2019 – 311.5
Chemicals and related products	2015 – 2 358.4 2016 – 2 761.1 2017 – 3 043.9 2018 – 3 014.7 2019 – 3 441.4	2015 – 3 918.1 2016 – 3 716.1 2017 – 4 484.2 2018 – 4 322.7 2019 – 4 635.2	2015 – 1 559.7 2016 – 955 2017 – 1 440.3 2018 – 1 308 2019 – 1 193.8
Manufactured goods classified chiefly by material	2015 – 4 077.3 2016 – 4 451.9 2017 – 4 391.8 2018 – 4 870.8 2019 – 5 230.5	2015 – 4 345.7 2016 – 4 838.7 2017 – 5 376.4 2018 – 4 990.2 2019 – 4 601	2015 – 268.4 2016 – 386.8 2017 – 984.6 2018 – 119.4 2019 – (-629.5)
Machinery and transport equipment	2015 – 764.4 2016 – 820 2017 – 861.7 2018 – 946.8 2019 – 968.5	2015 – 592.6 2016 – 644.9 2017 – 670.6 2018 – 708.1 2019 – 762.3	2015 – (-171.8) 2016 – (-175.1) 2017 – (-191.1) 2018 – (-238.7) 2019 – (-206.2)
Miscellaneous manufactured articles	2015 – 294.3 2016 – 341.9	2015 – 435 2016 – 483.5	2015 – 140.7 2016 – 141.6

	2017 – 355.9 2018 – 373 2019 – 401.3	2017 – 496 2018 – 508.7 2019 – 507.8	2017 – 140.1 2018 – 135.7 2019 – 106.5
Commodities and transactions not classified elsewhere in the SITC	2015 – 0.505 2016 – 0.453 2017 – 0.430 2018 – 0.515 2019 – 0.475	2015 – 0.186 2016 – 0.311 2017 – 0.259 2018 – 0.162 2019 – 0.538	2015 – (-0.319) 2016 – (-0.142) 2017 – (-0.171) 2018 – (-0.353) 2019 – (-0.063)

The following figures present the more important sub-categories of products, which have the biggest volume (both in terms of monetary value and net weight in kg.).

Figure 72: Meat and meat preparations (in mln BGN and in mln. net kg.)

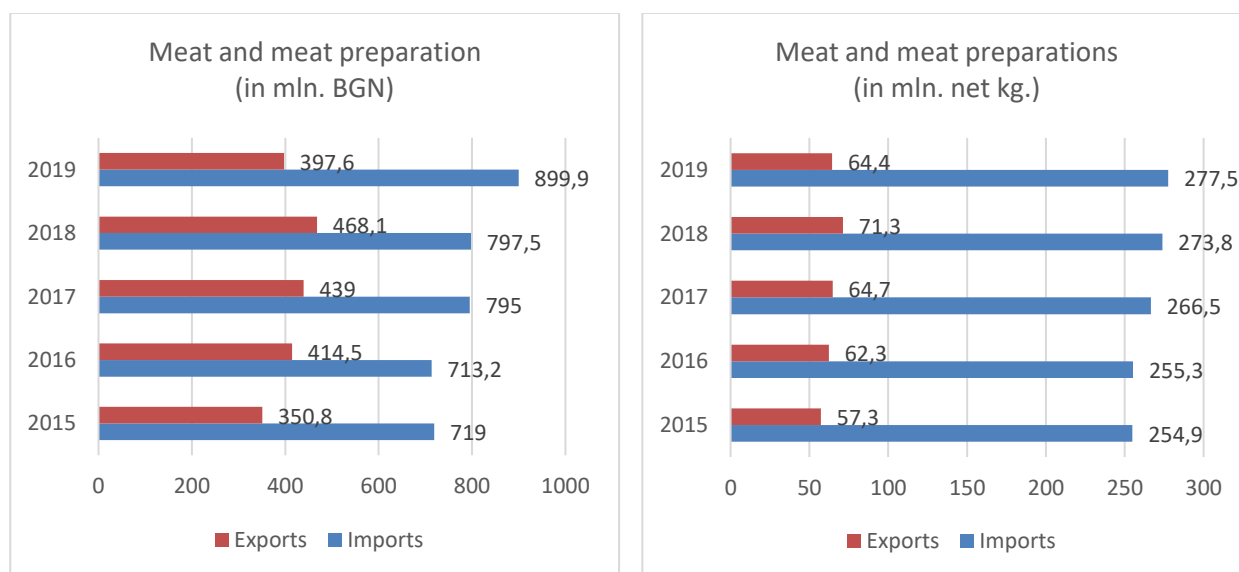


Figure 73: Dairy products and birds' eggs (in mln BGN and in mln. net kg.)

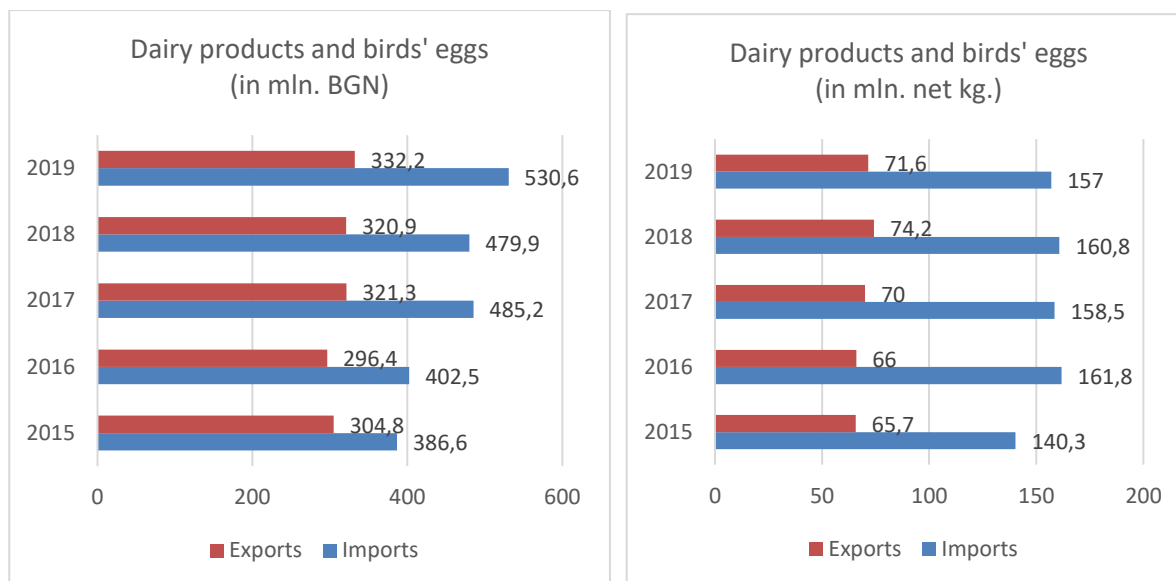


Figure 74: Fish, crustaceans, molluscs and preparations thereof (in mln. BGN and mln. kg.)

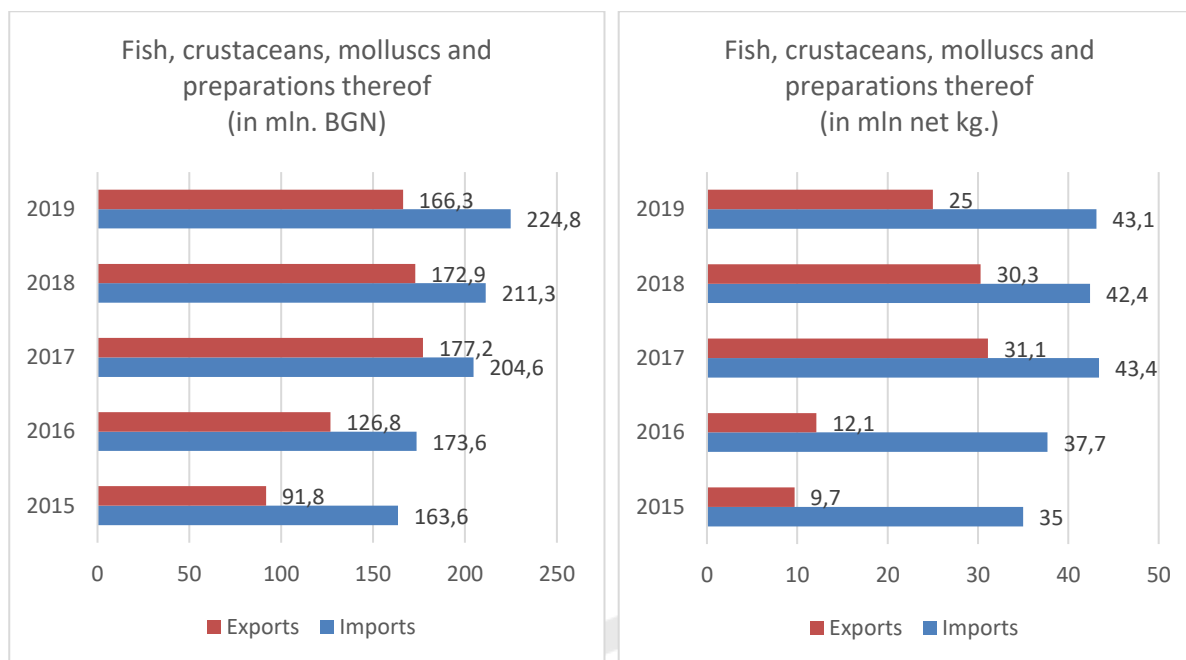


Figure 75: Cereals and cereal preparations (in mln. BGN and mln. kg.)

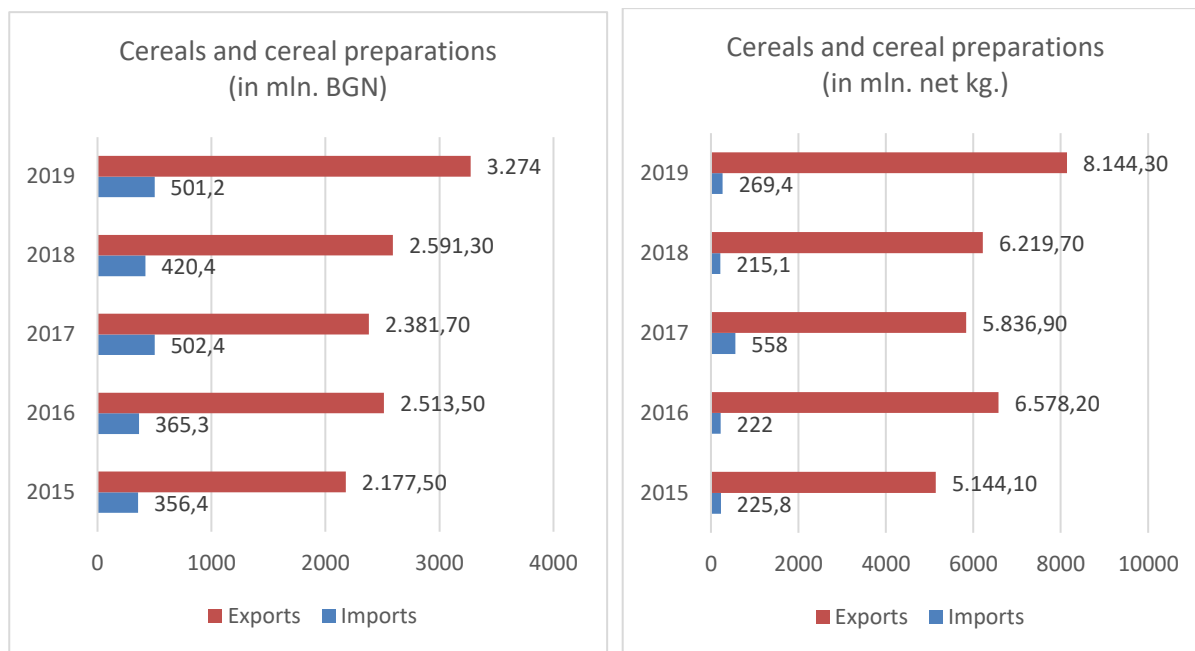


Figure 76: Vegetables and fruits (in mln. BGN and mln. kg.)

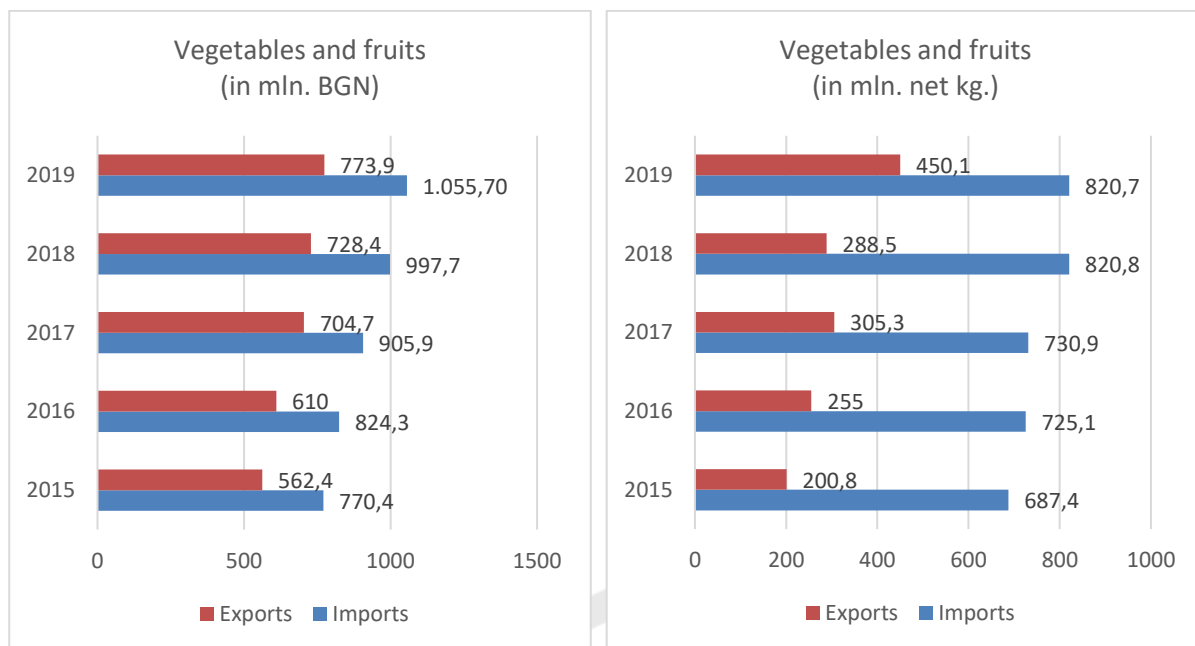
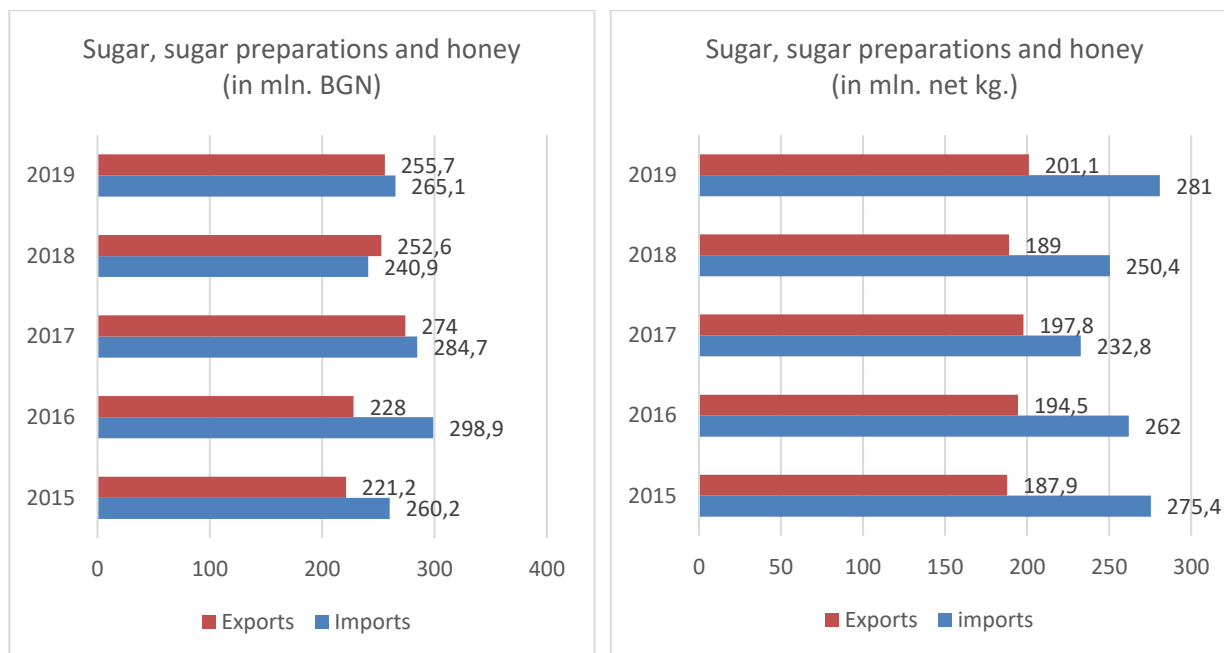


Figure 77: Sugar, sugar preparations and honey (in mln. BGN and mln. kg.)



The two subcategories from the “**Beverages and tobacco**” category are presented below:

Figure 78: Beverages (in mln. BGN and mln. kg.)

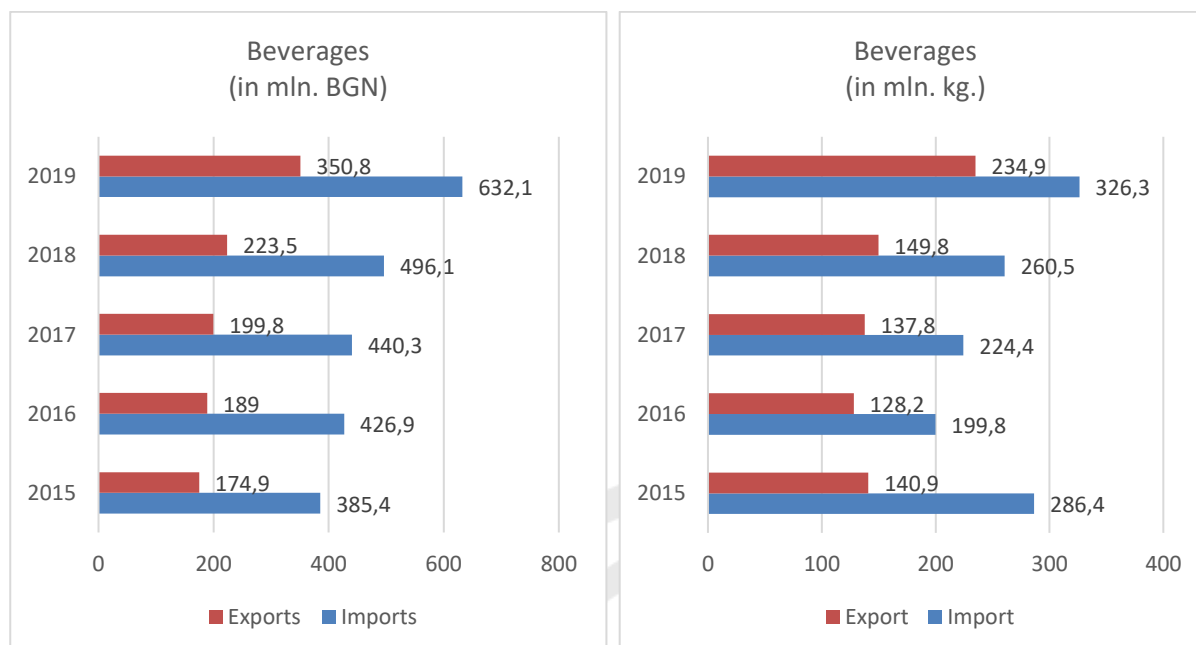
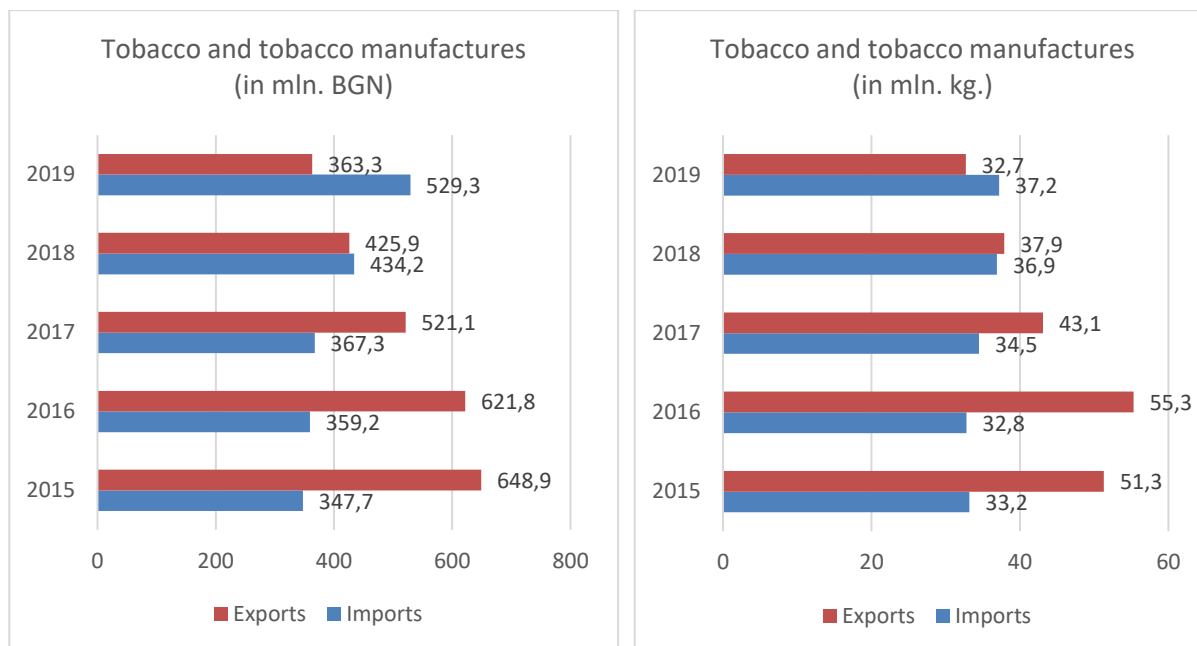


Figure 79: Tobacco and tobacco manufactures (in mln. BGN and mln. kg.)



In terms of the more important sub-categories from the “Crude materials, inedible, except fuels”:

Figure 80: Cork and wood (in mln. BGN and mln. kg.)

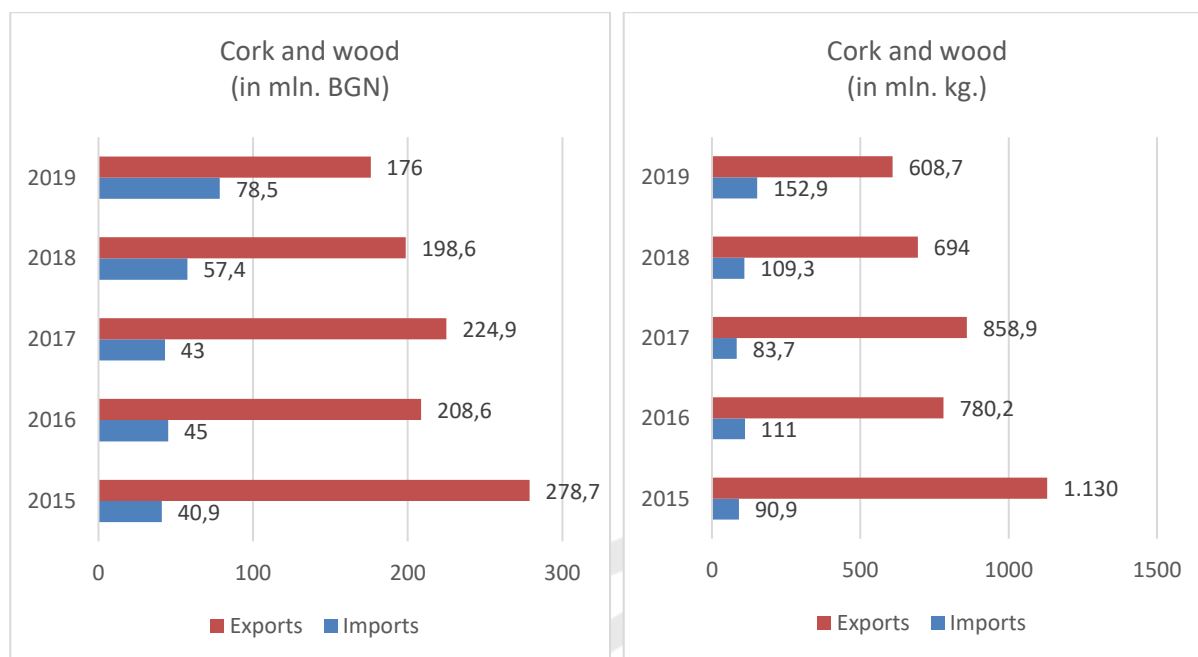
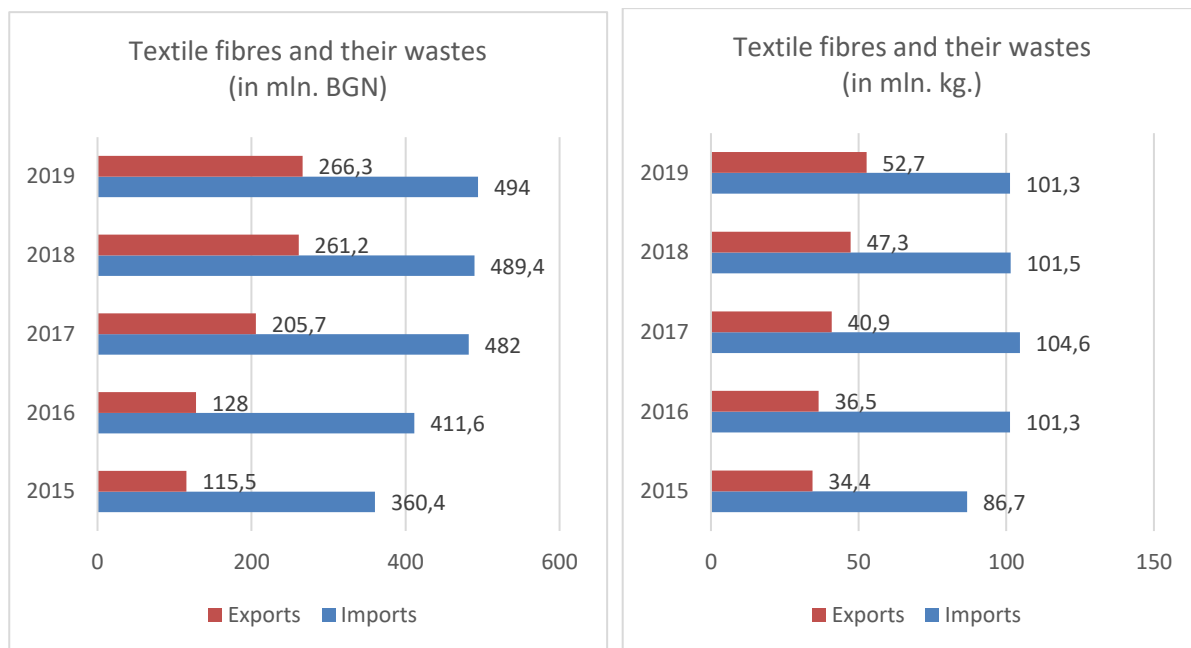


Figure 81: Textile fibres and their wastes (in mln. BGN and mln. kg.)



Other important sub-categories from the rest of the product groups:

Figure 82: Medicinal and pharmaceutical products (in mln. BGN and mln. kg.)

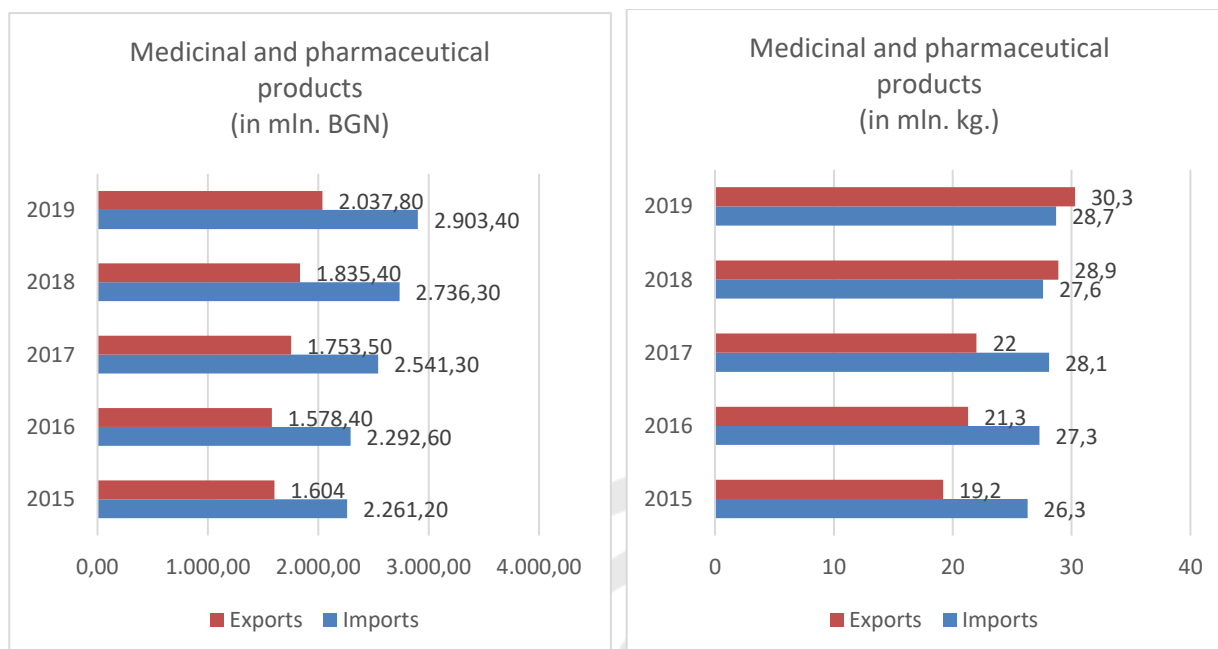


Figure 28: Medicinal and pharmaceutical products (in mln. BGN and mln. kg.)

Figure 83: Articles of apparel & clothing accessories (in mln. BGN and mln. kg.)

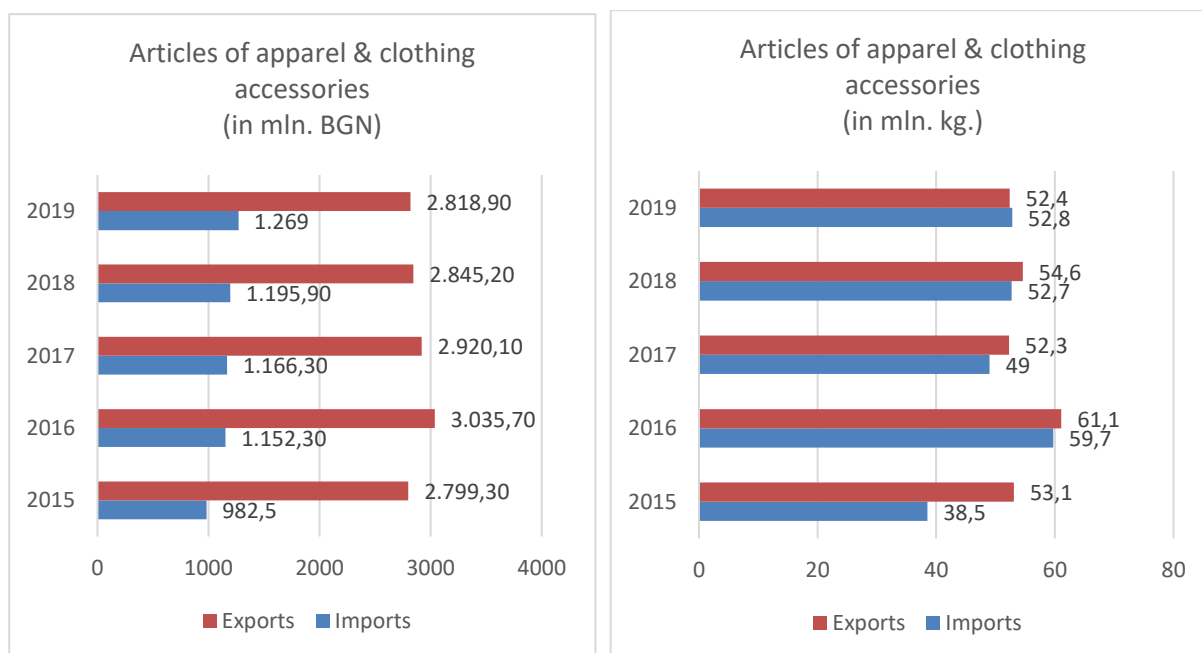
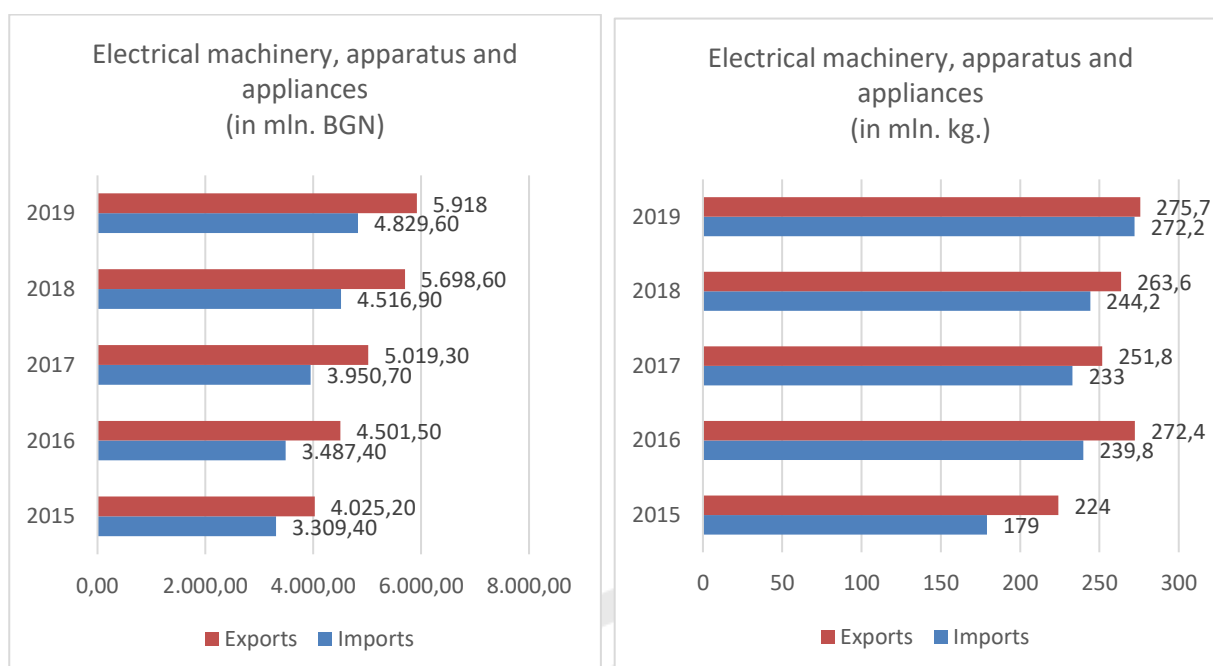


Figure 84: Electrical machinery, apparatus and appliances (in mln. BGN and mln. kg.)



The data in the table below includes the main Bulgarian export positions in the last 10 years (2010 – 2019). These are all the products, for which Bulgaria has earned more than 1 bln. BGN (500 mln. EUR) annually from export.

Table 73: Main export products (2010-2019) of Bulgaria

Product	Export for 2019 in EUR	Share of the BG export for 2019 (in %)	Share of the world export (in %)	Main export markets
Refined copper	879 210 000	2.96	2.1% (13 th in the world in 2018)	China, Turkey, Italy
Wheat	827 620 000	2.78	2.2% (10 th in the world in 2018)	Spain, Greece, Romania, the Philippines and the Netherlands
Petroleum or oils obtained from bituminous minerals	825 472 000	2.77	0.2% (44 th in the world in 2018)	Turkey, Serbia, North Macedonia
Light oils	794 665 000	2.67	0.4% (38 th in the world for 2018)	Tunis, Egypt, Ukraine, Greece, Italy, Georgia, Gibraltar
Medicines	707 143 000	2.38	0.3% (30 th in the world for 2018)	Russia, Germany, Romania, the UK, Netherlands and France
Unrefined copper	697 135 000	2.34	10% (4 th in the world for 2018)	Belgium and Germany
Ores and concentrates of precious metals	521 571 000	1.75	11.6% (3 rd in the world for 2018)	Germany and Canada

Conclusions on the trade flows development

When reviewing the trade flows of Bulgaria, the Standard International Trade Classification was used to determine the different product categories. Since this is an internationally accepted system of product classification, it would make the drawing of comparisons between different countries much easier.

Of course, not all categories could be shown in the tables and graphs in the previous section, but information about the most important and widely used types of products is reviewed. Naturally, Bulgaria is a net exporter in some of the product categories, while at the same time being a net importer in others. Some of the more traditionally strong sectors in the Bulgarian economy are the production of food, cereals (wheat, barley, maize), clothing etc. Those are the sectors, where the export exceeds the import.

At the same time, Bulgaria relies on imported fuels (oil, natural gas), meat and dairy products, textile fibers etc., therefore the country is a net importer of those products.

There are also some sectors, where the import/export ratio is approximately equal: electrical machinery and appliances, medicinal and pharmaceutical products, sugar and sugar preparations etc.

Some trends are visible for the reviewed five-year period (2015-2019). The most obvious one is that the trade volume (both imports and exports) is increasing. The average export growth in Bulgaria for the revised period is 8%, while the increase in imports is 7%.

The increased production capacity of the Bulgarian economy in recent years has led to more manufactured goods, which are being exported.

Some of the sectors actually show a trend switch (Bulgaria turning into a net importer from being a net exporter or vice versa). A good example for this is the beverages and tobacco sector, where the country became a net importer after 2016 mainly due to the decreased export of tobacco products and their increased import.

5.3 Croatia

Imports and Exports by category of goods, in euro per year:

Table 74: Imports and Exports by category of goods, Croatia

Export and Import (thousand euros) ⁹	Euro/year
Energy	23 430 360
Intermediate Goods, Except energy	52 597 818
Capital Goods	41 260 050
Durable consumer goods	8 113 947
Non durable consumer goods	44 518 443
Not classified	6 295 108
Total	23 747 557

Table 75: IMPORT OF CROATIA – INTRA-EU + EXTRA-EU TRADE

UVOZ HRVATSKE UNUTAR ZEMALJA EU-a I IZVAN NJIH
IMPORT OF CROATIA – INTRA-EU + EXTRA-EU TRADE

	2015.	2016.	2017.	2018.	2019.
					tis. tona '000 tonnes
Ukupno <i>Total</i>	16 895	18 294	18 890 ¹⁾	18 890 ¹⁾	20 139 ¹⁾
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	3 685	3 987	4 232	4 388	4 689
Metalne rude i koncentrat, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	1 725	1 956	1 991	2 122	2 352
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	3 619	3 971	4 141	4 140	4 854
Fosilna goriva/nositelji fosilnih goriva, sirovi i prerađeni <i>Fossil energy materials/carriers, raw and processed</i>	6 881	7 318	7 370	7 003	6 944
Ostali proizvodi <i>Other products</i>	985	1 061	1 155	1 235	1 294
Otpad uvezen radi konačne obrade i odlaganja <i>Waste imported for final treatment and disposal</i>	0	1	0	0	5

1) Ukupno ne odgovara zbroju pojedinih stavki zbog iskazivanja brojeva u tisućama.

1) *The sum total does not equal the sum of individual items due to the expression of numbers in thousands.*

⁹ Croatian Bureau of Statistics, Croatia in Figures, Zagreb 2019, page 28
https://www.dzs.hr/Hrv_Eng/CroInFig/croinfig_2019.pdf

Table 76: EXPORT OF CROATIA – INTRA-EU + EXTRA-EU TRADE

IZVOZ HRVATSKE UNUTAR ZEMALJA EU-a I IZVAN NJIH
EXPORT OF CROATIA – INTRA-EU + EXTRA-EU TRADE

	2015.	2016.	2017.	2018.	tis. tona '000 tonnes 2019.
Ukupno <i>Total</i>	16 147	16 981 ¹⁾²⁾	17 841 ¹⁾²⁾	17 469	17 601 ²⁾
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	6 742	7 011	7 416	6 937	7 433
Metalne rude i koncentracije, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	1 117	1 122	1 359	1 398	1 477
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	5 228	5 662	5 641	5 674	5 380
Materijali/nositelji fosilne energije, sirovi i prerađeni <i>Fossil energy materials/carriers, raw and processed</i>	2 364	2 626	2 859	2 907	2 723
Ostali proizvodi <i>Other products</i>	671	544	558	542	578
Otpad izvezen radi konačne uporabe i odlaganja <i>Waste exported for final treatment and disposal</i>	25	17 ¹⁾	9 ¹⁾	11	9

- 1) Kod proračuna tokova materijala svake se godine koriste novi izračuni prema preporučenoj metodologiji Eurostata. Stoga podaci nisu usporedivi s podacima iz Priopćenja 6.1.8./2019.
2) Ukupno ne odgovara zbroju pojedinih stavki zbog iskazivanja brojeva u tisućama.

- 1) *New calculations according to the recommended Eurostat methodology are used each year to calculate material flows. Therefore, the data are not comparable to that of the First Release 6.1.8./2019.*
2) *The sum total does not equal the sum of individual items due to the expression of numbers in thousands.*

Conclusions on the trade flows development

Economic material flow accounts that include domestic extraction, intra-EU and extra-EU import and export as well as domestic processed output for the Republic of Croatia are presented for the period from 2015 to 2019.

In 2019, the value of the direct material input was 61 618 thousand tonnes (67.3% from domestic sources and 32.7% from import), which was 2.6% more than in 2018.

Domestic material consumption in 2019 was 44 017 thousand tonnes, which was 3.4% more than in 2018.

Physical trade balance in 2019 was 2 538 thousand tonnes, which was 78.7% more than in 2018.

5.4 Hungary

Imports

Imports by commodity groups 2015-2019, Hungary (current prices, million euros)

Table 77: Imports by commodity groups 2015-2019, Hungary (current prices, million euros)

Commodity group / year	2015	2016	2017	2018	2019
Food, beverages, tobacco (0 + 1)	4 226,4	4 498,0	4 892,7	5 129,4	5 557,8
Live animal	178,5	203,8	273,7	213,5	214,7
Meat and meat products	495,4	586,5	717,7	749,0	843,4
Dairy products and eggs	382,8	397,5	475,6	485,8	508,5
Fish, crab, molluscs	87,7	95,7	99,3	110,0	108,7
Cereals and cereal products	470,8	462,4	481,2	517,1	616,2
Vegetables and fruits	622,6	679,3	696,1	762,2	870,6
Sugar, sugar confectionery and honey	182,8	224,3	194,4	162,6	174,5
Coffee, tea, cocoa, spices	422,8	442,8	483,7	502,0	508,3
Animal feed (without grain)	454,5	422,5	443,8	497,5	525,8
Other edible products and preparations	498,8	525,4	520,4	553,2	584,1
Drink	222,1	245,4	263,4	311,7	341,7
Tobacco and tobacco products	207,6	212,5	243,4	264,7	261,4
Raw materials (2 + 4)	1 738,6	1 731,0	2 069,6	2 123,5	2 212,3
Raw hides and skins	4,5	4,3	3,1	5,3	3,0
Oil seeds and oleaginous fruits	222,7	241,6	225,9	225,8	240,7
Raw, synthetic and regenerated rubber	352,3	294,5	412,3	379,0	367,4
Wood and cork	188,0	207,4	220,0	247,1	304,1
Pulp and paper waste	142,9	144,9	158,7	153,5	146,7
Textile fibres and waste	136,2	128,2	129,6	125,4	120,4

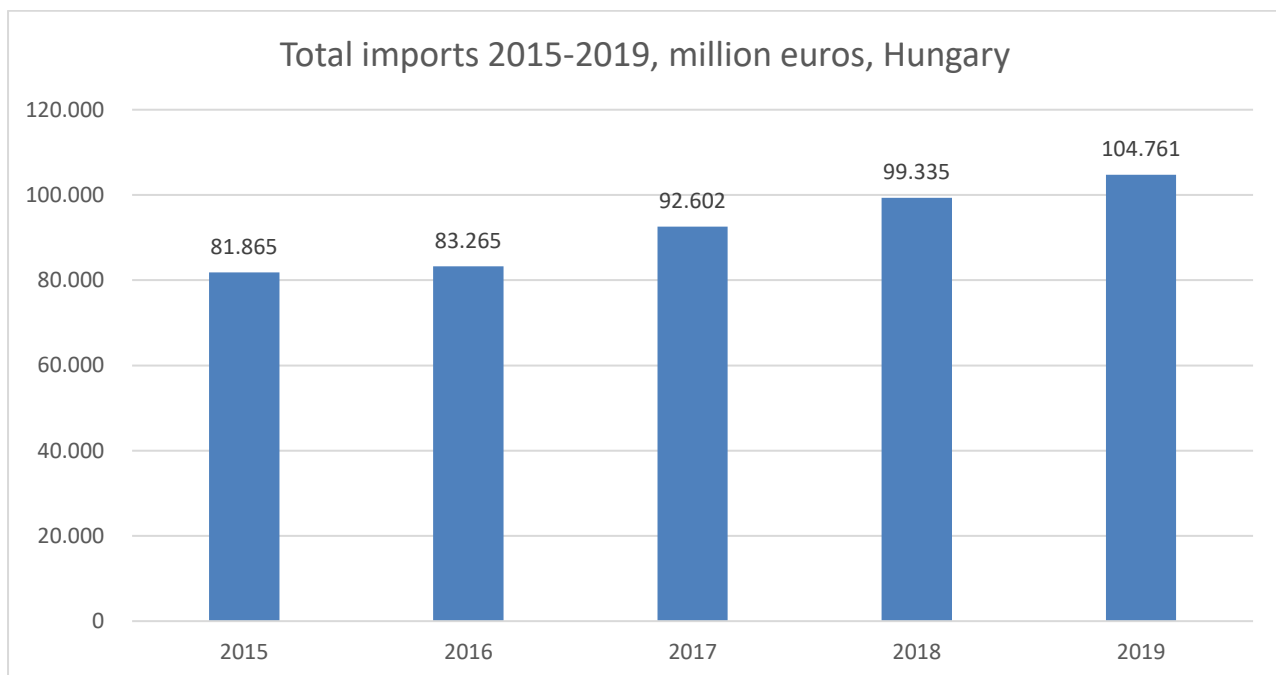
Commodity group / year	2015	2016	2017	2018	2019
Natural fertilizer, fertilizer raw material, mineral raw material	100,6	110,6	123,7	170,7	188,0
Metal ores and scrap metal	231,9	204,7	374,2	395,3	381,8
Raw materials of animal and vegetable origin	190,3	211,2	211,8	221,5	270,1
Animal oil and fat	23,1	22,9	30,7	32,2	33,2
Vegetable oil and fat	109,6	111,6	122,9	116,4	101,8
Processed animal and vegetable fats, oils, waxes	36,5	49,2	56,7	51,2	54,9
Energy carriers (3)	6 698,5	5 305,6	7 190,8	8 121,4	8 421,2
Coal, coke and briquettes	177,1	156,6	272,9	297,0	272,0
Petroleum and petroleum products	3 276,1	2 824,4	3 608,0	4 499,5	4 495,8
Natural and artificial gas	2 040,6	1 304,1	1 923,7	1 996,5	2 245,4
Electricity	1 204,7	1 020,6	1 386,1	1 328,4	1 408,0
Processed products (5 + 6 + 8 + 9)	29 092,6	30 274,4	33 558,3	36 571,2	37 790,7
Organic chemical product	1 098,2	1 040,8	1 225,6	1 328,4	1 320,2
Inorganic chemical product	331,8	320,8	383,2	423,4	399,3
Dyeing, tanning and dyeing	443,0	451,8	501,5	501,0	518,1
Medicine, pharmaceutical product	3 579,0	3 515,5	3 785,3	4 457,5	4 433,9
Essential oil, fragrance and cleaning agent	979,8	1 033,5	1 110,8	1 187,5	1 230,7
Fertilizer	344,3	330,6	367,8	336,0	356,3
Plastic raw material	1 395,9	1 469,0	1 591,3	1 798,2	1 710,7
Plastic product	910,5	973,4	1 063,2	1 107,7	1 213,1
Other chemicals and products	1 049,4	1 042,2	1 215,2	1 314,6	1 591,9
Finished leather, leather goods	361,0	363,1	365,7	317,9	266,2
Rubber products	1 256,8	1 344,5	1 341,1	1 391,8	1 367,0
Wood products (without furniture) and cork products	328,2	367,7	408,3	442,6	435,3

Commodity group / year	2015	2016	2017	2018	2019
Paper, paperboard, paper pulp and articles thereof	1 114,4	1 142,9	1 242,3	1 352,6	1 335,5
Textile yarn, woven fabrics and other textile articles	1 021,8	1 119,9	1 163,8	1 147,8	1 226,0
Non - metallic mineral product	956,1	1 016,2	1 088,1	1 179,7	1 276,5
Iron and steel	1 972,3	2 053,3	2 539,4	2 891,8	2 672,1
Non-ferrous metal	1 820,1	1 679,7	2 024,7	2 245,9	2 069,0
Other metal products	2 883,9	3 039,0	3 325,1	3 521,1	3 670,9
Prefabricated building; sanitary, building engineering, heating and lighting fittings and apparatus	476,3	529,3	496,3	561,5	576,3
Furniture and furniture elements	635,7	721,6	774,8	834,5	1 004,3
Travel goods, handbags and similar containers	103,8	113,8	157,5	164,8	187,1
Articles of apparel and clothing accessories	1 007,2	1 119,7	1 288,3	1 552,1	1 527,9
Footwear	473,5	553,0	608,8	725,8	763,5
Professional, scientific control instrument	1 305,4	1 432,8	1 622,2	1 702,3	1 953,5
Photographic and optical apparatus and equipment, watches and clocks	326,4	365,7	382,2	449,0	483,1
Other processed products	2 567,7	2 773,2	3 159,9	3 295,7	3 483,2
Returning goods and special transaction or product not elsewhere classified	306,3	323,2	291,1	294,1	672,1
Coin	0,2	0,2	0,2	0,1	0,1
Gold is not a means of payment	43,2	38,1	34,3	45,6	46,9
Machinery and equipment, used and reconditioned (7)	40 108,8	41 456,3	44 891,1	47 389,2	50 779,0
Energy generating machinery and equipment	4 651,0	4 933,5	4 853,8	4 357,6	4 603,6
Special craft machine	1 665,4	1 750,3	2 039,9	2 194,4	2 706,5
Metalworking machine	518,5	532,7	621,1	569,6	695,2
General purpose industrial machinery	5 346,1	5 572,4	5 600,7	5 954,4	6 028,5

Commodity group / year	2015	2016	2017	2018	2019
Office machinery and data processing equipment	2 711,0	2 740,8	2 949,3	3 320,5	3 472,0
Telecommunications, sound recording and reproducing apparatus	4 959,7	4 777,5	5 229,0	5 264,9	6 368,4
Electrical machinery, apparatus and instruments	10 739,4	11 373,7	12 785,9	14 194,6	15 515,2
Road vehicle	8 398,4	8 904,8	9 773,4	10 233,1	10 507,0
Other means of transport	1 119,3	870,6	1 038,2	1 300,1	882,5
Total	81 864,9	83 265,4	92 602,4	99 334,7	104 761,0

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qkt023b.html

Figure 85: Total imports 2015-2019, million euros, Hungary



Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qkt023b.html

Distribution of imports by product 2015-2019, Hungary (million tonnes) is shown in the table below.

Table 78: Imports by product 2015-2019, Hungary (million tonnes)

Product / year	2015	2016	2017	2018	2019
Total Product	46,72585252	49,07036354	53,4172276	58,55477271	60,29619067
Live animals, animal products	0,649625449	0,663591435	0,75068685	0,749041782	0,766420477
Vegetable products	1,673364803	1,80183875	1,721081557	1,676352081	1,720101454
Animal and vegetable fats, oils and waxes	0,260258674	0,266978602	0,275972839	0,283662841	0,275760339
Food preparations, beverages, tobacco	2,55205665	2,724525278	2,731545226	2,972006542	3,129520296
Mineral products	21,69461906	22,65753173	25,60281526	28,48107271	30,77648873
Chemical products	4,241720656	4,361081557	4,747106784	4,683634095	4,701444703
Plastics, rubber and articles thereof	1,872022431	1,986542465	2,114729952	2,212991323	2,268756237
Leather and fur and articles thereof	0,026959046	0,034648668	0,061304164	0,061581023	0,042713885
Wood, wood products, wickerwork	1,752829835	2,076007128	2,001560974	2,694172293	2,167824751
Paper raw materials and goods	1,696401	1,785295659	1,880687653	1,931835516	1,886208674
Textile raw materials, textile goods	0,327218227	0,353565879	0,417119677	0,471453224	0,416488558
Footwear, headgear, umbrellas, feathers and down	0,03275153	0,038598877	0,052845077	0,082965073	0,058410887
Stone and cement products, ceramics, glass and glassware	1,09385298	1,185772591	1,279465968	1,460915727	1,503200678
Pearls, precious stones, precious metals, jewellery, coins	0,000826002	0,000999986	0,002340513	0,002907971	0,001476789

Product / year	2015	2016	2017	2018	2019
Base metals and articles of base metal	3,904670989	4,421428037	4,728060135	5,149806742	4,947382994
Machinery and electrical goods	2,630488942	3,042076027	3,232634456	3,736397806	3,690903598
Vehicles and transport equipment	1,948755658	1,26562691	1,351519144	1,393325611	1,406778961
Optical, medical and measuring instruments, clocks, musical instruments	0,052184212	0,05719456	0,059130663	0,082511878	0,080949055
Weapons, ammunition	0,002065699	0,001749202	0,001958475	0,001830468	0,002528574
Various goods	0,280998419	0,318019222	0,360789767	0,3987697	0,41201935
Works of art, collectors' pieces and antiques	0,000070446	0,000126486	0,000070998	0,000023974	0,000044457
Return goods	0,032111804	0,027164482	0,043801476	0,027514327	0,040767226

Source: <http://statinfo.ksh.hu/Stainfo/haViewer.jsp>

Export

Export by commodity groups 2015-2019, Hungary (current prices, million euros)

Commodity group / year	2015	2016	2017	2018	2019
Food, beverages, tobacco (0 + 1)	6 585,1	7 538,2	7 538,2	7 538,2	7 538,2
Live animal	306,7	419,2	419,2	419,2	419,2
Meat and meat products	1 176,1	1 351,2	1 351,2	1 351,2	1 351,2
Dairy products and eggs	405,7	500,8	500,8	500,8	500,8
Fish, crab, molluscs	23,9	17,0	17,0	17,0	17,0
Cereals and cereal products	1 648,6	1 631,2	1 631,2	1 631,2	1 631,2
Vegetables and fruits	869,9	912,2	912,2	912,2	912,2
Sugar, sugar confectionery and honey	300,0	275,9	275,9	275,9	275,9

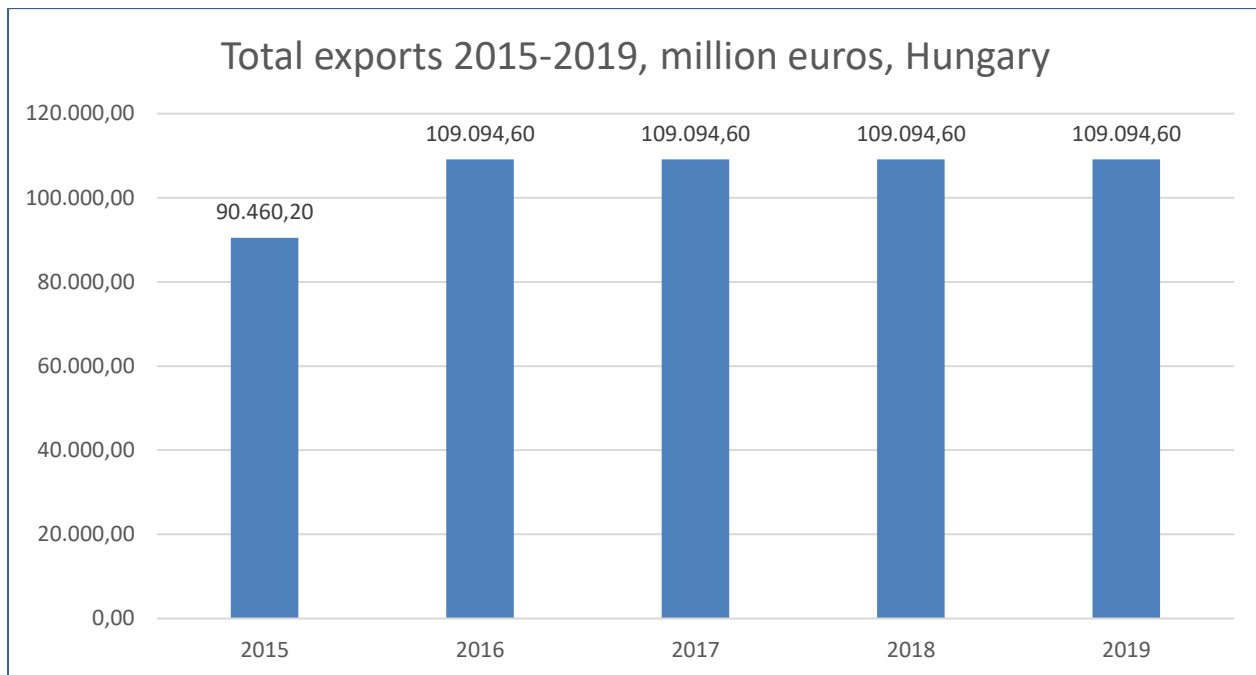
Commodity group / year	2015	2016	2017	2018	2019
Coffee, tea, cocoa, spices	274,1	342,1	342,1	342,1	342,1
Animal feed (without grain)	818,9	960,6	960,6	960,6	960,6
Other edible products and preparations	418,3	567,1	567,1	567,1	567,1
Drink	256,2	351,5	351,5	351,5	351,5
Tobacco and tobacco products	86,7	209,4	209,4	209,4	209,4
Raw materials (2 + 4)	2 054,2	2 502,4	2 502,4	2 502,4	2 502,4
Raw hides and skins	10,2	5,4	5,4	5,4	5,4
Oil seeds and oleaginous fruits	443,1	620,5	620,5	620,5	620,5
Raw, synthetic and regenerated rubber	132,2	129,4	129,4	129,4	129,4
Wood and cork	192,6	203,0	203,0	203,0	203,0
Pulp and paper waste	53,7	47,1	47,1	47,1	47,1
Textile fibers and waste	63,7	89,8	89,8	89,8	89,8
Natural fertilizer, fertilizer raw material, mineral raw material	50,5	60,2	60,2	60,2	60,2
Metal ores and scrap metal	466,3	558,0	558,0	558,0	558,0
Raw materials of animal and vegetable origin	162,5	247,6	247,6	247,6	247,6
Animal oil and fat	16,0	17,9	17,9	17,9	17,9
Vegetable oil and fat	460,3	518,3	518,3	518,3	518,3
Processed animal and vegetable fats, oils, waxes	3,1	4,9	4,9	4,9	4,9
Energy carriers (3)	2 079,4	2 859,1	2 859,1	2 859,1	2 859,1
Coal, coke and briquettes	69,3	83,0	83,0	83,0	83,0
Petroleum and petroleum products	1 200,9	1 456,3	1 456,3	1 456,3	1 456,3
Natural and artificial gas	145,4	520,9	520,9	520,9	520,9
Electricity	663,7	798,9	798,9	798,9	798,9
Processed products (5 + 6 + 8 + 9)	28 075,4	33 535,7	33 535,7	33 535,7	33 535,7

Commodity group / year	2015	2016	2017	2018	2019
Organic chemical product	1 286,2	1 582,7	1 582,7	1 582,7	1 582,7
Inorganic chemical product	326,0	478,5	478,5	478,5	478,5
Dyeing, tanning and dyeing	117,3	158,0	158,0	158,0	158,0
Medicine, pharmaceutical product	4 494,6	5 615,0	5 615,0	5 615,0	5 615,0
Essential oil, fragrance and cleaning agent	1 056,8	1 206,9	1 206,9	1 206,9	1 206,9
Fertilizer	125,6	111,3	111,3	111,3	111,3
Plastic raw material	1 541,3	1 580,3	1 580,3	1 580,3	1 580,3
Plastic product	585,5	753,6	753,6	753,6	753,6
Other chemicals and products	639,7	1 029,5	1 029,5	1 029,5	1 029,5
Finished leather, leather goods	310,3	293,7	293,7	293,7	293,7
Rubber products	1 997,8	2 181,2	2 181,2	2 181,2	2 181,2
Wood products (without furniture) and cork products	432,7	486,0	486,0	486,0	486,0
Paper, paperboard, paper pulp and articles thereof	1 129,6	1 183,1	1 183,1	1 183,1	1 183,1
Textile yarn, woven fabrics and other textile articles	776,6	868,1	868,1	868,1	868,1
Non - metallic mineral product	1 324,1	1 487,9	1 487,9	1 487,9	1 487,9
Iron and steel	831,6	1 292,8	1 292,8	1 292,8	1 292,8
Non-ferrous metal	659,1	808,0	808,0	808,0	808,0
Other metal products	2 116,0	2 458,9	2 458,9	2 458,9	2 458,9
Prefabricated building; sanitary, building engineering, heating and lighting fittings and apparatus	542,4	631,9	631,9	631,9	631,9
Furniture and furniture elements	1 162,8	1 119,8	1 119,8	1 119,8	1 119,8
Travel goods, handbags and similar containers	87,6	130,4	130,4	130,4	130,4
Articles of apparel and clothing accessories	622,1	728,5	728,5	728,5	728,5

Commodity group / year	2015	2016	2017	2018	2019
Footwear	411,4	625,6	625,6	625,6	625,6
Professional, scientific control instrument	2 626,0	2 900,0	2 900,0	2 900,0	2 900,0
Photographic and optical apparatus and equipment, watches and clocks	298,1	432,3	432,3	432,3	432,3
Other processed products	2 383,3	3 012,1	3 012,1	3 012,1	3 012,1
Returning goods and special transaction or product not elsewhere classified	133,6	299,4	299,4	299,4	299,4
Coin	0,0	0,0	0,0	0,0	0,0
Gold is not a means of payment	57,5	80,1	80,1	80,1	80,1
Machinery and equipment, used and reconditioned (7)	51 666,2	62 659,3	62 659,3	62 659,3	62 659,3
Energy generating machinery and equipment	8 477,0	8 429,3	8 429,3	8 429,3	8 429,3
Special craft machine	1 237,3	1 557,8	1 557,8	1 557,8	1 557,8
Metalworking machine	157,2	182,9	182,9	182,9	182,9
General purpose industrial machinery	4 053,9	4 813,0	4 813,0	4 813,0	4 813,0
Office machinery and data processing equipment	3 613,3	4 143,3	4 143,3	4 143,3	4 143,3
Telecommunications, sound recording and reproducing apparatus	6 212,5	9 513,4	9 513,4	9 513,4	9 513,4
Electrical machinery, apparatus and instruments	11 330,8	14 217,3	14 217,3	14 217,3	14 217,3
Road vehicle	16 224,5	19 364,8	19 364,8	19 364,8	19 364,8
Other means of transport	359,6	437,5	437,5	437,5	437,5
Total	90 460,2	109 094,6	109 094,6	109 094,6	109 094,6

Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qkt023b.html

Figure 86: Total exports 2015-2019, million euros, Hungary



Source: https://www.ksh.hu/docs/hun/xstadat/xstadat_eves/i_qkt023b.html

Distribution of exports by products 2015-2019, Hungary (million tons) is shown in the table below.

Table 79: Exports by product 2015-2019, Hungary (million tonnes)

Product / year	2015	2016	2017	2018	2019
Total Product	41,08452929	40,4291138	45,27307021	43,9151358	44,39511796
Live animals, animal products	1,121373652	1,095799751	1,102767825	1,150484427	1,145348762
Vegetable products	9,467819822	8,576734308	10,8298706	7,973855881	8,860054839
Animal and vegetable fats, oils and waxes	0,595556264	0,584227991	0,709699816	0,723604379	0,749276359
Food preparations, beverages, tobacco	3,874712014	4,143018194	4,553111346	4,62333716	4,775991396
Mineral products	7,15248384	6,89518524	7,723286505	8,440347789	8,317584855
Chemical products	3,559814929	3,624061064	3,816523828	3,796521671	3,749116221
Plastics, rubber and articles thereof	2,224067414	2,242451245	2,323483671	2,415225729	2,395822164

Product / year	2015	2016	2017	2018	2019
Leather and fur and articles thereof	0,025116477	0,026788414	0,036012207	0,036973106	0,028330943
Wood, wood products, wickerwork	2,148182384	2,06374287	2,042112991	1,917381768	1,984215787
Paper raw materials and goods	1,244647229	1,275451667	1,352455656	1,386084966	1,411793873
Textile raw materials, textile goods	0,224586291	0,237183893	0,270752783	0,246925493	0,269339129
Footwear, headgear, umbrellas, feathers and down	0,01990031	0,023784792	0,026416831	0,030954774	0,025242186
Stone and cement products, ceramics, glass and glassware	1,52500436	1,585992414	1,573894584	1,647769037	1,579331439
Pearls, precious stones, precious metals, jewellery, coins	0,000413954	0,000723785	0,000957803	0,001762453	0,004449254
Base metals and articles of base metal	3,300554508	3,384141741	3,944751745	4,173342717	3,800512878
Machinery and electrical goods	2,311512255	2,337836844	2,500116109	2,848183264	2,744794426
Vehicles and transport equipment	1,786701409	1,814361973	1,937872914	1,988806727	2,074596348
Optical, medical and measuring instruments, clocks, musical instruments	0,059025728	0,068885583	0,080582726	0,073536694	0,073966231
Weapons, ammunition	0,002504523	0,002254983	0,00223553	0,002493487	0,002293787
Various goods	0,417818036	0,433498097	0,431425119	0,417832236	0,389171125
Works of art, collectors' pieces and antiques	0,000064987	0,000073714	0,000054594	0,000011955	0,000041448
Return goods	0,022668902	0,012915241	0,014685024	0,01970009	0,013844514

 Source: <http://statinfo.ksh.hu/Statinfo/haViewer.jsp>

Conclusions on the trade flows development

In the tables below is presented the growth 2019 – 2015 for imports and exports by category of goods.

Table 80: Growth 2019 – 2015 for imports by category of goods

Import

Product	Growth 2019 - 2015
Total Product	29%
Live animals, animal products	18%
Vegetable products	3%
Animal and vegetable fats, oils and waxes	6%
Food preparations, beverages, tobacco	23%
Mineral products	42%
Chemical products	11%
Plastics, rubber and articles thereof	21%
Leather and fur and articles thereof	58%
Wood, wood products, wickerwork	24%
Paper raw materials and goods	11%
Textile raw materials, textile goods	27%
Footwear, headgear, umbrellas, feathers and down	78%
Stone and cement products, ceramics, glass and glassware	37%
Pearls, precious stones, precious metals, jewellery, coins	79%
Base metals and articles of base metal	27%
Machinery and electrical goods	40%
Vehicles and transport equipment	-28%

Product	Growth 2019 - 2015
Optical, medical and measuring instruments, clocks, musical instruments	55%
Weapons, ammunition	22%
Various goods	47%
Works of art, collectors' pieces and antiques	-37%
Return goods	27%

Source: <http://statinfo.ksh.hu/Stainfo/haViewer.jsp>

The table showing the change in the volume of imports shows that total imports increased by 29%; the highest increase is shown in the Pearls, precious stones, precious metals, jewellery, coins category (71% between 2015-2019) and the largest decrease in the Works of art, collectors' pieces and antiques category (37% between 2015-2019).

Table 81: Growth 2019 – 2015 for exports by category of goods

Export

Product	Growth 2019 - 2015
Total Product	8,06%
Live animals, animal products	2,14%
Vegetable products	-6,42%
Animal and vegetable fats, oils and waxes	25,81%
Food preparations, beverages, tobacco	23,26%
Mineral products	16,29%
Chemical products	5,32%
Plastics, rubber and articles thereof	7,72%
Leather and fur and articles thereof	12,80%
Wood, wood products, wickerwork	-7,63%
Paper raw materials and goods	13,43%
Textile raw materials, textile goods	19,93%
Footwear, headgear, umbrellas, feathers and down	26,84%

Product	Growth 2019 - 2015
Stone and cement products, ceramics, glass and glassware	3,56%
Pearls, precious stones, precious metals, jewellery, coins	107%
Base metals and articles of base metal	15,15%
Machinery and electrical goods	18,74%
Vehicles and transport equipment	16,11%
Optical, medical and measuring instruments, clocks, musical instruments	25,31%
Weapons, ammunition	-8,41%
Various goods	-6,86%
Works of art, collectors' pieces and antiques	-36,22%
Return goods	-38,93%

Source: <http://statinfo.ksh.hu/Stainfo/haViewer.jsp>

The table showing the change in the volume of exports shows that total exports increased by 8%; the highest increase is shown in the Pearls, precious stones, precious metals, jewellery, coins category (107% between 2015 and 2019) and the largest decrease in the Return goods category (38% between 2015 and 2019).

5.5 Romania

5.5.1 Imports

Trade flows in monetary terms

Data for Romania is presented at NUTS2 level. Categories of goods are defined as considered by the National Statistics Institute.

Imports in Euro

The presentation of trade flows is organized as follows:

- Total imports, country level, by category of goods, 2015 - 2019
- Total imports by NUTS2 – region level, 2015 – 2019
- Imports by NUTS2 and category of goods, 2019

Table 82: Total imports, country level, by category of goods, 2015 – 2019, in th. EURO, Romania

Category of goods	2015	2016	2017	2018	2019
I. Live animals and animal products	1254098	1440755	1688616	1773796	1979525
II. Vegetable products	2037282	2329389	2395445	2316612	2516267
III. Animal or vegetable fats and oils	183982	189373	191965	172243	173688
IV. Food, beverages and tobacco	2579795	2829549	3147103	3372388	3761639
V. Mineral products	4381455	4157174	5391311	6681950	7132073
VI. Chemical products	6329722	6704824	7391663	7631375	8520408
VII. Plastics, rubber and articles thereof	4610648	4893379	5531306	5918539	5983219
VIII. Raw hides and skins, tanned hides and skins and their products	882463	916966	1009958	1035804	930418
IX. Wood products, excluding furniture	532752	639260	701506	772457	765366
X. Paper and articles thereof	1063167	1144893	1184355	1241961	1271411
XI. Textiles and textile articles	4266055	4677615	4835177	4992260	4990102
XII. Shoes, hats, umbrellas and similar articles	692233	798634	955740	995082	1052971
XIII. Articles of stone, plaster, cement, ceramics, glass and other similar materials	795261	884769	992542	1103880	1181720
XV. Base metals and articles thereof	6738333	6764334	7964114	8842322	8721362
XVI. Electrical machines, apparatus and equipment; apparatus for recording or reproducing sound and images	17918111	18953973	20995172	23157678	23426106
XVII. Means and materials of transport	5770350	6791040	7507062	8612862	8981865
XVIII. Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	1431639	1471637	1731593	1985033	2328963
XX. Miscellaneous goods and products	1313320	1556170	1698736	1916152	2194315
XXII. Goods not included in other sections of the Combined Nomenclature	190132	220699	290568	317492	385530
Total	62970798	67364433	75603932	82839886	86296948

The most suitable goods for inland waterway transport are:

- II. Vegetable products (cereals)
 - V. Mineral products (iron ore, coal)
 - VI. Chemical products (fertilizers)
 - XIII. Articles of stone, plaster, cement, ceramics, glass and other similar materials
 - XV. Base metals and articles thereof
 - XVII. Means and materials of transport
- Containers

The figure below shows the evolution of the total imports for period 2015 – 2019

Figure 87: Total imports 2015 -2019, th. EURO, Romania

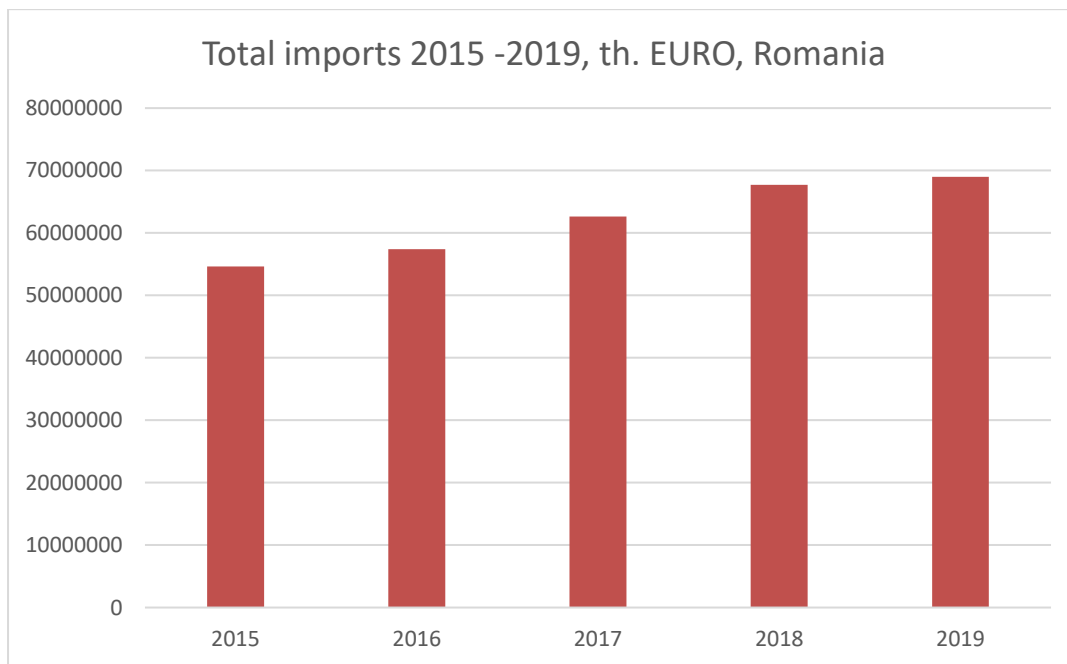


Figure 88: Imports I. Live animals and animal products, th. Euro, 2019

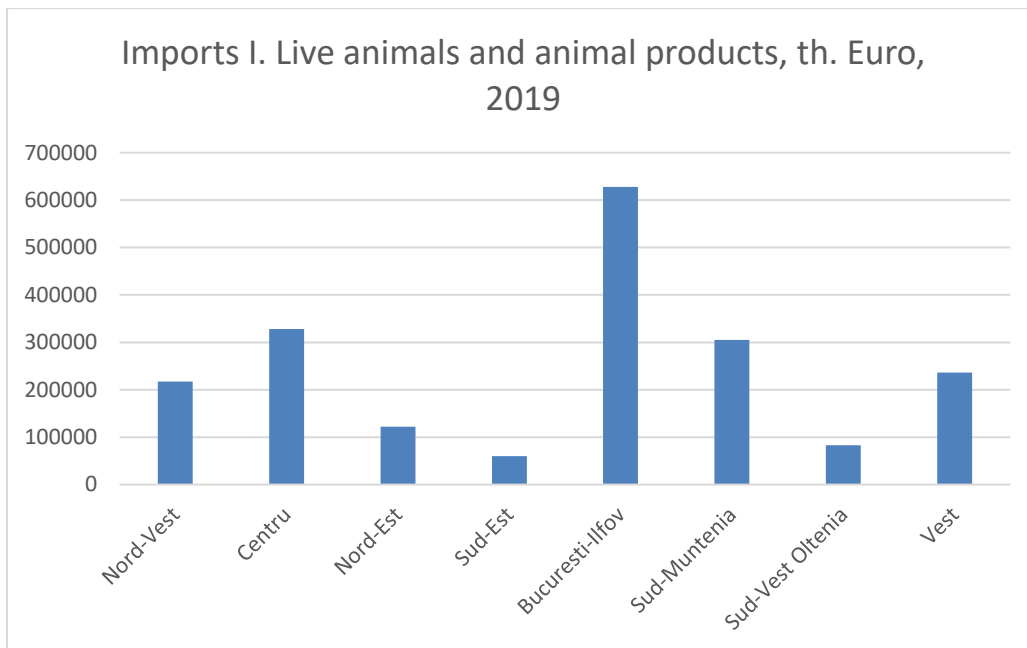


Figure 89: Imports II. Vegetable products, th. Euro, 2019

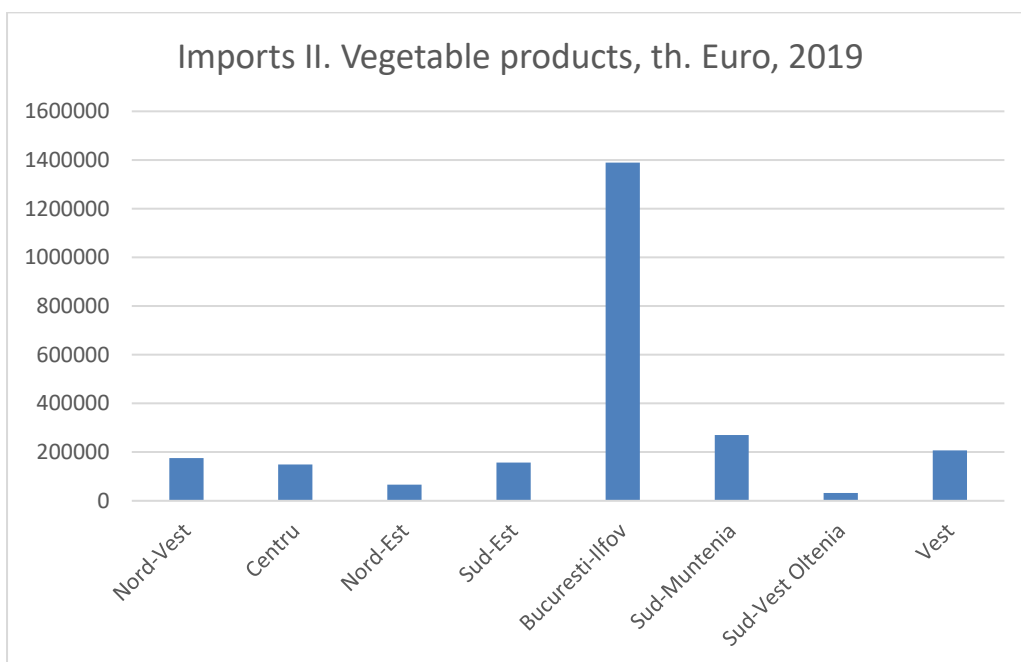


Figure 90: Imports III. Animal or vegetable fats and oils, th. Euros, 2019

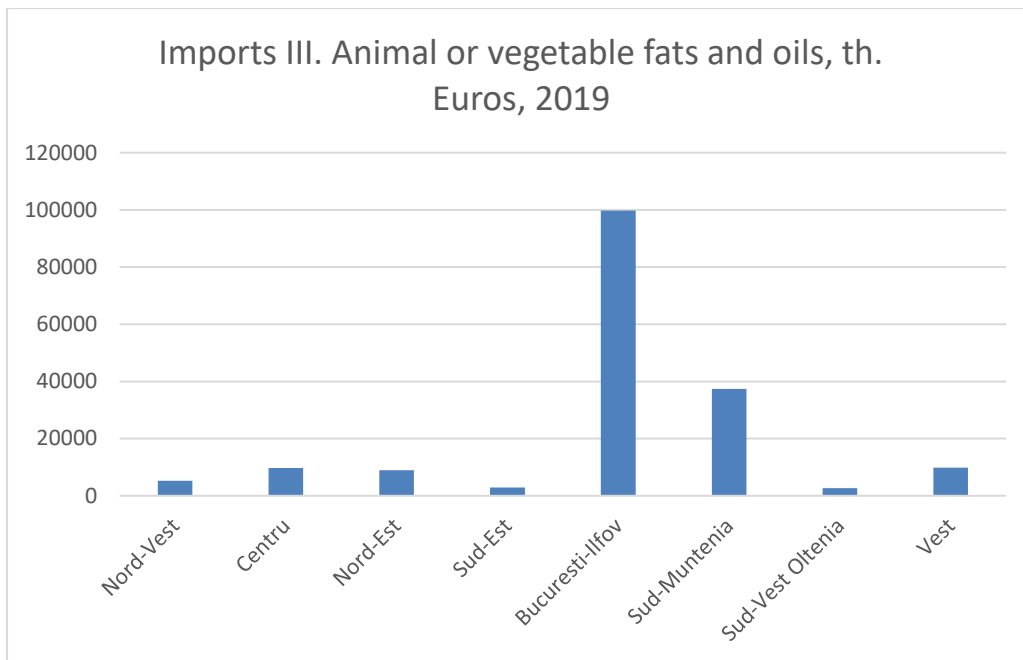


Figure 91: Imports IV. Food, beverages and tobacco, th. Euro, 2019

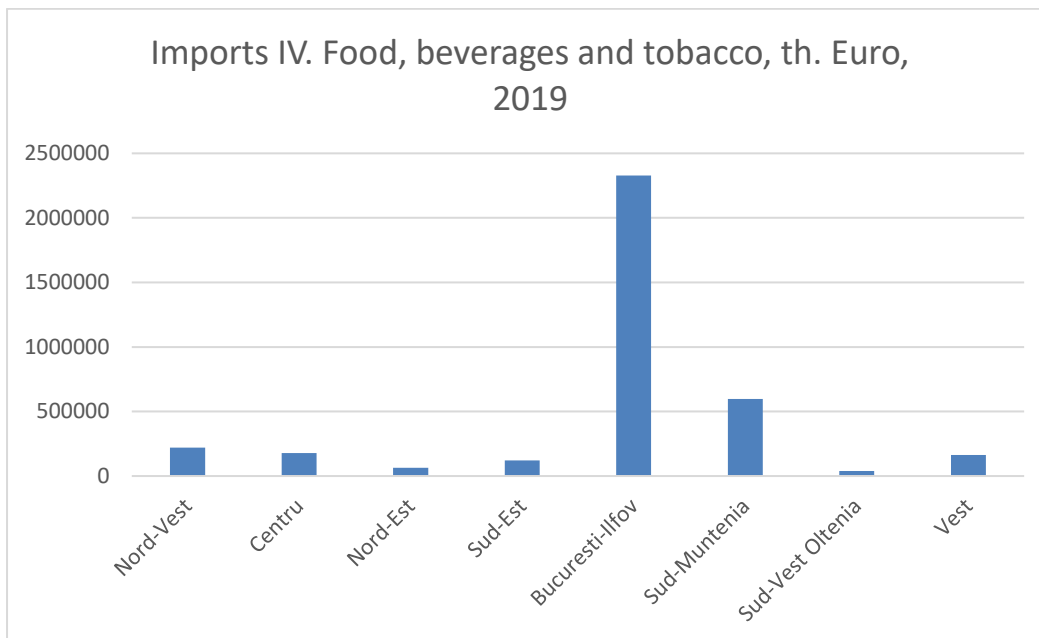


Figure 92: Imports V. Mineral products, th. Euro, 2019

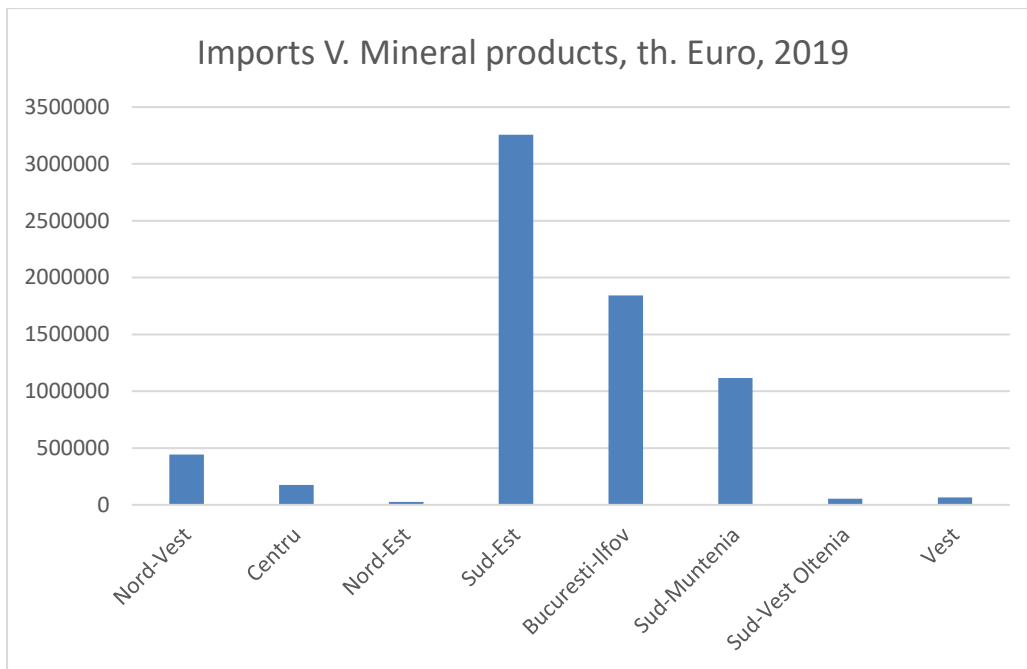


Figure 93: Imports VI. Chemical products, th. Euro, 2019

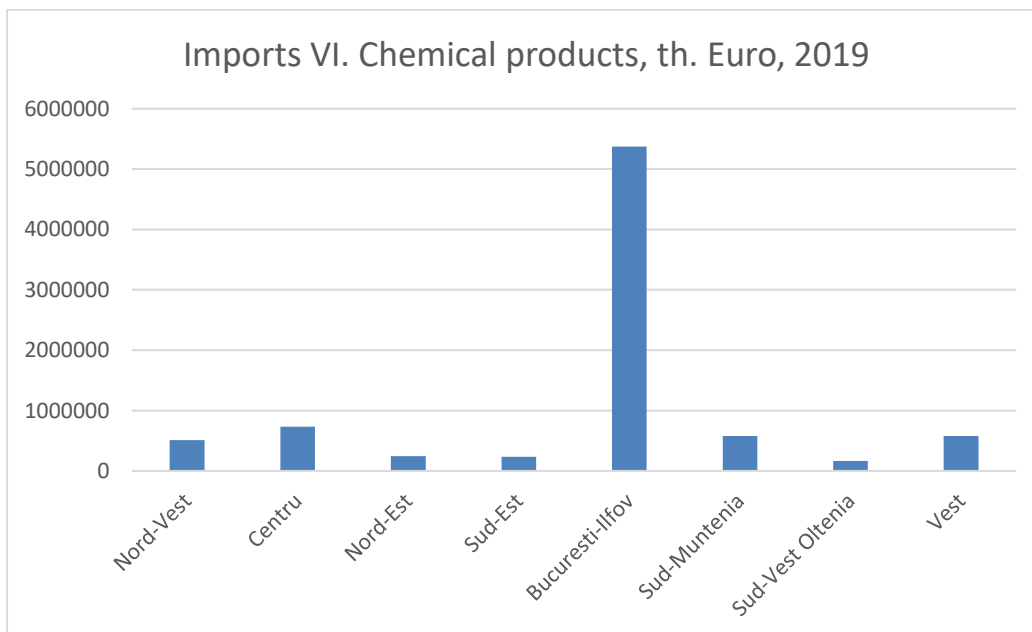


Figure 94: Imports VII. Plastics, rubber and articles thereof, th. Euro, 2019

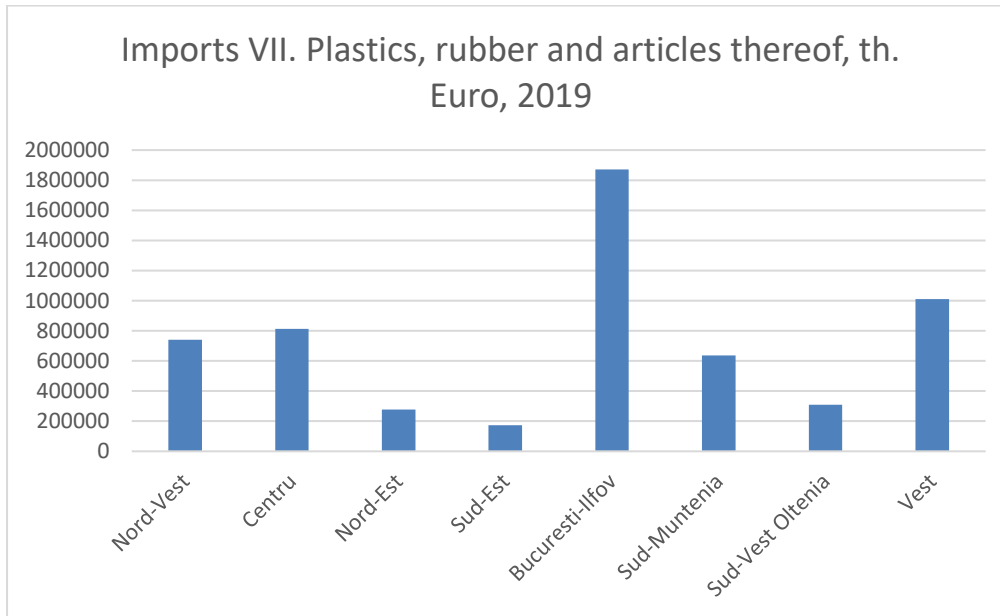


Figure 95: Imports VIII. Raw hides and skins, tanned hides and skins and their products, th. Euro, 2019

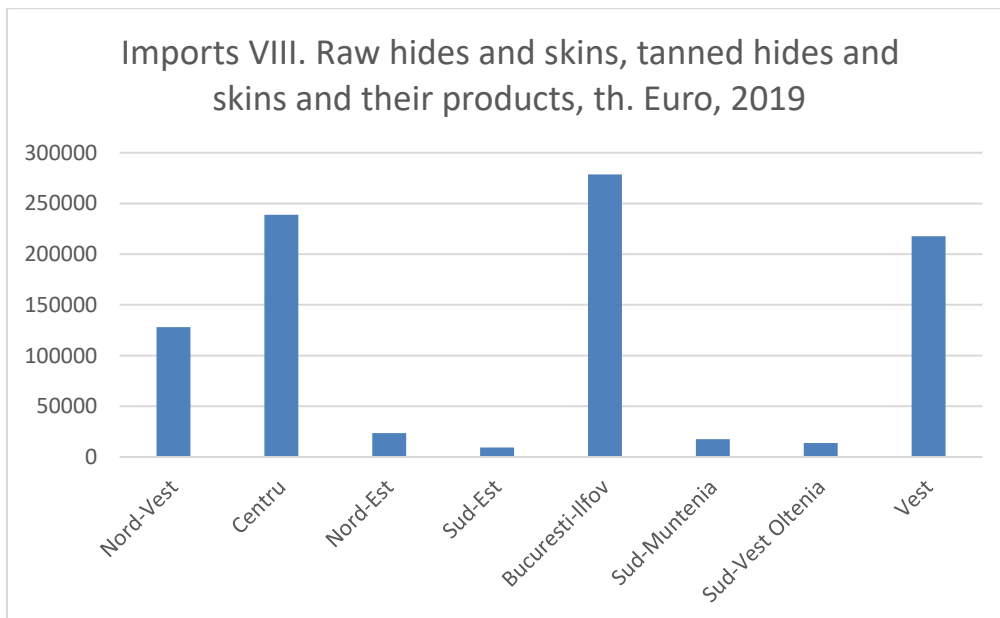


Figure 96: Imports X. Paper and articles thereof, th. Euro, 2019



Figure 97: Total imports 2015 -2019, th. EURO, Romania

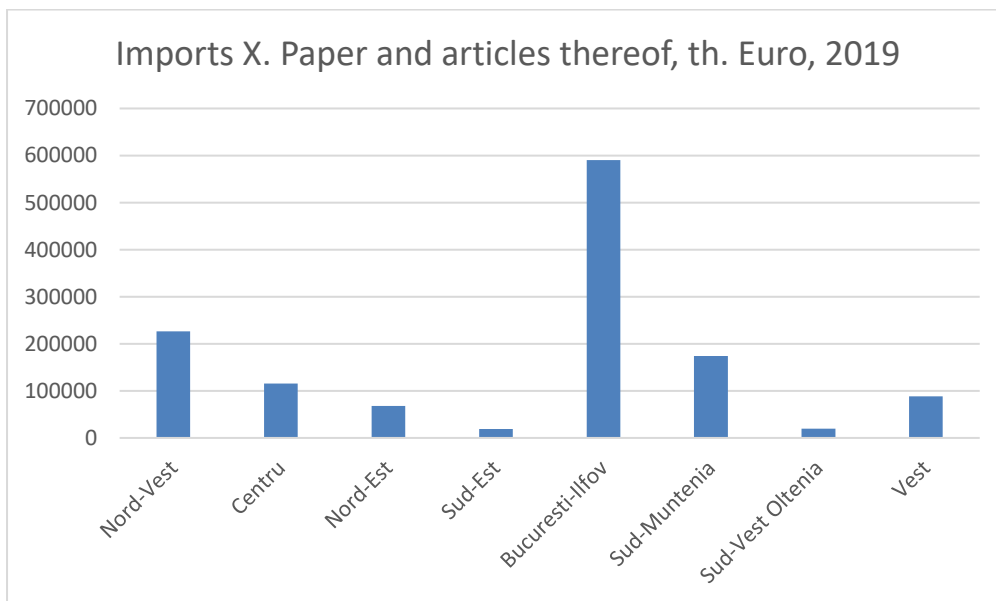


Figure 98: Imports XI. Textiles and textile articles, th. Euro, 2019

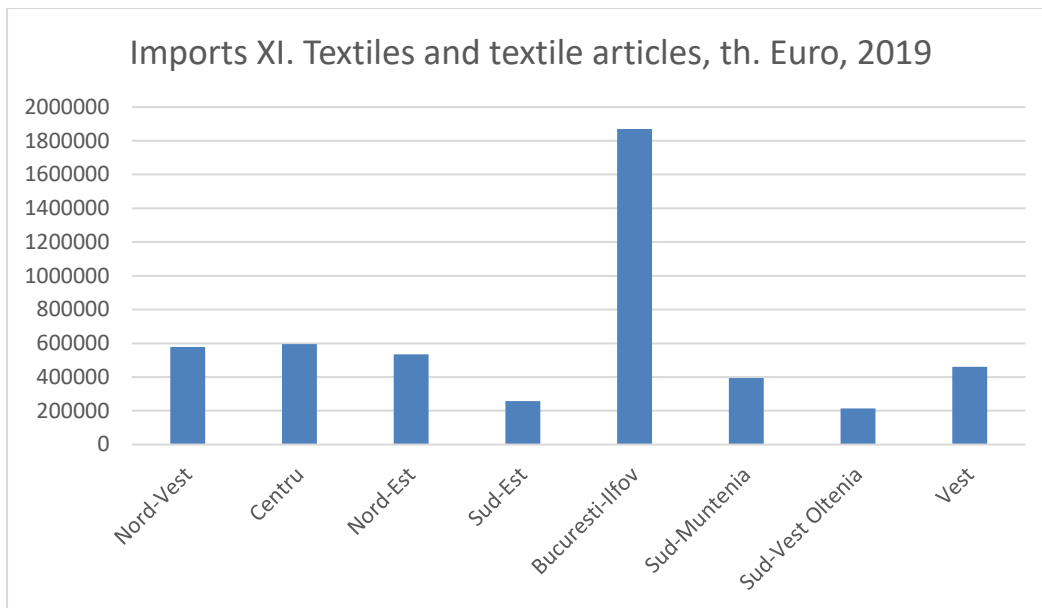


Figure 99: Imports XII. Shoes, hats, umbrellas and similar articles, th. Euro, 2019

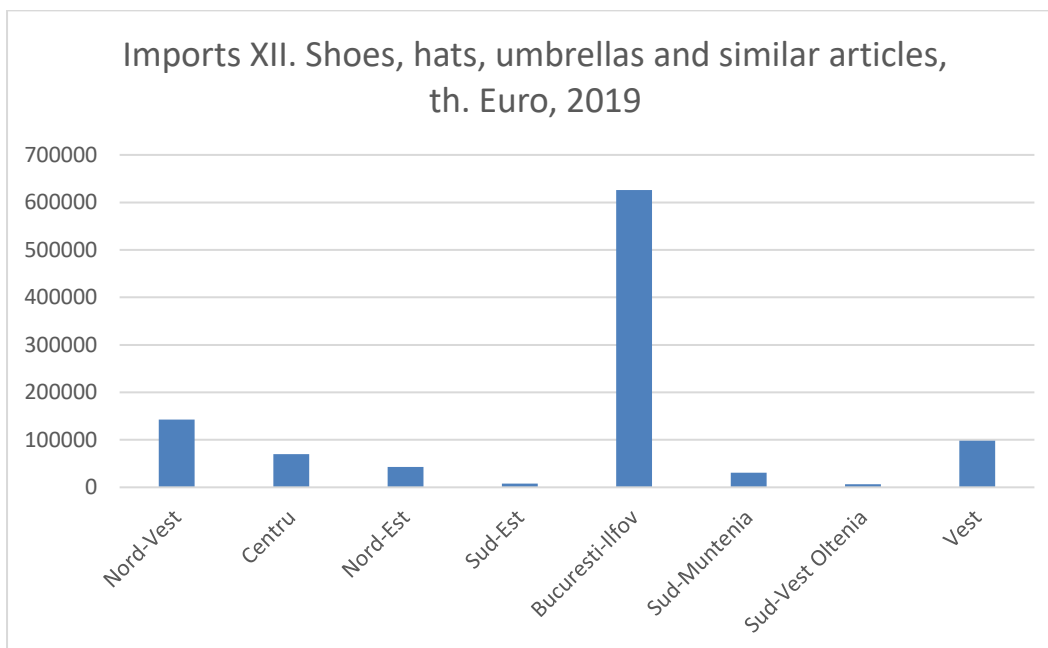


Figure 100: Imports XIII. Articles of stone, plaster, cement, ceramics, glass and other similar materials, th. Euro, 2019

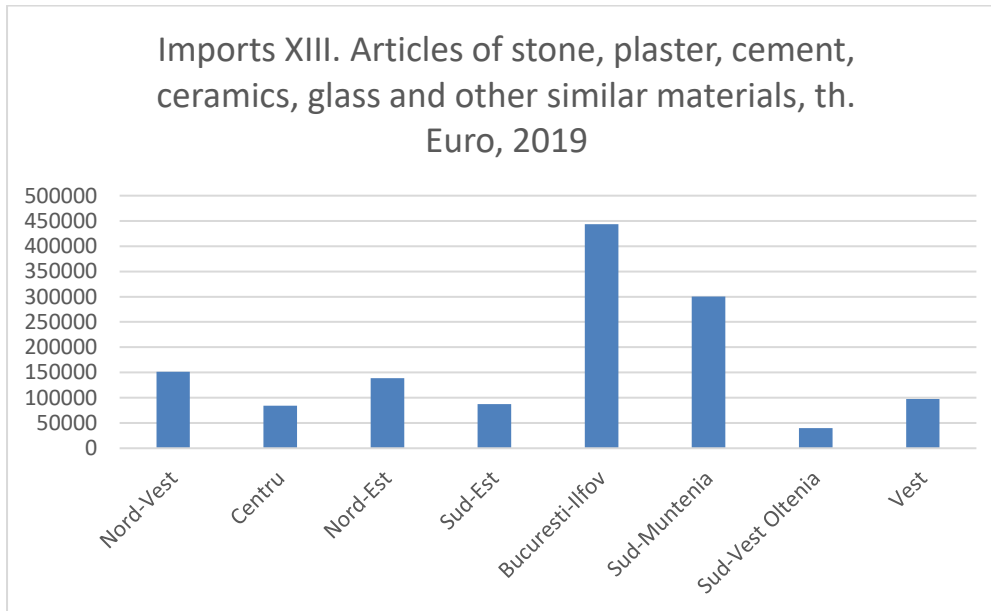


Figure 101: Imports XV. Base metals and articles thereof, th. Euro, 2019

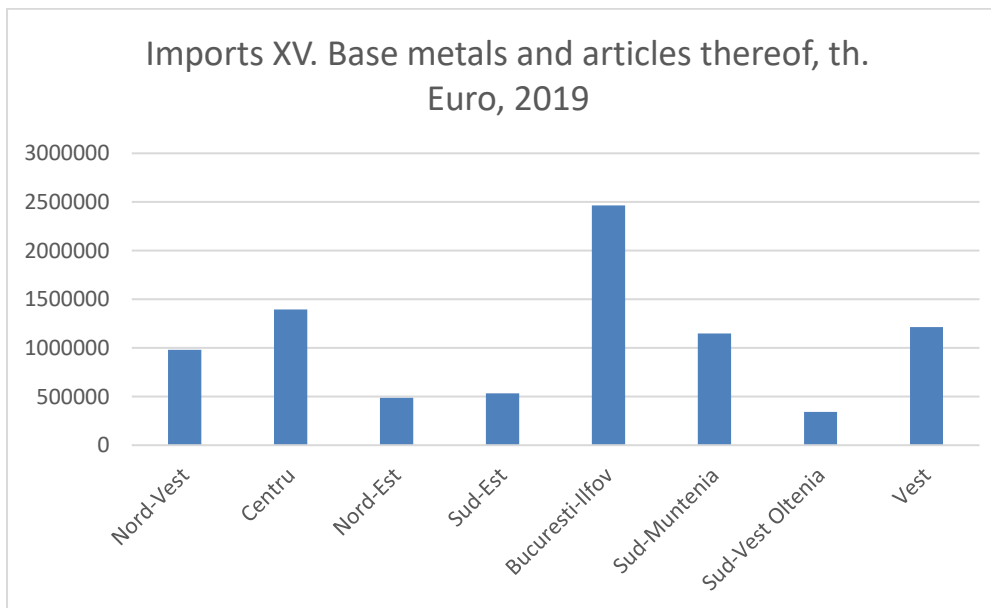


Figure 102: Imports XVI. Electrical machines, apparatus and equipment; apparatus for recording or reproducing sound and images, th. Euro, 2019

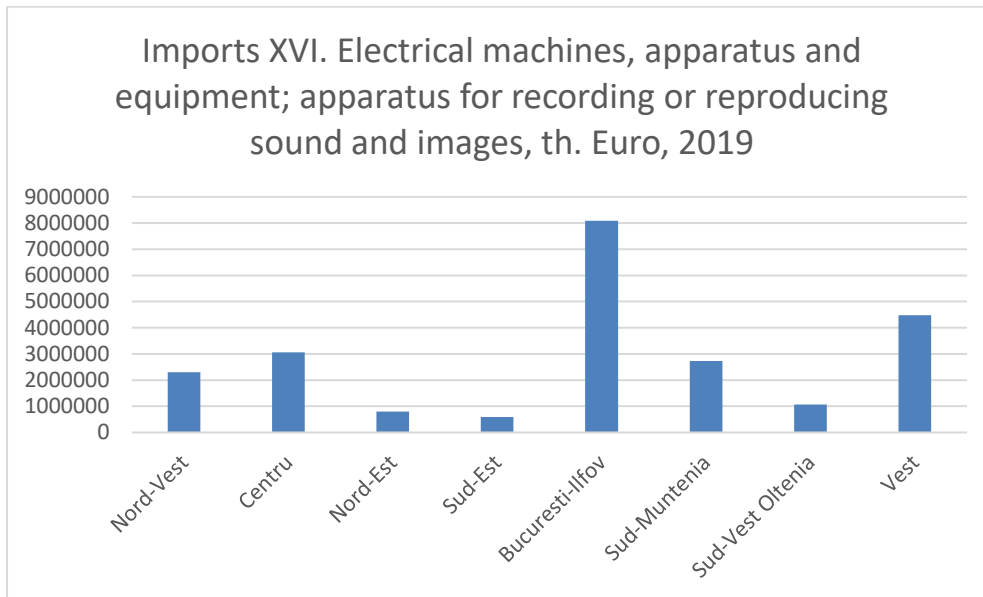


Figure 103: Imports XVII. Means and materials of transport, th. Euro, 2019

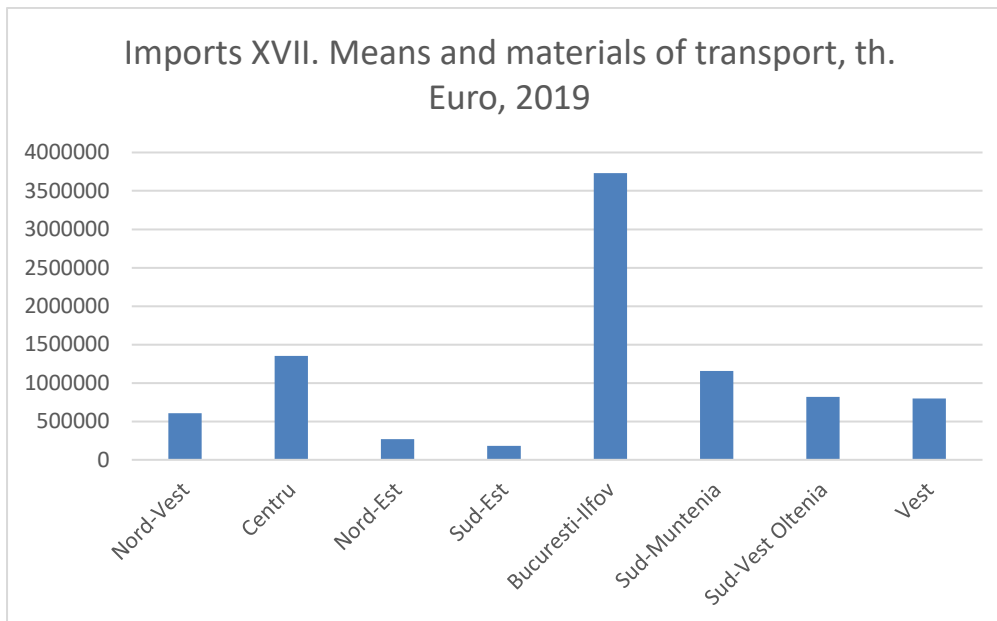


Figure 104: Imports XVIII. Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments, th. Euro, 2019

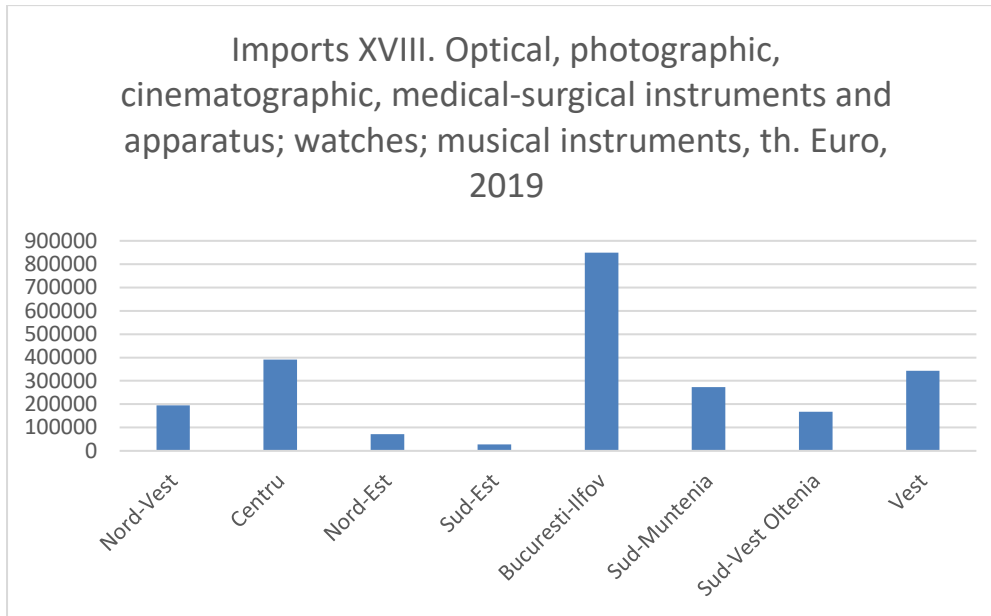


Figure 105: Imports XX. Miscellaneous goods and products, th. Euro, 2019



Figure 106: Imports XXII. Goods not included in other sections of the Combined Nomenclature, th. Euro, 2019



Imports in tonnes per year

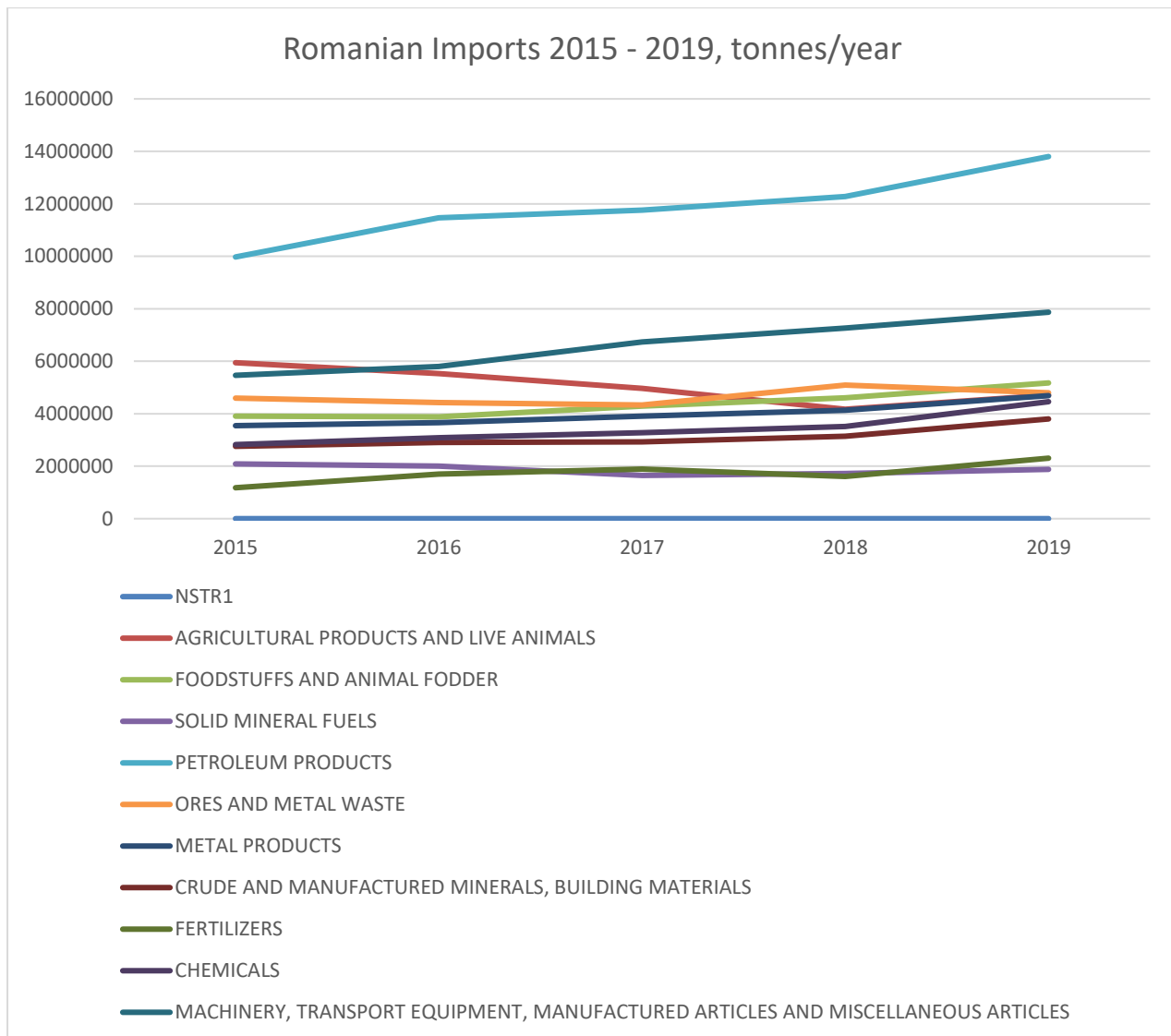
In the following the imports for the time period 2015 - 2019 are presented by NSTR1 category of goods.

Table 83: Total imports, country level, by category of goods, 2015 – 2019, in tonnes, Romania

NSTR		2015	2016	2017	2018	2019
0	AGRICULTURAL PRODUCTS AND LIVE ANIMALS	5945479	5525489	4970085	4172435	4703410
1	FOODSTUFFS AND ANIMAL FODDER	3909628	3881038	4294904	4601505	5175018
2	SOLID MINERAL FUELS	2088526	2007700	1649833	1723373	1878993
3	PETROLEUM PRODUCTS	9974669	11466027	11756693	12283156	13342923
4	ORES AND METAL WASTE	4592854	4430288	4333287	5092182	4591921
5	METAL PRODUCTS	3545688	3665019	3913455	4131999	2711083
6	CRUDE AND MANUFACTURED MINERALS, BUILDING MATERIALS	2758815	2905671	2930195	3140501	3802683
7	FERTILIZERS	1180152	1704388	1886407	1612501	2307239
8	CHEMICALS	2824624	3082510	3280079	3512536	4459163
9	MACHINERY, TRANSPORT EQUIPMENT, MANUFACTURED ARTICLES AND MISCELLANEOUS ARTICLES	5465177	5798518	6731662	7261275	7870076
All		42285612	44466648	45746600	47531463	50842509

In the following is shown the evolution of Romanian imports for the period 2015 – 2019.

Figure 107: Romanian Imports 2015 - 2019, tonnes/year



It is observed that the highest increase is shown by petroleum products and fertilizers.

5.5.2 Exports

The presentation of trade flows is organized as follows:

- Total exports, country level, by category of goods, 2015 - 2019
- Total exports by NUTS2 – region level, 2015 – 2019
- Exports by NUTS2 and category of goods, 2019

Table 84: Total exports, country level, by category of goods, 2015 – 2019, in th. Euro, Romania

Category of goods	2015	2016	2017	2018	2019
I. Live animals and animal products	781684	813967	946262	895228	928064
II. Vegetable products	3074630	3437492	3502013	3590864	3876148
III. Animal or vegetable fats and oils	223677	194054	211077	224209	224493
IV. Food, beverages and tobacco	1838169	1723716	1747200	1791173	2156309
V. Mineral products	2556567	2173327	2472255	2893194	2744191
VI. Chemical products	2046899	1860467	2078439	2222412	2367852
VII. Plastics, rubber and articles thereof	3092234	3262052	3587571	3867090	3946161
VIII. Raw hides and skins, tanned hides and skins and their products	364139	379737	417316	405694	372942
IX. Wood products, excluding furniture	1808807	1642265	1655214	1629685	1605977
X. Paper and articles thereof	377111	425551	488251	513582	513779
XI. Textiles and textile articles	3953813	4071433	4046308	4058309	3796931
XII. Shoes, hats, umbrellas and similar articles	1334586	1335214	1380132	1342715	1208486
XIII. Articles of stone, plaster, cement, ceramics, glass and other similar materials	313924	346075	376128	408697	424911
XV. Base metals and articles thereof	4696605	4485852	5330264	5992507	5943983
XVI. Electrical machines, apparatus and equipment; apparatus for recording or reproducing sound and images	15192770	16881882	17823444	19441176	20110026
XVII. Means and materials of transport	9159660	10110756	11302511	12747219	12681680
XVIII. Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	984063	1291447	2163116	2410617	2590502
XX. Miscellaneous goods and products	2387541	2546796	2640299	2789026	2950513
XXII. Goods not included in other sections of the Combined Nomenclature	422895	410163	476277	500032	555167
Total	54609774	57392246	62644077	67723429	68998115

The figures below shows the evolution of the total exports for period 2015 – 2019, by category of goods.

Figure 108: Romanian Imports 2015 - 2019, tonnes/year

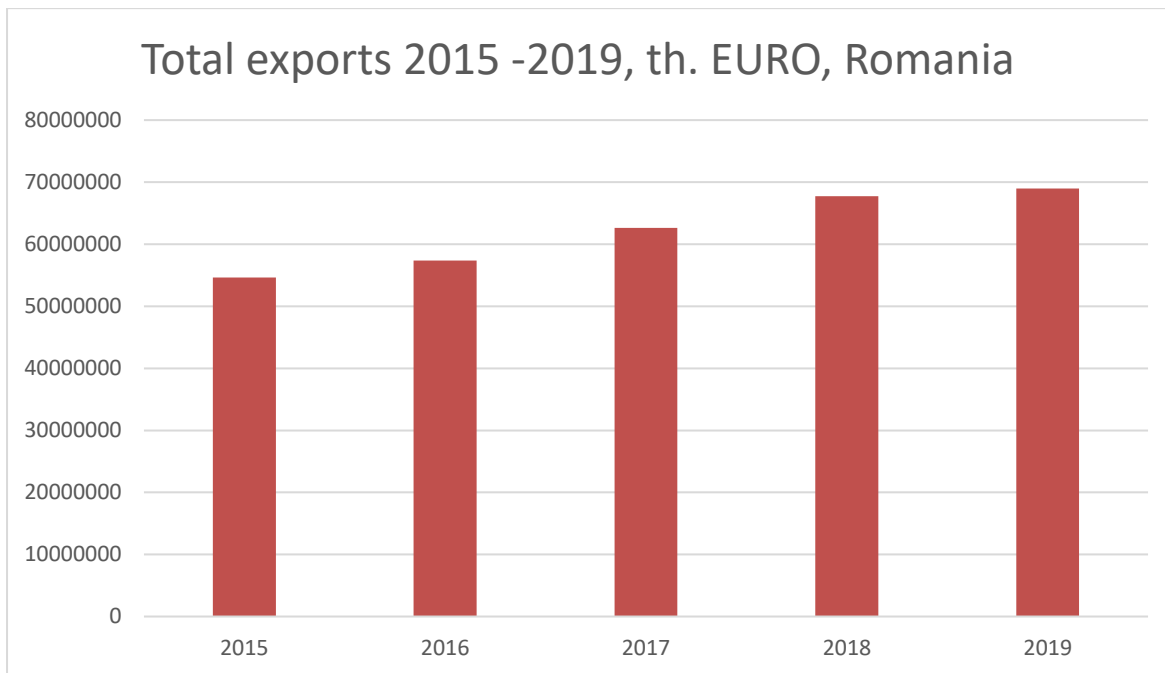


Figure 109: Exports I. Live animals and animal products, th. Euro, 2019

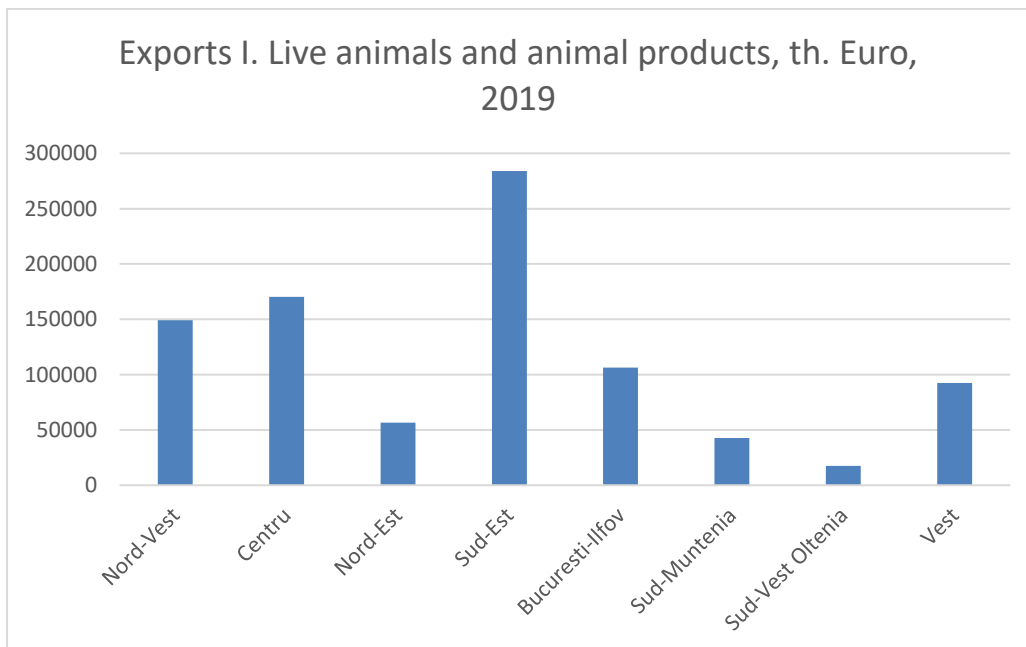


Figure 110: Exports II. Vegetable products, th. Euro, 2019

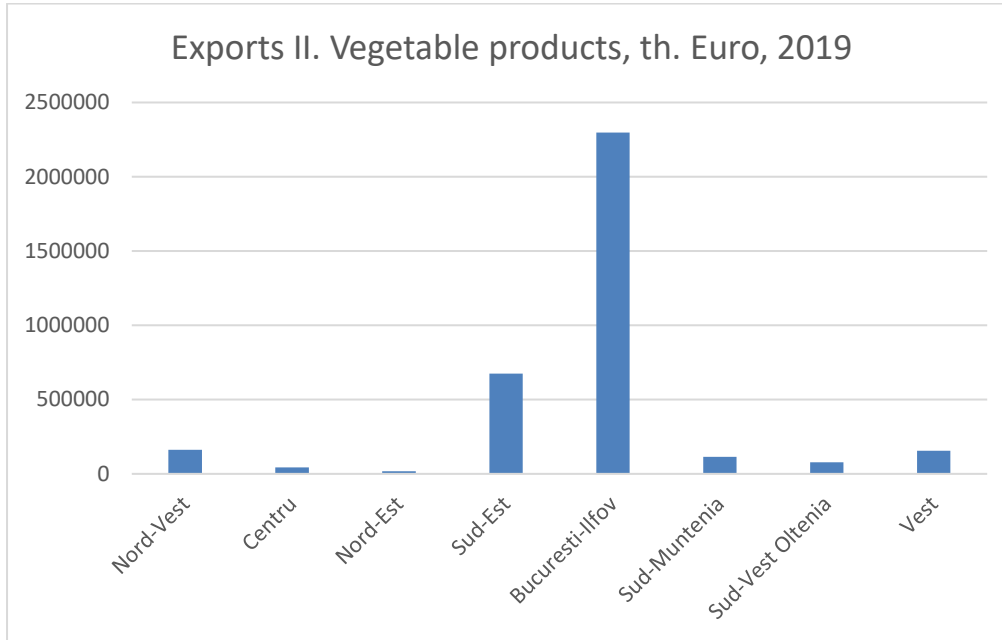


Figure 111: Exports III. Animal or vegetable fats and oils, th. Euros, 2019

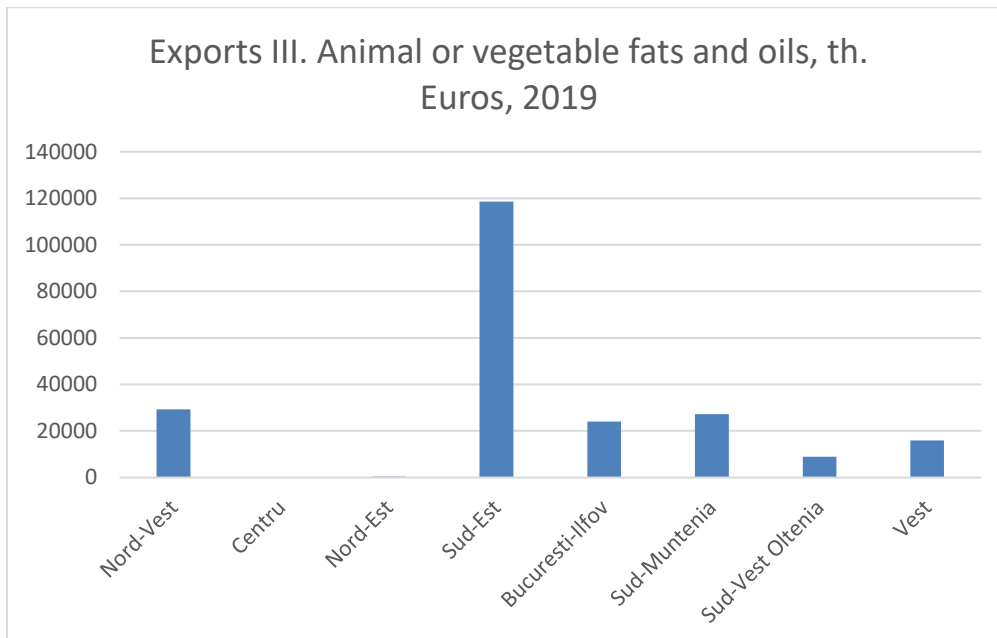


Figure 112: Exports IV. Food, beverages and tobacco, th. Euro, 2019

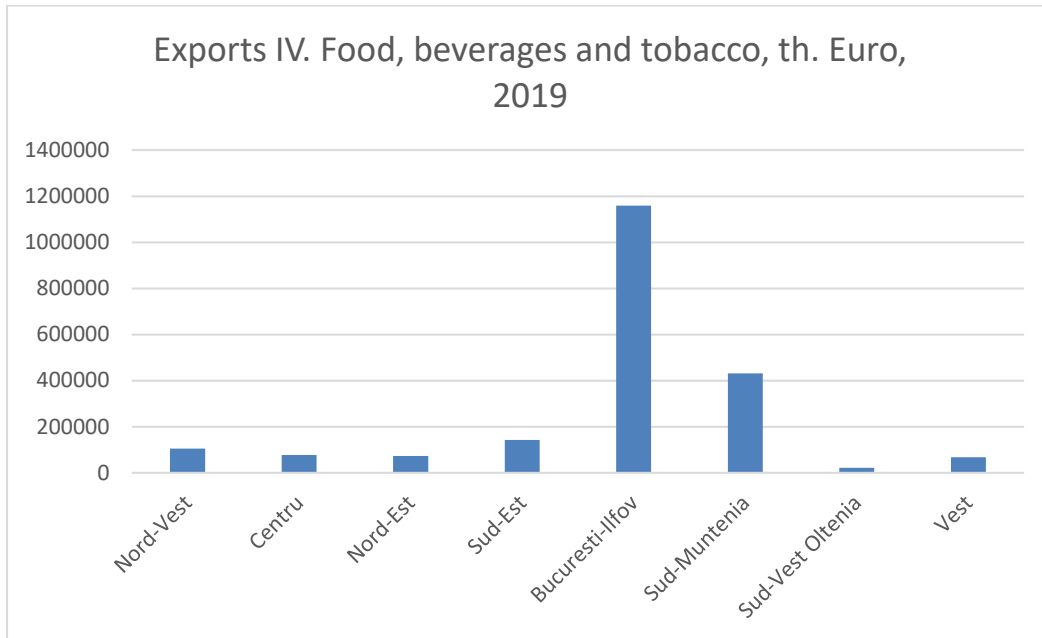


Figure 113: Exports V. Mineral products, th. Euro, 2019

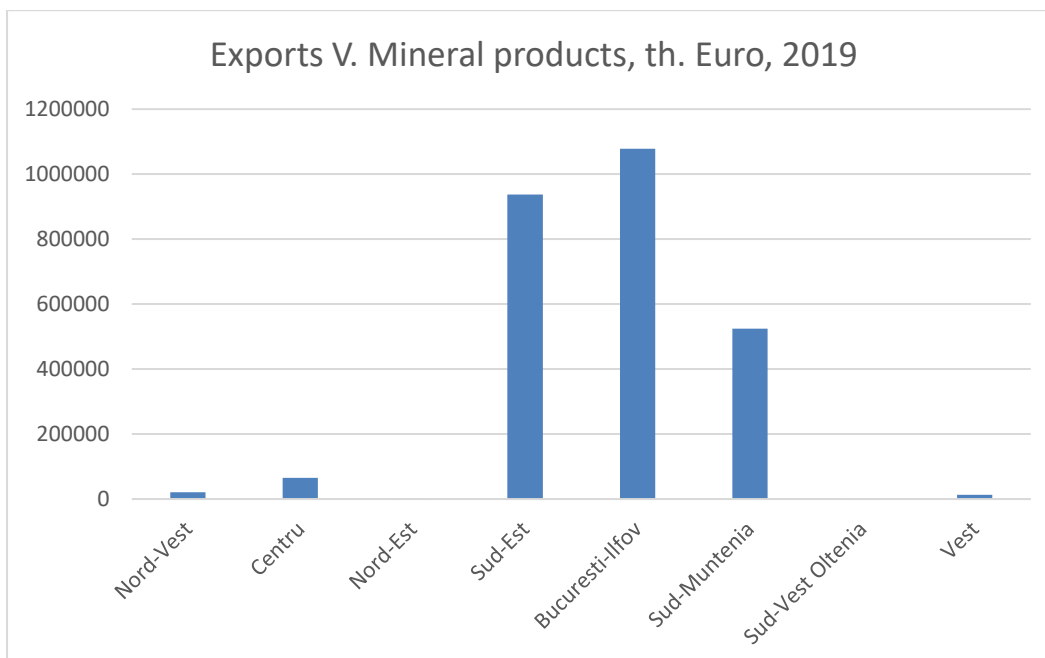


Figure 114: Exports VI. Chemical products, th. Euro, 2019

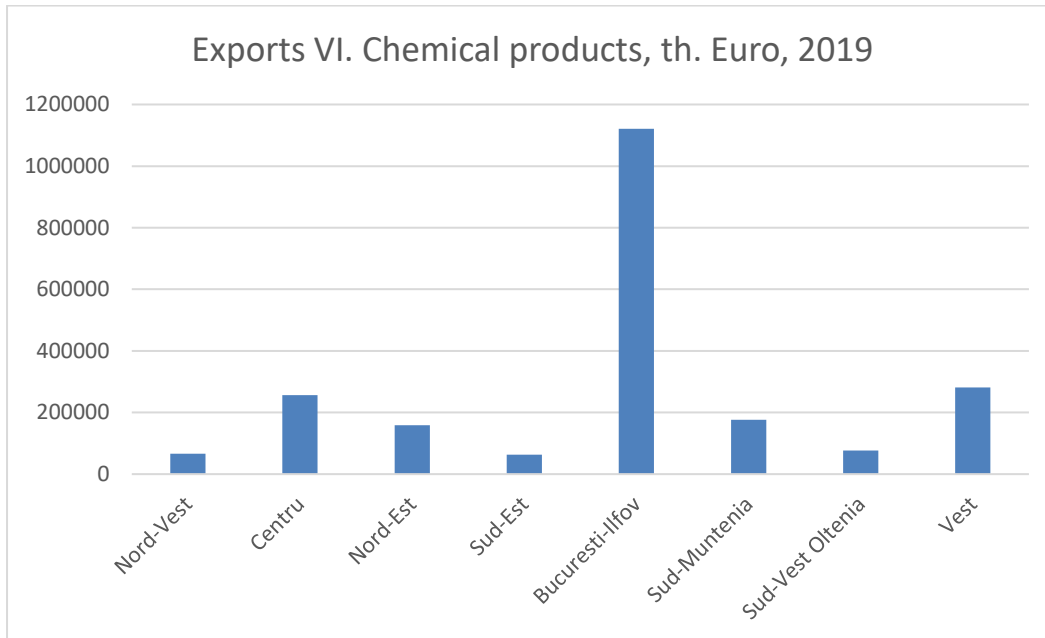


Figure 115: Exports VII. Plastics, rubber and articles thereof, th. Euro, 2019

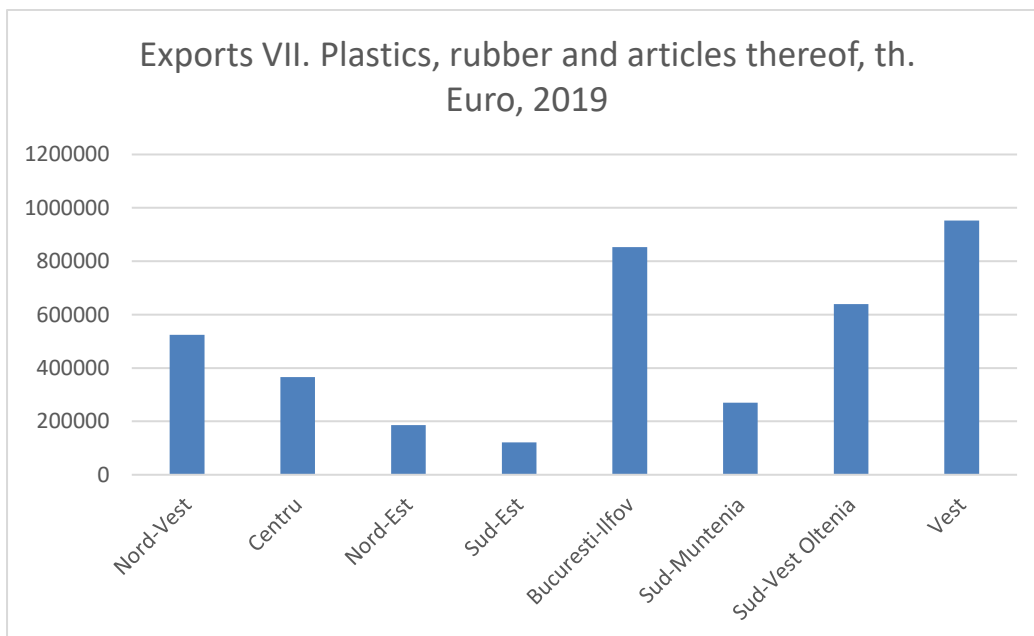


Figure 116: Exports VIII. Raw hides and skins, tanned hides and skins and their products, th. Euro, 2019

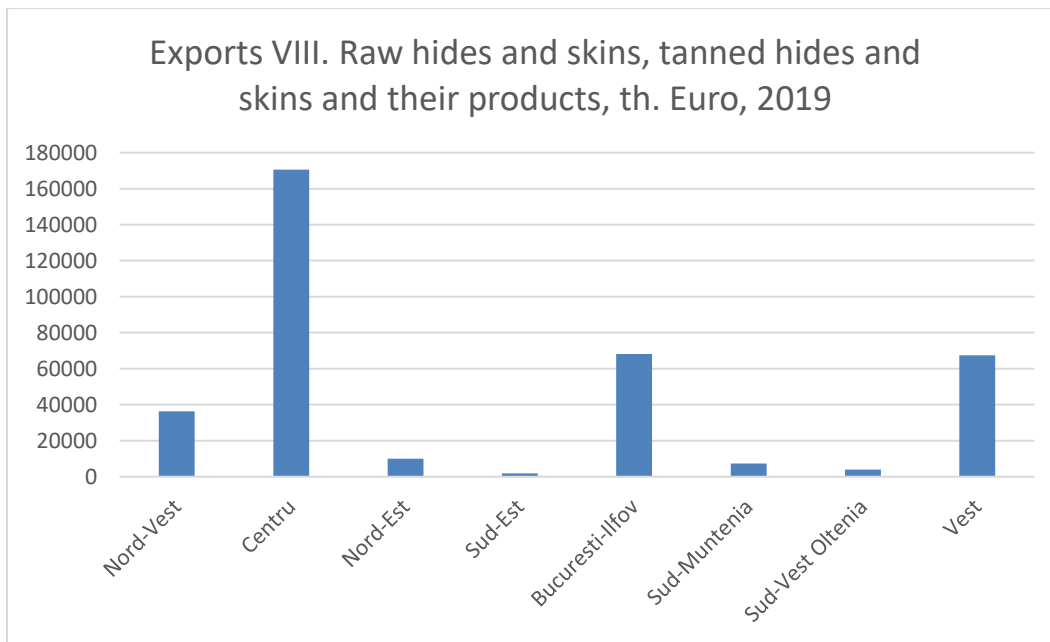


Figure 117: Exports IX. Wood products, excluding furniture, th. Euro, 2019



Figure 118: Exports X. Paper and articles thereof, th. Euro, 2019

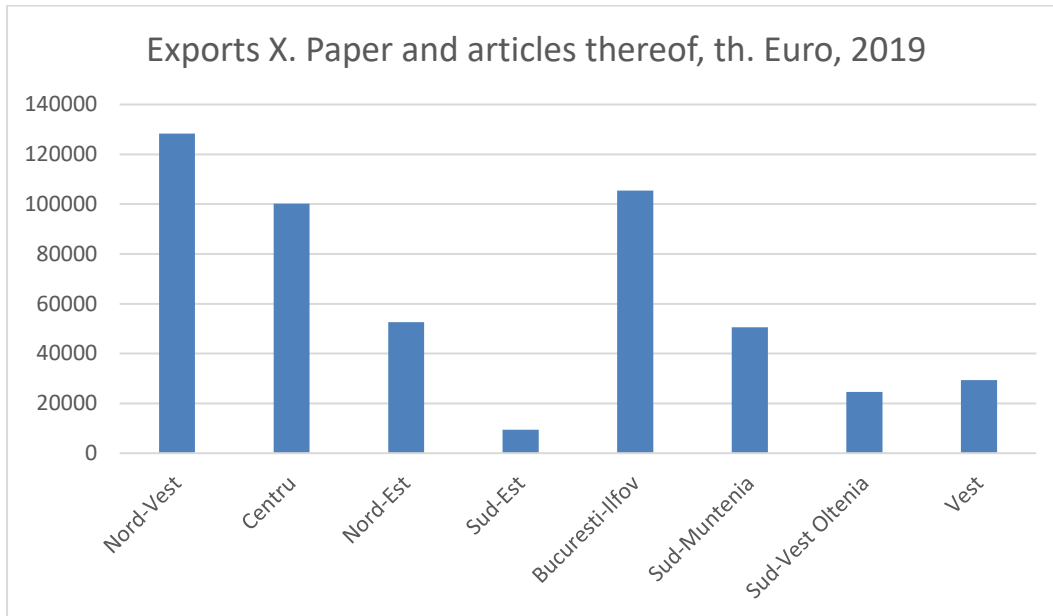


Figure 119: Exports XI. Textiles and textile articles, th. Euro, 2019

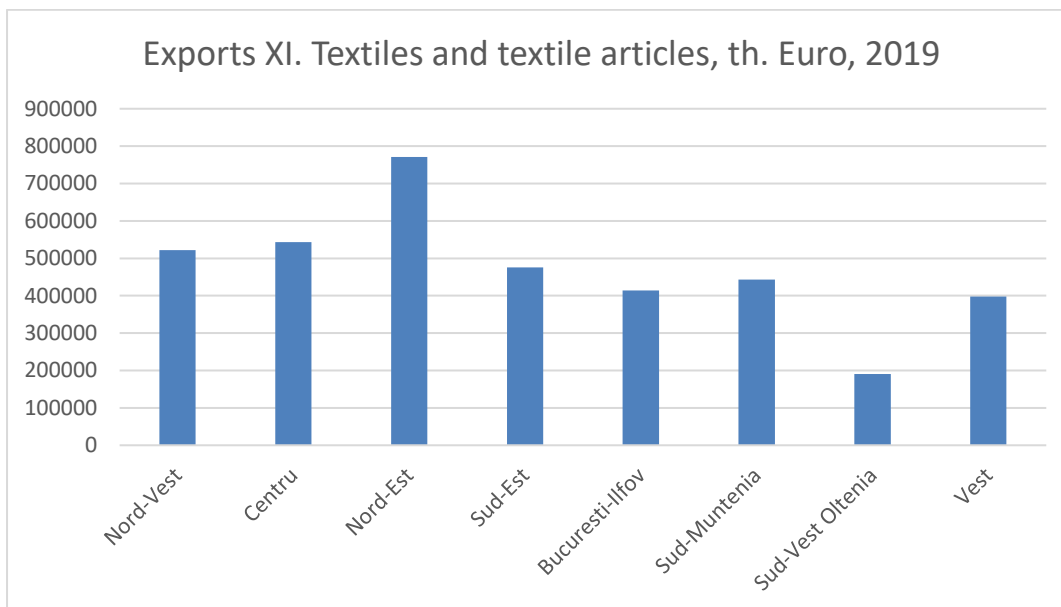


Figure 120: Exports XII. Shoes, hats, umbrellas and similar articles, th. Euro, 2019

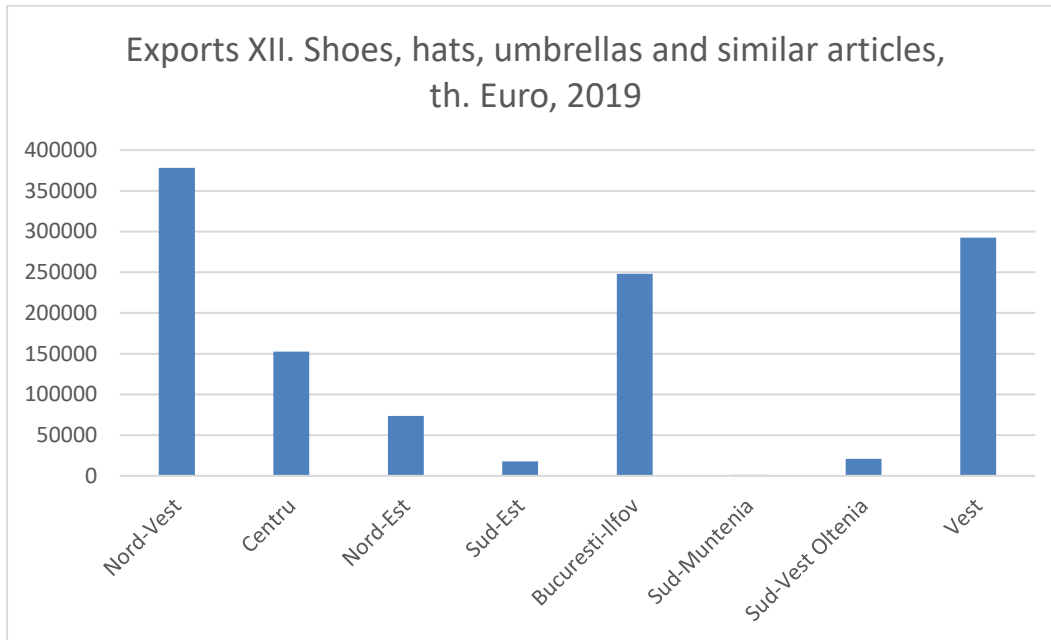


Figure 121: Exports XIII. Articles of stone, plaster, cement, ceramics, glass and other similar materials, th. Euro, 2019

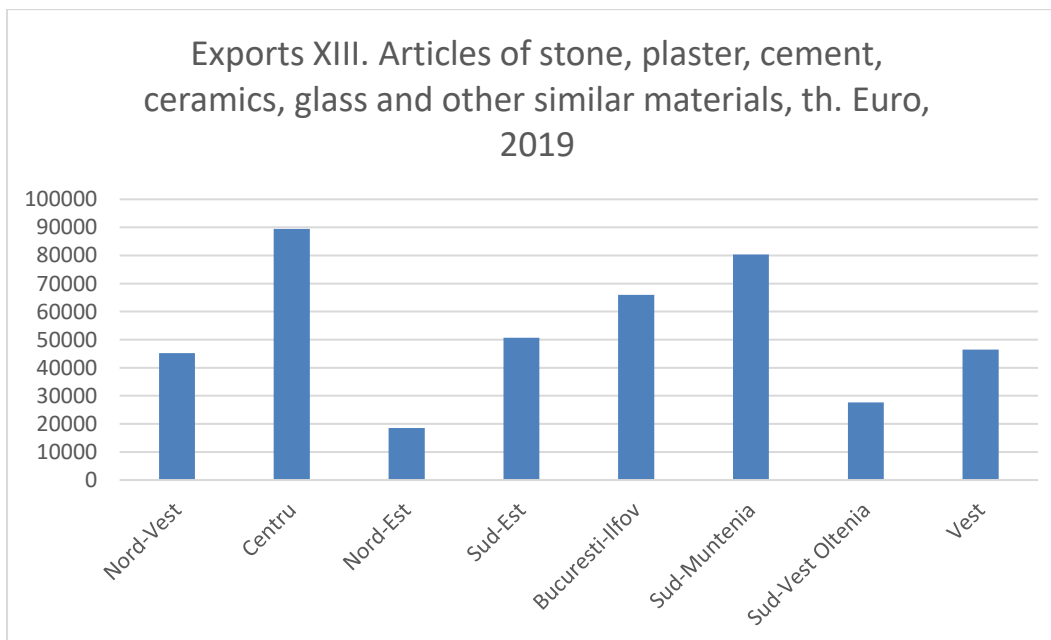


Figure 122: Exports XV. Base metals and articles thereof, th. Euro, 2019

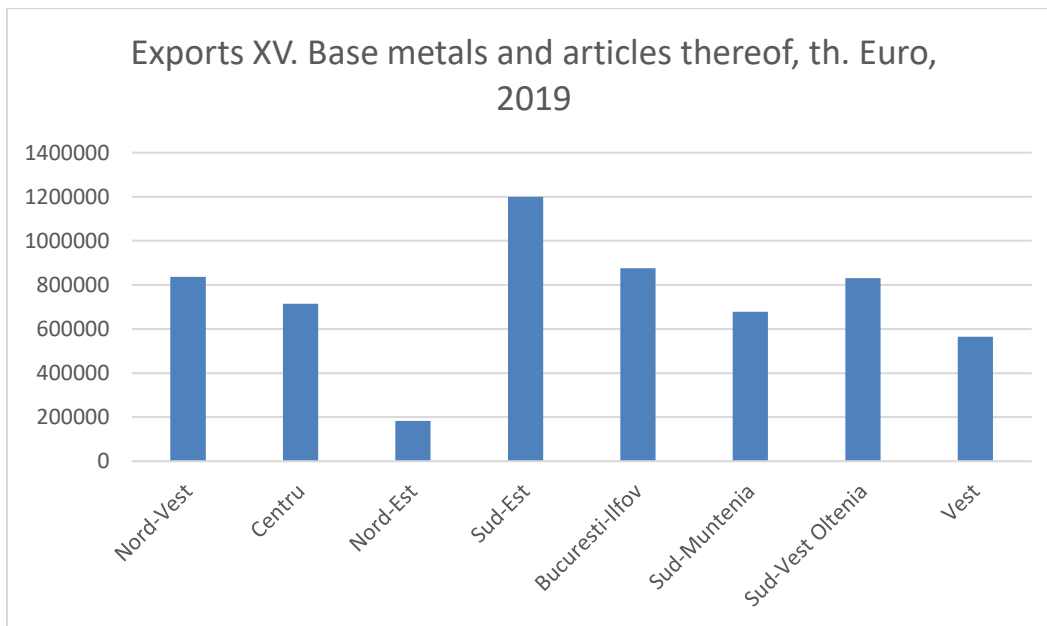


Figure 123: Exports XVI. Electrical machines, apparatus and equipment; apparatus for recording or reproducing sound and images, th. Euro, 2019

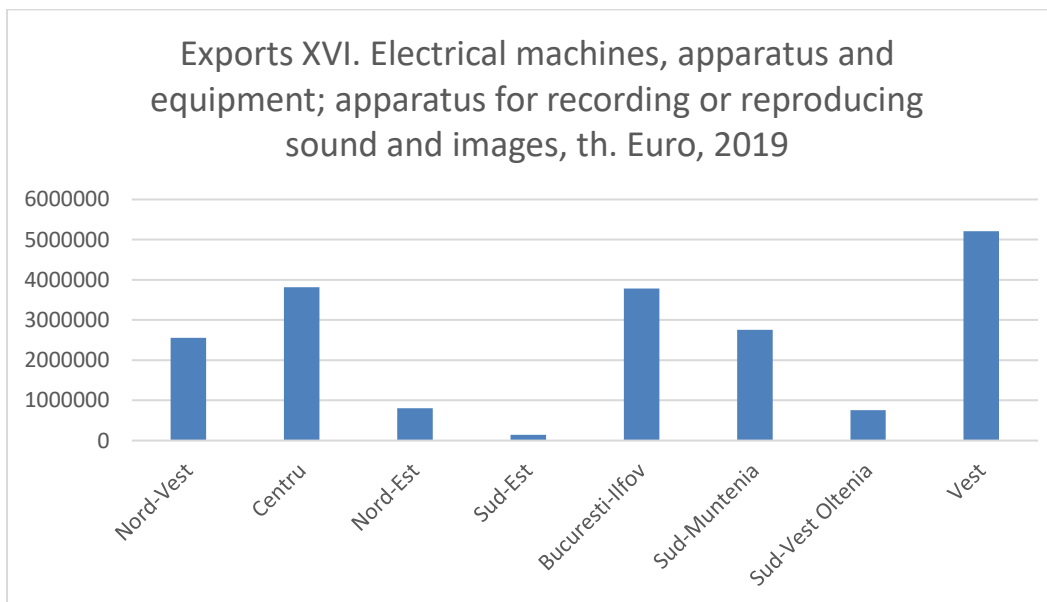


Figure 124: Exports XVII. Means and materials of transport, th. Euro, 2019

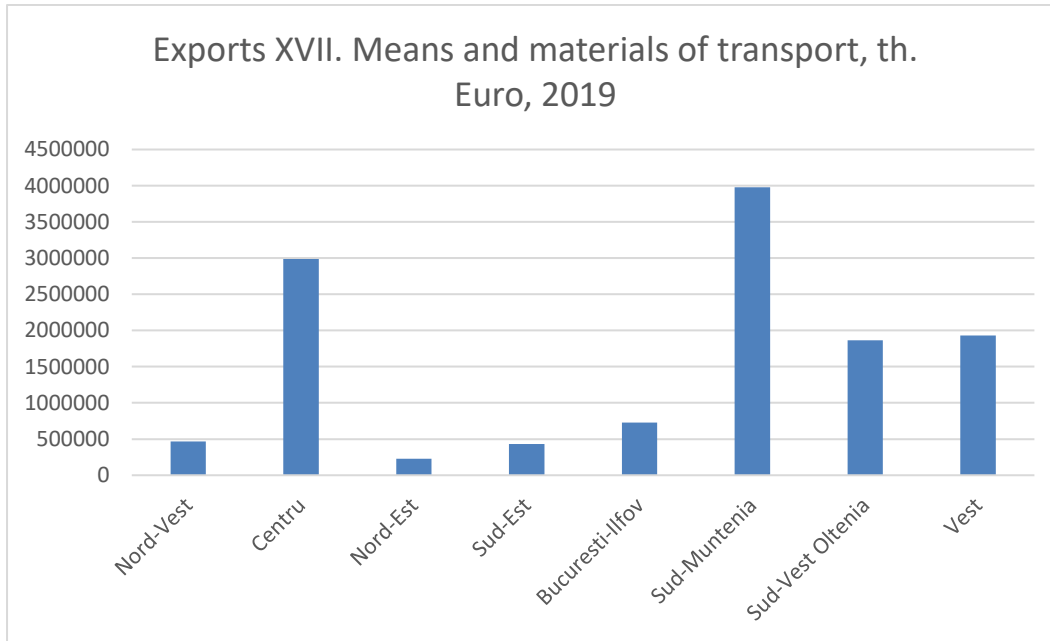


Figure 125: Exports XVIII. Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments, th. Euro, 2019

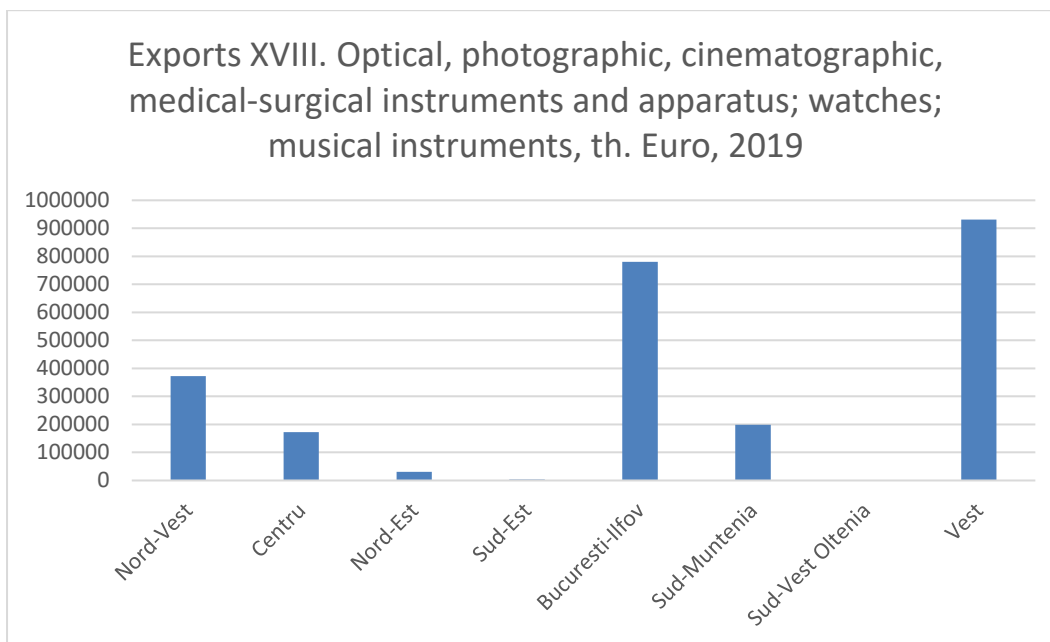


Figure 126: Exports XX. Miscellaneous goods and products, th. Euro, 2019

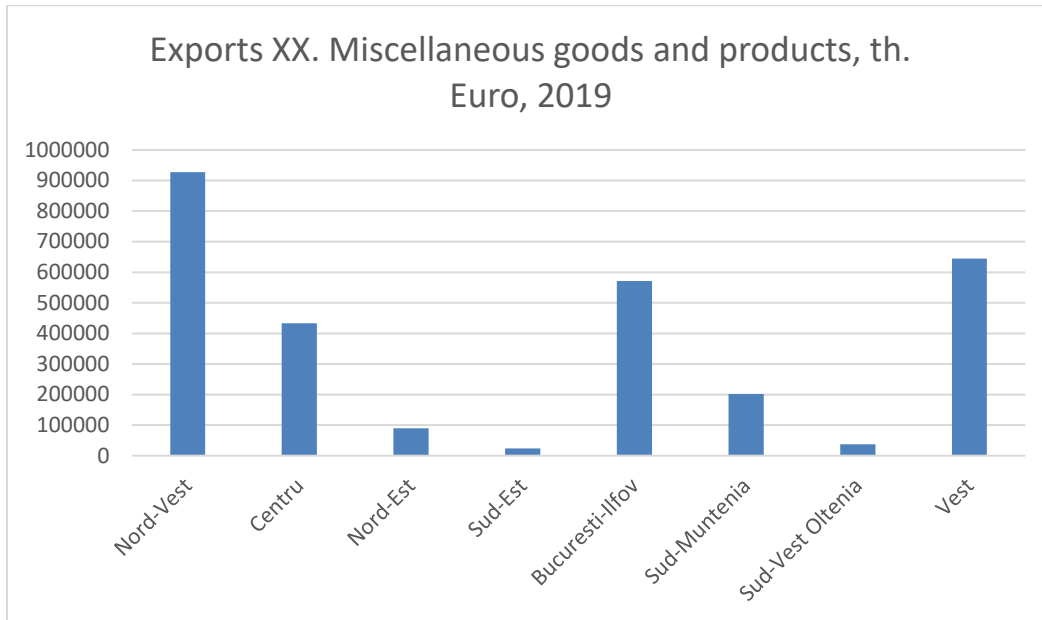
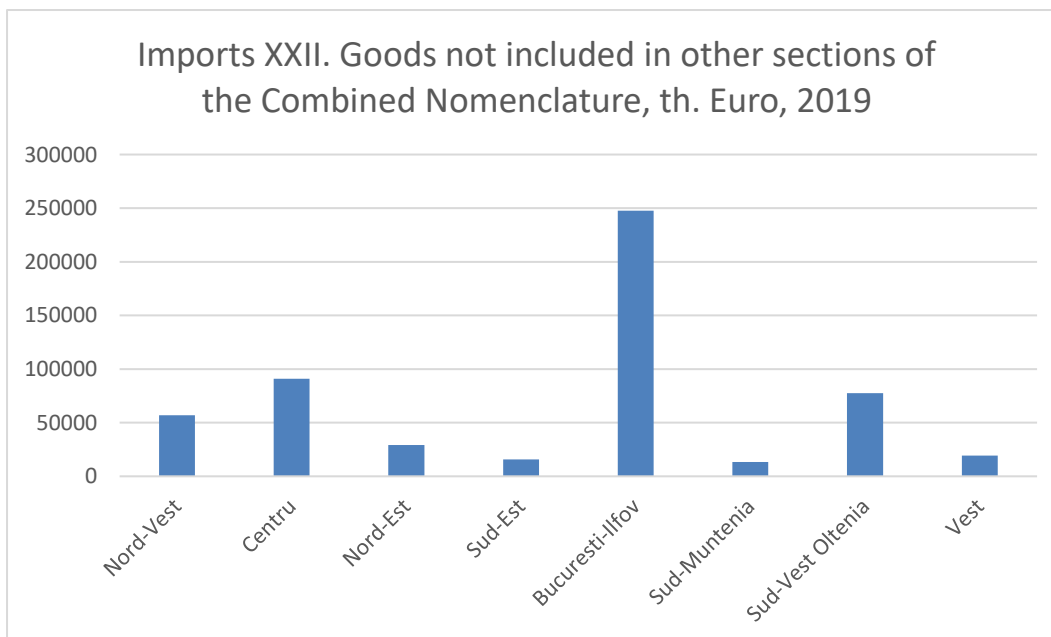


Figure 127: Imports XXII. Goods not included in other sections of the Combined Nomenclature, th. Euro, 2019



Exports in tonnes per year

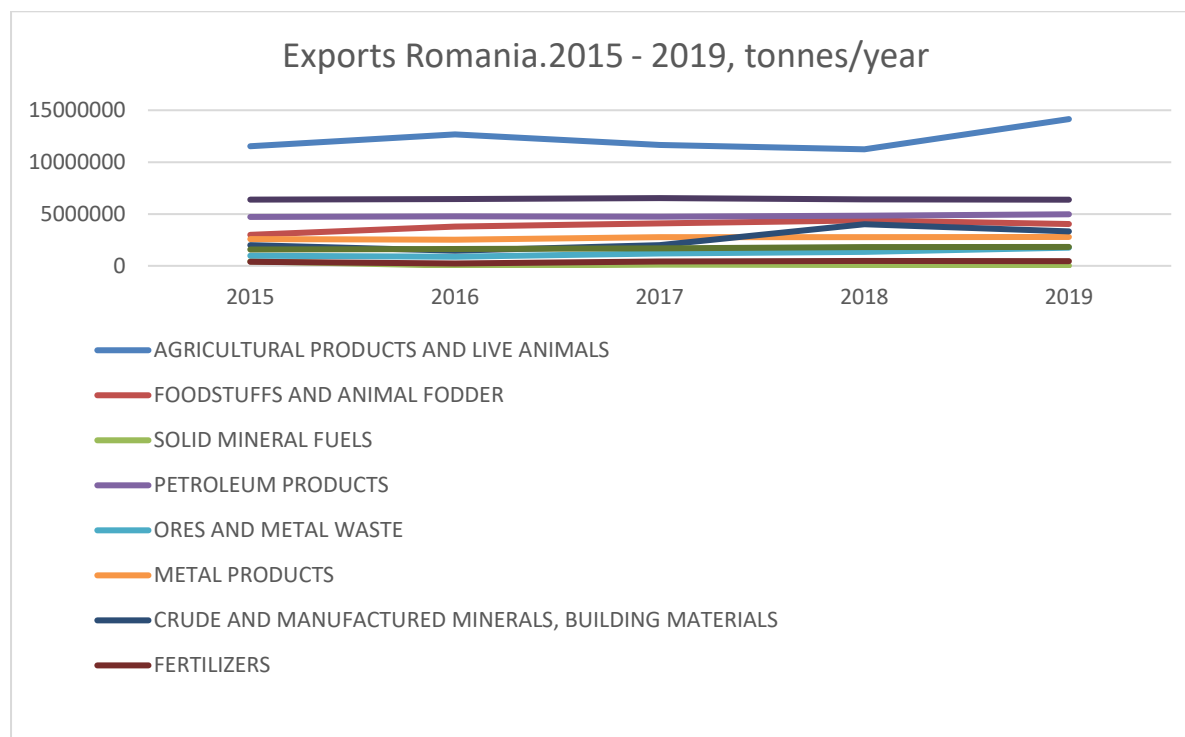
In the following the exports for the time period 2015 - 2019 are presented by NSTR1 category of goods.

Table 85: Total exports, country level, by category of goods, 2015 – 2019, in tonnes, Romania

NSTR		2015	2016	2017	2018	2019
0	AGRICULTURAL PRODUCTS AND LIVE ANIMALS	11532621	12687124	11650014	11235016	14144923
1	FOODSTUFFS AND ANIMAL FODDER	2990577	3787379	4103056	4383520	4023117
2	SOLID MINERAL FUELS	435542	33665	108140	85479	22133
3	PETROLEUM PRODUCTS	4716075	4780755	4731722	4845449	4971384
4	ORES AND METAL WASTE	986978	881701	1208732	1362452	1754717
5	METAL PRODUCTS	2586668	2520697	2766698	2754938	2786784
6	CRUDE AND MANUFACTURED MINERALS, BUILDING MATERIALS	1996244	1464496	1988216	4013357	3325857
7	FERTILIZERS	378063	230322	421878	473608	459582
8	CHEMICALS	1577804	1627996	1697942	1803258	1824769
9	MACHINERY, TRANSPORT EQUIPMENT, MANUFACTURED ARTICLES AND MISCELLANEOUS ARTICLES	6385596	6438491	6533394	6394456	6387162
All		33586168	34452626	35209792	37351533	39700428

In the following is shown the evolution of Romanian exports for the period 2015 – 2019.

Figure 128: Exports Romania.2015 - 2019, tonnes/year



It is observed that the highest increase in the period 2015 – 2019 is shown by agricultural products.

Conclusions on the trade flows development

Imports

The general trend at the country level is presented as conclusions. Thus, in the tables below is presented the growth 2019 – 2015 for imports and exports by category of goods, when absolute values are expressed in Euros.

Table 86: Growth 2019 – 2015 for imports by category of goods, when absolute values are expressed in Euros, Romania

Imports - Category of goods	Growth 2019 - 2015
I. Live animals and animal products	57.84%
II. Vegetable products	23.51%
III. Animal or vegetable fats and oils	-5.60%
IV. Food, beverages and tobacco	45.81%
V. Mineral products	62.78%
VI. Chemical products	34.61%
VII. Plastics, rubber and articles thereof	29.77%
VIII. Raw hides and skins, tanned hides and skins and their products	5.43%
IX. Wood products, excluding furniture	43.66%
X. Paper and articles thereof	19.59%

XI. Textiles and textile articles	16.97%
XII. Shoes, hats, umbrellas and similar articles	52.11%
XIII. Articles of stone, plaster, cement, ceramics, glass and other similar materials	48.60%
XV. Base metals and articles thereof	29.43%
XVI. Electrical machines, apparatus and equipment; apparatus for recording or reproducing sound and images	30.74%
XVII. Means and materials of transport	55.66%
XVIII. Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	62.68%
XX. Miscellaneous goods and products	67.08%
XXII. Goods not included in other sections of the Combined Nomenclature	102.77%
Total	37.04%

The highest growth of 67.08% is observed for Miscellaneous goods and products, followed by Mineral products with 62.78%.

Regarding the imports expressed in tonnes, the evolution by category of goods for the period 2015 – 2019 is presented in the table below.

Table 87: Growth 2019 – 2015 for imports by category of goods, when absolute values are expressed in tonnes, Romania

NSTR 1	Evolution 2019 - 2015
AGRICULTURAL PRODUCTS AND LIVE ANIMALS	-20.89%
FOODSTUFFS AND ANIMAL FODDER	32.37%
SOLID MINERAL FUELS	-10.03%
PETROLEUM PRODUCTS	33.77%
ORES AND METAL WASTE	-0.02%
METAL PRODUCTS	-23.54%
CRUDE AND MANUFACTURED MINERALS, BUILDING MATERIALS	37.84%
FERTILIZERS	95.50%
CHEMICALS	57.87%
MACHINERY, TRANSPORT EQUIPMENT, MANUFACTURED ARTICLES AND MISCELLANEOUS ARTICLES	44.00%
All	20.24%

It is observed that the highest growth is shown by Fertilizers with 96%, followed by Chemicals with 58%. The highest decrease is shown by Metal products with 24%.

Table 88: Growth 2019 – 2015 for exports by category of goods, when absolute values are expressed in Euros, Romania

Exports - Category of goods	Growth 2019 - 2015
I. Live animals and animal products	18.73%
II. Vegetable products	26.07%
III. Animal or vegetable fats and oils	0.36%
IV. Food, beverages and tobacco	17.31%
V. Mineral products	7.34%
VI. Chemical products	15.68%
VII. Plastics, rubber and articles thereof	27.62%
VIII. Raw hides and skins, tanned hides and skins and their products	2.42%
IX. Wood products, excluding furniture	-11.21%
X. Paper and articles thereof	36.24%
XI. Textiles and textile articles	-3.97%
XII. Shoes, hats, umbrellas and similar articles	-9.45%
XIII. Articles of stone, plaster, cement, ceramics, glass and other similar materials	35.35%
XV. Base metals and articles thereof	26.56%
XVI. Electrical machines, apparatus and equipment; apparatus for recording or reproducing sound and images	32.37%
XVII. Means and materials of transport	38.45%
XVIII. Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	163.25%
XX. Miscellaneous goods and products	23.58%
XXII. Goods not included in other sections of the Combined Nomenclature	31.28%
Total	26.35%

For exports it is noticed a decrease of -11.21% for Wood products, excluding furniture, and the highest increase of 163.25% for Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments.

Regarding the exports expressed in tonnes, the growth for the period 2015 – 2019 is presented in the table below.

Table 89: Growth 2019 – 2015 for exports by category of goods, when absolute values are expressed in tonnes, Romania

NSTR 1	Evolution 2019 - 2015
AGRICULTURAL PRODUCTS AND LIVE ANIMALS	22.65%
FOODSTUFFS AND ANIMAL FODDER	34.53%
SOLID MINERAL FUELS	-94.92%
PETROLEUM PRODUCTS	5.41%
ORES AND METAL WASTE	77.79%
METAL PRODUCTS	7.74%

CRUDE AND MANUFACTURED MINERALS, BUILDING MATERIALS	66.61%
FERTILIZERS	21.56%
CHEMICALS	15.65%
MACHINERY, TRANSPORT EQUIPMENT, MANUFACTURED ARTICLES AND MISCELLANEOUS ARTICLES	0.02%
All	18.20%

It is observed that the highest growth is shown by Crude and manufactures minerals and building materials, with 78%, and the highest decrease is shown by Solid mineral fuels with 96%.

5.6 Serbia

Trade flows in monetary terms

Data for Serbia is presented at a higher level of detail, namely at the county level, which is the equivalent of NUTS3. Categories of goods are defined as considered by the National Statistics Institute.

Imports

The presentation of trade flows is organized as follows:

- Total imports, country level, by category of goods, 2013 – 2020;
- Imports by category of goods, 2020.

Exports

The presentation of trade flows is organized as follows:

- Total exports, country level, by category of goods, 2013 – 2020;
- Exports by category of goods, 2020.

The most suitable goods for inland waterway transport are:

- Vegetable products (cereals)
- Mineral products (iron ore, coal)
- Chemical products (fertilisers)
- Articles of stone, plaster, cement, ceramics, glass and other similar materials
- Base metals and articles thereof
- Means and materials of transport
- Containers.

Table 90: Total imports, country level, by category of goods, 2013 – 2020, in thousands USD and tonnes, Serbia

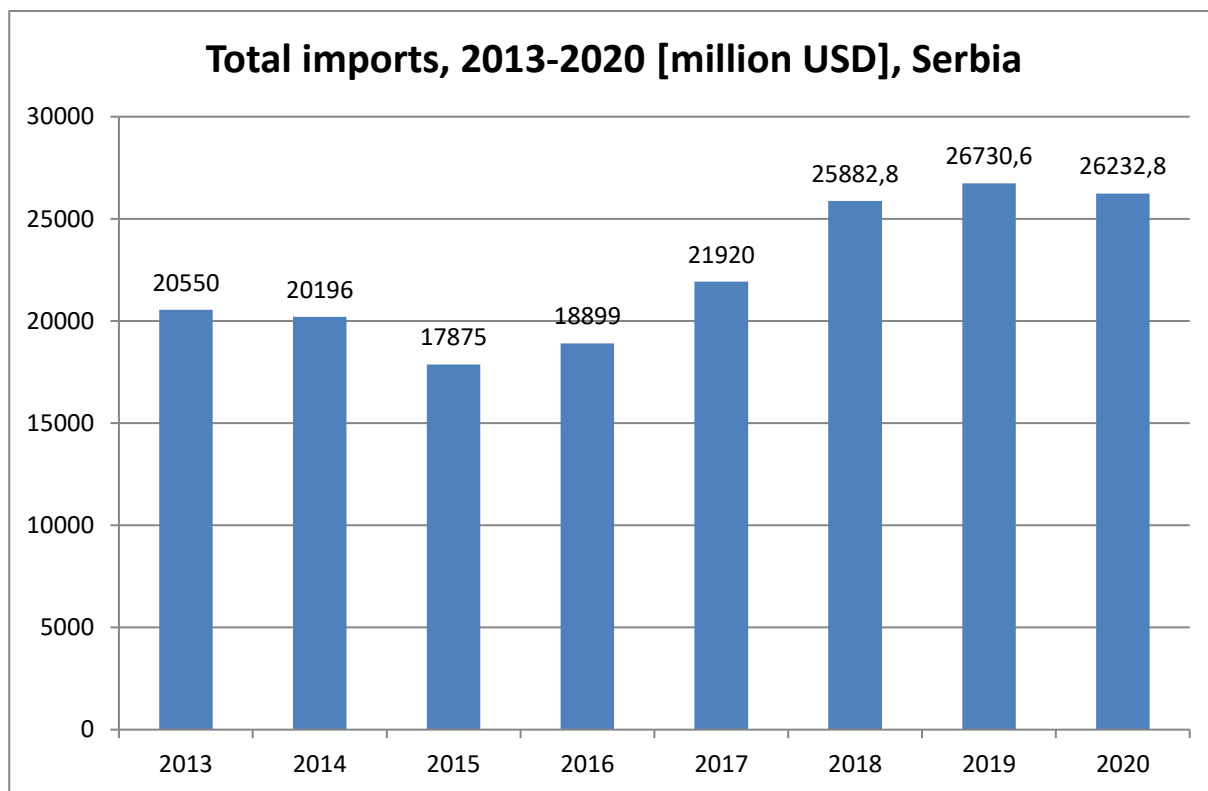
	2013		2014		2015		2016		2017		2018		2019		2020	
	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD
Total																
00 - Live animals other than animals of division 03	14483.6	34077.8	37973.5	74215.2	17739.4	31391.6	6176.4	15688.8	12265.0	28322.2	19171.7	43712.0	7362.1	23155.7	7222.8	24385.7
01 - Meat and meat preparations	32502.9	92218.0	47561.6	125623.8	45096.5	100635.7	48291.9	110893.2	56589.8	136711.8	66537.1	163602.5	61020.6	165078.2	64767.2	180691.5
02 - Dairy products and birds eggs	30263.4	58077.3	38249.5	58107.9	32627.7	49256.3	38297.2	53516.5	42487.8	73596.2	66479.2	99388.7	93813.4	128984.7	81498.2	136491.2
03 - Fish(not marine mammals),crustaceans,molluscs and aquatic invertebrates;preparations thereof	29489.7	87181.6	30343.9	84317.2	32896.2	78874.9	31060.8	78458.9	35957.6	94403.9	36089.2	101957.4	35495.8	104286.9	33438.7	99709.8
04 - Cereals and cereal preparations	72747.9	101672.2	58274.2	111016.5	54727.7	85919.5	52933.7	86150.9	60071.0	90295.3	67737.5	109618.9	87868.7	135605.1	102738.2	159508.3
05 - Vegetables and fruit	359292.7	315620.1	372981.3	322118.5	410621.1	302653.8	462761.2	320408.9	458176.1	347166.8	480438.4	388562.4	499763.1	437276.8	543630.6	543265.1
06 - Sugar,sugar preparations and honey	53919.9	53934.1	52499.3	43726.8	54878.9	33217.8	59427.7	36276.1	62535.7	41552.8	67702.5	46760.7	66321.8	45230.6	81883.9	55545.1
07 - Coffee,tea,cocoa,spices, and manufactures thereof	64035.9	212979.6	64152.6	225662.8	63411.9	210122.4	64313.0	201199.0	64424.2	220065.0	69403.2	230543.9	76525.9	239297.9	79276.6	256089.2
08 - Feeding stuff for animals (not including unmilled cereals)	137238.9	97807.7	136054.6	100049.0	104228.4	65355.9	89152.9	56165.1	155995.1	89376.6	151020.9	102569.4	110578.2	84926.7	122816.0	100863.0
09 - Miscellaneous edible products and preparations	63010.6	153494.3	62686.1	151508.8	64163.9	149135.3	60878.0	132345.0	63183.4	148168.2	75055.0	182453.3	73315.1	182222.0	77970.7	206492.7
11 - Beverages	68352.5	79690.7	90206.0	86690.0	113407.6	87404.1	127683.0	94251.6	132499.4	100164.7	150150.6	115459.6	156667.2	118696.2	153312.5	118425.2
12 - Tobacco and tobacco manufactures	16153.2	129037.2	14590.7	118446.6	20822.4	133951.1	33413.4	213755.9	34544.0	214877.2	31450.0	229061.8	40560.8	263405.2	35325.8	246178.8
21 - Hides,skins and furskins,raw	24263.4	41904.5	21982.0	36716.1	19674.6	25416.1	20415.9	21433.7	19966.5	21394.0	23180.5	24615.7	21318.2	17542.3	20579.9	17529.3
22 - Oil-seeds and oleaginous fruits	33902.9	52955.4	54212.8	48733.2	134160.2	79110.9	28703.1	37651.8	171167.4	105420.9	52886.1	60899.7	34042.8	47913.8	26111.7	40136.3
23 - Crude rubber (including syntetic and reclaimed)	46292.4	120257.4	49431.5	105491.9	58715.6	93763.4	67746.4	98181.8	72304.0	134159.5	74339.3	133250.8	87881.7	139599.2	86556.7	116013.9
24 - Cork and wood	256062.4	71234.9	263674.9	71630.5	302254.9	57136.1	340910.2	63827.8	396855.2	81079.9	301237.6	84527.5	294092.3	82035.8	331115.2	85472.1
25 - Pulp and waste paper	105703.5	43584.9	125982.4	48118.2	144422.9	48711.5	175886.1	54517.2	176614.8	63113.3	203557.7	83076.0	221140.3	67143.3	245039.8	66616.5
26 - Textile fibres and their wastes	12512.1	27983.9	14208.6	28966.6	15862.8	32850.8	18129.3	39003.2	19023.1	39724.9	21252.9	43703.0	19839.0	37899.3	17495.0	32429.1
27 - Crude fertilizers,other than those of Division 56, and crude minerals	482584.1	63777.4	479916.6	62976.6	779685.0	80601.5	977766.6	105249.6	1034030.8	100803.0	1022552.3	101694.6	1272546.8	118738.7	1409960.8	119528.5
28 - Metalliferous ores and metal scrap	680059.3	167859.9	1022572.7	201332.0	1502250.5	271546.6	1971893.6	313563.7	2306962.7	468529.5	2351463.3	492927.6	2670194.3	696471.9	1489062.5	383524.2
29 - Crude animal and vegetable materials,not elsewhere specified	10905.8	51051.1	12825.9	48933.4	13531.5	44947.4	13690.9	42321.8	17207.8	51672.6	17935.0	64772.4	25327.6	54709.2	27702.1	57315.3
32 - Coal,coke and briquettes	625550.8	92320.2	932150.4	128201.1	1484655.3	171310.2	1194835.3	177134.6	1372626.5	300212.5	1427089.8	342544.1	1455520.7	335700.3	1029506.8	171687.7
33 - Petroleum and petroleum products and related materials	2258959.4	1936110.2	2286296.6	1806261.9	2737256.0	1205436.8	3120442.1	1072400.3	3336054.5	1393180.8	3505640.8	1940446.2	3510169.1	1772418.7	3148768.3	1191807.7
34 - Gas,natural and manufactured	1436775.6	923805.5	1244400.5	808884.6	1369670.0	620865.9	1410985.7	395852.2	1666755.3	516314.4	1681882.2	638238.1	1670396.0	706217.6	1607435.9	507460.5
35 - Electric current	0.0	159912.7	0.0	150032.3	0.0	95294.6	0.0	65034.2	0.0	85933.6	0.0	78775.5	0.0	59498.9	0.0	55570.7
41 - Animal oils and fats	3526.6	7398.2	7274.8	10531.7	5912.3	4780.9	4441.7	4154.7	9314.8	9536.8	11575.6	10861.9	8871.3	9605.9	11072.1	11768.6

42 - Fixed vegetable fats and oils,crude,refined or fractionated	43164.4	57324.3	36305.3	43172.8	41733.9	41541.7	42497.3	43577.5	52729.1	53671.1	44965.9	46881.5	37905.9	35235.8	47974.9	48876.6
43 - Animal or vegetable fats and oils,processed;waxes of animal or vegetable origin	1848.5	3861.1	2153.2	3757.0	2665.5	3652.8	2220.3	2755.0	2700.5	3317.0	3554.8	4114.1	3599.4	3249.0	3345.9	3143.5
51 - Organic chemicals	73986.6	204217.7	78639.2	195029.6	83922.0	181939.6	86640.8	177383.1	89903.1	206751.8	99369.3	252384.7	98576.9	239512.1	110704.7	269917.3
52 - Inorganic chemicals	184021.5	116477.2	276621.9	120154.4	306115.4	111533.4	280607.4	95595.9	368878.6	122361.7	468244.5	153841.6	480056.4	163575.0	562974.1	152082.4
53 - Dyeing,tanning and colouring materials	68401.3	154568.8	64122.9	145881.8	65913.2	129651.3	70990.2	140144.9	75314.7	157530.9	78686.9	176737.7	80674.4	170423.8	84589.2	181485.6
54 - Medicinal and pharmaceutical products	11993.6	766567.8	11974.8	707818.5	14318.8	626949.1	14512.4	636616.7	15085.2	766053.7	16137.1	864924.8	16964.3	975324.0	17147.5	1264885.3
55 - Essential oils and perfume materials;toilet,polis hing and cleansing preparations	117866.3	346614.8	118665.8	361255.0	120430.2	317306.5	129411.1	331983.2	132663.7	362391.0	142785.9	426021.9	143696.1	424307.2	162727.3	472959.4
56 - Fertilizers(other than crude)	688474.7	288732.7	605161.4	214887.1	608185.8	199876.1	871835.3	239363.0	769179.2	199541.6	518130.7	153040.7	790335.5	229086.3	1158759.9	284350.3
57 - Plastics in primary forms	348227.0	610589.6	351133.4	598459.8	382204.8	526820.0	439287.2	549678.1	452093.5	617457.3	474709.5	694250.2	527286.2	704010.2	540262.5	644645.3
58 - Plastics in non-primary forms	68999.7	271278.7	72719.8	284746.4	83013.9	269219.4	94322.5	290819.1	105789.4	343157.4	114903.0	411159.3	120930.5	423609.0	130308.1	452413.2
59 - Chemical materials and products,not elsewhere specified	113625.4	408459.8	102023.6	357811.0	104102.7	301539.4	111962.3	303115.8	117329.5	328973.0	119729.5	375663.0	120958.8	349504.6	125218.3	391532.3
61 - Leather,leather manufactures,n.e.s., and dressed furskins	3987.7	116682.5	4657.3	142207.9	4691.2	130098.3	5191.7	148654.0	5492.4	165584.4	6038.0	199991.7	6421.9	201724.7	5266.3	157387.8
62 - Rubber manufactures,not elsewhere specified	37409.9	208010.0	34015.7	175580.3	44718.0	176204.9	44180.0	178313.8	54162.1	219283.7	57208.9	245223.3	64330.2	266936.9	68324.4	265158.9
63 - Cork and wood manufactures(excluding furniture)	185785.4	127923.1	210270.2	136672.3	221559.6	119060.5	285384.5	143955.4	284379.8	165528.3	289904.7	184320.6	324273.4	194079.7	349010.3	208491.6
64 - Paper,paperboard and articles of paper pulp,of paper or of paperboard	435246.3	568636.6	490608.3	638736.8	468959.4	513499.4	488661.1	547111.6	527385.6	593374.7	547742.1	675804.4	546451.2	633837.4	549003.6	617129.6
65 - Textile yarn,fabrics,made-up articles,n.e.s., and related products	78689.5	505378.8	82652.8	541623.9	90243.7	498004.7	101530.6	551758.0	113486.8	630123.2	118482.8	685123.8	122000.2	696827.3	127267.4	803433.7
66 - Non-metallic mineral manufactures,not elsewhere specified	646599.0	273094.6	790140.6	299723.0	819084.6	276682.3	880870.4	279845.4	985626.4	317490.4	1170430.2	374630.9	1215575.5	387144.2	1327586.6	413388.0
67 - Iron and steel	658554.1	639902.3	695483.0	638779.1	755123.0	544825.6	775603.2	535071.7	830556.1	694514.2	920448.3	872361.0	1172619.7	1076198.8	968966.8	811263.7
68 - Non-ferrous metals	160927.8	593972.2	158760.7	578339.4	168444.8	515350.8	177415.5	511683.9	196156.9	707666.5	206433.0	828743.5	211420.8	798936.1	209443.6	759354.9
69 - Manufactures of metals,not elsewhere specified	155157.5	526001.6	156425.2	511265.5	172545.8	478733.6	186014.7	522580.1	209000.3	630780.1	227320.2	729450.8	253516.3	755221.0	260307.0	811916.7
71 - Power-generating machinery and equipment	11817.9	191587.8	15627.5	224801.5	17576.6	192306.5	22765.3	271888.4	32271.6	300054.5	49607.1	550718.2	39919.2	439464.6	29099.9	345269.1
72 - Machinery specialized for particular industries	68636.6	468995.4	61451.0	528249.1	65213.5	472085.7	70405.7	485533.2	85177.1	618603.4	78978.5	637112.5	93748.0	698211.0	107725.1	846048.9
73 - Metalworking machinery	6929.8	67249.6	9613.0	97126.7	10406.5	95467.5	11281.0	101552.0	13348.7	132343.8	16393.7	157705.0	18305.6	192178.5	16946.6	167730.7
74 - General industrial machinery and equipment,n.e.s., and machine parts,n.e.s.	67629.2	662112.4	69818.1	719110.9	80886.3	700927.6	82419.2	696308.3	93681.6	816800.3	109962.0	1019289.1	105229.2	1014181.0	131608.7	1248291.4
75 - Office machines and automatic data-processing machines	6092.7	304389.9	5823.8	282957.2	6152.6	232146.8	6289.8	235481.2	5789.2	252098.4	6670.5	305075.8	5970.2	292326.8	4282.4	279865.9

76 - Telecommunications and sound-recording and reproducing apparatus and equipment	5708.7	445090.5	5295.6	408506.0	6566.4	445457.3	5815.4	443768.9	6094.0	494448.7	6959.2	593777.8	8173.4	636283.5	7697.9	626288.5
77 - Electrical machinery, apparatus and appliances, n.e.s., and electrical parts thereof	77078.7	884126.4	73286.5	816272.9	79865.9	772576.8	93539.5	895507.1	109928.0	1168998.5	126688.2	1509708.3	142010.3	1611613.7	149733.5	1827174.3
78 - Road vehicles (including air-cushion vehicles)	420909.9	2527897.3	350625.1	2244678.0	372511.1	1889603.9	401361.0	1950962.8	371383.1	1756335.1	373532.7	1782078.7	377871.3	1547845.2	338079.2	1241165.9
79 - Other transport means and equipment	21912.4	76336.1	17956.4	92069.7	15450.8	134582.8	22395.0	192241.9	12847.5	69961.5	17594.2	142655.1	30512.9	557719.8	31318.7	261681.1
81 - Prefabricated buildings; sanitary, plumbing, heating and lighting fixtures and fittings, n.e.s.	17265.8	70496.1	17541.0	68853.7	19289.4	67279.5	17567.9	71797.4	23166.2	98439.5	24661.2	112156.3	28798.5	159437.4	31944.9	139805.5
82 - Furniture and parts thereof; bedding, mattresses, cushions and similar stuffed furnishings	36576.0	166234.8	31391.9	145945.4	31680.2	143398.9	33936.6	153129.8	39954.9	181993.8	41334.2	184686.5	46985.1	187228.2	52846.6	190816.9
83 - Travel goods, handbags and similar containers	2345.4	28962.2	2110.7	27475.4	2263.0	23850.4	3143.6	26928.2	3408.3	30012.9	3766.6	36774.8	4836.2	47976.4	4217.1	46227.6
84 - Articles of apparel and clothing accessories	17847.4	334144.9	20375.7	364938.2	18608.6	297426.7	22935.4	333520.8	22576.1	356483.2	25529.9	423791.0	27483.3	447185.5	26925.2	459814.3
85 - Footwear	9116.1	134383.8	8015.1	121783.4	7557.3	111126.5	8287.7	120360.6	8716.4	140655.5	8519.4	143970.5	8728.7	142401.1	6852.5	117858.3
87 - Professional, scientific and controlling instruments and apparatus, n.e.s.	3823.3	189953.9	3628.7	192311.9	3849.7	174862.5	4042.4	193465.8	4334.5	221662.6	4783.1	266354.9	5582.3	275579.8	6034.7	357990.4
88 - Photographic apparatus, equipment and supplies; optical goods, n.e.s.; watches and clocks	2517.7	60975.2	2253.1	57870.1	2352.8	61642.8	2238.0	62514.3	1875.1	66009.4	2117.4	78353.2	2179.3	81109.7	1881.8	72486.5
89 - Miscellaneous manufactured articles, not elsewhere specified	104149.1	580124.0	116049.2	592134.4	74192.2	428445.8	74629.6	476055.7	83505.2	536195.1	94653.4	642696.3	106104.9	690734.3	117750.3	733265.6
96 - Coin (other than gold), not being legal tender	0.0	0.4	0.0	0.0			0.0	0.1			0.2	8.3	0.3	14.1	0.2	8.3
97 - Gold (excluding gold ores and concentrates)	0.0	135.7	0.0	200.9	0.0	256.5	0.0	552.7	0.0	299.3	0.1	3028.3	0.2	8474.1	0.6	35084.4
99 - Unclassified goods	245355.4	1392531.2	253996.9	1456884.6	342024.8	1509848.8	523530.9	2068334.0	522123.4	2437800.4	582058.3	3024156.7	623112.5	2898199.6	675949.2	3237576.9

The figure below shows the evolution of the total imports for period 2013 – 2020

Figure 129: Total imports, 2013-2020 [million USD], Serbia



Imports in tonnes per most recent year

The following table gives the imports by NSTR1 category of goods in Serbia for 2020.

Table 91: Imports by NSTR1 category of goods in Serbia for 2020

NSTR		Tonnes/year
0	0 - Food and live animals	1195243.0
1	1 - Beverages and tobacco	188638.3
2	2 - Crude materials,inedible,except fuels	3653623.6
3	3 - Mineral fuels,lubricants and related materials	5785711.0
4	4 - Animal and vegetable oils,fats and waxes	62392.9
5	5 - Chemicals and related products,not elsewhere specified	2892691.6
6	6 - Manufactured goods classified chiefly by material	3865176.1
7	7 - Machinery and transport equipment	816492.1
8	8 - Miscellaneous manufactured articles	248452.9
9	9 - SMTK Rev. 4 Commodities n.e.s. in the SITC Rev. 4	675950.0
Total		19,384,371.5

Exports

Table 92: Total exports, country level, by category of goods, 2013 – 2020, in thousands USD and tonnes, Serbia

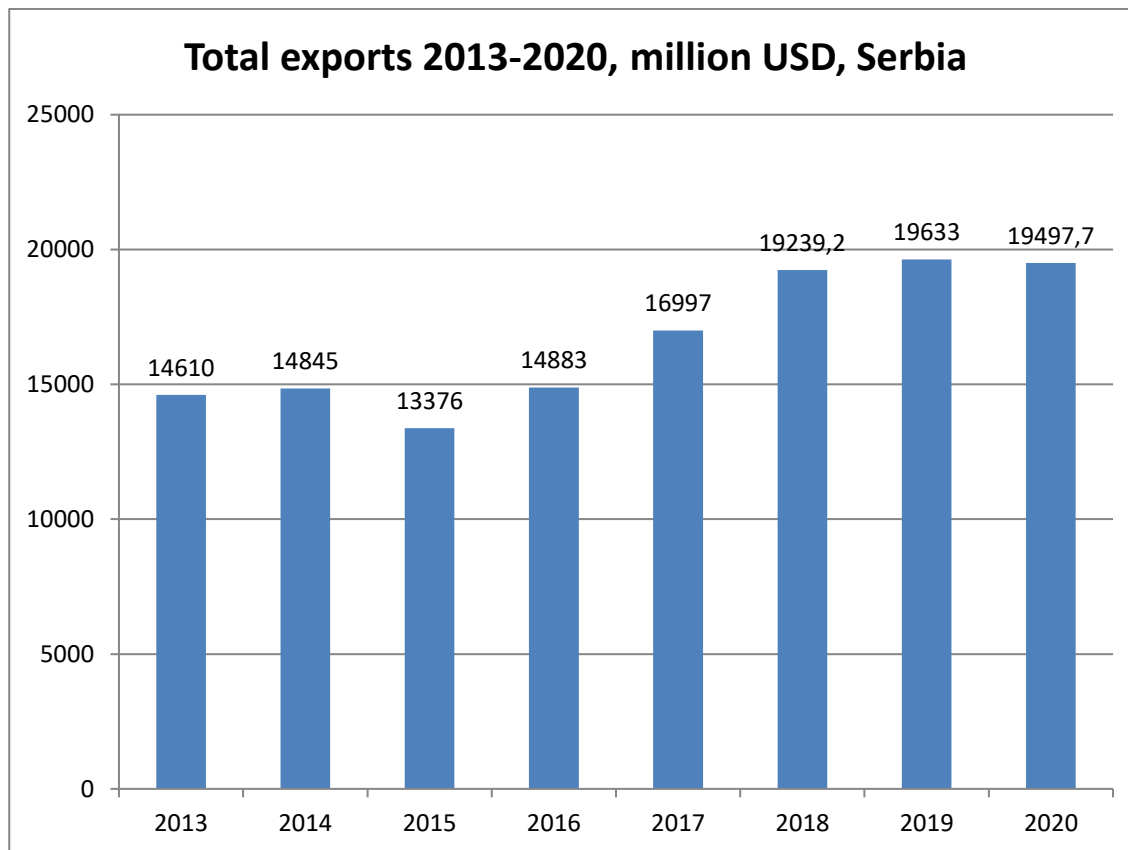
	2013		2014		2015		2016		2017		2018		2019		2020	
	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD	Tonnes	USD
Total																
00 - Live animals other than animals of division 03	16738.7	47416.6	13202.4	39198.5	27056.4	58622.5	17750.6	38748.6	24116.0	53867.8	17624.1	44157.7	18391.5	40720.3	25418.7	55783.7
01 - Meat and meat preparations	17185.9	70858.2	40919.8	147342.0	36279.4	97136.5	32055.6	87957.5	40001.1	115650.0	43162.8	139265.2	37413.0	107972.3	36621.9	107629.1
02 - Dairy products and birds eggs	43807.2	82987.3	57333.7	107503.5	57003.2	89474.1	53993.0	87182.6	54039.4	96140.1	73656.6	128545.9	124931.5	148819.5	98774.7	141316.0
03 - Fish(not marine mammals),crustaceans,molluscs and aquatic invertebrates;preparations thereof	861.1	4981.7	1269.4	7147.3	1292.7	5799.5	2037.8	13466.5	1888.8	15801.4	2094.9	17513.2	2088.7	17442.6	1717.7	14916.8
04 - Cereals and cereal preparations	2174794.2	663691.7	3041329.0	787023.3	2852691.4	638078.3	3373886.5	701186.4	2458128.8	582312.8	2777034.3	692592.9	3760167.6	826927.5	4449692.9	990935.7
05 - Vegetables and fruit	522613.3	669906.5	578152.1	747676.7	682870.5	763642.9	840080.5	806466.9	821714.6	886711.2	717451.3	829477.1	814111.4	858714.5	743474.8	982586.2
06 - Sugar,sugar preparations and honey	287979.0	207783.9	323972.5	161202.1	250413.9	114151.2	256493.8	149579.6	209518.6	119206.4	183982.2	75842.0	142361.1	73888.8	138851.8	80215.4
07 - Coffee,tea,cocoa,spices, and manufactures thereof	20489.6	79983.6	22422.6	87080.4	24097.4	83081.1	24684.4	88529.1	25122.1	93075.0	28273.2	107067.8	30298.8	112507.5	27568.2	107210.7
08 - Feeding stuff for animals (not including unmilled cereals)	369523.0	126604.6	458254.3	135954.0	387780.5	109897.3	494589.0	151915.5	580396.9	176602.6	549243.2	202926.5	516943.9	213275.5	541469.5	250764.1
09 - Miscellaneous edible products and preparations	73610.2	143165.1	72965.4	146602.8	77129.6	126113.0	85268.7	141530.1	86171.4	152212.7	89898.7	184336.4	98660.2	183627.6	107084.4	212551.2
11 - Beverages	358093.2	214392.3	374741.7	222596.3	407000.7	188996.0	430804.2	190957.9	455462.8	207835.5	501960.3	237609.2	554796.8	258566.8	490414.6	239132.2
12 - Tobacco and tobacco manufactures	13942.7	105972.8	17349.5	175704.3	27508.1	251466.8	41462.6	358809.5	43579.2	287760.6	46226.2	301236.6	44483.7	323933.6	48771.8	450444.8
21 - Hides,skins and furskins,raw	19247.6	52944.6	16642.5	44050.5	17125.1	35268.5	14811.8	27358.9	14094.9	26504.3	14635.4	26603.0	11250.0	13091.6	9773.9	9252.8
22 - Oil-seeds and oleaginous fruits	184613.0	101835.5	100325.2	66411.4	262121.0	117978.9	326912.4	139962.1	313009.8	140392.2	367994.9	164635.6	387596.7	165177.9	486495.4	224247.3
23 - Crude rubber (including syntetic and reclaimed)	32185.0	30943.4	20076.7	21451.8	16993.3	15205.5	16919.4	19141.5	16480.6	28684.3	24612.6	32051.4	24729.3	25953.2	29584.5	31270.1
24 - Cork and wood	280130.5	93782.2	278622.3	98202.8	312017.8	90639.0	325432.1	102445.4	348126.9	120763.5	416192.2	150332.2	364102.3	134639.4	311255.4	123971.1
25 - Pulp and waste paper	53279.5	8376.6	64091.6	10199.9	69114.1	9851.6	87665.0	13501.7	83862.3	14786.9	76197.4	12690.5	81133.7	12528.7	84383.3	10403.0
26 - Textile fibres and their wastes	3554.9	5673.9	4916.5	7092.8	5204.9	6001.7	3120.3	3709.1	3853.7	3945.2	3457.4	3992.4	3121.0	3235.6	1680.8	1220.4
27 - Crude fertilizers,other than those of Division 56, and crude minerals	329502.1	13518.4	450712.0	15473.9	503037.7	15562.0	765357.4	16162.2	728720.7	17444.8	532246.6	17180.6	748321.9	16375.7	700354.1	15747.1
28 - Metalliferous ores and metal scrap	1692271.3	306153.4	555277.7	239139.8	245485.8	129760.7	244270.6	136663.8	411370.6	209669.8	274537.7	208959.3	302785.7	196151.7	397196.7	304486.5
29 - Crude animal and vegetable materials,not elsewhere specified	28577.8	38457.9	41352.7	41579.3	23379.1	28139.9	23553.2	34349.3	24665.7	37045.1	24429.6	47179.7	26237.9	57708.5	25890.6	58053.0
32 - Coal,coke and briquettes	121485.1	14930.2	57608.1	6855.6	37846.1	1307.8	78526.8	2678.9	77020.0	3505.4	84924.7	4433.5	102324.3	5389.3	77258.4	4611.0
33 - Petroleum and petroleum products and related materials	523171.2	385310.6	570420.0	423788.9	574592.1	250027.9	567795.3	206501.8	635330.8	300638.2	717872.9	441644.9	712071.2	409109.9	748495.3	301653.0
34 - Gas,natural and manufactured	36913.0	32944.8	41205.4	39289.6	62688.0	33645.0	71927.4	37522.5	64294.0	39834.6	57318.8	34576.2	53623.1	26831.5	50589.0	22689.6
35 - Electric current	0.0	271640.4	0.0	84009.5	0.0	95568.9	0.0	118908.0	0.0	91589.7	0.0	99557.4	0.0	83264.3	0.0	119549.9

41 - Animal oils and fats	3660.4	3590.2	6088.8	5687.3	2852.1	2134.7	4508.9	2943.5	6637.4	5481.5	5191.2	3712.3	4432.1	2804.2	5306.8	2985.9
42 - Fixed vegetable fats and oils,crude,refined or fractionated	151052.9	177852.8	140996.3	139182.8	182448.4	150229.8	217987.4	184507.3	200577.9	174552.6	194532.9	159397.4	288909.1	214247.9	246912.9	212962.5
43 - Animal or vegetable fats and oils,processed;waxes of animal or vegetable origin	6507.9	7341.3	8170.0	6083.5	8002.0	4673.6	10147.8	5669.6	9457.1	7678.2	5527.9	4730.7	6264.3	5179.0	6789.6	6143.9
51 - Organic chemicals	112975.0	149089.6	87901.0	115766.7	133339.3	96046.1	328810.4	143110.6	381911.6	215888.0	397385.3	285424.4	338907.4	202337.2	395859.3	191257.1
52 - Inorganic chemicals	134365.4	41618.3	100706.9	25452.9	142532.3	34744.5	185820.9	45387.7	231709.7	57332.0	259466.0	77884.7	230115.8	69797.4	244499.3	77020.4
53 - Dyeing,tanning and colouring materials	178914.6	87573.6	200102.3	97986.6	207384.8	80897.4	211230.2	87004.4	241626.6	95935.7	270022.8	108874.2	298940.3	110039.4	326806.4	119657.7
54 - Medicinal and pharmaceutical products	15542.4	246039.8	16046.7	248025.3	17629.0	221311.7	18484.3	225748.3	18572.8	273790.3	20843.8	277336.3	20946.6	295261.1	18901.8	326695.8
55 - Essential oils and perfume materials;toilet,polis hing and cleansing preparations	75197.4	114957.5	76531.3	126116.0	86141.2	145273.5	95601.9	171158.4	99407.0	188171.5	113419.9	249677.6	120803.9	285422.7	144902.4	336905.0
56 - Fertilizers(other than crude)	178452.9	69447.4	236317.2	86005.8	240318.2	79623.5	272657.1	84029.5	340153.3	99878.3	389954.7	124301.0	446982.3	149421.7	413368.0	130253.8
57 - Plastics in primary forms	168174.1	257234.1	124448.7	193402.9	128879.7	171864.0	168580.3	205010.9	163050.4	204144.9	166096.5	214168.9	141472.4	159420.6	178668.6	177229.6
58 - Plastics in non-primary forms	46046.3	208722.6	49245.3	211964.5	59753.9	224566.1	72870.8	255492.9	88025.3	322486.7	99408.2	402024.1	114240.6	425921.6	125791.5	459456.3
59 - Chemical materials and products,not elsewhere specified	65237.2	74479.2	66746.3	90097.4	76311.5	76792.2	76897.1	92509.6	102867.5	113272.1	110741.4	121993.0	118543.8	109933.9	104069.1	115529.2
61 - Leather,leather manufactures,n.e.s., and dressed furskins	1171.8	25280.8	1312.0	39631.2	1214.1	37922.8	1528.6	49795.8	1938.9	65531.5	3212.4	108737.5	4427.4	149497.1	2766.2	105252.3
62 - Rubber manufactures,not elsewhere specified	93697.4	462679.4	102640.0	478833.3	125685.6	474677.2	150055.7	538650.3	162964.5	758969.7	169205.2	898498.1	180878.0	927920.1	165865.6	854989.7
63 - Cork and wood manufactures(excluding furniture)	209876.8	160063.9	249585.5	174902.3	229097.1	135468.2	237665.4	142246.2	250622.0	166525.0	235799.6	189656.6	236214.4	172159.1	211357.1	160170.5
64 - Paper,paperboard and articles of paper pulp,of paper or of paperboard	213427.2	298324.2	241697.9	361536.5	257583.5	329511.2	281706.1	344556.8	326353.1	425065.6	349767.6	475521.1	402622.0	507446.2	407913.7	486408.0
65 - Textile yarn,fabrics,made-up articles,n.e.s., and related products	33210.2	163396.0	39649.0	197154.6	42029.6	173475.0	46196.1	198609.6	55420.5	234782.5	59901.4	267033.8	62989.9	277848.2	63303.7	305118.7
66 - Non-metallic mineral manufactures,not elsewhere specified	659635.9	141061.9	684351.8	152681.2	737797.5	134714.2	745048.0	152371.8	900325.8	193093.5	1130951.0	214635.2	1200712.0	231012.8	1083427.7	211911.9
67 - Iron and steel	606977.9	407882.6	765291.5	490267.1	905353.0	488872.7	952752.2	494159.6	1142455.2	740944.3	1473940.2	1059762.4	1543494.0	925315.5	1065330.7	655344.0
68 - Non-ferrous metals	125271.6	646038.3	124208.1	592312.0	135799.2	563097.8	154654.7	600333.6	179340.9	819628.1	173555.8	888130.6	187835.5	903080.6	151148.7	710098.6
69 - Manufactures of metals,not elsewhere specified	178376.4	608325.7	182008.0	621133.8	184344.2	532617.6	195528.1	527658.0	222163.0	613063.8	220246.1	674716.7	216767.1	685668.4	212815.2	682170.6
71 - Power-generating machinery and equipment	40510.9	346913.7	44373.8	387145.9	57000.1	426097.5	87436.9	669157.5	79987.5	703370.2	71630.6	721491.6	90266.8	931571.2	79538.2	938746.2
72 - Machinery specialized for particular industries	26342.1	155890.7	27999.7	159622.2	30688.6	151121.7	29949.7	162790.2	32584.5	183163.0	37134.9	217976.8	39512.6	244538.1	36410.2	227493.6
73 - Metalworking machinery	4346.4	50948.5	4961.1	36745.6	3874.7	32720.5	3462.9	34729.6	3878.8	42128.2	4281.0	41861.2	4904.2	45321.4	4233.5	46642.6
74 - General industrial machinery and equipment,n.e.s., and machine parts,n.e.s.	31883.0	321898.9	32480.6	346087.9	37858.4	369610.2	42914.6	424595.2	47533.9	536068.0	51267.8	650985.2	55991.4	699485.8	53484.6	717455.6
75 - Office machines and automatic data-processing machines	2560.3	113465.3	2612.7	110202.4	3092.8	94662.6	3398.0	105481.3	3549.8	117931.4	4016.9	133105.2	3318.9	118772.0	2114.7	94900.5

76 - Telecommunications and sound-recording and reproducing apparatus and equipment	1539.6	152181.3	1558.7	139174.6	1904.6	94144.7	1877.3	115953.6	1781.1	105703.1	1697.9	105285.6	1848.7	96775.9	1493.6	94544.8
77 - Electrical machinery, apparatus and appliances, n.e.s., and electrical parts thereof	112550.2	1121130.2	121947.6	1163586.2	123944.8	1031381.1	129676.6	1241452.4	139898.6	1549165.4	159925.9	2033383.2	177753.4	2310637.9	170648.2	2425006.0
78 - Road vehicles (including air-cushion vehicles)	202301.2	2174961.0	192549.1	2053958.0	186956.9	1568614.0	183722.5	1527944.8	166205.9	1401308.2	139666.1	1270315.7	114612.4	951346.8	98123.0	785163.5
79 - Other transport means and equipment	38115.9	97466.4	27440.9	68621.8	37527.3	127869.5	34336.3	117187.0	36517.5	122918.6	40739.5	166674.1	51677.4	176819.0	48333.1	195488.3
81 - Prefabricated buildings; sanitary, plumbing, heating and lighting fixtures and fittings, n.e.s.	12519.4	53506.6	12418.0	60080.0	13874.7	50940.7	16484.0	65321.7	16525.5	70645.4	14554.5	77796.3	18775.5	115526.4	20921.6	113396.6
82 - Furniture and parts thereof; bedding, mattresses, cushions and similar stuffed furnishings	74675.8	274660.0	75395.1	301964.0	83200.8	349495.2	95084.5	405382.6	105920.0	483624.9	121131.8	563301.7	142815.5	644288.0	142672.8	644761.9
83 - Travel goods, handbags and similar containers	366.2	9593.1	378.3	9457.0	429.9	9566.0	469.6	10091.9	594.7	11317.1	675.2	14028.5	1275.5	24304.0	1317.7	26552.8
84 - Articles of apparel and clothing accessories	20065.6	602699.9	21268.8	629370.4	21407.6	527547.7	24488.2	593708.3	26110.3	673705.0	25884.3	710876.6	26034.5	677912.8	22846.1	631278.1
85 - Footwear	8061.8	271014.8	8757.7	286131.0	8457.6	253420.5	9263.1	290022.3	10465.6	335075.1	10758.8	361524.0	10268.1	332698.0	8629.3	282580.6
87 - Professional, scientific and controlling instruments and apparatus, n.e.s.	4826.1	88657.5	4617.9	96333.9	6710.4	96481.7	7486.9	107488.1	7778.3	126524.3	9153.3	145950.3	10960.0	162970.6	11729.7	178487.7
88 - Photographic apparatus, equipment and supplies; optical goods, n.e.s.; watches and clocks	173.3	17662.9	277.8	18891.3	261.9	21701.1	316.4	23600.1	252.2	32303.8	274.5	42366.8	260.9	37105.9	474.4	36423.3
89 - Miscellaneous manufactured articles, not elsewhere specified	129033.0	512780.1	123779.9	539879.3	122048.6	452842.2	133272.3	483948.3	151362.8	524940.9	160531.3	555097.4	173998.5	576559.2	162850.5	565369.6
96 - Coin (other than gold), not being legal tender	0.0	0.0	0.0	0.0			0.0	0.0			0.3	25.0	0.8	40.4	0.5	25.1
97 - Gold (excluding gold ores and concentrates)	3.0	19447.3	10.3	10177.0	1.7	10243.0	1.3	18975.8	34.6	29965.1	1.3	23783.7	2.1	27366.6	2.1	17084.1
99 - Unclassified goods	3535.6	100193.7	5083.5	111091.8	5137.8	193939.9	7613.9	259309.9	11790.1	348993.7	11906.2	392707.5	10087.8	333420.0	8481.5	288079.3

The figure below shows the evolution of the total exports for period 2013 – 2020.

Figure 130: Total exports, 2013-2020 [million USD], Serbia



Exports in tonnes for most recent year

The following table gives the exports by NSTR1 category of goods in Serbia for 2020.

Table 93: Exports by NSTR1 category of goods in Serbia for 2020

NSTR		Tonnes/year
0	0 - Food and live animals	6170674.6
1	1 - Beverages and tobacco	539186.4
2	2 - Crude materials, inedible, except fuels	2046614.9
3	3 - Mineral fuels, lubricants and related materials	876342.7
4	4 - Animal and vegetable oils, fats and waxes	259009.4
5	5 - Chemicals and related products, not elsewhere specified	1952866.5
6	6 - Manufactured goods classified chiefly by material	3363928.5
7	7 - Machinery and transport equipment	494379.0
8	8 - Miscellaneous manufactured articles	371441.9
9	9 - SMTK Rev. 4 Commodities n.e.s. in the SITC Rev. 4	8484.1
Total		16,082,928.00

Conclusions on the trade flows development

The general trend at the country level is presented as conclusions. Thus, the tables below give the growth in the period 2013 – 2020 for imports and exports by category of goods.

Table 94: Growth in the period 2013 – 2020 for imports by category of goods, Serbia

Imports - Category of goods	Growth 2013 - 2020
0 - Food and live animals	39.47%
1 - Beverages and tobacco	123.23%
2 - Crude materials, inedible, except fuels	121.13%
3 - Mineral fuels, lubricants and related materials	33.89%
4 - Animal and vegetable oils, fats and waxes	28.54%
5 - Chemicals and related products, not elsewhere specified	72.64%
6 - Manufactured goods classified chiefly by material	63.62%
7 - Machinery and transport equipment	18.90%
8 - Miscellaneous manufactured articles	28.31%
9 - SMTK Rev. 4 Commodities n.e.s. in the SITC Rev. 4	175.50%
Total	70.52%

The highest growth of 175.50% is observed for commodities like coin (other than gold), gold (excluding gold ores and concentrates) and unclassified goods. These products are followed by beverages and tobaccos, as well as crude materials, inedible, except fuels both with the growth of above 120%.

Table 95: Growth in the period 2013 – 2020 for exports by category of goods, Serbia

Exports - Category of goods	Growth 2013 – 2020
0 - Food and live animals	74.93%
1 - Beverages and tobacco	44.93%
2 - Crude materials, inedible, except fuels	-21.99%
3 - Mineral fuels, lubricants and related materials	28.58%
4 - Animal and vegetable oils, fats and waxes	60.65%
5 - Chemicals and related products, not elsewhere specified	100.31%
6 - Manufactured goods classified chiefly by material	58.55%
7 - Machinery and transport equipment	7.44%
8 - Miscellaneous manufactured articles	48.74%
9 - SMTK Rev. 4 Commodities n.e.s. in the SITC Rev. 4	74.93%
Total	44.68%

For exports it is noticed a decrease of almost 22% for crude materials, excluding fuel, and the highest increase of around 100% for chemicals and related products.

5.7 Slovakia

Data for Slovakia is presented at the county level between 2015 and 2019. The central government authority in this field, Statistical Office of the Slovak Republic does not keep import and export statistics at NUTS 2 level. Therefore, data are presented at country level.

Import statistics 2015 - 2019

Figure 131: Total import at country level - Slovakia 2015-2019

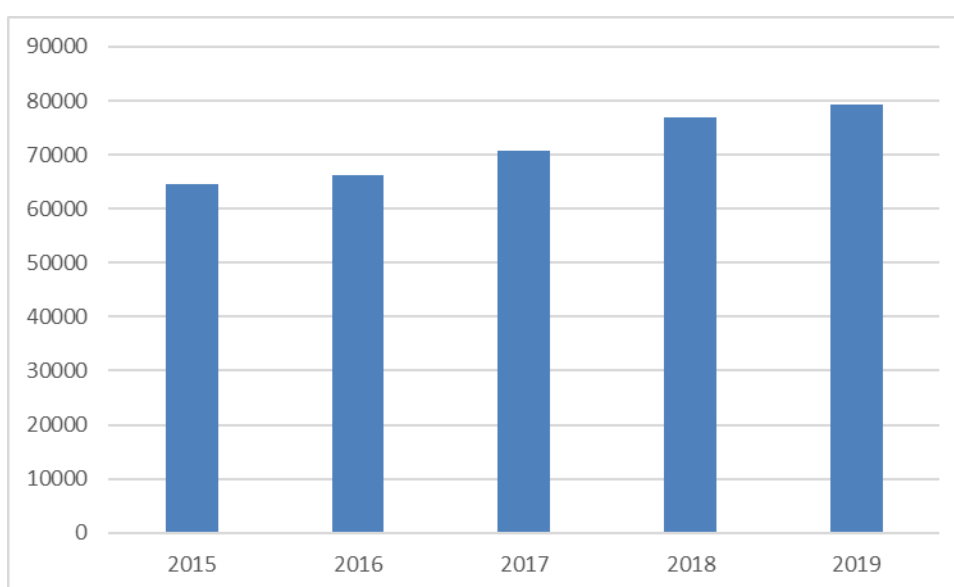


Table 96: Total import at country level - Slovakia 2015-2019 in mil. Eur

Category of goods	2015	2016	2017	2018	2019
Live animals and animal products	823,1	889,8	1047,1	1094,3	1167,6
Vegetable products	1007,1	1051,3	1014	1072,5	1147,5
Animal or vegetable fats and oils	205,7	192,1	158,3	164,9	156,3
Food, beverages, and tobacco	1809,3	1971,2	2014,1	2154,4	2300,2
Mineral products	5844	4859,3	6045,5	7039	6814,5
Chemical products	4116,4	4341,5	4539,9	4647	4713,4
Plastics, rubber and articles thereof	3832,1	4160	4512,2	4614,6	4626,8
Raw hides and skins, tanned hides and skins and their products	398,5	436,7	423,2	415,6	350,6
Wood products, excluding furniture	436,1	465	498,6	568	606
Paper and articles thereof	902,7	933,8	932,9	972	958,1
Textiles and textile articles	1946,9	2020,1	2144,5	2120,5	2358,4
Shoes, hats, umbrellas, and similar articles	875,5	844,4	884,1	895,3	919,7

Articles of stone, plaster, cement, ceramics, glass, and other similar materials	809,3	878,2	846,4	969	1014,4
Pearls, precious stones, precious metals, imitation jewellery, coins	226,9	218,9	283,1	287,5	286,1
Base metals and articles thereof	6027,2	6031,1	7020,9	7588,9	7246,8
Electrical machines, apparatus and equipment; apparatus for recording or reproducing sound and images	20880,9	21718,2	23443,6	25449,8	26244,7
Means and materials of transport	9667,5	10309,7	10627,5	12540,4	13905,8
Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	2624,8	2516	1933,4	1573,6	1472,9
Guns and ammunition	52,2	81,7	47,1	60,1	52,8
Miscellaneous goods and products	1858,5	2150,5	2252,6	2516,6	2837,7
Works of art, collectors' items, and antiques	0,3	1,3	0,5	1,9	1,5
Other	102	116,8	108,7	89,2	93,4
Total	64447	66187,6	70778,2	76835,1	79275,2

Table 97: Total imports (trade within and outside the EU) in thousand tonnes

Commodity	2015	2016	2017	2018	2019
1. Biomass and biomass products	5 855	6 070	6 395	6 979	7 578
1.1. Crops, raw and processed	1 548	1 523	1 565	1 686	1 695
1.2. Crop and forage residues	1	1	2	5	7
1.3. Wood and wood products	1 270	1 356	1 600	1 990	2 626
1.4. Catches of fish and other aquatic animals and plants, raw and processed	28	26	28	30	31
1.5. Live animals and animal products	636	667	757	770	706
1.6. Products mainly from biomass	2 372	2 498	2 443	2 499	2 514
2. Metal ores and concentrates, crude and processed	14 380	14 020	14 572	15 176	13 467
2.1. Iron ores and concentrates, iron and steel, crude and processed	8 600	9 301	9 586	10 011	8 191
2.2. Non - ferrous metal ores and concentrates, crude and processed	763	749	809	813	835
2.3. Products mainly from metals	5 016	3 970	4 176	4 352	4 441
3. Non-metallic minerals, raw and processed	3 928	4 048	4 652	4 686	5 017
3.1. Marble, granite, sandstone, porphyry, basalt and other ornamental or building stone	123	99	84	91	88
3.2. Chalk and dolomite	4	23	50	26	9
3.4. Chemical and fertilizer minerals	507	519	602	544	605
3.5. Salt	303	241	387	274	345
3.6. Limestone and gypsum	155	147	143	143	151
3.7. Clay and kaolin	423	511	518	494	622

3.8. Sand and gravel	509	671	778	923	1 158
3.9. Other	470	424	590	572	490
3.10. Products mainly from non - metallic minerals	1 434	1 411	1 499	1 619	1 549
4. Fossil energy materials / carriers, raw and processed	16 338	16 260	16 355	17 029	15 747
4.1. Coal and other solid energy products, raw and processed	4 161	4 178	4 525	4 778	3 875
4.2. Liquid and gaseous energy products, raw and processed	10 394	10 183	9 830	10 225	9 909
4.3. Products mainly from fossil energy products	1 782	1 899	2 000	2 025	1 963
5. Other products	2 766	3 235	3 317	3 496	3 298
6. Waste imported for final treatment and disposal	0	0	0	1	10
Import total	43 267	43 633	45 291	47 367	45 118

Export statistics 2015 – 2019

Figure 132: Total export at country level - Slovakia 2015-2019

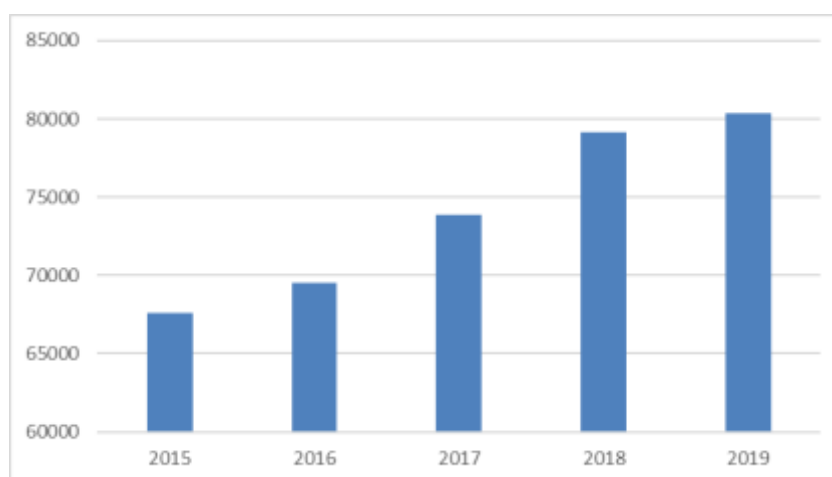


Table 98: Total export, country level, by category of goods, 2015 – 2019, Slovakia in mil. Eur

Category of goods	2015	2016	2017	2018	2019
Live animals and animal products	615,3	574,8	609,1	624,1	624,8
Vegetable products	946	968,4	959,3	933,9	949,6
Animal or vegetable fats and oils	133,3	122,3	69,3	82,5	53,7
Food, beverages, and tobacco	1105,1	1161,3	1214,1	1215,9	1357,9
Mineral products	2689,5	2160,5	2757,4	2704,1	2655,9
Chemical products	1948,3	1947,6	1871,8	2036,2	2071,8
Plastics, rubber, and articles thereof	4172,8	4223,9	4478,2	4629,3	4424,4

Raw hides and skins, tanned hides and skins and their products	267,5	332,8	342,8	326,3	254,3
Wood products, excluding furniture	724,4	754,3	824,8	913,3	899,3
Paper and articles thereof	1121,2	1156,2	1149	1227,2	1202,9
Textiles and textile articles	1573,5	1464,2	1591,7	1677,1	1777,8
Shoes, hats, umbrellas, and similar articles	1049,2	1003	1051,5	1052,2	998,5
Articles of stone, plaster, cement, ceramics, glass, and other similar materials	647,8	740,4	733,6	805,1	816,7
Pearls, precious stones, precious metals, imitation jewellery, coins	205,7	157,4	220,2	266,7	295,4
Base metals and articles thereof	6613,4	6565,1	7711	8149,9	7527,4
Electrical machines, apparatus, and equipment; apparatus for recording or reproducing sound and images	22247,5	23120,3	24631,5	24752,1	24641,8
Means and materials of transport	18716,7	20240	20400,1	24264,1	26407,3
Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	739,1	634,4	858,6	881,4	881,1
Guns and ammunition	55,5	54,7	78,8	96,2	94,5
Miscellaneous goods and products	2011,2	2109,5	2255,9	2475,3	2368,3
Works of art, collectors' items, and antiques	3,8	2,8	1,8	1,4	3
Other	20,2	60,7	41,4	30,4	31,1
Total	67607	69554,6	73851,9	79144,7	80337,5

Table 99: Total exports (trade within and outside the EU) in thousand tonnes

Exports - total trade (intra-EU and extra-EU trade) in thousands tonnes	2015	2016	2017	2018	2019
1. Biomass and biomass products	9 462	9 772	9 574	9 341	9 384
1.1. Crops, raw and processed	3 138	3 319	3 387	2 928	2 757
1.2. Crop and forage residues raw and processed	15	21	22	32	35
1.3. Wood and wood products	3 107	3 254	3 122	3 285	3 493
1.4. Catches of fish and other aquatic animals and plants, raw and processed	2	2	2	4	4
1.5. Live animals and animal products	658	623	618	595	540
1.6. Products mainly from biomass	2 540	2 554	2 422	2 497	2 555
2. Metal ores and concentrates, crude and processed	10 395	11 042	11 118	11 423	10 962
2.1. Iron ores and concentrates, iron and steel, crude and processed	5 539	5 885	6 058	5 916	5 439
2.2. Non - ferrous metal ores and concentrates, crude and processed	383	390	431	427	455
2.3. Products mainly from metals	4 474	4 768	4 629	5 080	5 068
3. Non-metallic minerals, raw and processed	6 707	6 757	7 388	8 105	8 130
3.1. Marble, granite, sandstone, porphyry, basalt and other ornamental or building stone	30	11	24	17	20
3.2. Chalk a dolomite	621	590	583	660	701
3.3. Slate	0	0	0	0	-

3.4. Chemical and fertilizer minerals	1 427	1 325	1 416	1 431	1 361
3.5. Salt	14	15	25	13	4
3.6. Limestone and gypsum	830	770	644	626	477
3.7. Clay and kaolin	263	309	349	461	444
3.8. Sand and gravel	506	542	680	1 032	1 265
3.9. Other	637	542	876	960	903
3.10. Products mainly from non - metallic minerals	2 381	2 655	2 790	2 904	2 955
4. Fossil energy materials / carriers, raw and processed	5 650	5 562	5 849	5 362	5 111
4.1. Coal and other solid energy products, raw and processed	32	20	149	167	49
4.2. Liquid and gaseous energy products, raw and processed	4 094	3 921	3 993	3 466	3 384
4.3. Products mainly from fossil energy products	1 525	1 621	1 708	1 729	1 678
5. Other products	2 077	2 100	2 158	2 336	2 067
6. Waste imported for final treatment and disposal	0	0	0	0	1
Export total	34 292	35 233	36 087	36 566	35 655

Domestic production

Table 100: Domestic production Slovakia 2015 - 2019

Trade flow domestic production in thousand tonnes	2015	2016	2017	2018	2019
1. Biomass	19 746	23 078	19 435	20 994	19 845
1. Biomass1.1. Crops (excluding fodder)	5 931	7 502	5 833	6 534	6 431
1.2. Crop residues (used), fodder and grazed biomass	6 533	8 245	6 507	7 261	7 298
1.3. Wood	7 276	7 324	7 087	7 192	6 108
1.4. Wildlife fishing, aquatic plants / animals, hunting and harvesting	6	6	7	7	8
2. Metal ores (raw ores)	45	46	47	47	49
2.1. Iron ore	-	-	-	-	-
2.2. Non-ferrous metal ores	45	46	47	47	49
3. Non-metallic minerals	37 088	33 886	39 091	40 186	36 156
3.1. Marble, granite, sandstone, porphyry, basalt, other ornamental or building stone	105	111	151	132	138
3.2. Chalk and dolomite	1 630	1 715	2 076	1 918	1 879
3.3. Slate	-	-	-	-	-
3.4. Chemical and fertilizer minerals	20	25	16	9	6
3.5. Salt	-	-	-	-	-
3.6. Limestone and gypsum	8 262	8 141	8 613	8 455	8 443
3.7. Clay and kaolin	653	863	842	1 389	1 112
3.8. Sand and gravel	24 896	21 363	25 379	26 208	22 463
3.9. Other	1 522	1 668	2 015	2 075	2 115
4. Fossil energy materials / carriers	1 848	1 913	1 769	1 513	1 509
4.1. Coal and other solid energy materials / carriers	1 733	1 817	1 675	1 426	1 427
4.2. Liquid and gaseous energetic materials / carriers	115	96	94	87	82

Figure 133: Major agricultural production - Slovakia¹⁰



Figure 134: Major industrial production - Slovakia (1)¹¹



¹⁰ The map created in the ArcGIS online application shows the most important plants of the food industry in Slovakia, available at:

<https://www.arcgis.com/apps/OnePane/basicviewer/index.html?appid=5d8b280665d445128f1a65c0aad82c6c>

¹¹ The map created in the ArcGIS application shows the most important industrial production plants in Slovakia, available at:

<https://www.arcgis.com/apps/OnePane/basicviewer/index.html?appid=46b736559f794efea69c1216a21ab5a8>

Figure 135: Major industrial production - Slovakia (2)



Figure 136: Major industrial production - Slovakia (3)



Conclusions on the trade flows development¹²

In the reference period 2015 - 2019, the balance of foreign trade reached positive values every year. In 2016, the balance was recorded in the amount of EUR 3 367 million and since 2017 it has a downward trend. In 2019, the balance decreased by EUR 1 247 million, year-on-year.

¹² Development of foreign trade of the Slovak Republic 2015 – 2019, Statistical office of the Slovak Republic

In 2019, compared with the previous year, imports of goods in the category “Food and beverages” increased by 5,8 % representing EUR 223 million. The largest share, up to 76,6 %, on imports of this category was recorded in the “Processed food and beverages” and their imports increased by 5,5 % in 2019, compared with the previous year. Imports of the “Basic food and beverages” increased by 6,6 %.

The value of exports of “Food and beverages” was lower than the value of imports in all five years. In 2019, it comprised 3,3 % of the total exports and amounted to EUR 2 615 million.

Industrial supplies” represented 24 % of the total value of imports and 19,5 % of the total value of exports. In 2019, the balance of “Industrial supplies” was passive in the amount of EUR 3 352 million.

In this category, the deficit of the balance of trade has been increasing, except the year 2018, the deficit rose by 16 % in 2019, compared to the previous year.

The value of imports of “Fuels and lubricants” decreased in 2016 but in 2017 and 2018 it increased. In 2019, it decreased by EUR 177 million, i.e. a 2,8 % decrease in a year-on-year comparison. The total value of imports of this category amounted to EUR 6 100 million. The largest share on imports of this category was recorded in the “Primary fuels and lubricants” up to 70,2 %.

In 2019, imports of “Transport equipment” amounted to EUR 19 544 million, representing 24,7 % of total imports. “Parts and accessories of transport equipment”, whose import rose by 13,7 %, year-on-year, represented up to 82,2 % of imports in this category.

Table 101: Development of total import at country level – Slovakia 2015-2019

Category of goods	Difference 2015-2019
Live animals and animal products	41,85%
Vegetable products	13,94%
Animal or vegetable fats and oils	-24,02%
Food, beverages, and tobacco	27,13%
Mineral products	16,61%
Chemical products	14,50%
Plastics, rubber, and articles thereof	20,74%
Raw hides and skins, tanned hides and skins and their products	-12,02%
Wood products, excluding furniture	38,96%
Paper and articles thereof	6,14%
Textiles and textile articles	21,14%
Shoes, hats, umbrellas, and similar articles	5,05%
Articles of stone, plaster, cement, ceramics, glass, and other similar materials	25,34%
Pearls, precious stones, precious metals, imitation jewellery, coins	26,09%
Base metals and articles thereof	20,23%

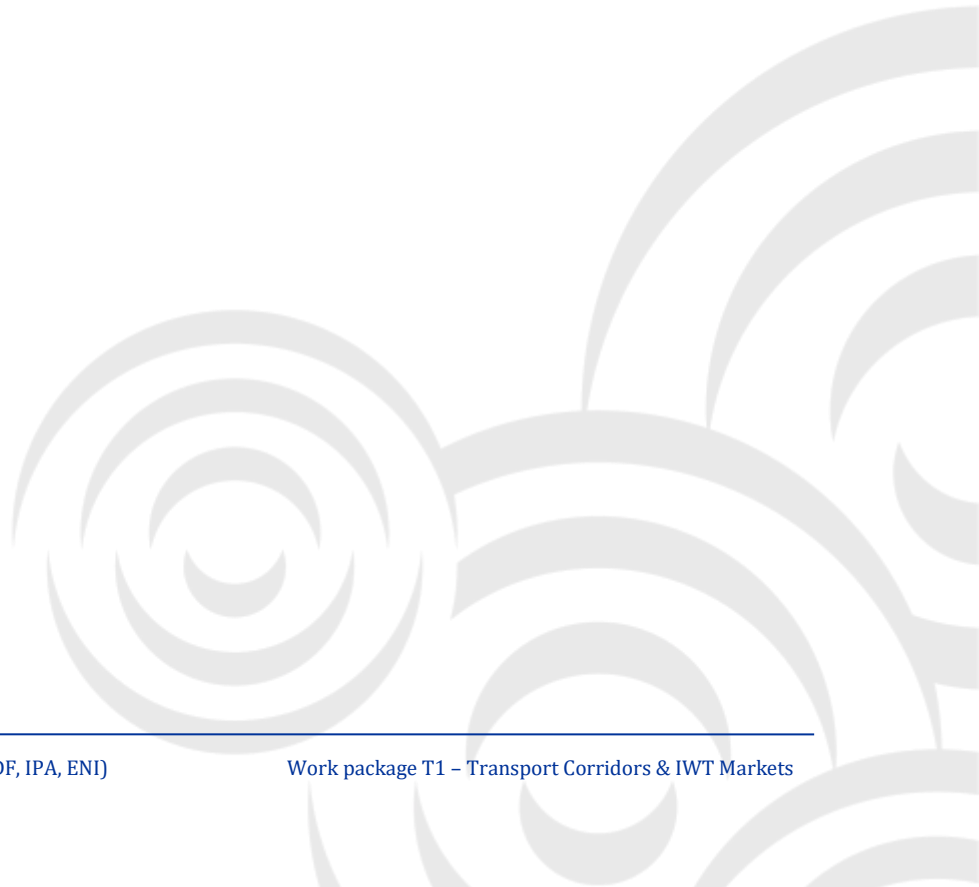
Electrical machines, apparatus, and equipment; apparatus for recording or reproducing sound and images	25,69%
Means and materials of transport	43,84%
Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	-43,89%
Guns and ammunition	1,15%
Miscellaneous goods and products	52,69%
Works of art, collectors' items, and antiques	400,00%
Other	-8,43%
Total	23,01%

The highest growth of 400% is observed for Works of art, collectors' items, and antiques. Since these articles are not suitable for water transport, for the purpose of this document Miscellaneous goods and products grew by 52,69% followed by Means and materials of transport that grew by 43,89%.

Table 102: Development of total export at country level – Slovakia 2015-2019

Category of goods	Difference 2015-2019
Live animals and animal products	1,54%
Vegetable products	0,38%
Animal or vegetable fats and oils	-59,71%
Food, beverages, and tobacco	22,88%
Mineral products	-1,25%
Chemical products	6,34%
Plastics, rubber, and articles thereof	6,03%
Raw hides and skins, tanned hides and skins and their products	-4,93%
Wood products, excluding furniture	24,14%
Paper and articles thereof	7,29%
Textiles and textile articles	12,98%
Shoes, hats, umbrellas, and similar articles	-4,83%
Articles of stone, plaster, cement, ceramics, glass, and other similar materials	26,07%
Pearls, precious stones, precious metals, imitation jewellery, coins	43,61%
Base metals and articles thereof	13,82%
Electrical machines, apparatus, and equipment; apparatus for recording or reproducing sound and images	10,76%
Means and materials of transport	41,09%
Optical, photographic, cinematographic, medical-surgical instruments and apparatus; watches; musical instruments	19,21%
Guns and ammunition	70,27%
Miscellaneous goods and products	17,76%
Works of art, collectors' items, and antiques	-21,05%
Other	53,96%
Total	18,83%

In export category, the most significant increase has been noticed in Guns and ammunition (70,27%) followed by Other category (53,96%) and Pearls, precious stones, precious metals, imitation jewellery, coins (43,61%). Products most suitable for waterway transport noticed only small increase, such as Vegetable products (0,38%), Chemical products (6,34%) and Metals (13,82%). Since significant part of country's economy is driven by automotive industry, Means and materials of transport increased by 41%.



6 Forecasts 2025, 2030 and 2040

6.1 Austria

6.1.1 Forecasts of the socio-economic parameters by country

Current Economic Data – Austria

Important Austrian economic indicators have been collected in a table for informational purposes and are updated regularly. The table contains economic development indicators (e.g. production, foreign trade, labour market, financial sector).

Table 103: Economic development indicators, Austria

	2019	2020	2021	2022
Rate of change in %				
GDP, nominal	3.2	-6.1	6.1	5.2
GDP, real	1.4	-7.3	4.5	3.5
Private consumption expenditure, real	0.8	-8.3	5.9	3.0
Gross fixed capital formation, real	4.0	-5.0	4.0	2.9
Exports, real	2.9	-11.6	5.2	7.3
Imports, real	2.4	-11.0	6.2	6.0
Employment ¹⁾	1.6	-2.0	1.3	2.0
Unemployment rate (Eurostat, in %)	4.5	5.4	5.1	4.8
Inflation (CPI)	1.5	1.4	1.5	1.6
Balance on current account (in % of GDP)	2.8	2.6	2.2	3.0
Net lending of general government (in % of GDP) ²⁾	0.7	-	-	-
Gross debt of general government (in % of GDP) ²⁾	70.5	-	-	-

1) Non self-employed without recipients of childcare benefits and without conscripts

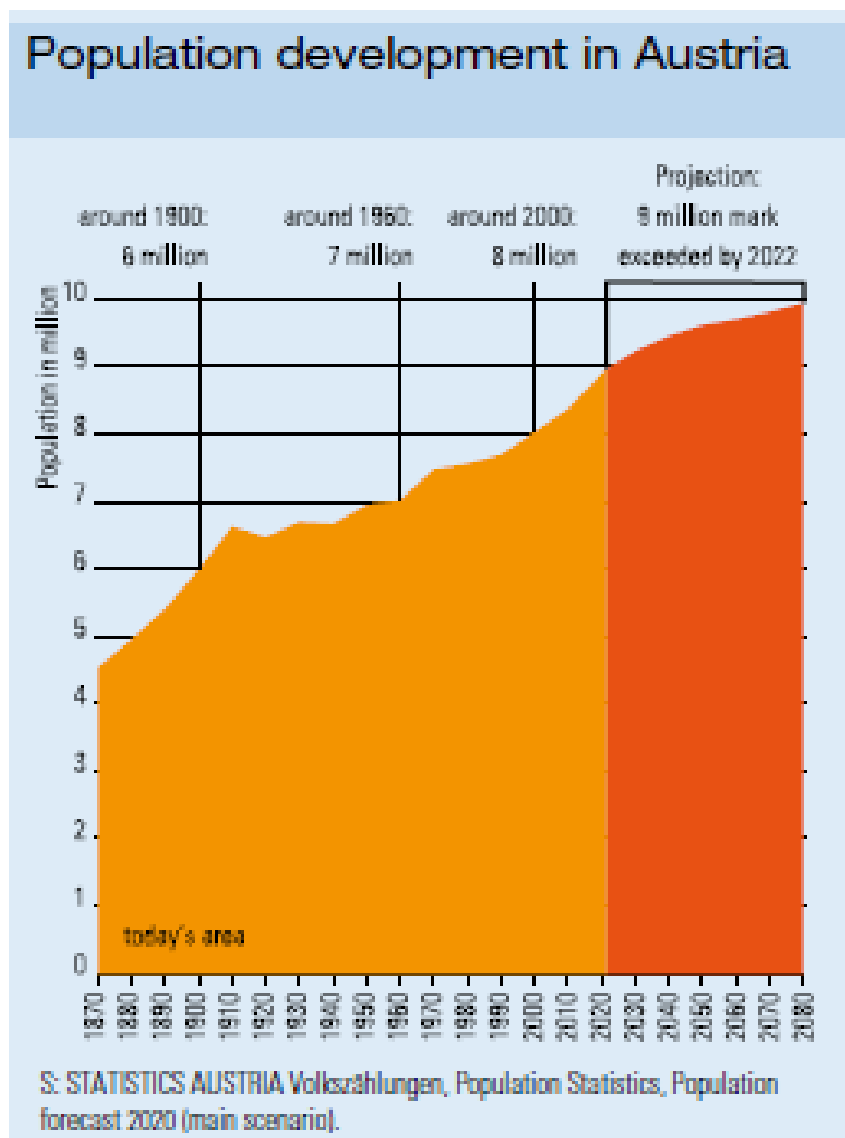
2) Federal Ministry of Finance (BMF); Statistics Austria (STAT)

(Source: bmf.gv.at/en/topics/budget-economic-policy)

Forecast on population development in Austria

According to current population projections, the figure is expected to reach 9.93 million by 2080.

Figure 137: Population development in AT 1870 - 2080



GDP FORECAST 2020 – 2022
Table 104: GDP forecast 2020 - 2022, Austria

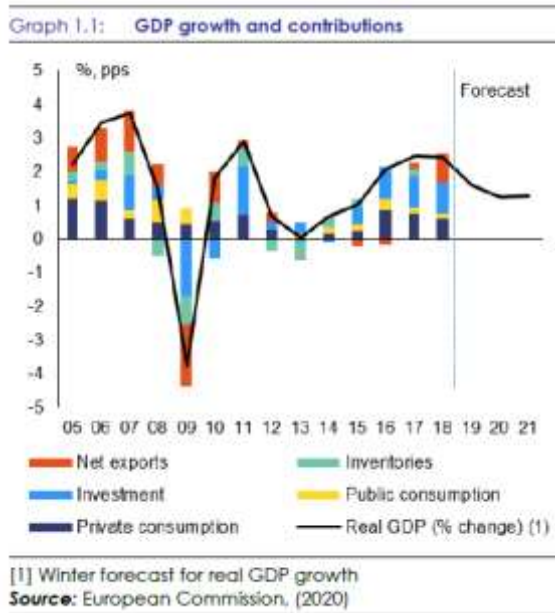
GDP	Actual	Q1	Q2	Q3	Q4	2022
GDP Growth Rate (%)	-2.70	-1.3	2.5	4.3	1.1	0.7
GDP Annual Growth Rate (%)	-5.70	-2	9.3	3.5	3.2	3.2
GDP (USD Billion)	446.31	410	435	435	435	448
GDP Constant Prices (EUR Million)	90853.05	86978	86871	92723	92455	95413
Gross National Product (EUR Million)	375.56	391	436	412	411	424
Gross Fixed Capital Formation (EUR Million)	24434.91	19679	21829	23629	23560	24314
GDP per capita (USD)	50654.70	49000	49000	49000	49000	51000
GDP per capita PPP (USD)	56352.40	56500	56500	56500	56500	57200

(Source: <https://tradingeconomics.com/austria/forecast>)

ECONOMIC SITUATION AND OUTLOOK

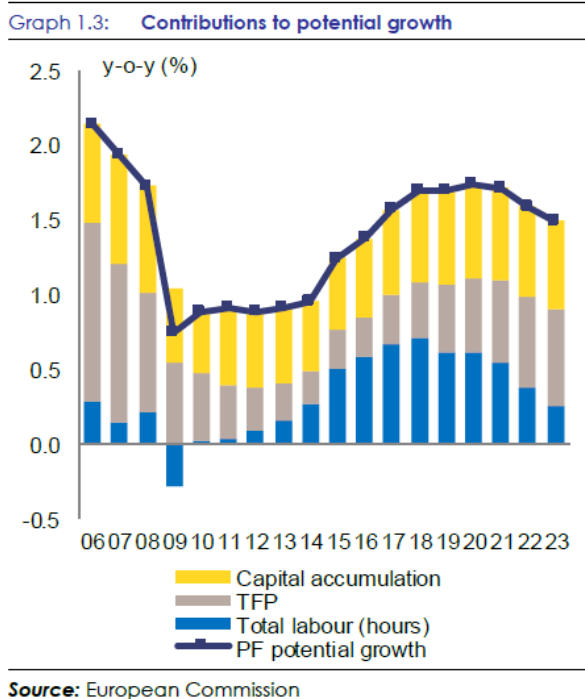
GDP growth

Figure 138: - GDP growth 2020 - 2021



Austria's strong economic growth of recent years, slowed in 2019 and is expected to remain moderate in 2020 - 2021.

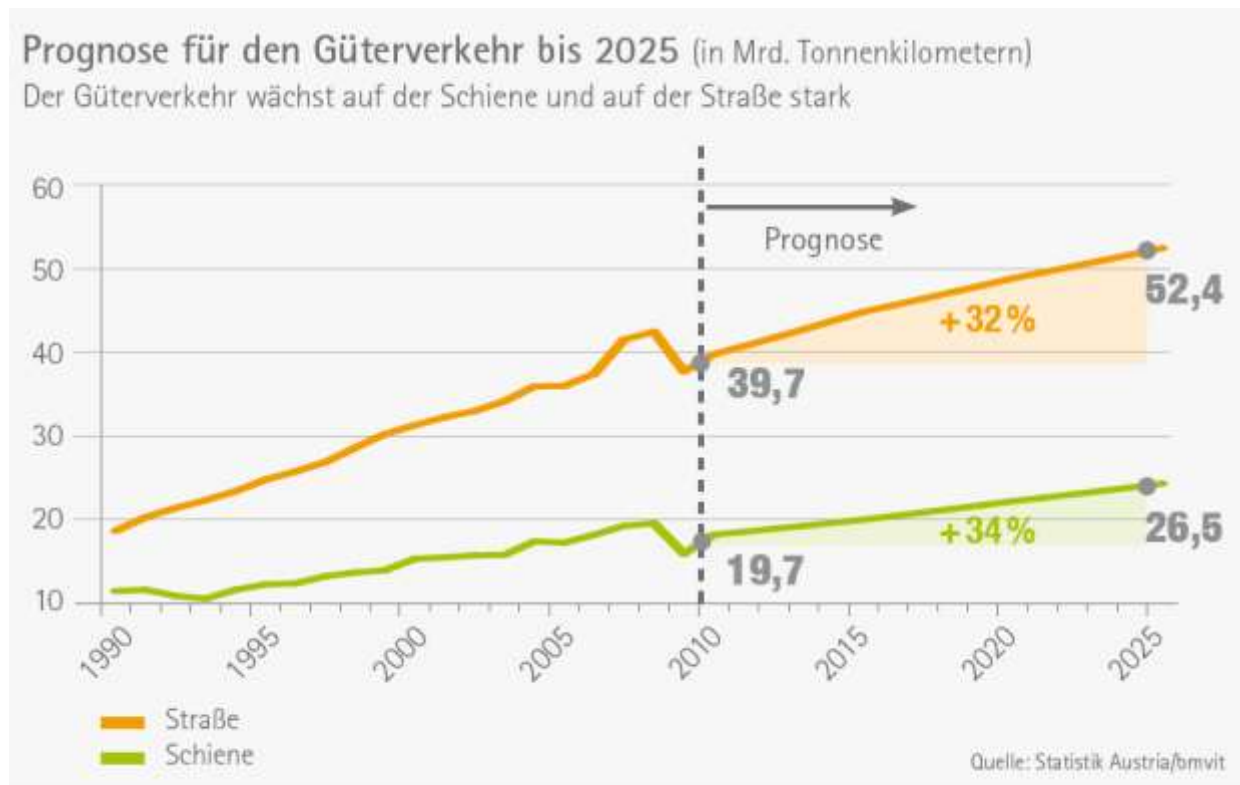
Figure 139: - Contributions to potential growth



Potential growth is set to remain below pre-crisis levels, as productivity growth remains moderate.

6.1.2 Forecasts of the trade flows by type of goods by country and NUTS 2 level

Figure 140: - Forecast trade flow in AT up to 2025

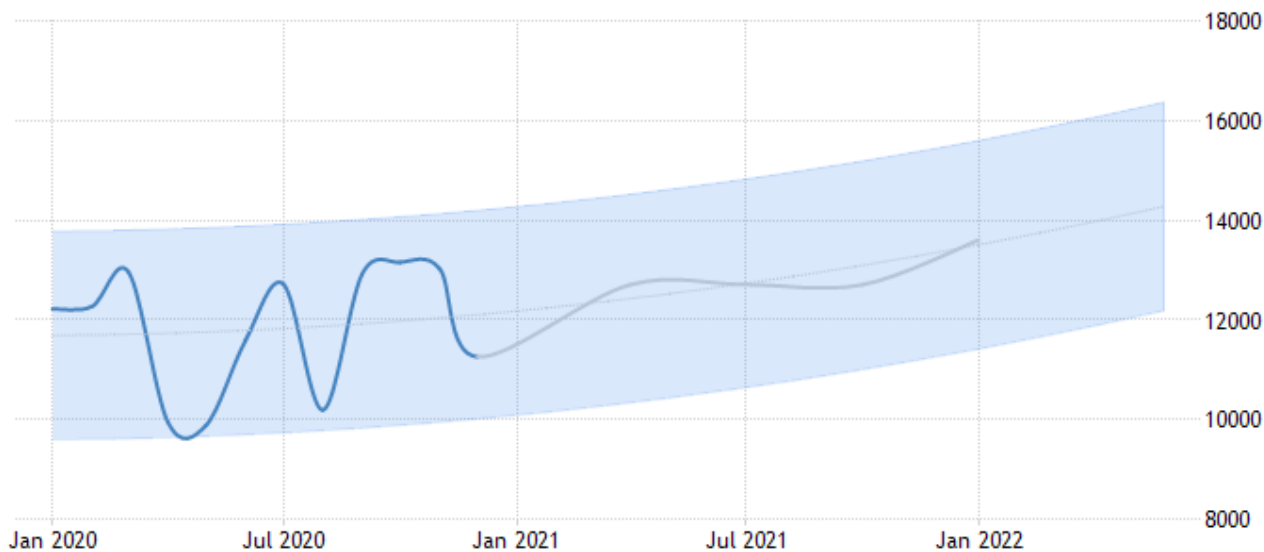


(Source: bmk.gv.at/themen/verkehrsplanung/gvp)

EXPORTS

Exports in Austria is expected to be 12700.00 EUR Million by the end of this quarter, according to Trading Economics global macro models and analysts expectations. Looking forward, we estimate Exports in Austria to stand at 13600.00 in 12 months time. In the long-term, the Austria Exports is projected to trend around 13600.00 EUR Million in 2022, according to our econometric models.

Figure 141: - Exports AT from 2020 - 2022



SOURCE: TRADINGECONOMICS.COM | STATISTICS AUSTRIA

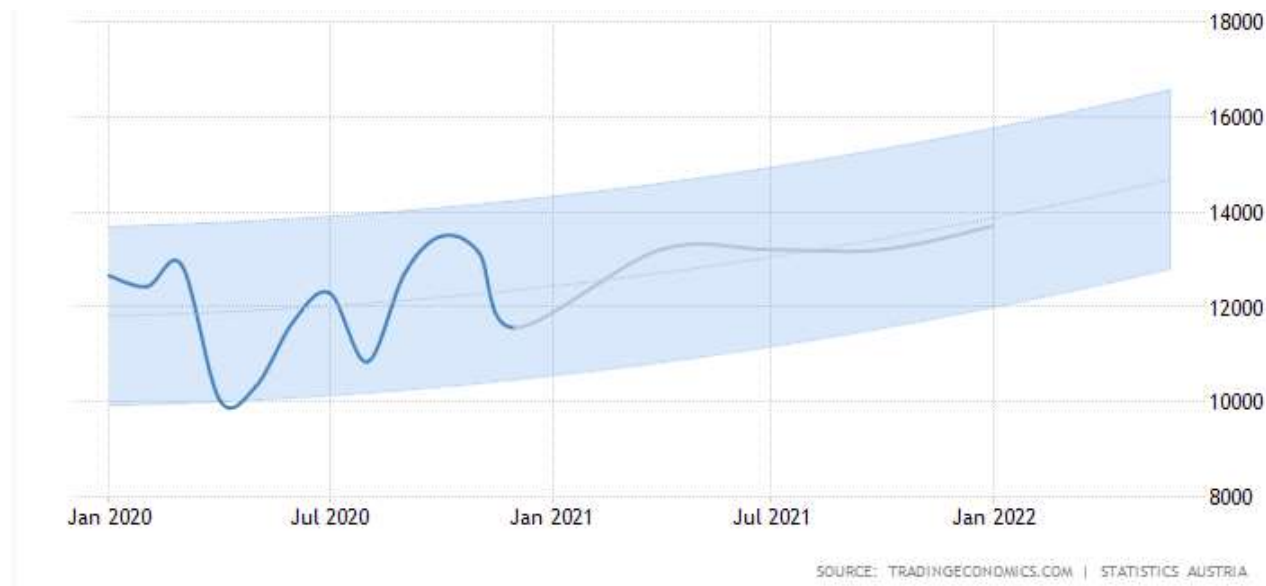
(Source: tradingeconomics.com/Austria/exports)

Austria's economy is dependent on foreign trade and closely linked to the economies of other EU countries, particularly Germany. The major export commodity in Austria is the automobile and its components, machinery and paper products. Austria's largest exports markets are European Union, United States and Switzerland.

IMPORTS

Imports in Austria is expected to be 13200.00 EUR Million by the end of this quarter, according to Trading Economics global macro models and analysts expectations. Looking forward, we estimate Imports in Austria to stand at 13700.00 in 12 months time. In the long-term, the Austria Imports is projected to trend around 13700.00 EUR Million in 2022, according to our econometric models.

Figure 142: - Imports AT from 2020 - 2022



(Source: tradingeconomics.com/Austria/imports)

Austria imports mainly machinery and equipment, motor vehicles, chemicals, metal goods, oil and oil products and foodstuffs. Its main import partners are European Union countries (Germany, Italy, Netherlands), Switzerland, China and United States.

TRADE FORECAST 2020 – 202

Table 105: Trade forecast 2020 - 2022, Austria

Trade	Actual	Q1	Q2	Q3	Q4	2022
Balance of Trade (EUR Million)	-304.00	-500	-500	-500	-100	-100
Current Account (EUR Million)	3335.00	1220	1220	1220	1220	1220
Current Account to GDP (%)	2.60	2	2	2	2	2.2
Imports (EUR Million)	11556.00	13200	13200	13200	13700	13700
Exports (EUR Million)	11252.00	12700	12700	12700	13600	13600

6.2 Bulgaria

6.2.1 Forecasts of the socio-economic parameters by country

The Bulgarian National Statistical Institute has prepared three different forecasts for the development of the population in Bulgaria, where each of the variants considers a different scenario. The forecasts are done for the country as a whole and are not further performed on NUTS 2 level.

Variation 1 is presented below. It is deemed as realistic and is compliant with the legal requirements of the EU regarding the methodology of determining the demographic and socio-economic development of member-states:

Table 106: Population forecast – realistic, Bulgaria

	2020	2025	2030	2040
Population (total number)	6 942 142	6 735 715	6 527 464	6 135 500

Table 107: Population forecast – favorable, Bulgaria

Variation 2 considers more favorable demographic and socio-economic processes in Bulgaria:

	2020	2025	2030	2040
Population (total number)	6 952 632	6 775 691	6 606 827	6 301 817

Table 108: Population forecast – unfavorable, Bulgaria

Variation 3 is the most negative forecast, considers unfavorable demographic and socio-economic processes in the country:

	2020	2025	2030	2040
Population (total number)	6 937 223	6 716 758	6 489 409	6 054 377

In the autumn of 2020, the Ministry of Finance of the Republic of Bulgaria has issued a forecast for the next three years based on the latest available data, economic trends and indicators. The table below represents the change in percentage to the respective indicator on an annual basis:

Table 109: Change in the main economic indicators, Bulgaria

Indicator	2020	2021	2022	2023
GDP (%)	-3	2.5	3	3.2
Inflation (%)	1.4	2.1	2.6	2.5
Employment (%)	-2.6	0.9	1.5	0.4

The Ministry of Regional Development and Public Works pledges in its National Development Programme “Bulgaria 2030” an increase in the Gross Domestic Product per capita on average by 15% in all six regions in the country, as well as an increase of the economically active population in the cities by 2030.

Forecasts have also been made in the National Development Programme “Bulgaria 2030”, which is a strategical document, describing the vision and common goals of the development policies. The document is based on the priorities for the socio-economic development of Bulgaria in the 2021-2030 period and were approved by a Decision of the Council of Ministers on January 20th, 2020:

Table 110: Change in basic macroeconomic indicators (simulation scenario), Bulgaria

Macroeconomic indicator	Effect in 2030 compared to 2021
GDP	33.4%
Import of good and services	4.7%
Export of goods and services	15.1%
Balance of payment, % of GDP	-8.1%
Private consumption	41.3%
Private investments	45.7%
Unemployment	-63.7%
Average monthly salary	92.4%
Inflation	16.4%
Budget balance, % of GDP	0.1%

6.2.2 Forecasts of the trade flows by type of goods by country and NUTS 2 level

The Ministry of Finance of the Republic of Bulgaria issues a macroeconomic forecast twice a year (in the spring and autumn), which assesses the possible development of the main economic indicators within the next few years. Among the reviewed indicators are the import and export of goods and services, which is presented in the table below.

This forecast is from the autumn of 2020 and is only done on a national level, not on a NUTS 2 level. It shows the change in percentages compared to the previous year.

Table 111: Import/export forecasts, Bulgaria

	2020	2021	2022	2023
Imports	-10.4	5	6.4	6.7
Exports	-10.2	7.2	7.1	5.3

The data shows that the Ministry of Finance expects a quick recovery of the trade flows in the next few years, following the difficult 2020.

The Integrated Transport Strategy for the period until 2030, drafted by the Ministry of Transport, Information Technology and Communications of the Republic of Bulgaria in 2017, makes forecasts about the volume of freight turnover transported by sea and river. More specifically, the forecast is about the turnover of containers and packaged loads that can be carried by containers. The data is divided by types of freight and by ports. The four main ports, which the freight goes through when it arrives or departs from Bulgaria are:

- **Lom/Vidin** (river port, situated in the North West region)
- **Ruse** (river port, situated in the North Central region)
- **Varna** (sea port, situated in the North East region)
- **Burgas** (sea port, situated in the South East region)

The relevant data is presented in the tables below:

Table 112: Export of bulk cereals (in tonnes), Bulgaria

Port	Year	2027	2034
Burgas		1 860 288	2 232 648
Varna		5 184 371	5 660 605
Ruse		516 133	578 306
Lom/Vidin		409 684	459 034

Total	7 970 476	8 930 593
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Table 113: Import of coals (in tonnes) ¹³, Bulgaria

Year	2027	2034
Port		
Burgas	72 850	16 541
Varna	1 341 939	916 506
Ruse	394 386	269 354
Lom/Vidin	332 120	226 828
Total	2 141 295	1 429 229

Table 114: Freight turnover of other bulk commodities (cement, fertilisers, chemicals and inert materials), Bulgaria

Year	2027	2034
Port		
Burgas	170 190	193 511
Varna	3 711 356	4 219 920
Ruse	606 117	689 172
Lom/Vidin	91 342	103 858
Total	4 579 004	5 206 461

¹³ There is no data on the export of coals, because the coals mined in local deposits are used on the domestic market.

Table 115: Freight turnover of metals (in tonnes) ¹⁴, Bulgaria

Year	2027	2034
Port		
Burgas	1 569 400	1 850 016
Varna	89 479	106 299
Ruse	56 818	67 000
Lom/Vidin	N/A	N/A
Total	1 715 697	2 023 315

Table 116: Import of machinery (in tonnes), Bulgaria

Year	2027	2034
Port		
Burgas	879 287	1 004 528
Varna	N/A	N/A
Ruse	435 151	497 133
Lom/Vidin	N/A	N/A
Total	1 314 438	1 501 661

Table 117: Liquid fuels handled at the Bulgarian ports (in tonnes), Bulgaria

Year	2027	2034
Port		
Burgas	13 469 512	13 830 915
Varna	483 944	496 929
Ruse		
Lom/Vidin		
Total	13 953 456	14 327 844

¹⁴ The data for the Port of Ruse is only for imports, while the data for the Port of Varna is only for exports.

According to World Trade Organisation’s (WTO) latest available data, Bulgaria has experienced a considerable growth in trade in the revised period, despite a large trade imbalance and recurring deficits. The country is very open to foreign trade, which represented 123.7% of GDP in 2019 (World Bank). In 2019, Bulgaria was the world’s biggest exporter of Iron Pyrites (\$28.6M) The top imports of Bulgaria are Crude Petroleum (\$2.98B), Copper Ore (\$1.97B), Cars (\$1.31B), Packaged Medicaments (\$1.21B), and Refined Petroleum (\$830M), importing mostly from Germany (\$4.21B), Russia (\$3.26B), Italy (\$2.78B), Romania (\$2.63B), and Turkey (\$2.6B):

Table 118: Estimation of Foreign Trade Indicators, Bulgaria

Foreign Trade Indicators	2015	2016	2017	2018	2019
Foreign Trade (in % of GDP)	127.0	123.2	130.3	129.1	123.7
Trade Balance (million USD)	-2,900	-1,086	-858	-2,199	-1,888
Trade Balance (Including Service) (million USD)	530	2,711	2,649	1,955	2,318
Imports of Goods and Services (Annual % Change)	4.8	5.2	7.4	5.7	2.4
Exports of Goods and Services (Annual % Change)	6.4	8.6	5.8	1.7	1.9
Imports of Goods and Services (in % of GDP)	63.0	59.1	63.0	63.3	60.1
Exports of Goods and Services (in % of GDP)	64.0	64.1	67.3	65.9	63.6

Source: World Bank

Table 119: Foreign Trade Forecasts, Bulgaria

<i>Foreign Trade Forecasts</i>	<i>2020</i>	<i>2021 (e)</i>	<i>2022 (e)</i>	<i>2023 (e)</i>	<i>2024 (e)</i>
<i>Volume of exports of goods and services (Annual % change)</i>	<i>-12.1</i>	<i>12.5</i>	<i>5.9</i>	<i>4.2</i>	<i>4.2</i>
<i>Volume of imports of goods and services (Annual % change)</i>	<i>-10.0</i>	<i>12.3</i>	<i>5.7</i>	<i>6.8</i>	<i>3.7</i>

Source: IMF, World Economic Outlook

6.3 Hungary

6.3.1 Forecasts of the socio-economic parameters by country

GDP

Table 120: GDP value forecast based on OECD estimate, Hungary (USD million, 2021-2030)

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
285 050	291 647	298 664	305 932	313 338	320 755	328 086	335 258	342 227	348 972

Source: <https://data.oecd.org/gdp/real-gdp-long-term-forecast.htm#indicator-chart>

The table shows that nominal GDP is expected to increase; It will increase by 22.42% in 10 years, i.e. by 1-3% per year compared to the value of 2021.

Table 121: GDP forecast based on OECD estimates, Hungary (USD million, 2031-2040)

2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
355 489	361 734	367 687	373 331	378 670	383 755	388 669	393 493	398 293	40 3123

Source: <https://data.oecd.org/gdp/real-gdp-long-term-forecast.htm#indicator-chart>

The table shows that nominal GDP will continue to grow in the 2030s, although the pace of expansion will decline; By 2040, it will increase by 13%, or 1-2% per year, compared to the value of 2031.

Population

The table below shows the expected development of the population in Hungary in 2020, 2030 and 2040, according to the estimates of the CSO(KSH).

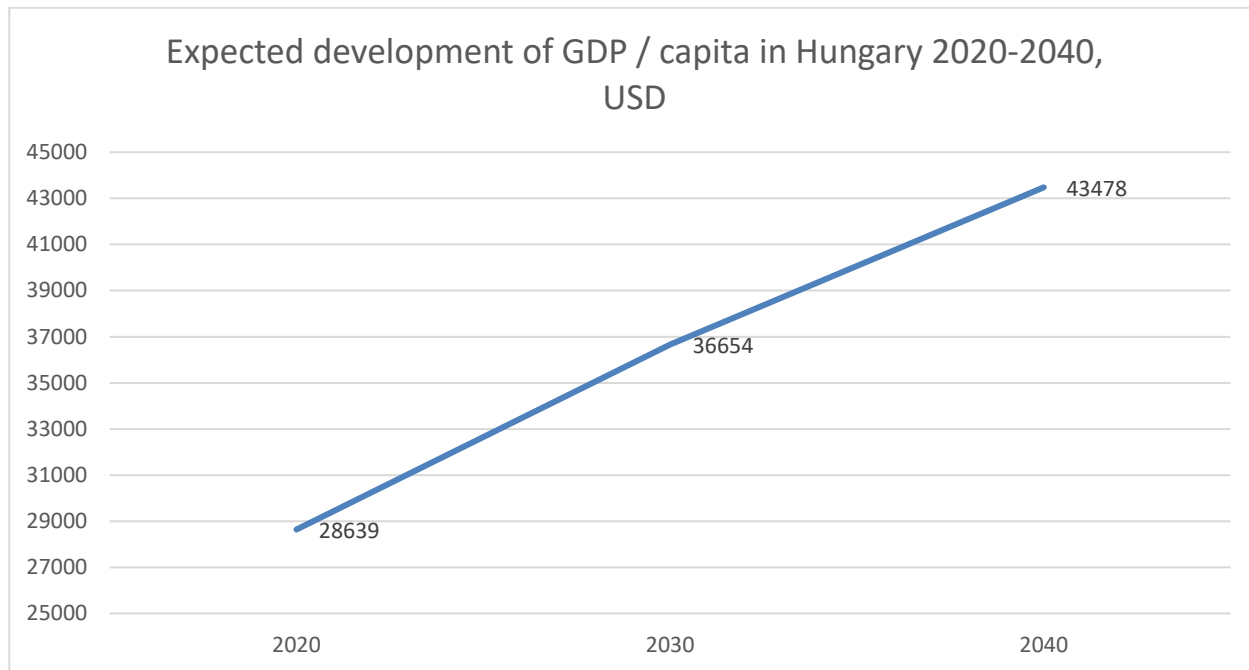
Table 122: Population forecast in Hungary in 2020, 2030 and 2040, according to the estimates of the CSO(KSH)

2020	2030	2040	Growth 2040-2020
9 739 030	9 520 613	9 271 789	-4,79%

Source: https://www.ksh.hu/docs/hun/eurostat_tablak/tab/tps00002.html

The table shows that the population is expected to decline further; It will decline by 2.24% by 2030 and by 4.79% by 2040 compared to 2020.

Figure 143: Expected development of GDP / capita in Hungary 2020-2040, USD



Source: <https://data.oecd.org/gdp/real-gdp-long-term-forecast.htm#indicator-chart>

Source: https://www.ksh.hu/docs/hun/eurostat_tablak/tabla/tps00002.html

The figure shows that based on the OECD GDP estimate and the CSO(KSH) population estimate, GDP / capita will increase in the future; by the end of the 2020s compared to the beginning of the decade approx. 28%, by the end of the 2030s compared to the beginning of the decade, approx. 19%.

Table 123: GDP forecast by NUTS3 regions, 2040 and 2060, Hungary
GDP values at the NUTS 3 level in 2015 and projections in percentage of the 2015 value

NUTS 3 region/Country	2015* (million HUF)	Variant 1			Variant 2			Variant 3		
		2020	2040	2060	2020	2040	2060	2020	2040	2060
Budapest	8,917,983	104.8	150.3	191.2	107.2	155.1	194.7	107.2	155.0	197.2
Pest	2,532,863	101.2	145.1	184.5	112.7	211.9	345.6	112.7	193.9	249.2
Fejér	1,073,232	97.8	140.3	178.4	96.0	122.5	135.4	96.0	127.8	161.8
Komárom-Esztergom	762,490	104.1	149.3	189.9	105.0	183.8	279.0	105.0	172.1	220.6
Veszprém	633,595	107.8	154.6	196.7	102.4	112.5	107.2	102.4	123.5	155.3
Győr-Moson-Sopron	1,485,422	91.5	131.2	166.9	97.2	158.0	222.5	97.2	151.8	194.0
Vas	612,623	103.1	147.8	188.0	96.7	118.2	125.3	96.7	125.1	158.0
Zala	552,951	109.9	157.6	200.4	101.2	119.5	122.2	101.2	127.9	161.4
Baranya	583,911	117.8	168.9	214.8	113.2	128.0	125.4	113.2	139.1	175.2
Somogy	471,820	112.3	161.1	204.9	104.6	125.0	129.4	104.6	133.3	168.2
Tolna	410,210	107.6	154.4	196.3	97.4	110.0	107.8	97.4	119.6	150.6
Borsod-Abaúj-Zemplén	1,175,681	99.3	142.4	181.1	103.2	150.5	190.2	103.2	150.0	190.8
Heves	532,635	105.6	151.5	192.7	102.8	137.6	159.8	102.8	141.2	179.0
Nógrád	210,188	121.0	173.5	220.6	114.3	112.7	96.4	114.3	128.4	160.9
Hajdú-Bihar	962,633	106.2	152.3	193.6	111.7	151.3	177.7	111.7	154.7	196.2
Jász-Nagykun-Szolnok	602,732	108.9	156.2	198.6	104.3	132.9	146.8	104.3	138.7	175.5
Szabolcs-Szatmár-Bereg	781,418	104.6	150.0	190.8	118.6	151.6	168.0	118.6	158.3	200.4
Bács-Kiskun	982,475	96.5	138.5	176.1	99.2	144.6	182.8	99.2	144.1	183.4
Békés	517,072	110.8	158.9	202.1	105.8	109.5	98.3	105.8	122.7	154.0
Csongrád	766,575	105.5	151.3	192.4	102.3	121.8	125.7	102.3	130.1	164.2
Hungary	24,568,509	105.7	151.6	192.8	105.7	151.6	192.8	105.7	151.6	192.8

 Source: <https://core.ac.uk/download/pdf/286427836.pdf>

6.3.2 Forecasts of the trade flows by type of goods by country and NUTS 2 level

Forecasting foreign trade indicators can only be based on sporadic estimates.

However, the table below shows the government's estimate for the period 2020-2024 (annual change, percentage).

Table 124: Imports and exports forecast, annual change, %, 2020 – 2014, Hungary

	2020	2021	2022	2023	2024
Exports of goods and services	-9,6	7,0	7,4	6,4	7,0
Imports of goods and services	-6,2	4,4	7,1	5,8	6,7

Source:

<https://cdn.kormany.hu/uploads/document/d/dc/dc2/dc2bd13d9db38740b471a0ee5759957d6fc56f08.pdf>

The table below shows the estimated change in the volume of exports and imports in millions of euros, which is based on the CSO's data on import / export value in 2019 and the forecast of the Ministry shown above.

Table 125: Change in the volume of exports and imports in millions of euros, which is based on the CSO's data on import / export value in 2019

	2020	2021	2022	2023	2024
Export value (million euros)	98621,52	105525,02	113333,88	120587,24	129028,35
Import value (million euros)	98265,82	102589,51	110488,91	116897,26	124729,38

Source: Own calculation based on CSO and Ministry data

In connection with the development of foreign trade by commodity groups, the document National Export Strategy 2019-2030 states the following:

- The health economy, the food economy (including agricultural technologies), the construction economy, water management, the creative industries and the digitalisation that embraces them as a horizontal trend, and its technological solutions, are the focus of the government's export recovery.
- have particularly high export potential: medical diagnostic tools and equipment, traumatology implants, traumatology and radiology products, biotechnology and pharmaceuticals, seeds, agricultural machinery, agro-informatics, meat and poultry industry, fruit and vegetable preservation, engineering services and innovative construction solutions, design and fashion activity.

Source: <https://20152019.kormany.hu/download/e/ca/91000/Nemzeti%20Export%20Strat%C3%A9gia%202019-2030.pdf#!DocumentBrowse>

6.4 Romania

6.4.1 Forecasts of the socio-economic parameters by country

GDP forecasts are available in Romania from the National Forecasting Commission for 4 years time horizon. Currently, the forecast is available at the country level, as follows:

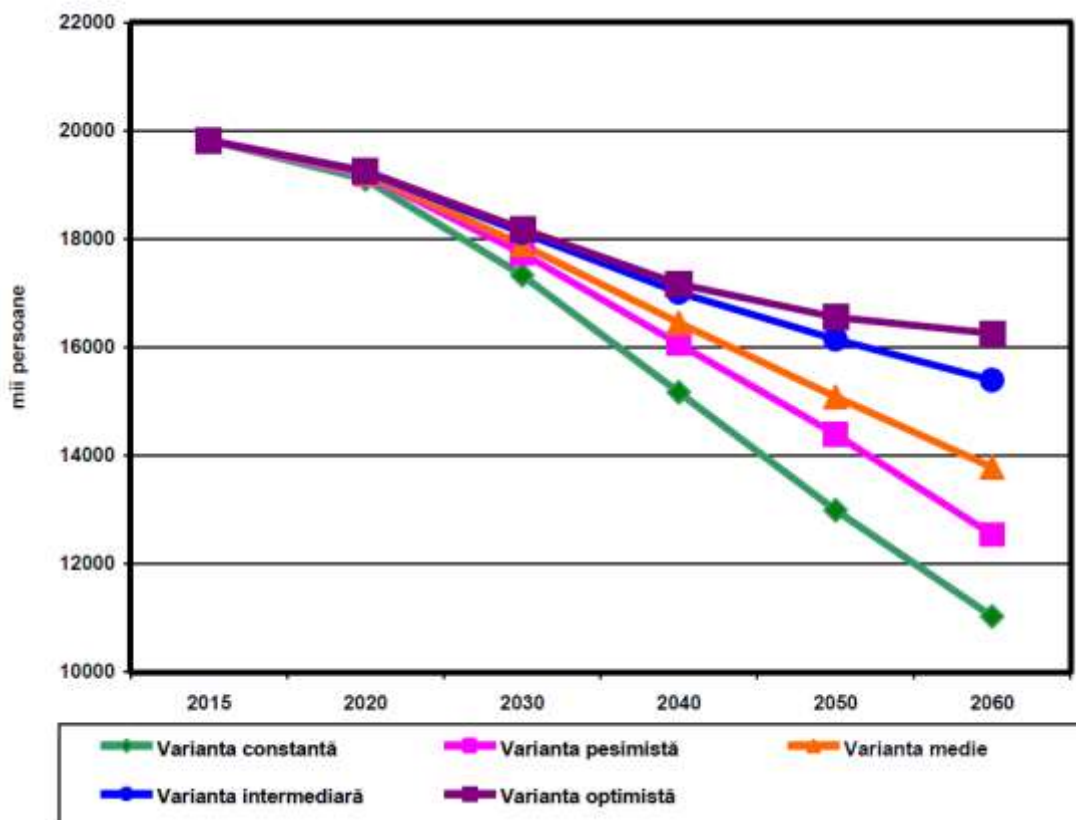
Table 126: GDP forecast 2019 – 2024, National Forecasting Commission, Romania

	2019	2020	2021	2022	2023	2024
GDP	4.1	-4.4	4.3	4.7	5.0	4.9
Industry						
Production	-1.4	-9.1	5.6	4.3	4.6	4.4
GVA - brutto	-1.5	-8.7	5.7	4.4	4.7	4.5
Agriculture, forestry, fishing						
Production	-2.2	-22.3	14.7	6.6	2.9	2.6
GVA – brutto	-3.2	-21.9	14.8	6.7	3.0	2.7
Construction						
Production	21.2	10.2	5.8	8.4	9.0	8.7
GVA – brutto	17.3	10.6	5.9	8.6	9.1	8.8
Total services						
Production	6.4	-3.0	3.2	4.4	4.8	4.9
GVA – brutto	4.8	-2.3	3.0	4.3	4.7	4.8
Total economy						
Production	4.5	-4.6	4.6	4.9	5.1	5.1
GVA - brutto	3.6	-3.9	4.3	4.7	5.0	4.9

Population forecast

Following the NSI – National Statistics Institute, population of Romania would follow the trend shown below.

Figure 144: Expected development of population in Romania, NSI



As shown also in the table below.

Table 127: Population forecast, 2015 – 2060, National Statistics Institute, Romania

Tabel 3.1 Populația rezidentă a României înregistrată în anul 2015 și proiectată pentru anii 2030 și 2060, în variantele de proiectare selectate

Variante de proiectare	Populația rezidentă (mii persoane)			Diferențe între anii 2060 și 2015	
	2015	2030	2060	mii persoane	%
	Total				
Varianta constantă	19819,7	17326,2	11032,5	-8787,2	-44,3
Varianta pesimistă	19819,7	17733,3	12539,9	-7279,8	-36,7
Varianta medie	19819,7	17892,5	13784,4	-6035,3	-30,5
Varianta intermediară	19819,7	18117,7	15390,6	-4429,1	-22,3
Varianta optimistă	19819,7	18180,8	16259,5	-3560,2	-18,0
Masculin					
Varianta constantă	9680,5	8466,7	5298,3	-4382,2	-45,3
Varianta pesimistă	9680,5	8627,1	6058,4	-3622,1	-37,4
Varianta medie	9680,5	8717,3	6641,8	-3038,7	-31,4
Varianta intermediară	9680,5	8831,3	7452,0	-2228,5	-23,0
Varianta optimistă	9680,5	8863,0	7879,1	-1801,4	-18,6
Feminin					
Varianta constantă	10139,2	8859,5	5734,2	-4405,0	-43,4
Varianta pesimistă	10139,2	9106,2	6481,5	-3657,7	-36,1
Varianta medie	10139,2	9175,2	7142,6	-2996,6	-29,6
Varianta intermediară	10139,2	9286,4	7938,6	-2200,6	-21,7
Varianta optimistă	10139,2	9317,8	8380,4	-1758,8	-17,3

It is observed that in the optimistic scenario it is foreseen that population will decrease with 18% in the period 2015 – 2060.

6.4.2 Forecasts of the trade flows by type of goods by country and NUTS 2 level

Data is provided from the National Transport Model of Romania. In the following table are provided the estimated growth factors for time horizons 2030 and 2040, starting from 2020 as the base year.

Table 128: Trade estimated growth factors for time horizons 2030 and 2040, NTM – National Transport Model, Romania

Category of goods	Growth 2030 - 2020	Growth 2040 - 2020
Agricultural Products	26.77%	45.40%
Foodstuffs	11.79%	18.19%
Solid Mineral Fuels	19.02%	54.26%
Crude Oil	54.51%	138.31%
Ores, Metal Waste	48.87%	121.01%
Metal Products	52.87%	115.98%

Building Minerals & Materials	42.85%	121.43%
Fertilizers	32.91%	71.56%
Chemicals	53.28%	117.70%
Machinery & Heavy Manufacturing	51.49%	114.78%
Petroleum Products	60.43%	151.62%
Mail & Parcels	38.69%	78.32%
Manufactured Goods	51.38%	113.54%
Domestic & Industrial Waste	51.66%	114.68%
Forestry Products	15.44%	20.70%
Livestock	11.36%	17.96%
All goods	39.54%	96.03%

6.5 Serbia

6.5.1 Forecasts of the socio-economic parameters by country

Table 7 shows the International Monetary Fund's projections of the growth rate of real gross domestic product, the growth rate of volume of imports of goods (excluding services) and the growth rate of volume of exports of goods (excluding services), which were made in October 2020.

Table 129: Projections of macroeconomic indicators for the period 2020-2025, Serbia

Country	Indicator	2020	2021	2022	2023	2024	2025
Serbia	Growth rate of GDP in real terms, in %	-2.468	5.478	6.035	4.508	4.027	4.017
	Growth rate of volume of imports, in %	-5.055	12.445	10.445	7.045	7.245	7.245
	Growth rate of volume of exports, in %	-6.301	7.699	11.699	8.699	9.999	8.799

Source: International Monetary Fund, World Economic Outlook Database, October 2020

Percent change of volume of import and export of goods and services for the period 2020-2025 is given in the following table.

Table 130: Projections of trade for the period 2020-2025, Serbia

Country	Indicator	2020	2021	2022	2023	2024	2025
Serbia	Volume of imports of goods and services, in % change	-5.735	11.167	10.088	7.151	7.342	7.261
	Volume of Imports of goods, in % change	-5.055	12.445	10.445	7.045	7.245	7.245
	Volume of exports of goods and services, in % change	-8.595	8.344	11.215	9.065	9.431	8.715
	Volume of exports of goods, in % change	-6.301	7.699	11.699	8.699	9.999	8.799

Source: International Monetary Fund, World Economic Outlook Database, October 2020

6.5.2 Forecasts of the trade flows by type of goods by country and NUTS 2 level

N/A

6.6 Slovakia

6.6.1 Forecasts of the socio-economic parameters by country

GDP forecast by 2024

Slovakia's GDP was expected to fall by 5.8% in 2020. The economic downturn is milder than originally expected. The update of the forecast incorporated the better development of our economy and our business partners from the third quarter. Slovak exports restarted significantly faster, especially thanks to car manufacturers. At the same time, the impact of the second wave of the pandemic in the fourth quarter was incorporated. Economic indicators from the fourth quarter indicate that this impact was much more subdued than in the spring wave. Unemployment rose even slightly, but wage developments were more favourable.

In 2021, GDP growth is expected to reach 4.3%. The second wave of the pandemic will slow the pace of recovery this year. The update of the forecast assumes that although the second wave has less of an impact on the economy, it will last longer. The forecast for the growth of the Slovak economy in 2021 is based on the assumption that restrictions related to the pandemic will remain at the current level during the first quarter and then gradually ease to the level of September 2020 until the third quarter. partners, foreign demand will be weaker for most of the year. On the contrary, growth will be helped by the release of the billion-dollar COVID reserve to help the economy and, in the second half of the year, the start of drawing on the Recovery and Resilience Plan. Overall, the dynamics of the economy will be weaker, especially in the first quarter, so the restart of job creation is postponed until the end of the year. The result will be a slight decrease in employment in 2021 by 0.2%.

The economy will gain momentum from 2022, mainly thanks to EU funds. The update of the forecast envisages the drawing of funds under the EU Recovery and Resilience Plan in the amount of 5.8 billion euro. They will support the economy until 2026. At the same time, by 2023, the drawing of funds from the current programming period of EU funds will peak. EU resources thus compensate for the consolidation of public finances at the level of 1 pp. since 2022.

Table 131: Macroeconomic forecast for 2020 - 2024 Slovakia

Indicator / Year	2020	2021	2022	2023	2024
GDP, s.c.	-5,8	4,3	3,9	2,5	0,7
GDP, b.c. (mld. €)	90,7	95,8	101,5	106,4	109,6

GDP forecast by 2030 and 2040

Slovak national authorities do not offer such long-term forecasts. Following data are from OECD-iLibrary.

Trend gross domestic product (GDP), including long-term baseline projections (up to 2060), in real terms. Forecast is based on an assessment of the economic climate in individual countries and the world economy, using a combination of model-based analyses and expert judgement. This indicator is measured in USD at constant prices and Purchasing Power Parities (PPPs) of 2010. These forecasts, however, do not consider current outbreak of COVID-19 pandemic that most certainly will have negative impact on economic performance of not only Slovakia but the whole global economy in general. On the other hand, significant economical impulse is expected with Resilience Plan. For

above-mentioned reasons, the longer reference period is, the more noticeable discrepancies may occur.

Figure 145: GDP forecast 2024-2030 Slovakia in USD

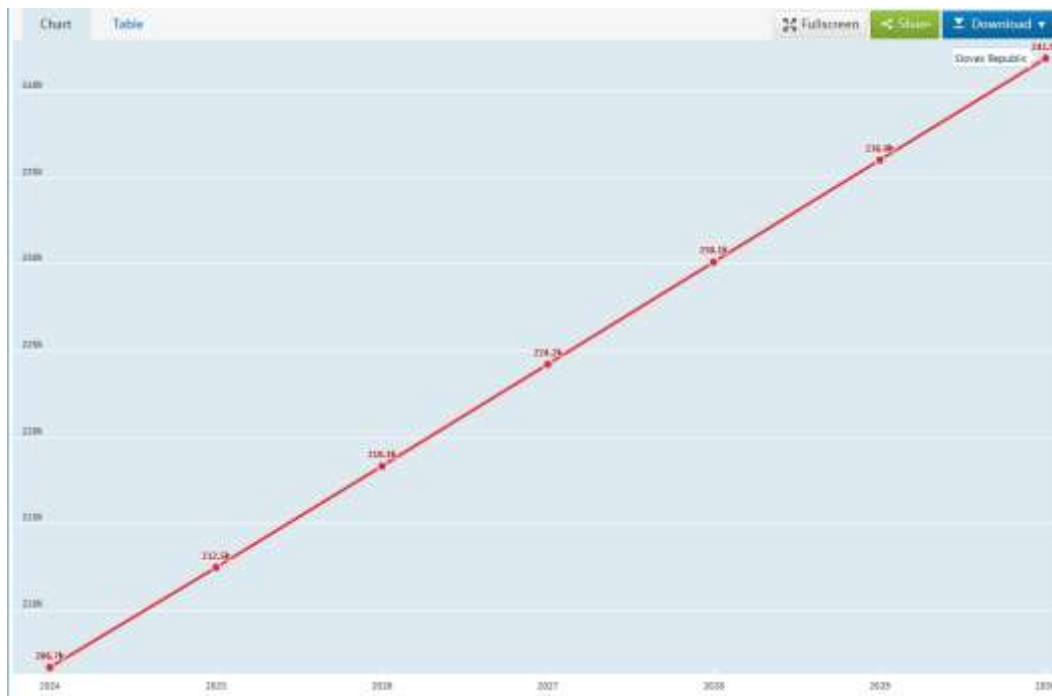
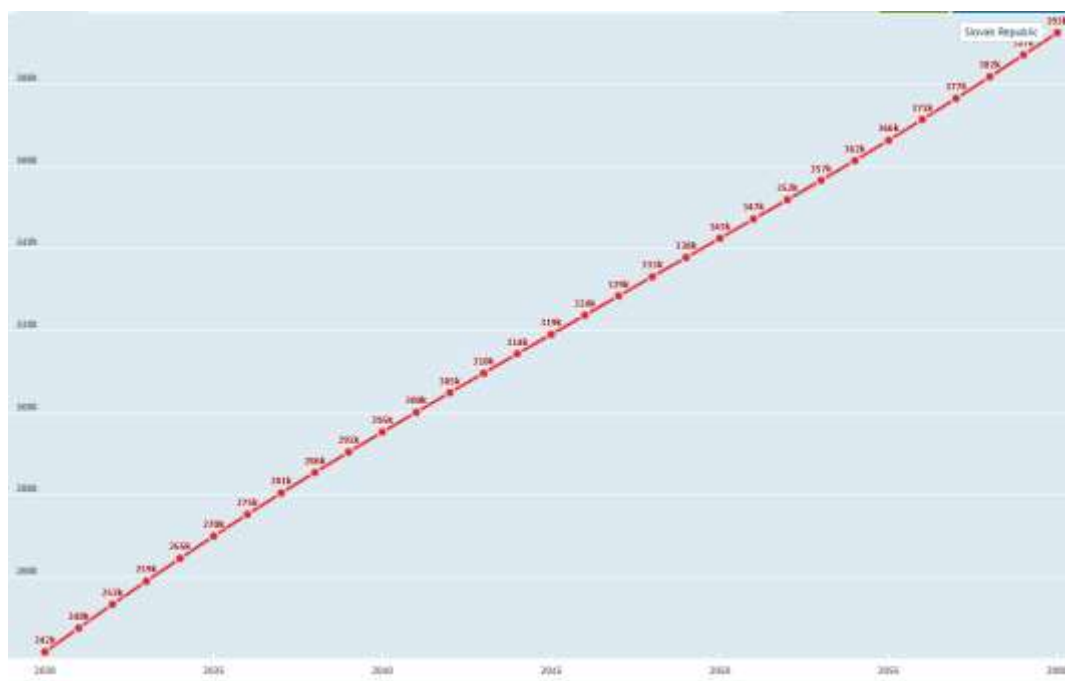


Figure 146: GDP forecast 2030-2060 Slovakia in USD



According to OECD iLibrary, GDP in Slovakia should reach level of 241,9 bil. USD. And by 2060 it should reach level of 392,6 bil USD.¹⁵

Population forecast by 2024

Until 2025, the population of the Slovak Republic will not fundamentally change. If we evaluate the forecast period as one time period, the population will increase by approximately 120 thousand people (2.25%), while in the first two thirds of the forecast period, the increase will be faster, but not particularly sharp. The population should reach its highest value just before the end of the forecast period. From about 2025, the population of the Slovak Republic should start to decrease, while the reduction will be long-term and will have an accelerating tendency.

A more important demographic characteristic than the population is the level of population aging. It is well described by the average age of the population (weighted arithmetic average according to the number of inhabitants in individual ages) and the aging index (ratio of the population aged 65 and over per 100 inhabitants aged 0-14). Both

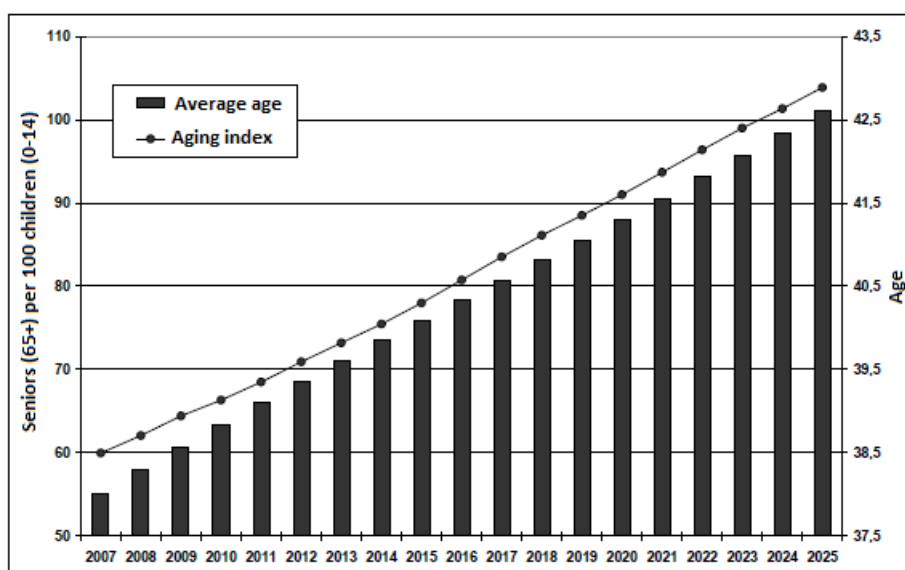
the indicators clearly document the trend of intensive aging of the Slovak population. The average age of the population will already exceed 40 years in 2015 and will approach 43 years in the forecast horizon. For the period 2007 - 2025, the average age of the population will increase by 4.6 years (12.1%). The aging index is likely to exceed

before 2025, a threshold of 100. This means that, for the first time in history, the post-productive age population will be higher than the pre-productive age population. In 2025, the male aging index will reach 102, for women it will be more than 150 women in the post-productive age per 100 women in the pre-productive age. The share of the oldest people over the age of 80 will increase by more than one percentage point to 3.7% by 2025. Population aging in Slovakia will be one of the most intensive in the entire European Union.¹⁶

¹⁵ https://www.oecd-ilibrary.org/economics/real-gdp-long-term-forecast/indicator/english_d927bc18-en

¹⁶ FORECAST OF THE DEVELOPMENT OF THE POPULATION OF THE SR UNTIL 2025, INSTITUTE OF INFORMATICS AND STATISTICS (2007)

Figure 147: Aging of population 2007-2025

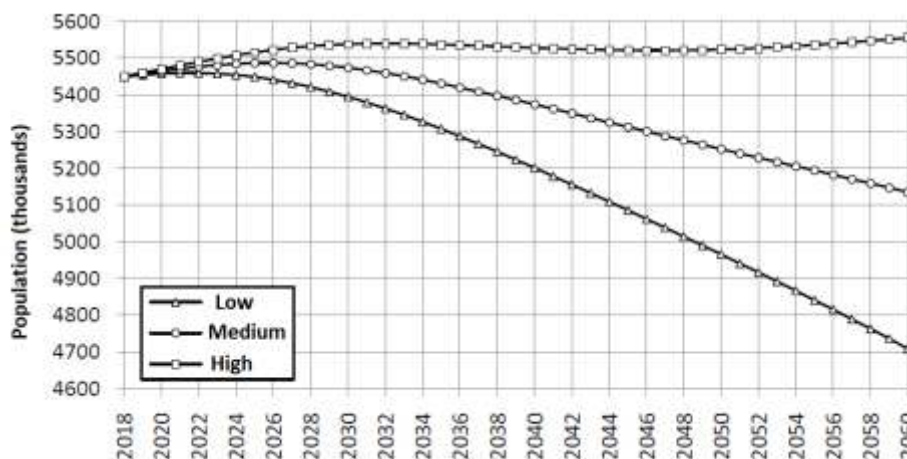


Population forecast by 2060

The most probable development of the population until 2060 will be a decrease, which should be preceded by a short period of stagnation lasting until about 2030. According to the most probable scenario, the population in Slovakia will decrease in the period 2017 - 2060 by 308.3 thousand persons, or 5.7%, while the real reduction of the population should begin only at the end of the 20s, i.e. not earlier than 10 years. This should be a relatively evenly declining trend, with the average annual population decline hovering close to 0.2%. A real possibility for the future development of the population in Slovakia is also a significant decline, which could occur mainly because of low migration growth. This development reflects a low forecasting scenario. The population reduction would start earlier than in the case of the medium scenario. The period of stagnation of the population would last only until 2022. For the entire forecast period 2017 - 2060, the population of the Slovak Republic would decrease by approximately 734 thousand persons, resp. 13.5%, while population decline would gradually accelerate. With such a development, the Slovak Republic would lose an average of 0.3% to 0.5% of the population per year over the next four decades. In 2060, the population of the Slovak Republic should be in the range of 4709 thousand to 5556 ths. persons. Most likely it should reach the value of 5135 thousand persons. The reason for such a very wide interval of possible development of the population is mainly the development of migration, which from today's point of view is marked by a high degree of uncertainty. Significantly lower level of uncertainty (but still significant) is brought to the future development of the population by the development of fertility.¹⁷

¹⁷ Forecast of the population of Slovakia until 2060, INFOSTAT - INSTITUTE OF INFORMATICS AND STATISTICS (2018)

Figure 148: Forecast of the development of the population of Slovakia until 2060



Gross Value Added

Slovakia is a country of high exports. The significant degree of export performance and openness of Slovakia is the result of its participation in global and especially regional value chains. The value of exports of goods and services from the country reached in 2018 up to 97.3% of the value of gross domestic product (GDP). At the same time, it is also an economy of significant imports, its value was at the level of 95.1% of the value of Slovakia's GDP. The high value of imports, as well as the high value of exports, means that Slovakia is an open economy that is largely interconnected with other countries. Slovakia is part of global and especially regional value chains, as 74.3% of domestic value added is exported to the countries of the European Union (EU 28). This statement is also confirmed by the fact that almost half (43.9% in 2015, Chart 9) of Slovakia's economic activity (GDP) is dependent on foreign markets. International trade and foreign direct investment are the main characteristics and key drivers of global value chains. Compared to the average of OECD and EU28 countries, Slovakia needs approximately 2 times more foreign value added (which it imports) for export. Slovakia's gross exports contain almost half (44.8%) of imported foreign value added, the largest part of which is in the industrial production sector.

6.6.2 Forecasts of the trade flows by type of goods by country and NUTS 2 level

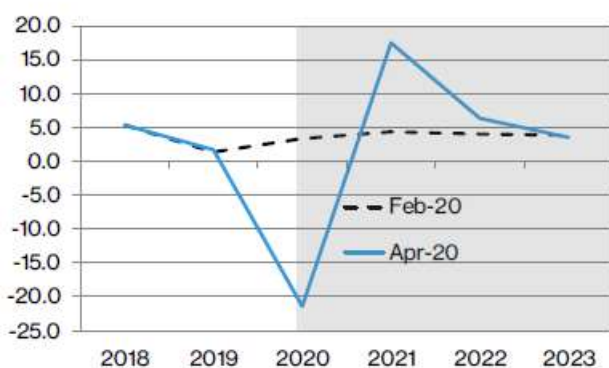
As mentioned in previous chapters, Statistical Office of the Slovak Republic unfortunately does not keep track on trade flows at nuts 2 level, all available statistics are calculated only at country level.

According to Institute for Financial policy under Ministry of Finance of the Slovak Republic, international trade and trade flows will be impacted negatively by COVID-19 outbreak. In terms of export, in 2020 it was mostly by outage of foreign demand a domestic production, in 2021-2023 disruption of global value chain and higher permanent loss of foreign trade.¹⁸

¹⁸ Forecast of the development of the Slovak economy for the years 2020 –2023, Institute for Financial policy

Figure 149: Export of goods and services 2018 - 2023

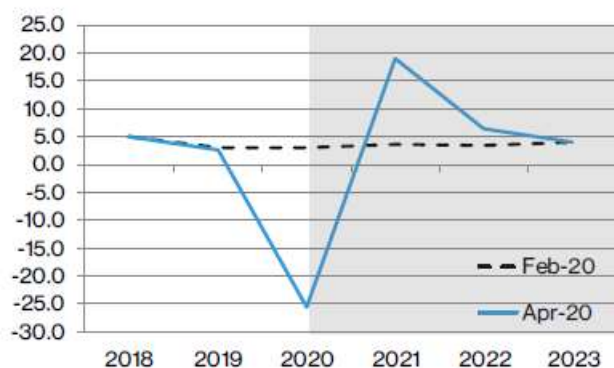
2018	2019			2020			2021			2022			2023		
skut.	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ
5.4	1.5	1.7	0.2	3.4	-21.4	-24.8	4.5	17.6	13.1	4.0	6.5	2.5	3.8	3.6	-0.2



Growth of import is expected to be in line with dynamics domestic exports and investments.

Figure 150: Import of goods and services 2018 - 2023

2018	2019			2020			2021			2022			2023		
skut.	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ	Feb-20	Apr-20	Δ
5.0	3.1	2.6	-0.5	3.0	-25.5	-28.5	3.6	19.0	15.4	3.5	6.5	3.0	4.0	4.0	0.0



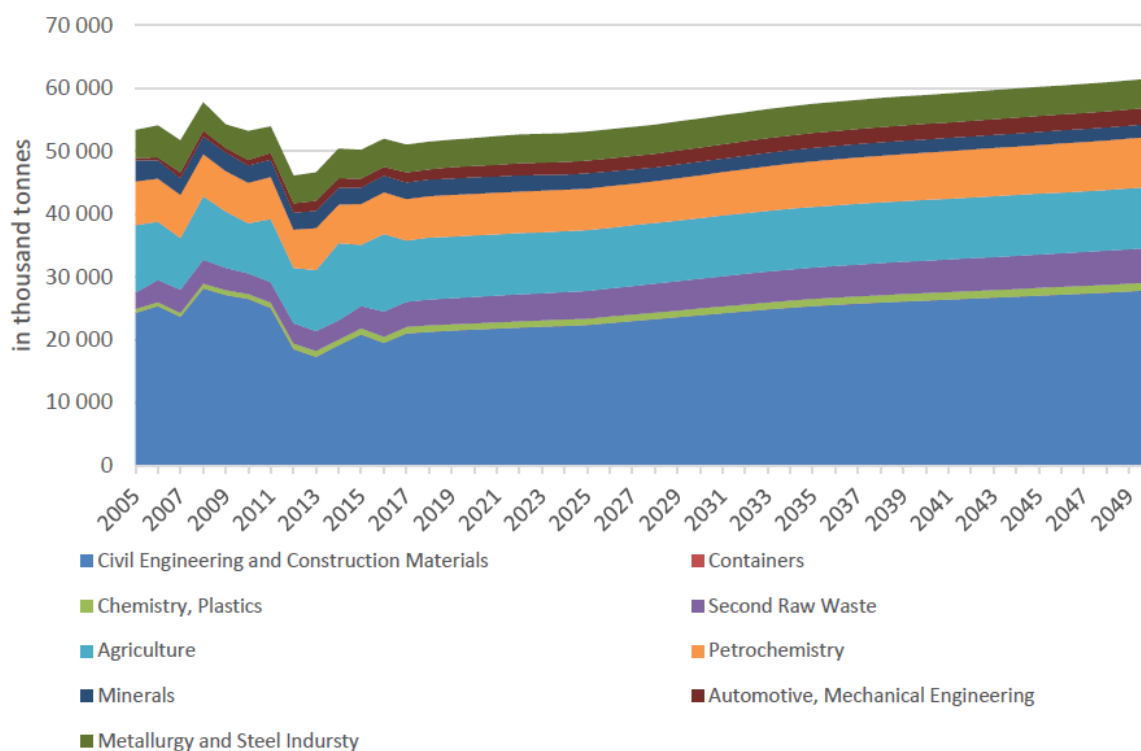
For this country report we can use demand analysis elaborated under Master Plan II for port of Bratislava, strategical document finalized in 2020. Demand analysis was carried out for the period 2018 – 2050 at the Slovak regional level relevant for water transport and in cooperation with the Port Komárno as another important cargo port in Slovakia. This was done mainly since analysis implicitly assumes the existence of “common demand” for the services of water transport.

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKewi_gO7Nx7DvAhWx4YUKHVbICQAQFjAAegQIARAD&url=https%3A%2F%2Fwww.mfsr.sk%2Ffiles%2Farchiv%2F39%2Fprezentacia_MV_april2020_na_web.pdf&usg=AOvVaw1YSa4bNILGgRrDbBWMlBiN

After the individual analyses, the historical volume of production in each segment was determined. In this area, IWT segments had to be broken down into individual commodities and products (as IWT-based statistics are not available), then analysed and the final individual commodities and products regrouped into an official classification.

In each area, data have been collected since 2005 so the analysis is based on at least 12 years of history. The data were obtained in tonnes for the region of Slovakia, primarily from the Eurostat database or the Statistical Office of the Slovak Republic.

Figure 151: Estimated Production Volume in Relevant Segments in Slovakia for 2005 - 2050



Individual segments development is based on the following estimated growth rates (annual growth) based on the combination of OECD Statistics, BMI and Oxford Economics forecasts:

- Civil Engineering and Construction Materials 0,8%
- Containers 1,1%
- Chemistry, Plastics 0,7%
- Second Raw Waste 0,9%
- Agriculture -0,1%
- Petrochemistry 0,6%
- Minerals -0,8%
- Automotive, Mechanical Engineering 1,5%
- Metallurgy and Steel Industry 0,1%

Total 0,6%

7 Trade of all Danube Region countries with Black Sea countries

In this chapter is shown the evolution of trade, for both imports and exports, of the 6 Danube Region countries with Black Sea countries, in tonnes per year, for the period 2015 – 2019.

7.1 IMPORTS

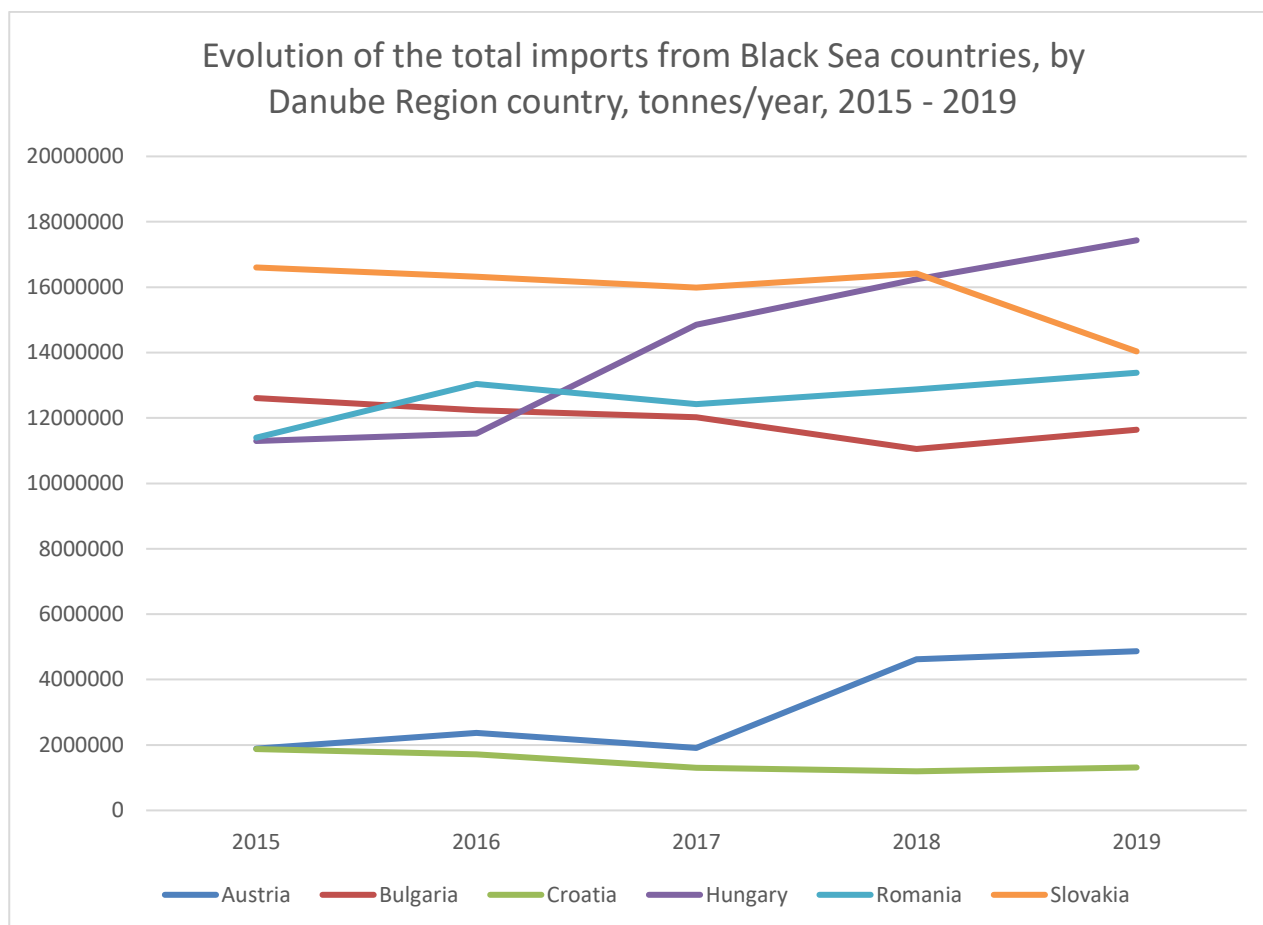
The following table shows the total imports, all goods, for the period 2015 – 2019 by DR country.

Table 132: Total imports DR countries from the selected BS countries, 2015 – 2019, tonnes/year

	2015	2016	2017	2018	2019
Austria	1888700	2365813	1909573	4622886	4867667
Bulgaria	12609864	12235537	12023572	11052696	11646006
Croatia	1875907	1717820	1306490	1195423	1316787
Hungary	11296788	11521393	14855182	16246651	17434444
Romania	11398496	13040720	12427090	12870616	13383693
Slovakia	16604006	16321847	15990229	16416192	14036248
Total	55673761	57203130	58512136	62404464	62684845

The evolution of total imports is also shown in the plot below.

Figure 152: Evolution of the total imports from Black Sea countries, by Danube Region country, tonnes/year, 2015 - 2019



The tables below shows the total imports by DR country and Black Sea country, in tonnes per year, for the time period 2015 – 2019.

Table 133: Total imports DR countries from Georgia, 2015 - 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	222	205	920	1253	276
Bulgaria	452534	256872	326049	359408	330205
Croatia	24	32	20	16	11
Hungary	361	417	710	535	932
Romania	46568	33586	44795	28792	58842
Slovakia	113	481	24	49	36
Total	501837	293609	374535	392071	392321

Table 134: Total imports DR countries from Russian Federation, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	1129761	1635240	1198628	1058258	1038062
Bulgaria	9110715	8659460	8420743	7498629	7874150
Croatia	1700851	1540652	1129716	1004932	1079116
Hungary	9179966	8716198	10390674	12175436	13516338
Romania	5748247	7095176	7200274	7334747	7424663
Slovakia	12598879	12054815	10636774	11550688	10625830
Total	39470434	39703557	38978826	40624708	41560178

Table 135: Total imports DR countries from Turkey, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	464943	506530	505468	564950	575678
Bulgaria	1545286	1900012	1946173	2057026	2213348
Croatia	119306	107551	144870	159427	206125
Hungary	200292	200379	249619	279253	318427
Romania	1554202	1697849	2125529	2557000	3284672
Slovakia	90969	83416	94117	111597	100836
Total	3977013	4497753	5067793	5731271	6701105

Table 136: Total imports DR countries from Ukraine, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	293774	223838	204557	2998425	3253651
Bulgaria	1501329	1419193	1330607	1137633	1228303
Croatia	55726	69585	31884	31048	31535
Hungary	1916169	2604399	4214179	3791427	3598747
Romania	4049479	4214109	3056492	2950077	2615516
Slovakia	3914045	4183135	5259314	4753858	3309546
Total	11732537	12716275	14099050	15664486	14039317

From the above it is observed that the most important trade partner for imports of DR countries is Russian Federation, with 41.5 mln tonnes per year in 2019, with Hungary and Slovakia counting for 24 mln tonnes per year, thus for more than 50% of it.

Ukraine is the second trade partner for imports of DR countries, with 14 mln tonnes per year in 2019, with Hungary, Slovakia and Austria counting for 10 mln tonnes per year together.

Turkey is the third trade partner for imports of the DR countries, with almost 7 mln tonnes per year in 2019, with Romania and Bulgaria counting for 5.5 mln tonnes per year.

Imports from Georgia are less than half mln tonnes per year.

In the following are shown imports of the DR countries from the Black Sea countries by NSTR 1 category of goods.

NSTR 0 AGRICULTURAL PRODUCTS AND LIVE ANIMALS

Table 137: Imports DR countries from Georgia, NSTR0, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	57	37	39	292	81
Bulgaria	62	83	33	170	109
Croatia	0	7	17	0	4
Hungary	0	0	0	0	18
Romania	197	79	35	237	361
Slovakia	110	177	22	0	0
Total	2441	2399	2163	2717	2592

Table 138: Imports DR countries from Russian Federation, NSTR0, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	20638	22023	21376	18021	24136
Bulgaria	4225	2722	4442	10143	7346
Croatia	218	373	516	806	1228
Hungary	81412	81710	88379	88875	83831
Romania	47646	83592	115319	119899	122194
Slovakia	35065	41638	48810	60416	117520
Total	191219	234074	280859	300178	358274

Table 139: Imports DR countries from Turkey, NSTR0, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	111350	139814	117418	121237	118072
Bulgaria	113085	119977	103250	169578	174122
Croatia	5891	7772	6485	8025	11261
Hungary	19354	18936	25381	34473	27359
Romania	123233	144529	140444	185515	156546
Slovakia	4510	5460	5378	5753	3154
Total	379438	438504	400373	526599	492533

Table 140: Imports DR countries from Ukraine, NSTR0, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	172274	97184	79775	99963	43337
Bulgaria	12021	21555	23343	34628	56888
Croatia	1394	1788	1866	1675	2198
Hungary	363475	419530	388272	403858	310951
Romania	1865281	1707069	787574	704163	272703
Slovakia	197388	96996	67557	79861	65811
Total	2613848	2346138	1350404	1326166	753907

From the above it is observed that the most important trade partner for imports of DR countries for Agricultural products is Ukraine with 0.8 mln tonnes in 2019, with Hungary and Romania counting for almost 0.6 mln tonnes per year together.

Turkey is the second trade partner for imports of DR countries for Agricultural products, with 0.5 mln tonnes per year in 2019, with Bulgaria and Romania counting for 0.33 mln tonnes per year together.

Russia is the third trade partner for imports of the DR countries for Agricultural products, with almost 0.4 mln tonnes per year in 2019, with Romania and Slovakia counting for 0.3 mln tonnes per year.

Imports from Georgia are less than 3 thousand tonnes per year.

NSTR 1 FOODSTUFFS AND ANIMAL FODDER
Table 141: Imports DR countries from Georgia, NSTR1, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	110	50	828	694	161
Bulgaria	115	140	350	563	486
Croatia	0	0	3	14	0
Hungary	172	174	163	140	149
Romania	0	3	25	0	30
Slovakia	2	14	0	46	31
Total	399	381	1369	1457	857

Table 142: Imports DR countries from Russian Federation, NSTR1, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	2272	1910	890	4596	5679
Bulgaria	2410	11075	9424	3691	99062
Croatia	14715	1847	1797	1131	177
Hungary	1470	1395	1495	1910	2881
Romania	1593	3040	16892	6071	3213
Slovakia	1198	1867	1359	1514	1746
Total	23658	21134	31857	18913	112758

Table 143: Imports DR countries from Turkey, NSTR1, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	42394	39559	41816	40569	42624
Bulgaria	41569	37005	40528	54038	49658
Croatia	3107	3230	3616	4626	3852
Hungary	5437	7599	7352	7961	9267
Romania	52250	55604	63752	72047	78478
Slovakia	3236	4470	3372	3214	4036
Total	147993	147467	160436	182455	187915

Table 144: Imports DR countries from Ukraine, NSTR1, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	34144	33175	32703	35366	57383
Bulgaria	28086	29978	48565	28654	61240
Croatia	3308	2930	3101	2263	2188
Hungary	39868	85079	160878	163792	227958
Romania	97859	85494	64213	79233	78707
Slovakia	6865	3793	17574	20703	15750
Total	210130	240449	327034	330011	443226

From the above it is observed that the most important trade partner for imports of DR countries for Foodstuffs is Ukraine with 0.8 mln tonnes in 2019, with Hungary and Romania counting for almost 0.6 mln tonnes per year together.

Turkey is the second trade partner for imports of DR countries for Foodstuffs, with 0.5 mln tonnes per year in 2019, with Bulgaria and Romania counting for 0.33 mln tonnes per year together.

Russia is the third trade partner for imports of the DR countries for Foodstuffs, with almost 0.4 mln tonnes per year in 2019, with Romania and Slovakia counting for 0.3 mln tonnes per year.

Imports from Georgia are less than 3 thousand tonnes per year.

NSTR 2 SOLID MINERAL FUELS
Table 145: Imports DR countries from Georgia, 2 NSTR2, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	0	0	0	0	0
Croatia	0	0	0	0	0
Hungary	0	0	0	0	0
Romania	0	0	0	0	0
Slovakia	0	0	0	0	0
Total	0	0	0	0	0

Table 146: Imports DR countries from Russian Federation, NSTR2, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	153036	308969	484013	569980	424223
Bulgaria	625161	338042	292918	380050	562791
Croatia	621902	767291	520055	290862	639953
Hungary	39331	62928	146062	287974	212559
Romania	588077	653654	724732	748909	950477
Slovakia	1252630	964055	1228764	1524989	1285918
Total	3280137	3094939	3396544	3802764	4075921

Table 147: Imports DR countries from Turkey, NSTR2, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	938	153	623	474	185
Croatia	0	0	0	0	0
Hungary	0	0	0	0	0
Romania	0	0	2000	649	151
Slovakia	0	0	0	0	0
Total	938	153	2623	1123	336

Table 148: Imports DR countries from Ukraine, NSTR2, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	22	21	44	858	316
Bulgaria	424042	331697	447121	216832	17316
Croatia	5327	0	0	21	0
Hungary	642	693	1698	2128	1659
Romania	21436	2978	30649	5935	1511
Slovakia	371649	277676	271244	21011	7356
Total	823118	613065	750756	246785	28158

From the above it is observed that the most important trade partner for imports of DR countries for Solid mineral fuels is Russian Federation with 4.1 mln tonnes in 2019, with Slovakia and Romania counting for almost 2.2 mln tonnes per year together.

Imports from the other Black Sea countries are not significant.

NSTR 3 PETROLEUM PRODUCTS

Table 149: Imports DR countries from Georgia, 2 NSTR3, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	254973	36998	29038	83083	82172
Croatia	0	0	0	0	0
Hungary	0	0	3	3	0
Romania	183	16299	1023	0	6605
Slovakia	0	0	0	0	0
Total	255156	53297	30064	83086	88777

Table 150: Imports DR countries from Russian Federation, NSTR3, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	751012	1020246	538678	300795	443259
Bulgaria	7557071	7488952	7485799	6615375	6680616
Croatia	934279	700097	510443	566461	309689
Hungary	8238959	7563681	9248855	11274127	12597590
Romania	4129650	5393605	5399395	5549041	5370281
Slovakia	8630485	8334157	7732478	8020343	7768763
Total	30241456	30500738	30915648	32326142	33170198

Table 151: Imports DR countries from Turkey, NSTR3, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	2	0	43	4	94
Bulgaria	177032	417201	248847	149680	86627
Croatia	331	502	716	468	684
Hungary	106	364	615	507	718
Romania	19325	29147	106716	16742	103837
Slovakia	0	66	82	2	0
Total	196796	447280	357019	167403	191960

Table 152: Imports DR countries from Ukraine, NSTR3, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	140	111	188	111	111
Bulgaria	8459	7829	11421	17782	14307
Croatia	0	20	0	0	0
Hungary	551566	874073	1821101	624009	1064376
Romania	602	614	612	702	693
Slovakia	6	5	32	4	4
Total	560773	882652	1833354	642608	1079491

From the above it is observed that the most important trade partner for imports of DR countries for Petroleum products is Russian Federation with 33.2 mln tonnes in 2019, with Hungary and Slovakia counting for 20.3 mln tonnes per year together.

Ukraine is the second trade partner for imports of DR countries for Petroleum products, with 1.1 mln tonnes per year in 2019, with Hungary counting for most of it.

Turkey is the third trade partner for imports of the DR countries for Petroleum products, with almost 0.2 mln tonnes per year in 2019, with Romania and Bulgaria counting for most of it.

Imports from Georgia are less than 90 thousand tonnes per year.

NSTR 4 ORES AND METAL WASTE

Table 153: Imports DR countries from Georgia, 2 NSTR4, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	140851	134342	210081	211121	189591
Croatia	0	0	0	0	0
Hungary	0	0	0	0	0
Romania	0	0	23	92	0
Slovakia	0	0	0	0	0
Total	140851	134342	210104	211213	189591

Table 154: Imports DR countries from Russian Federation, NSTR4, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	45	84	30640	46269	47391
Bulgaria	17353	107	3990	18835	13308
Croatia	0	0	0	98	0
Hungary	243096	523989	361846	1118	152498
Romania	434147	299520	204817	87594	44962
Slovakia	2387464	2402633	1364663	1659876	1208242
Total	3082105	3226333	1965956	1813790	1466401

Table 155: Imports DR countries from Turkey, NSTR4, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	3614	3177	3690	6148	4353
Bulgaria	51529	70646	131751	57341	85497
Croatia	42400	37200	43620	40282	25650
Hungary	0	0	327	347	207
Romania	17156	20321	38721	154202	566549
Slovakia	2418	1123	2009	2033	1977
Total	117117	132467	220118	260353	684233

Table 156: Imports DR countries from Ukraine, NSTR4, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	84	147	87	22	110
Bulgaria	1446	1023	3358	3019	3821
Croatia	0	0	0	0	0
Hungary	548154	471412	1119240	1636366	995574
Romania	1493003	1577090	1360100	1404894	1279433
Slovakia	2941722	3466414	4599740	4230255	2835918
Total	4984409	5516086	7082525	7274556	5114856

From the above it is observed that the most important trade partner for imports of DR countries for Ores and metal waste is Ukraine with 5.1 mln tonnes in 2019, with Slovakia and Romania counting for 4.1 mln tonnes per year together.

Russian Federation is the second trade partner for imports of DR countries for Ores and metal waste, with 1.5 mln tonnes per year in 2019, with Slovakia counting for 1.2 mln tonnes per year.

Turkey is the third trade partner for imports of the DR countries for Ores and metal waste, with almost 0.7 mln tonnes per year in 2019, with Romania counting for 0.6 mln tonnes per year.

Imports from Georgia are less than 190 thousand tonnes per year.

NSTR 5 METAL PRODUCTS
Table 157: Imports DR countries from Georgia, 2 NSTR5, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	0	48	0	3	0
Bulgaria	541	7321	5549	1669	274
Croatia	0	0	0	0	0
Hungary	0	17	401	264	444
Romania	341	1622	223	0	0
Slovakia	0	289	0	0	0
Total	882	9297	6173	1936	718

Table 158: Imports DR countries from Russian Federation, NSTR5, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	103193	191655	21065	47566	11909
Bulgaria	155728	82722	110792	104492	253382
Croatia	2376	15240	23425	17144	31177
Hungary	111716	34032	40984	71455	25050
Romania	155853	116217	151308	158846	161739
Slovakia	120928	104164	75848	77931	62442
Total	649794	544030	423422	477434	545699

Table 159: Imports DR countries from Turkey, NSTR5, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	28764	35679	35342	41821	45970
Bulgaria	125124	211175	308239	360378	441998
Croatia	11867	12483	25548	33181	38498
Hungary	27894	24576	29375	31631	54399
Romania	462729	505720	720235	984083	919605
Slovakia	5762	5916	9838	10438	10627
Total	662140	795549	1128577	1461532	1511097

Table 160: Imports DR countries from Ukraine, NSTR5, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	13997	16847	17831	15489	15208
Bulgaria	909709	910533	672703	684052	645784
Croatia	37656	54867	16077	9085	14355
Hungary	183409	419819	159646	163287	185965
Romania	275567	360151	305414	220640	274535
Slovakia	148965	149871	78307	94031	73289
Total	1569303	1912088	1249978	1186584	1209136

From the above it is observed that the most important trade partner for imports of DR countries for Metal products is Turkey with 1.5 mln tonnes in 2019, with Romania and Bulgaria counting for 1.3 mln tonnes per year together.

Ukraine is the second trade partner for imports of DR countries for Metal products, with 1.2 mln tonnes per year in 2019, with Bulgaria counting for 0.7 mln tonnes per year.

Russian Federation is the third trade partner for imports of the DR countries for Metal products, with almost 0.6 mln tonnes per year in 2019, with Bulgaria counting for 0.3 mln tonnes per year.

Imports from Georgia are less than one thousand tonnes per year.

NSTR 6 CRUDE AND MANUFACTURED MINERALS, BUILDING MATERIALS
Table 161: Imports DR countries from Georgia, 2 NSTR6, 2015 – 2019, tonnes/year

Imports from Georgia					
REPORTER/PARTNER	2015	2016	2017	2018	2019
Austria	5	0	0	0	0
Bulgaria	0	0	24	0	0
Croatia	0	25	0	0	0
Hungary	0	0	0	0	0
Romania	70	0	101	348	399
Slovakia	0	0	0	0	0
Total	75	25	125	348	399

Table 162: Imports DR countries from Russian Federation, NSTR6, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	747	1343	2705	3203	5742
Bulgaria	17053	19377	21823	29754	28008
Croatia	1756	1938	2515	2606	3607
Hungary	7227	7243	6048	7424	7027
Romania	19643	29557	32107	45010	40607
Slovakia	11344	12878	14972	16373	17779
Total	57770	72336	80170	104370	102770

Table 163: Imports DR countries from Turkey, NSTR6, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	106054	112158	120937	164854	165840
Bulgaria	562810	540616	578500	594711	671649
Croatia	4369	3080	2694	3976	46144
Hungary	9417	9127	10830	13742	14118
Romania	261872	295869	278456	278289	498536
Slovakia	3010	2356	4350	8894	5746
Total	947532	963206	995767	1064466	1402033

Table 164: Imports DR countries from Ukraine, NSTR6, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	21757	20020	18836	12369	8922
Bulgaria	18552	55011	55501	51932	53438
Croatia	175	283	327	147	131
Hungary	125866	187798	392383	639958	602289
Romania	108962	135909	184615	239251	385676
Slovakia	161046	63541	111388	153989	143575
Total	436358	462562	763050	1097646	1194031

From the above it is observed that the most important trade partner for imports of DR countries for Crude and manufactured minerals, Building materials is Turkey with 1.4 mln tonnes in 2019, with Romania and Bulgaria counting for 1.2 mln tonnes per year together.

Ukraine is the second trade partner for imports of DR countries for Crude and manufactured minerals, Building materials, with 1.2 mln tonnes per year in 2019, with Hungary and Romania counting for 1.0 mln tonnes per year together.

Russian Federation is the third trade partner for imports of the DR countries for Crude and manufactured minerals, Building materials, with 0.1 mln tonnes per year in 2019

Imports from Georgia are less than one thousand tonnes per year.

NSTR 7 FERTILIZERS

Table 165: Imports DR countries from Georgia, 2 NSTR7, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	0	0	0	1	0
Bulgaria	55900	77758	80504	57996	49566
Croatia	0	0	0	0	0
Hungary	0	0	0	0	0
Romania	45596	15547	43253	28030	51370
Slovakia	0	0	0	0	0
Total	101496	93305	123757	86027	100936

Table 166: Imports DR countries from Russian Federation, NSTR7, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	11953	6245	0	0	1500
Bulgaria	76008	99250	141748	139573	125713
Croatia	121467	49690	62060	52983	27553
Hungary	111277	138445	152806	123973	153337
Romania	116123	220972	202844	274900	399048
Slovakia	1521	7300	2336	3721	5857
Total	438349	521902	561794	595150	713008

Table 167: Imports DR countries from Turkey, NSTR7, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	8	0	2	18	20
Bulgaria	5236	5492	15049	27045	41719
Croatia	10726	264	8952	13304	6497
Hungary	10016	0	0	1	0
Romania	47637	19171	52679	49222	35796
Slovakia	0	0	0	0	0
Total	73623	24927	76682	89590	84032

Table 168: Imports DR countries from Ukraine, NSTR7, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	13942	9967	0	1031	0
Bulgaria	48771	13697	6583	17731	11088
Croatia	2755	0	0	0	0
Hungary	28328	40987	51046	24021	67389
Romania	88069	178008	73182	45047	71874
Slovakia	8884	22394	10265	1547	11491
Total	190749	265053	141076	89377	161842

From the above it is observed that the most important trade partner for imports of DR countries for Fertilizers is Russian Federation with 0.7 mln tonnes in 2019, with Romania counting for 0.4 mln tonnes per year.

Ukraine is the second trade partner for imports of DR countries for Fertilizers, with 0.16 mln tonnes per year in 2019, with Hungary counting for 0.07 mln tonnes per year.

Imports from Georgia and Turkey are not very high, counting for some 0.1 mln tonnes per year each.

NSTR 8 CHEMICALS

Table 169: Imports DR countries from Georgia, 2 NSTR8, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	3	0	0	0	0
Bulgaria	5	74	51	4203	7774
Croatia	0	0	0	0	0
Hungary	175	226	125	118	290
Romania	0	0	0	0	0
Slovakia	0	0	0	0	0
Total	183	300	176	4321	8064

Table 170: Imports DR countries from Russian Federation, NSTR8, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	55748	46215	62543	26826	29473
Bulgaria	602734	560358	284338	129766	57805
Croatia	266	356	968	63367	53733
Hungary	331528	280626	316230	290515	256136
Romania	171429	183213	195832	154383	154433
Slovakia	143149	165891	143656	159277	130836
Total	1304854	1236659	1003567	824134	682416

Table 171: Imports DR countries from Turkey, NSTR8, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	21602	23412	23351	29504	26556
Bulgaria	165604	165865	184039	230117	182507
Croatia	7976	7372	11056	11707	13202
Hungary	17533	16655	17281	18393	18656
Romania	170545	181538	217824	235177	282162
Slovakia	5581	5410	11574	14065	14435
Total	388841	400252	465125	538963	537518

Table 172: Imports DR countries from Ukraine, NSTR8, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	7851	8458	10558	11123	14611
Bulgaria	25172	8922	6929	17535	290474
Croatia	200	233	623	1047	1236
Hungary	5116	9312	15478	13109	23492
Romania	13723	17852	19537	26768	25698
Slovakia	22534	37602	26248	35802	39341
Total	74596	82379	79373	105384	394852

From the above it is observed that the most important trade partner for imports of DR countries for Chemicals is Russian Federation with 0.7 mln tonnes in 2019, with Hungary and Romania counting for 0.4 mln tonnes per year together.

Turkey is the second trade partner for imports of DR countries for Chemicals, with 0.54 mln tonnes per year in 2019, with Romania counting for 0.28 mln tonnes per year.

Ukraine is the third trade partner for imports of the DR countries for Chemicals, with almost 0.4 mln tonnes per year in 2019, with Bulgaria counting for 0.3 mln tonnes per year.

Imports from Georgia are less than 10 thousand tonnes per year.

NSTR 9 MACHINERY, TRANSPORT EQUIPMENT, MANUFACTURED ARTICLES AND MISCELLANEOUS ARTICLES
Table 173: Imports DR countries from Georgia, 2 NSTR9, 2015 – 2019, tonnes/year

Imports from Georgia					
	2015	2016	2017	2018	2019
Austria	47	70	53	263	34
Bulgaria	87	156	419	603	233
Croatia	24	0	0	2	7
Hungary	14	0	18	10	31
Romania	181	36	112	85	77
Slovakia	1	1	2	3	5
Total	354	263	604	966	387

Table 174: Imports DR countries from Russian Federation, NSTR9, 2015 – 2019, tonnes/year

Imports from Russian Federation					
	2015	2016	2017	2018	2019
Austria	31117	36550	36718	41002	44750
Bulgaria	52972	56855	65469	66950	46119
Croatia	3872	3820	7937	9474	11999
Hungary	13950	22149	27969	28065	25429
Romania	84086	111806	157028	190094	177709
Slovakia	15095	20232	23888	26248	26727
Total	201092	251412	319009	361833	332733

Table 175: Imports DR countries from Turkey, NSTR9, 2015 – 2019, tonnes/year

Imports from Turkey					
	2015	2016	2017	2018	2019
Austria	151155	152731	162869	160795	172149
Bulgaria	302359	331882	335347	413664	479386
Croatia	32639	35648	42183	43858	60337
Hungary	110535	123122	158458	172198	193703
Romania	399455	445950	504702	581074	643012
Slovakia	66452	58615	57514	67198	60861
Total	1062595	1147948	1261073	1438787	1609448

Table 176: Imports DR countries from Ukraine, NSTR0, 2015 – 2019, tonnes/year

Imports from Ukraine					
	2015	2016	2017	2018	2019
Austria	29563	37908	44535	2822093	3113653
Bulgaria	25071	38948	55083	65468	73947
Croatia	4911	9464	9890	16810	11427
Hungary	69745	95696	104437	120899	119094
Romania	84977	148944	230596	223444	224686
Slovakia	54986	64843	76959	116655	117011
Total	269253	395803	521500	3365369	3659818

From the above it is observed that the most important trade partner for imports of DR countries for Manufactured goods is Ukraine with 3.7 mln tonnes in 2019, with Austria counting for 3.1 mln tonnes per year.

Turkey is the second trade partner for imports of DR countries for Manufactured goods, with 1.6 mln tonnes per year in 2019, with Romania and Bulgaria counting for 1.1 mln tonnes per year.

Russian Federation is the third trade partner for imports of the DR countries for Manufactured goods, with almost 0.3 mln tonnes per year in 2019, with Romania counting for 0.2 mln tonnes per year.

Imports from Georgia are less than one thousand tonnes per year.

7.2 EXPORTS

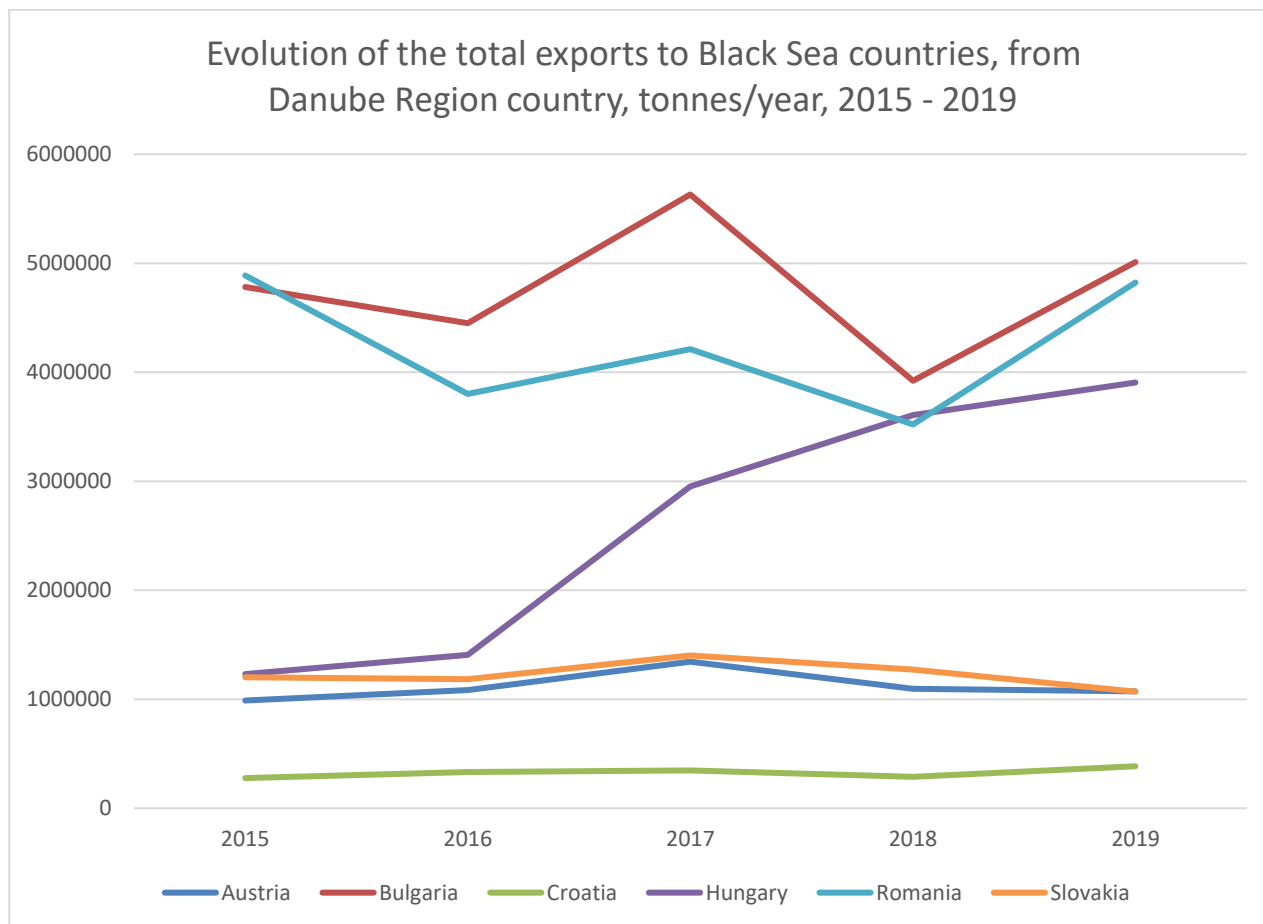
The following table shows the total exports, all goods, for the period 2015 – 2019 by DR country.

Table 177: Exports DR countries to selected BS countries, all goods, 2015 – 2019, tonnes/year

	2015	2016	2017	2018	2019
Austria	988276	1085080	1344582	1095551	1073099
Bulgaria	4783096	4449470	5631010	3921967	5011232
Croatia	276804	333685	345631	286819	385270
Hungary	1230753	1408729	2951668	3605955	3905640
Romania	4887928	3799841	4212425	3521298	4822387
Slovakia	1201944	1185094	1401652	1272023	1069774
Total	13368801	12261899	15886968	13703613	16267402

The evolution of total exports is also shown in the plot below.

Figure 153: Evolution of the total exports to Black Sea countries, by Danube Region country, tonnes/year,



It is observed that the highest increased of exports is shown by Hungary.

The tables below shows the total exports of DR countries to Black Sea country, in tonnes per year, for the time period 2015 – 2019.

Table 178: Exports DR countries to Georgia, all goods, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	10117	10842	13198	15335	15657
Bulgaria	254289	377560	304377	219697	149081
Croatia	103	394	7125	974	952
Hungary	23056	11991	22142	4329	4414
Romania	399222	430941	356058	311078	339940
Slovakia	2379	3133	1263	1962	2945
Total	689166	834861	704163	553375	512989

Table 179: Exports DR countries to Russian Federation, all goods, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	351615	393952	576168	355432	329280
Bulgaria	314643	124644	365776	68225	131696
Croatia	28774	66210	72020	13572	34694
Hungary	259919	272055	285653	277212	289017
Romania	215148	223773	288586	223659	257769
Slovakia	216766	208657	256560	255788	234850
Total	1386865	1289291	1844763	1193888	1277306

Table 180: Exports DR countries to Turkey, all goods, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	528007	530895	595159	547091	532969
Bulgaria	4001336	3792109	4767434	3409913	4119626
Croatia	246219	261249	263265	258392	332531
Hungary	317858	396609	350849	315072	303239
Romania	3683661	2754243	3055324	2636170	3790940
Slovakia	256429	363288	270802	186166	172481
Total	9033510	8098393	9302833	7352804	9251786

Table 181: Exports DR countries to Ukraine, all goods, 2015 – 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	98537	149391	160057	177693	195193
Bulgaria	212828	155157	193423	224132	610829
Croatia	1708	5832	3221	13881	17093
Hungary	629920	728074	2293024	3009342	3308970
Romania	589897	390884	512457	350391	433738
Slovakia	726370	610016	873027	828107	659498
Total	2259260	2039354	4035209	4603546	5225321

From the above it is observed that the most important trade partner for exports of DR countries is Turkey, with 9.3 mln tonnes per year in 2019, with Bulgaria and Romania counting for 8 mln tonnes per year, thus for more than 50% of it.

Ukraine is the second trade partner for exports of DR countries, with 5.2 mln tonnes per year in 2019, with Hungary, Slovakia and Bulgaria counting for 4.55 mln tonnes per year together.

Russian Federation is the third trade partner for exports of the DR countries, with almost 1.3 mln tonnes per year in 2019, with Romania and Slovakia counting for 0.5 mln tonnes per year.

Imports from Georgia are around half mln tonnes per year.

In the following are shown exports of the DR countries to the Black Sea countries by NSTR category of goods.

NSTR 0 AGRICULTURAL PRODUCTS AND LIVE ANIMALS

Table 182: Exports DR countries to Georgia, NSTR0, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	124	73	238	210	182
Bulgaria	1658	461	1543	3279	1114
Croatia	0	0	4	12	18
Hungary	669	402	274	573	229
Romania	162	141	0	55	852
Slovakia	0	54	0	88	676
Total	2613	1131	2059	4217	3071

Table 183: Exports DR countries to Russian Federation, NSTR0, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	2802	1566	3579	1690	2725
Bulgaria	424	261	730	1124	715
Croatia	226	182	92	101	93
Hungary	20965	23195	29329	30501	26210
Romania	10518	9781	7629	8870	6507
Slovakia	2672	2610	1394	1367	863
Total	37607	37595	42753	43653	37113

Table 184: Exports DR countries to Turkey, NSTR0, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	10433	12550	15358	10817	5606
Bulgaria	486873	224246	230173	141741	316794
Croatia	5949	8019	19825	20447	2231
Hungary	22420	38549	28132	26246	23443
Romania	853609	277399	865150	496543	1466685
Slovakia	6679	11097	6391	4336	3520
Total	1385963	571860	1165029	700130	1818279

Table 185: Exports DR countries to Ukraine, NSTR0, 2015 – 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	2015	2016	2017	2018	2019
Bulgaria	1556	1428	2013	1519	3578
Croatia	692	462	627	635	400
Hungary	167	297	131	153	146
Romania	14884	17215	21586	21436	23547
Slovakia	10336	12726	15008	15758	12915
Total	8075	8903	11324	9457	3191
	35710	41031	50689	48958	43777

From the above it is observed that the most important trade partner for exports of DR countries for Agricultural products is Turkey with 1.82 mln tonnes in 2019, with Romania and Bulgaria counting for almost 1.72 mln tonnes per year together.

Exports to other countries are not significant.

NSTR 1 FOODSTUFFS AND ANIMAL FODDER
Table 186: Exports DR countries to Georgia, NSTR1, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	4850	3678	5465	3506	3517
Bulgaria	1946	2205	2434	2092	2288
Croatia	0	275	6954	334	385
Hungary	8171	7813	5545	1453	2023
Romania	8026	7752	6417	4416	2850
Slovakia	31	2	0	86	42
Total	23024	21725	26815	11887	11105

Table 187: Exports DR countries to Russian Federation, NSTR1, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	45012	54586	54723	60887	72712
Bulgaria	28192	22388	18436	18744	23598
Croatia	17171	55160	58164	2818	28039
Hungary	61130	65194	60863	51827	53292
Romania	1347	35046	85382	35511	79210
Slovakia	7475	9568	11384	13792	14839
Total	160327	241942	288952	183579	271690

Table 188: Exports DR countries to Turkey, NSTR1, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	51657	45395	60687	47458	57626
Bulgaria	513530	522467	573245	447761	521070
Croatia	6927	7304	17548	13950	11994
Hungary	19004	21580	25207	17122	22769
Romania	424354	371296	224271	411860	561199
Slovakia	27450	21633	21080	7584	8525
Total	1042922	989675	922038	945735	1183183

Table 189: Exports DR countries to Ukraine, NSTR1, 2015 – 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	10171	10641	12595	15969	16596
Bulgaria	3991	5214	7934	9116	12259
Croatia	193	280	584	1606	1363
Hungary	33247	34033	42551	44031	60537
Romania	3250	4418	4022	3456	4134
Slovakia	4770	5327	5856	4965	6963
Total	55622	59913	73542	79143	101852

From the above it is observed that the most important trade partner for exports of DR countries for Foodstuffs is Turkey with 1.18 mln tonnes in 2019, with Romania and Bulgaria counting for 1.08 mln tonnes per year together.

Russian Federation is the second trade partner for exports of DR countries for Foodstuffs, with 0.3 mln tonnes per year in 2019, with Romania and Hungary counting for 0.11 mln tonnes per year together.

Exports to Ukraine and Georgia are not very high.

NSTR 2 SOLID MINERAL FUELS
Table 190: Exports DR countries to Georgia, NSTR2, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	4	0	16	0	0
Croatia	0	0	0	0	0
Hungary	11989	0	12235	0	0
Romania	0	0	0	0	0
Slovakia	0	0	0	0	0
Total	11993	0	12251	0	0

Table 191: Exports DR countries to Russian Federation, NSTR2, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	0	0	0	0	0
Croatia	0	0	0	0	0
Hungary	0	0	0	0	0
Romania	0	0	0	0	0
Slovakia	0	0	0	0	0
Total	0	0	0	0	0

Table 192: Exports DR countries to Turkey, NSTR2, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	0	0	4779	0	0
Croatia	0	0	0	0	0
Hungary	0	29236	14561	14905	10123
Romania	0	0	0	0	0
Slovakia	0	0	0	0	0
Total	0	29236	19340	14905	10123

Table 193: Exports DR countries to Ukraine, NSTR2, 2015 - 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	0	0	412	0	0
Croatia	0	0	0	0	0
Hungary	6492	77	111	3	3006
Romania	0	0	0	0	0
Slovakia	0	0	0	0	0
Total	6492	77	523	3	3006

From the above it is observed that exports of DR countries for Solid mineral fuels are not significant.

NSTR 3 PETROLEUM PRODUCTS

Table 194: Exports DR countries to Georgia, NSTR3, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	17	3	5	11	27
Bulgaria	197082	197230	210198	150640	104001
Croatia	0	0	0	0	0
Hungary	724	2810	2814	1012	902
Romania	372500	417480	329448	283366	333084
Slovakia	7	0	0	0	0
Total	570330	617523	542465	435029	438014

Table 195: Exports DR countries to Russian Federation, NSTR3, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	1746	2506	2745	2782	3261
Bulgaria	17076	1182	423	725	355
Croatia	0	0	25	0	25
Hungary	6462	6668	8834	11786	12545
Romania	13382	6393	7962	6780	2749
Slovakia	292	297	7774	211	231
Total	38958	17046	27763	22284	19166

Table 196: Exports DR countries to Turkey, NSTR3, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	582	5642	5769	4647	554
Bulgaria	911256	1318701	1730640	630297	1156176
Croatia	58392	15694	20145	4557	32073
Hungary	13797	4866	6040	12979	7533
Romania	508840	475125	320186	394947	238304
Slovakia	3	2	2	4	189
Total	1492870	1820030	2082782	1047431	1434829

Table 197: Exports DR countries to Ukraine, NSTR3, 2015 – 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	4735	233	283	45	77
Bulgaria	159079	49181	9820	43778	209573
Croatia	0	19	1	2	2957
Hungary	346823	439658	1948737	2643365	2915480
Romania	72601	64874	67533	43137	49881
Slovakia	563	298	544	1247	37551
Total	583801	554263	2026918	2731574	3215519

From the above it is observed that the most important trade partner for exports of DR countries for Petroleum products is Ukraine with 3.22 mln tonnes in 2019, with Romania counting for 2.9 mln tonnes per year.

Turkey is the second trade partner for exports of DR countries for Petroleum products, with 1.4 mln tonnes per year in 2019, with Bulgaria counting for most of it.

Georgia is the third trade partner for exports of the DR countries for Petroleum products, with almost 0.44 mln tonnes per year in 2019, with Romania and Bulgaria counting for most of it.

Exports to Russian Federation are less than 20 thousand tonnes per year.

NSTR 4 ORES AND METAL WASTE

Table 198: Exports DR countries to Georgia, NSTR4, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	0	0	0	0	0
Bulgaria	0	0	0	0	0
Croatia	0	0	0	0	0
Hungary	0	0	0	0	0
Romania	11046	20	14725	0	0
Slovakia	0	0	0	0	0
Total	11046	20	14725	0	0

Table 199: Exports DR countries to Russian Federation, NSTR4, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	382	0	158	163	392
Bulgaria	190874	35512	21	0	374
Croatia	0	0	0	16	0
Hungary	0	15	0	0	0
Romania	0	0	0	0	0
Slovakia	0	0	0	0	0
Total	191256	35527	179	179	766

Table 200: Exports DR countries to Turkey, NSTR4, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	11182	12787	18528	10252	47844
Bulgaria	151964	187511	293931	269882	270537
Croatia	46456	66715	97840	129894	218381
Hungary	26392	53985	56427	44085	56343
Romania	449505	411547	532585	585391	701131
Slovakia	2821	1138	0	0	36
Total	688320	733683	999311	1039504	1294272

Table 201: Exports DR countries to Ukraine, NSTR4, 2015 - 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	376	0	1060	919	457
Bulgaria	0	18	19	32	19
Croatia	0	0	0	0	0
Hungary	1	1	44	0	445
Romania	0	0	326	56	0
Slovakia	55	4934	178025	153801	83908
Total	432	4953	179474	154808	84829

From the above it is observed that the most important trade partner for exports of DR countries for Ores and metal waste is Turkey with 1.8 mln tonnes in 2019, with Bulgaria and Romania counting for almost 1 mln tonnes per year together.

Ukraine is the second trade partner for exports of DR countries for Ores and metal waste, with 85 thousand tonnes per year in 2019, with Slovakia counting for most of it.

Exports to Russian Federation and Georgia are not significant.

NSTR 5 METAL PRODUCTS
Table 202: Exports DR countries to Georgia, NSTR5, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	140	16	59	17	43
Bulgaria	203	35	70	157	255
Croatia	0	0	0	102	0
Hungary	0	7	0	0	0
Romania	577	18	17	37	13
Slovakia	86	55	1	1	0
Total	1006	131	147	314	311

Table 203: Exports DR countries to Russian Federation, NSTR5, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	29468	104428	278841	75495	38600
Bulgaria	1995	8048	301906	2542	14333
Croatia	133	147	150	158	98
Hungary	11197	11764	11730	17268	18727
Romania	4406	9321	11796	7196	7371
Slovakia	8351	10808	14558	15260	19671
Total	55550	144516	618981	117919	98800

Table 204: Exports DR countries to Turkey, NSTR5, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	105292	105178	130704	121983	123711
Bulgaria	151890	160722	215460	401065	191660
Croatia	40348	35524	5343	19589	692
Hungary	7577	32788	2537	16765	2186
Romania	685105	615076	501853	274527	415537
Slovakia	77424	157018	106699	57411	52206
Total	1067636	1106306	962596	891340	785992

Table 205: Exports DR countries to Ukraine, NSTR5, 2015 – 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	6643	5207	10031	10533	13542

Bulgaria	6058	9941	10435	13071	17768
Croatia	0	4	31	32	10
Hungary	5092	4989	11522	12437	11977
Romania	15493	9919	12336	11905	10205
Slovakia	58379	65729	61285	58712	73207
Total	91665	95789	105640	106690	126709

From the above it is observed that the most important trade partner for exports of DR countries for Metal products is Turkey with 0.8 mln tonnes in 2019, with Romania and Bulgaria counting for 0.6 mln tonnes per year together.

Ukraine is the second trade partner for exports of DR countries for Metal products, with 127 thousand tonnes per year in 2019, with Slovakia counting for 73 thousand tonnes per year.

Russian Federation is the third trade partner for exports of the DR countries for Metal products, with almost 99 thousand tonnes per year in 2019, with Austria counting for 39 thousand tonnes per year.

Exports to Georgia are less than one thousand tonnes per year.

NSTR 6 CRUDE AND MANUFACTURED MINERALS, BUILDING MATERIALS
Table 206: Exports DR countries to Georgia, NSTR6, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	378	382	690	971	663
Bulgaria	23430	43704	48278	25398	2051
Croatia	0	2	0	11	0
Hungary	2	6	49	33	13
Romania	45	7	12	8	0
Slovakia	15	19	94	100	25
Total	23870	44120	49123	26521	2752

Table 207: Exports DR countries to Russian Federation, NSTR6, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	34683	25294	26066	27435	31801
Bulgaria	28793	3165	2554	4708	6948
Croatia	1927	4890	6942	3947	1275
Hungary	2209	2552	1689	1571	1698
Romania	49	33	756	384	47
Slovakia	20406	20662	32393	33479	25883
Total	88067	56596	70400	71524	67652

Table 208: Exports DR countries to Turkey, NSTR6, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	21945	17888	23789	27366	27914
Bulgaria	371276	395314	420713	387425	481413
Croatia	1678	631	1128	1377	682
Hungary	5601	3005	2552	3951	1263
Romania	1356	1448	223	139	563
Slovakia	6942	5170	4230	7090	7390
Total	408798	423456	452635	427348	519225

Table 209: Exports DR countries to Ukraine, NSTR6, 2015 - 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	6928	36679	18066	20176	17073
Bulgaria	7776	8575	48024	8527	36216
Croatia	238	3857	895	609	364
Hungary	5584	10656	11145	10676	8684
Romania	356698	162010	250453	146068	188364
Slovakia	554967	413396	493055	467766	296269
Total	932191	635173	821638	653822	546970

From the above it is observed that the most important trade partner for exports of DR countries for Crude and manufactured minerals, Building materials is Ukraine with 0.55 mln tonnes in 2019, with Romania and Slovakia counting for 0.45 mln tonnes per year together.

Turkey is the second trade partner for imports of DR countries for Crude and manufactured minerals, Building materials, with 0.52 mln tonnes per year in 2019, with Bulgaria counting for most of it.

Exports to Russia are less than 70 thousand tonnes, and to Georgia are not significant.

NSTR 7 FERTILIZERS
Table 210: Exports DR countries to Georgia, NSTR7, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	0	4	0	6	0
Bulgaria	0	0	12	11	10
Croatia	0	0	0	0	0
Hungary	0	0	0	0	0
Romania	0	0	0	0	0
Slovakia	18	48	47	36	5
Total	18	52	59	53	15

Table 211: Exports DR countries to Russian Federation, NSTR7, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	27	0	0	0	21
Bulgaria	0	4	32	0	18
Croatia	0	0	0	0	0
Hungary	1	0	1	19	0
Romania	0	0	0	0	0
Slovakia	2061	1287	1950	1390	2388
Total	2089	1291	1983	1409	2427

Table 212: Exports DR countries to Turkey, NSTR7, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	2	0	505	12	105
Bulgaria	66820	25258	2183	16577	2380
Croatia	80203	117461	82602	51382	51464
Hungary	60	80	1	63	1
Romania	66147	22	48427	75192	20158
Slovakia	3502	1580	2497	902	960
Total	216734	144401	136215	144128	75068

Table 213: Exports DR countries to Ukraine, NSTR7, 2015 - 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	0	0	55	342	438
Bulgaria	22	5925	21536	39230	228322
Croatia	0	0	0	9600	10135
Hungary	156	223	301	383	606
Romania	44	20	27980	20507	43744
Slovakia	612	177	284	977	329
Total	834	6345	50156	71039	283574

From the above it is observed that the most important trade partner for exports of DR countries for Fertilizers is Ukraine with 0.3 mln tonnes in 2019, with Bulgaria counting for 0.22 mln tonnes per year.

Turkey is the second trade partner for exports of DR countries for Fertilizers, with 75 thousand tonnes per year in 2019.

Exports to Russian Federation and Georgia are not significant.

NSTR 8 CHEMICALS

Table 214: Exports DR countries to Georgia, NSTR8, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	402	514	738	503	840
Bulgaria	14171	114286	15160	6782	4657
Croatia	6	7	8	18	36
Hungary	452	357	535	508	613
Romania	768	852	549	20731	115
Slovakia	324	82	171	165	293
Total	16123	116098	17161	28707	6554

Table 215: Exports DR countries to Russian Federation, NSTR8, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	54513	46247	44503	42433	39541
Bulgaria	16016	10206	8361	10382	53860
Croatia	3152	2737	2993	2520	2592
Hungary	54016	57566	67879	58561	58377
Romania	31330	30331	20803	28788	36493
Slovakia	16067	15883	14393	11212	13580
Total	175094	162970	158932	153896	204443

Table 216: Exports DR countries to Turkey, NSTR8, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	76557	74360	80638	84394	67158
Bulgaria	888134	607556	851215	824890	974084
Croatia	1634	3123	7458	9514	7505
Hungary	109593	104131	100145	91859	107846
Romania	196593	222676	193736	163177	146734
Slovakia	21656	27342	28677	17682	11988
Total	1294167	1039188	1261869	1191516	1315315

Table 217: Exports DR countries to Ukraine, NSTR8, 2015 – 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	18714	24718	24281	26148	27305
Bulgaria	24135	22463	36429	58118	64407
Croatia	576	211	271	362	450
Hungary	122273	106192	104796	113012	103873
Romania	62154	56757	47946	51129	54855
Slovakia	53242	51436	54230	64746	73760
Total	281094	261777	267953	313515	324650

From the above it is observed that the most important trade partner for exports of DR countries for Chemicals is Turkey with 1.3 mln tonnes in 2019, with Bulgaria counting for 1 mln tonnes per year.

Ukraine is the second trade partner for exports of DR countries for Chemicals, with 0.32 mln tonnes per year in 2019, with Hungary counting for 100 thousand tonnes per year.

Exports to Russian Federation counts for 200 thousand tonnes in 2019, and to Georgia are less than one thousand tonnes per year.

NSTR 9 MACHINERY, TRANSPORT EQUIPMENT, MANUFACTURED ARTICLES AND MISCELLANEOUS ARTICLES
Table 218: Exports DR countries to Georgia, NSTR9, 2015 – 2019, tonnes/year

Exports to Georgia					
	2015	2016	2017	2018	2019
Austria	4206	6172	6003	10111	10385
Bulgaria	15795	19639	26666	31338	34705
Croatia	97	110	159	497	513
Hungary	1049	596	690	750	634
Romania	6098	4671	4890	2465	3026
Slovakia	1898	2873	950	1486	1904
Total	29143	34061	39358	46647	51167

Table 219: Exports DR countries to Russian Federation, NSTR9, 2015 – 2019, tonnes/year

Exports to Russian Federation					
	2015	2016	2017	2018	2019
Austria	182982	159325	165553	144547	140227
Bulgaria	31273	43878	33313	30000	31495
Croatia	6165	3094	3654	4012	2572
Hungary	103939	105101	105328	105679	118168
Romania	154116	132868	154258	136130	125392
Slovakia	159442	147542	172714	179077	157395
Total	637917	591808	634820	599445	575249

Table 220: Exports DR countries to Turkey, NSTR9, 2015 – 2019, tonnes/year

Exports to Turkey					
	2015	2016	2017	2018	2019
Austria	250357	257095	259181	240162	202451
Bulgaria	459593	350334	445095	290275	205512
Croatia	4632	6778	11376	7682	7509
Hungary	113414	108389	115247	87097	71732
Romania	498152	379654	368893	234394	240629
Slovakia	109952	138308	101226	91157	87667
Total	1436100	1240558	1301018	950767	815500

Table 221: Exports DR countries to Ukraine, NSTR9, 2015 – 2019, tonnes/year

Exports to Ukraine					
	2015	2016	2017	2018	2019
Austria	49414	70485	91673	102042	116127
Bulgaria	11075	53378	58187	51625	41865
Croatia	534	1164	1308	1517	1668
Hungary	95368	115030	152231	163999	180815
Romania	69321	80160	86853	58375	69640
Slovakia	45707	59816	68424	66436	84320
Total	271419	380033	458676	443994	494435

From the above it is observed that the most important trade partner for exports of DR countries for Manufactured goods is Turkey with 0.82 mln tonnes in 2019, with Romania and Bulgaria counting for 0.44 mln tonnes per year.

Russian Federation is the second trade partner for exports of DR countries for Manufactured goods, with 0.6 mln tonnes per year in 2019, with Slovakia counting for 0.15 mln tonnes per year.

Ukraine is the third trade partner for exports of the DR countries for Manufactured goods, with almost 0.5 mln tonnes per year in 2019, with Austria counting for 116 thousand tonnes per year.

Exports to Georgia are less than 60 thousand tonnes per year.