STAATSMINISTERIUM FÜR WIRTSCHAFT ARBEIT UND VERKEHR



# Location of Saxony

in comparison with other regions 2018



# FUTURE.

# Foreword

#### Saxony's economy is booming

Dear Ladies and Gentlemen,

The development of a state sometimes resembles a marathon. After the German reunification the Free State of Saxony started out as a "newcomer" with great ambitions, overtook some and slowed down or accelerated now and then and defied adverse influences. The view is forward and with every step we take we are getting closer to our goal – a great future for all people living here.

We can be proud of what we have achieved so far:

Between 2010 and 2017 Saxony's economic power grew at an above-average rate of 13.8 percent. The gross domestic product per inhabitant has almost quadrupled since 1991. Products "Made in Saxony" have been in demand worldwide for years. In 2017 we exported goods worth 41.3 billion euros, more than ever!

What makes me specially happy is an annual average unemployment rate of 6.7 percent being the lowest since its recording and it continues to improve in terms of trend. Back in 2005 it used to be 18.3 percent.

Saxony is the place where the renowned Helmholtz, Leibniz, Fraunhofer and Max Planck Institutes do research in cutting-edge technologies for the future.

Premium products are supplied by Saxon companies not only in the fields of microelectronics, automotive industry and mechanical engineering. The craft sector, tourism and service providers form the foundation of small and medium-sized companies being competitive beyond regional borders. In addition, a large number of world-renowned corporations is investing here. To ensure that they continue to find the excellent specialists typical for Saxony, we are going to develop together with all stakeholders a new specialists strategy for Saxony. It will include, for example, a sustainable career guidance tuned to real-world needs, a more attractive dual training or qualification and advanced training.

Come and join us on our path to a future full of new challenges and opportunities.

Yours

Martin Dulig Saxon State Minister for Economic Affairs, Labour and Transport



Martin Dulig



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#### 1. Basic facts at a glance

# Prosperity and disposable incomes on the rise

With a gross domestic product (GDP) weighted based on to the purchasing power of 27,500 euros per inhabitant the Free State of Saxony has now reached 94 percent of the EU average thus ranking ahead of all Central and Eastern European countries. The region of Leipzig has even reached the EU average. Neighboring Poland and the Czech Republic clearly lag behind at 68 percent and 88 percent respectively.

## Employment rising, unemployment rate declining again

In 2017 the unemployment rate in Saxony was for the seventh year in a row below the EU average. Since 2010 it has dropped from 11.8 to 6.7 percent in 2017. In the new federal states it just fell from 12.0 to 7.6 percent.

## Strong sector of small and medium-sized businesses

Craft businesses of about 56,800 companies play a major part in the different sectors, such as the manufacturing industry, building industry as well as trade and services. The density of craft businesses is exceptionally high in Saxony: 13.9 businesses per 1,000 inhabitants is clearly above the German average counting 12.1 businesses per 1,000 inhabitants and thus ranking fourth among all federal states.

# Saxony's exports exceeded the threshold of 40 billion euros in 2017

Since 2010 the exports have risen by about two thirds. In 2017 they came up to 41.3 billion euros which is by far the highest amount for Saxony and 13 percent higher than the year before. As a result the share of exports in the GDP has risen to 34 percent.

With 6 billion euros China has remained by far number one among the buyer countries before the USA with 4.2 billion euros.

The imports, too, reached a record high of about 42 percent above the figure of 2010.

The trade with Saxony's direct neighbors has contributed much to the current development. The Czech Republic is by far number one when it comes to imports of about 4.6 billion followed by Poland. The exports to these two countries rank fifth and sixth respectively among major buyer countries together coming up to about 4 billion euros.

## Top-performing Saxon research and development

R&D are key factor for the further development of Saxony. The share of R&D expenditure in the GDP has increased by 12 percent between 2000 and 2016.

#### Modern and efficient infrastructure

A good transport infrastructure provides a major prerequisite for the mobility of people and transport of goods. The road density is clearly above the national average both in terms of area and the number of inhabitants.

When it comes to transport by air the volume of 2017 has also risen compared to the previous year. The goods transported by air in the new federal states fall almost completely on Saxony and in relation to Germany it reaches about 23 percent.

# High level of investments and declining debt of the state budget.

Sound public finances are both a mirror of economic strength and an essential prerequisite for good prospects of a business location.

In 2017 the Free State spent again a much higher share of the budgetary resources for investments than the other federal states. The investment ratio was 14.8 percent, the new non-city states (excluding Saxony) reached 11.1 percent. whereas the old non-city states invested not more than 8.2 percent of their funds.

Compared to other federal states Saxony has an outstandingly low level of debt thus setting the right course for the future: a sound financial management avoiding new debts to create leeway for current and future investments.

### 2. The Free State of Saxony at a glance

|  | Saxony              | Germany              |
|--|---------------------|----------------------|
| Population as of 31 December 2017 (1,000 persons)                                  | 4,081.3             | 82,792.4             |
| Area (km²)   | 18,450.0            | 357,385.7            |
| Population density (inhabitants per km <sup>2</sup> )                              | 221                 | 232                  |
| Gross domestic product 2017  |                     |                      |
| Billion euro   | 121.7               | 3,263.4              |
| % to prior year (adjusted for price)   | 1.4                 | 2.2                  |
| Index (2010 = 100, adjusted for price, chained)                                    | 113.8               | 113.1                |
| Euro/inhabitant  | 29,856              | 39,477               |
| D=100  | 75.6                | 100                  |
| Euro/gainfully employed person   | 59,262              | 73,680               |
| D=100  | 80.4                | 100                  |
| Gainfully employed persons 2017 (1,000 persons)                                    | 2,056.4             | 44,269.0             |
| % to prior year  | 1.1                 | 1.4                  |
| Unemployed persons 2017  |                     |                      |
| Unemployment rate (% of all civil labour force)                                    | 6.7                 | 5.7                  |
| Share in gross value added 2017 (%)  |                     |                      |
| Manufacturing sector   | 20.3                | 22.9                 |
| D=100  | 88.6                | 100                  |
| Building sector  | 7.2                 | 4.9                  |
| D=100  | 146.9               | 100                  |
| Mining and manufacturing sector 2017   |                     |                      |
| (Operations of enterprises with 20 or more employees)                              |                     |                      |
| Persons employed (1,000)   | 282                 | 6,275                |
| Change to prior year (%)   | 1.6                 | 1.7                  |
| Sales (billion euro)   | 67.4                | 1,902.8              |
| Change to prior year (%)   | 5.6                 | 5.7                  |
| Export ratio (foreign/total sales)   | 37.3                | 48.2                 |
| D=100  | 77.4                | 100                  |
| Industrial density as of 30 June 2017  |                     |                      |
| Employees liable to contribute soc. security in manuf. sect. per 1,000 inhabitants | 76.8                | 82.2                 |
| D=100  | 93.4                | 100                  |
| Foreign trade 2017   |                     |                      |
| Export (million euro)  | 41,257.4            | 1,278,958.2          |
| thereof:   |                     | 1 - 1                |
| EU-28 in %   | 50.1                | 58.6                 |
| Import (million euro)  | 24,038.0            | 1,031,012.7          |
| thereof:   |                     |                      |
| EU-28 in %   | 66.7                | 56.8                 |
| Share of export in GDP (%)   | 33.9                | 39.2                 |
| Small and medium-sized businesses  |                     |                      |
| Self-employed in 2017 (annual average)   | 206,500             | 4,246,000            |
| Self-employed % of working population  | 10.5                | 10.2                 |
| D=100  | 102.9               | 1002                 |
| Craft businesses as of 31 December 2017  | 56,800              | 999,954              |
| D=100  | 5.7                 | 100                  |
| Businesses per 1,000 inhabitants   | 13.9                | 100                  |
| Number of cars to 1 January 2018   | 15.0                | 12.1                 |
| as 1,000   | 2,135.9             | 46,474.6             |
| per 1,000 inhabitants  | 523                 |                      |
| Registration of brand new cars 2017  | 525                 | 501                  |
| as 1,000   | 124.0               | 2 4 4 1 2            |
| ·  | 124.0               | 3,441.3              |
| per 1,000 inhabitants  | 30                  | 42                   |
| Level of multification of mention non-dation 2017 (01)                             |                     |                      |
| Level of qualification of working population 2017 (%)                              | 10                  | A 7 A                |
| With no formal vocational qualification  | 4.2                 | 17.1                 |
|  | 4.2<br>55.7<br>15.7 | 17.1<br>50.1<br>10.2 |

Source: German Federal Office of Statistics, Statistical Office of Saxony, "Regional Accounts of the Federal States" working group (as of March 2018), Employment Statistics of the Federal States working group (as of October 2018), Federal Employment Agency, own calculations

#### 3. Saxony's position in Europe<sup>1</sup>

|                |                       |                             |   | Unemplo | yment rate <sup>3</sup> | Gr    | oss domestic prod   | luct                                       |
|----------------|-----------------------|-----------------------------|---|---------|-------------------------|-------|---------------------|--|
|                | Area<br>2015          | Population<br>01/01/2017    | Employment<br>rate <sup>2</sup><br>2017 | 2017    | Change to<br>prior year |       | itant (PPS)<br>016⁴ | Growth<br>2017/2016<br>(adj. for<br>price) |
|                | 1,000 km <sup>2</sup> | million                     | Q                                       | /o      | %-points                | 1,000 | EU 28 = 100         | %  |
| Saxony         | 18.5                  | 4.1                         | 77.5                                    | 4.4     | -0.6                    | 27.5  | 94                  | 1.4  |
| Germany        | 357.6                 | 82.5                        | 75.2                                    | 3.8     | -0.3                    | 36.0  | 124                 | 2.2  |
| France         | 638.5                 | 67.0 <sup>5</sup>           | 64.7                                    | 9.4     | -0.7                    | 30.4  | 104                 | 2.25                                       |
| United Kingdom | 248.5                 | 65.8                        | 74.1                                    | 4.4     | -0.4                    | 31.4  | 108                 | 1.7  |
| Italy          | 302.1                 | 60.6                        | 58.0                                    | 11.2    | -0.5                    | 28.2  | 97                  | 1.5  |
| Spain          | 506.0                 | 46.5                        | 61.1                                    | 17.2    | -2.4                    | 26.7  | 92                  | 3.05                                       |
| Netherlands    | 37.4                  | 17.1                        | 75.8                                    | 4.9     | -1.1                    | 37.2  | 128                 | 2.95                                       |
| Greece         | 131.7                 | 10.8                        | 53.5                                    | 21.5    | -2.1                    | 19.7  | 68                  | 1.45                                       |
| Belgium        | 30.7                  | 11.4                        | 63.1                                    | 7.1     | -0.7                    | 34.3  | 118                 | 1.7  |
| Portugal       | 92.2                  | 10.3                        | 67.8                                    | 9.0     | -2.2                    | 22.5  | 77                  | 2.7 <sup>6</sup>                           |
| Sweden         | 447.4                 | 10.0                        | 76.9                                    | 6.7     | -0.2                    | 36.0  | 123                 | 2.1  |
| Austria        | 83.9                  | 8.8                         | 72.2                                    | 5.5     | -0.5                    | 37.2  | 127                 | 3.0  |
| Denmark        | 42.9                  | 5.7                         | 74.2                                    | 5.7     | -0.5                    | 36.1  | 124                 | 2.3  |
| Finland        | 338.4                 | 5.5                         | 70.0                                    | 8.6     | -0.2                    | 31.9  | 109                 | 2.8  |
| Ireland        | 69.9                  | 4.8                         | 67.7                                    | 6.7     | -1.7                    | 53.3  | 183                 | 7.2  |
| Luxembourg     | 2.6                   | 0.6                         | 66.3                                    | 5.6     | -0.7                    | 75.1  | 257                 | 2.3  |
| Poland         | 311.9                 | 38.0                        | 66.1                                    | 4.9     | - 1.3                   | 19.9  | 68                  | 4.6  |
| Czech Republic | 78.9                  | 10.6                        | 73.6                                    | 2.9     | - 1.1                   | 25.6  | 88                  | 4.3  |
| Hungary        | 93.0                  | 9.8                         | 68.2                                    | 4.2     | -0.9                    | 19.7  | 67                  | 4.0  |
| Slovakia       | 49.0                  | 5.4                         | 66.2                                    | 8.1     | -1.6                    | 22.4  | 77                  | 3.4  |
| Lithuania      | 65.3                  | 2.8                         | 70.4                                    | 7.1     | -0.8                    | 22.0  | 75                  | 3.8  |
| Latvia         | 64.6                  | 2.0                         | 70.1                                    | 8.7     | -0.9                    | 18.8  | 65                  | 4.5  |
| Slovenia       | 20.3                  | 2.1                         | 69.3                                    | 6.6     | -1.4                    | 24.1  | 83                  | 4.9  |
| Estonia        | 45.3                  | 1.3                         | 74.1                                    | 5.8     | -1.0                    | 21.9  | 75                  | 4.9  |
| Cyprus         | 9.3                   | 0.9                         | 65.5                                    | 11.1    | -1.9                    | 24.1  | 83                  | 4.25                                       |
| Malta          | 0.3                   | 0.56                        | 67.4                                    | 4.6     | -0.6                    | 27.9  | 96                  | 6.7  |
| Bulgaria       | 111.0                 | 7.1                         | 66.9                                    | 6.2     | -1.4                    | 14.2  | 49                  | 3.65                                       |
| Romania        | 238.4                 | 19.66                       | 63.9                                    | 4.9     | - 1.0                   | 17.0  | 58                  | 6.95                                       |
| Croatia        | 56.6                  | 4.2                         | 58.9                                    | 11.1    | -2.3                    | 17.5  | 60                  | 2.9  |
| EU-28          | 4,554.9               | 511 <b>.</b> 5 <sup>5</sup> | 67.6                                    | 7.6     | -1.0                    | 29.2  | 100                 | 2.4  |

<sup>1</sup> data standardized for international comparison and may therefore deviate from national figures <sup>2</sup> working population aged between 15 and 64 related to the population of the same age <sup>3</sup> unemployment rates based on definitions recommended by the International Labour Organisation unemployed as percentage of labour force (working population and unemployed) from the age of 15 <sup>4</sup> as of April 2018, PPS = Purchasing Power Standard

<sup>5</sup> preliminary figure <sup>6</sup> estimated

Deviations as to sums due to rounding Source: Eurostat

#### 4. Gross domestic product per inhabitant 1991, 2000, 2010 and 2017 (euro)



Source: "Regional Accounts of the Federal States" working group (as of June 2018)

# 5. Economic power of Saxony and Germany as compared to the neighbouring regions (NUTS 1 and NUTS 2 regions) 2016



Gross domestic product per inhabitant<sup>1</sup> (EU-28 = 100)

<sup>1</sup>Purchasing Power Standard (PPS) Source: Eurostat (as of April 2018)

#### 6. Employment rates<sup>1</sup> of EU member states and German federal states 2017 (%) Labour force, total

|   | Regions                       | Employment rate <sup>1</sup> |    | Regions                | Employment rate <sup>1</sup> |
|---|-------------------------------|------------------------------|----|------------------------|------------------------------|
| 1 | Sweden                        | 82.5                         | 9  | Austria                | 76.4                         |
|   | Dresden                       | 81.6                         |    | Saarland               | 76.0                         |
|   | Chemnitz                      | 81.2                         | 10 | Lithuania              | 75.9                         |
|   | Saxony                        | 81.2                         | 10 | Czech Republic         | 75.9                         |
|   | Bavaria                       | 80.6                         |    | North Rhine-Westphalia | 75.1                         |
|   | Brandenburg                   | 80.5                         |    | Bremen                 | 74.9                         |
|   | Leipzig                       | 80.5                         | 12 | Portugal               | 74.7                         |
|   | <br>Thuringia                 | 80.2                         | 13 | Slovenia               | 74.2                         |
|   | Baden-Württemberg             | 80.1                         | 14 | Spain                  | 73.9                         |
|   | Hamburg                       | 79.8                         | 14 | Cyprus                 | 73.9                         |
| 2 | Netherlands                   | 79.7                         |    | EU-28                  | 73.3                         |
|   | Saxony-Anhalt                 | 79.4                         | 16 | Ireland                | 72.6                         |
| 3 | Denmark                       | 78.8                         | 17 | Slovakia               | 72.1                         |
| 3 | Estonia                       | 78.8                         | 18 | France                 | 71.5                         |
|   | Berlin                        | 78.3                         | 19 | Bulgaria               | 71.3                         |
| 5 | Germany                       | 78.2                         | 20 | Hungary                | 71.2                         |
|   | Schleswig-Holstein            | 78,0                         | 21 | Malta                  | 70.7                         |
| 6 | United Kingdom                | 77.6                         | 22 | Luxembourg             | 70.2                         |
|   | Hesse                         | 77.5                         | 23 | Poland                 | 69.6                         |
|   | Mecklenburg-Western Pomerania | 77.5                         | 24 | Greece                 | 68.3                         |
|   | Rhineland-Palatinate          | 77.4                         | 25 | Belgium                | 68.0                         |
|   | Lower Saxony                  | 77.3                         | 26 | Romania                | 67.3                         |
| 7 | Latvia                        | 77.0                         | 27 | Croatia                | 66.4                         |
| 8 | Finland                       | 76.7                         | 28 | Italy                  | 65.4                         |

<sup>1</sup> labour force (employed and unemployed) aged between 15 and 64 related to the population of the same age Source: Eurostat (as of August 2018)

### **7.** Development of employees subject to social insurance contributions by federal states Change 30 June 2018 as against 30 June 2010 (%)



Source: Federal Employment Agency (preliminary results, employees subject to social insurance contributions at place of work, as of September 2018), own calculations

#### 8. Unemployment rates<sup>1</sup> (%)



<sup>1</sup> % unemployed of all civil labour force, annual average Source: Federal Employment Agency



### 9. Unemployment rates<sup>1</sup> in Saxony, Poland and the Czech Republic 2017 (%)

<sup>1</sup> % unemployed of labour force (employed and unemployed), 15 years and older; with bordering regions of neighbouring states. Definition of unemployment rates is based on definitions that are in keeping with the recommendations by the International Labour Organisation (ILO), therefore the unemployment rates determined on national level may vary. Source: Eurostat (as of August 2018)



#### 10. Gross value added in Saxony for selected business sectors (million euro)

Source: "Regional Accounts of Federal States" working group (as of March 2018)





Source: "Regional Accounts of the Federal States" working group (as of March 2018)

# 12. Overnight stays of foreign guests in lodging establishments and at camping sites<sup>1</sup> in Germany 2017

|  | Overnight stays of foreign guests |                       |  |  |
|--|-----------------------------------|-----------------------|--|--|
|  | 1 000                             | Changes to prior year | Share in total number of overnight stays of foreign guests |  |
|  | 1,000                             | %                     | %  |  |
| Bavaria                                | 19,126                            | 8.9                   | 22.8   |  |
| Berlin                                 | 13,985                            | -1.4                  | 16.7   |  |
| Baden-Württemberg                      | 11,398                            | 1.7                   | 13.6   |  |
| North Rhine-Westphalia                 | 10,992                            | 5.5                   | 13.1   |  |
| Hesse                                  | 7,673                             | 5.4                   | 9.1  |  |
| Rhineland-Palatinate                   | 5,240                             | -0.9                  | 6.2  |  |
| Lower Saxony                           | 3,769                             | 2.0                   | 4.5  |  |
| Hamburg                                | 3,447                             | 5.1                   | 4.1  |  |
| Saxony                                 | 2,058                             | 8.8                   | 2.5  |  |
| Schleswig-Holstein                     | 2,012                             | 3.5                   | 2.4  |  |
| Mecklenburg-Western Pomerania          | 998                               | -3.5                  | 1.2  |  |
| Brandenburg                            | 962                               | -0.8                  | 1.1  |  |
| Saxony-Anhalt                          | 635                               | 14.1                  | 0.8  |  |
| Thuringia                              | 622                               | 7.1                   | 0.7  |  |
| Bremen                                 | 494                               | 1.7                   | 0.6  |  |
| Saarland                               | 463                               | -1.1                  | 0.6  |  |
| New German federal states incl. Berlin | 19,260                            | 0.2                   | 23.0   |  |
| Old German federal states excl. Berlin | 64,615                            | 4.8                   | 77.0   |  |
| Germany                                | 83,875                            | 3.7                   | 100.0  |  |

<sup>1</sup> lodging establishments of minimum 10 beds and camping sites of minimum 10 pitches Source: German Federal Office of Statistics (as of August 2018), own calculations

#### 13. Craft businesses 2017

|  | Craft businesses existing on 31 December 2017 (annex A, A simple activities, B1 and B2) |   |                      |  |
|--|---|---|----------------------|--|
|  | Number  | Businesses per 1,000 inhabitants <sup>1</sup> | Share in Germany (%) |  |
| Baden-Württemberg                      | 132,721   | 12.0  | 13.3                 |  |
| Bavaria                                | 203,100   | 15.6  | 20.3                 |  |
| Berlin                                 | 29,578  | 8.2   | 3.0                  |  |
| Brandenburg                            | 38,905  | 15.5  | 3.9                  |  |
| Bremen                                 | 5,247   | 7.7   | 0.5                  |  |
| Hamburg                                | 14,916  | 8.1   | 1.5                  |  |
| Hesse                                  | 74,275  | 11.9  | 7.4                  |  |
| Mecklenburg-Western Pomerania          | 19,962  | 12.4  | 2.0                  |  |
| Lower Saxony                           | 82,751  | 10.4  | 8.3                  |  |
| North Rhine-Westphalia                 | 190,013   | 10.6  | 19.0                 |  |
| Rhineland-Palatinate                   | 51,631  | 12.7  | 5.2                  |  |
| Saarland                               | 11,998  | 12.1  | 1.2                  |  |
| Saxony                                 | 56,800  | 13.9  | 5.7                  |  |
| Saxony-Anhalt                          | 26,551  | 11.9  | 2.7                  |  |
| Schleswig-Holstein                     | 31,344  | 10.8  | 3.1                  |  |
| Thuringia                              | 30,162  | 14.0  | 3.0                  |  |
| New German federal states incl. Berlin | 201,958   | 12.5  | 20.2                 |  |
| Old German federal states excl. Berlin | 797,996   | 12.0  | 79.8                 |  |
| Germany                                | 999,954   | 12.1  | 100.0                |  |

<sup>1</sup> inhabitants as of 31 December 2017

Source: German Confederation of Skilled Crafts, German Federal Office of Statistics, own calculations

### 14. Human resources in science and technology $(HRST)^1$ in EU member states and for Germany in the NUTS 2 regions 2017

|    | Regions                | % of working population |
|----|------------------------|-------------------------|
|    | Berlin                 | 58.5                    |
|    | Hamburg                | 55.5                    |
| 1  | Luxembourg             | 55.4                    |
|    | Upper Bavaria          | 55.3                    |
| 2  | Sweden                 | 54.4                    |
| 3  | United Kingdom         | 53.7                    |
| 4  | Belgium                | 52.6                    |
| 5  | Finland                | 52.4                    |
| 6  | Ireland                | 52.2                    |
|    | Darmstadt              | 51.3                    |
|    | Cologne                | 51.1                    |
| 7  | Denmark                | 50.1                    |
| 8  | Netherlands            | 49.9                    |
| 9  | Cyprus                 | 49.7                    |
|    | Hesse                  | 49.6                    |
| 10 | France                 | 49.2                    |
|    | Leipzig                | 49.0                    |
|    | Stuttgart              | 48.8                    |
|    | Karlsruhe              | 48.7                    |
|    | Dresden                | 48.5                    |
| 11 | Estonia                | 48.4                    |
| 12 | Austria                | 48.2                    |
| 13 | Lithuania              | 47.9                    |
|    | Baden-Württemberg      | 47.8                    |
|    | Bavaria                | 47.8                    |
|    | Middle Franconia       | 47.7                    |
|    | Bremen                 | 47.6                    |
|    | Giessen                | 47.5                    |
|    | Tübingen               | 47.3                    |
| 14 | Germany                | 46.9                    |
|    | Rhinehesse-Palatinate  | 46.9                    |
|    | Düsseldorf             | 46.4                    |
|    | Brandenburg            | 46.3                    |
|    | Saxony                 | 46.1                    |
|    | Braunschweig           | 46.0                    |
|    | North Rhine-Westphalia | 46.0                    |
| _  | Kassel                 | 45.5                    |

|    | Regions              | % of working population |
|----|----------------------|-------------------------|
|    | Freiburg             | 45.4                    |
|    | Rhineland-Palatinate | 45.4                    |
| 15 | Slovenia             | 45.4                    |
|    | Hanover              | 45.1                    |
|    | Schleswig-Holstein   | 44.9                    |
|    | Trier                | 44.9                    |
|    | EU-28                | 44.8                    |
|    | Lower Franconia      | 44.5                    |
|    | Münster              | 43.7                    |
|    | Koblenz              | 43.5                    |
|    | Saarland             | 43.5                    |
|    | Lüneburg             | 43.4                    |
| 16 | Latvia               | 43.3                    |
|    | Upper Franconia      | 43.3                    |
| 17 | Spain                | 43.2                    |
|    | Arnsberg             | 43.0                    |
|    | Swabia               | 42.8                    |
|    | Lower Saxony         | 42.7                    |
|    | Thuringia            | 42.6                    |
| 18 | Poland               | 42.3                    |
|    | MecklW. Pomerania    | 42.2                    |
|    | Detmold              | 41.6                    |
| 19 | Malta                | 41.4                    |
|    | Upper Palatinate     | 41.4                    |
|    | Chemnitz             | 41.2                    |
|    | Saxony-Anhalt        | 41.0                    |
|    | Lower Bavaria        | 39.3                    |
| 20 | Czech Republic       | 38.8                    |
|    | Weser-Ems            | 38.2                    |
| 21 | Greece               | 37.3                    |
| 22 | Croatia              | 36.0                    |
| 23 | Bulgaria             | 35.6                    |
| 24 | Hungary              | 35.3                    |
| 25 | Italy                | 35.0                    |
| 26 | Portugal             | 34.7                    |
| 27 | Slovakia             | 34.1                    |
| 28 | Romania              | 25.8                    |

<sup>1</sup> persons working in a science and technology occupation and/or who have completed a scientific study. HRST as share in working population aged between 15 and 74 Source: Eurostat (as of October 2018)

#### 15. Share of R&D expenditure in GDP (%)



left bar Saxony, right bar Germany Source: German Federal Office of Statistics

#### **16. Patent applications per 100,000 inhabitants** Change 2017 against 2007 (%)



Source: German Patent and Trademark Office, own calculations

#### 17. Road network length and density as of 01 January 2018

|                   | Road netw | Road network length<br>km |         | Road network density         |         |                            |  |
|-------------------|-----------|---------------------------|---------|------------------------------|---------|----------------------------|--|
|                   | k         |                           |         | km per 1,000 km <sup>2</sup> |         | ) inhabitants <sup>1</sup> |  |
|                   | Germany   | Saxony                    | Germany | Saxony                       | Germany | Saxony                     |  |
| Federal motorways | 13,009    | 567                       | 36      | 31                           | 0.16    | 0.14                       |  |
| Federal roads     | 38,018    | 2,311                     | 106     | 125                          | 0.46    | 0.57                       |  |
| State roads       | 86,964    | 4,793                     | 243     | 260                          | 1.05    | 1.17                       |  |
| District roads    | 91,912    | 5,756                     | 257     | 312                          | 1.11    | 1.41                       |  |
| Total             | 229,903   | 13,427                    | 643     | 728                          | 2.78    | 3.29                       |  |

<sup>1</sup> inhabitants as of 31 December 2017

Source: German Federal Office of Statistics, Statistical Office of the Free State of Saxony, own calculations

| The length of the Federal motorways network in Saxony comprises the following sections: |                             |          |  |  |
|---|-----------------------------|----------|--|--|
| A 4   | Aachen – Görlitz            | 211.1 km |  |  |
| A 9   | Berlin – Munich             | 20.4 km  |  |  |
| A 13  | Berlin – Dresden            | 26.4 km  |  |  |
| A 14  | Magdeburg – Dresden         | 98.5 km  |  |  |
| A 17  | Dresden – Praha             | 44.6 km  |  |  |
| A 38  | Göttingen – Halle / Leipzig | 38.2 km  |  |  |
| A 72  | Hof-Leipzig                 | 126.6 km |  |  |

Source: Saxon State Ministry for Economic Affairs, Labour and Transport

#### 18. Gross electricity generation by energy carriers 2016<sup>1</sup> in billion kWh (%)



<sup>1</sup> preliminary data, as of February 2018 <sup>2</sup> without natural supply

Source: AG Energiebilanzen, Statistical Office of the Free State of Saxony

### 19. Foreign trade of Saxony

|      | Export       |                           | Import       |                           |
|------|--------------|---------------------------|--------------|---------------------------|
|      | million euro | Change to prior year<br>% | million euro | Change to prior year<br>% |
| 1991 | 2,581.6      | -                         | 2,086.8      | -                         |
| 1992 | 2,587.2      | 0.2                       | 2,641.2      | 26.6                      |
| 1993 | 2,721.9      | 5.2                       | 2,648.9      | 0.3                       |
| 1994 | 3,099.3      | 13.9                      | 3,319.4      | 25.3                      |
| 1995 | 3,645.9      | 17.6                      | 3,858.2      | 16.2                      |
| 1996 | 3,804.6      | 4.4                       | 4,315.4      | 11.9                      |
| 1997 | 5,376.3      | 41.3                      | 4,865.1      | 12.7                      |
| 1998 | 7,873.7      | 46.5                      | 5,785.0      | 18.9                      |
| 1999 | 8,876.7      | 12.7                      | 5,823.7      | 0.7                       |
| 2000 | 10,425.4     | 17.4                      | 7,327.2      | 25.8                      |
| 2001 | 13,209.1     | 26.7                      | 8,046.1      | 9.8                       |
| 2002 | 13,931.7     | 5.5                       | 8,309.3      | 3.3                       |
| 2003 | 15,143.9     | 8.7                       | 9,002.3      | 8.3                       |
| 2004 | 16,259.6     | 7.4                       | 9,732.2      | 8.1                       |
| 2005 | 17,696.2     | 8.8                       | 10,623.5     | 9.2                       |
| 2006 | 19,589.9     | 10.7                      | 13,746.9     | 29.4                      |
| 2007 | 23,432.6     | 19.6                      | 14,856.3     | 8.1                       |
| 2008 | 23,200.0     | -1.0                      | 15,388.8     | 3.6                       |
| 2009 | 19,501.1     | -15.9                     | 13,605.3     | -11.6                     |
| 2010 | 24,743.4     | 26.9                      | 16,902.7     | 24.2                      |
| 2011 | 29,408.4     | 18.9                      | 20,252.9     | 19.8                      |
| 2012 | 31,827.7     | 8.2                       | 19,477.9     | -3.8                      |
| 2013 | 31,430.3     | -1.2                      | 18,988.8     | -2.5                      |
| 2014 | 35,907.1     | 14.2                      | 20,616.0     | 8.6                       |
| 2015 | 38,349.8     | 6.8                       | 22,115.1     | 7.3                       |
| 2016 | 36,662.8     | -4.4                      | 21,938.6     | -0.8                      |
| 2017 | 41,257.4     | 12.5                      | 24,038.0     | 9.6                       |

|      | Major foreign trade partners |                |  |
|------|------------------------------|----------------|--|
|      | Export                       | Import         |  |
|      | China                        | Czech Republic |  |
|      | USA                          | Poland         |  |
| 2017 | United Kingdom               | USA            |  |
|      | France                       | China          |  |
|      | Czech Republic               | Netherlands    |  |

|  |              | Share of export                                      |             |  |
|--|--------------|--|-------------|--|
|  | million euro | New German federal states<br>excl. Berlin = 100<br>% | in GDP<br>% |  |
| New German federal states excl. Berlin | 91,775.7     | 100  | 25.8        |  |
| thereof:                               |              |  |             |  |
| Saxony                                 | 41,257.4     | 45.0   | 33.9        |  |
| Saxony-Anhalt                          | 15,490.1     | 16.9   | 25.5        |  |
| Thuringia                              | 15,157.7     | 16.5   | 24.5        |  |
| Brandenburg                            | 12,655.4     | 13.8   | 18.3        |  |
| Mecklenburg-Western Pomerania          | 7,215.1      | 7.9  | 16.9        |  |

Source: German Federal Office of Statistics, "Regional Accounts of the Federal States" working group (as of March 2018), own calculations



#### 20. Major buyer and supplier countries of Saxony 2017 (million euro)

Quelle: Federal Statistical Office

### 21. Exports by commodity groups 2017 (%)



Source: German Federal Office of Statistics, own calculations

#### 22. Air transport 2017

|  | Persons transported <sup>1</sup> |                        | Goods transported <sup>1</sup> |                      |
|--|----------------------------------|------------------------|--------------------------------|----------------------|
|  | Embarking<br>number              | Disembarking<br>number | Loading<br>1,000 t             | Unloading<br>1,000 t |
| Baden-Württemberg                      | 6,328,998                        | 6,305,460              | 21                             | 17                   |
| Bavaria                                | 24,855,028                       | 25,017,368             | 221                            | 164                  |
| Berlin                                 | 10,181,375                       | 10,269,607             | 26                             | 19                   |
| Brandenburg                            | 6,411,669                        | 6,443,678              | 4                              | 4                    |
| Bremen                                 | 1,265,318                        | 1,270,023              | 0                              | 0                    |
| Hamburg                                | 8,777,890                        | 8,813,605              | 20                             | 17                   |
| Hesse                                  | 32,017,607                       | 32,372,608             | 1,141                          | 1,053                |
| Mecklenburg-Western Pomerania          | 130,050                          | 134,174                | 0                              | -                    |
| Lower Saxony                           | 2,908,244                        | 2,945,799              | 9                              | 8                    |
| North Rhine-Westphalia                 | 21,232,081                       | 21,301,124             | 482                            | 443                  |
| Rhineland-Palatinate                   | 1,172,604                        | 1,185,819              | 63                             | 48                   |
| Saarland                               | 187,016                          | 186,188                | 0                              | 0                    |
| Saxony                                 | 2,017,809                        | 2,033,119              | 585                            | 546                  |
| Saxony-Anhalt                          | -                                | -                      | -                              | -                    |
| Schleswig-Holstein                     | -                                | -                      | -                              | -                    |
| Thuringia                              | 137,189                          | 137,741                | 1                              | 1                    |
| New German federal states incl. Berlin | 18,878,092                       | 19,018,319             | 616                            | 570                  |
| Old German federal states excl. Berlin | 98,744,786                       | 99,397,994             | 1,957                          | 1,750                |
| Germany                                | 117,622,878                      | 118,416,313            | 2,572                          | 2,319                |

<sup>1</sup> without transit traffic, deviations in sums due to rounding Source: Federal and state offices of statistics



#### 23. Investment rates of the old and new non-city states (excluding Saxony) and Saxony (%)<sup>1</sup>

<sup>1</sup> rates as proportions of the adjusted figures (federal states budgets)

Source: German Federal Office of Statistics, Saxon State Ministry of Finance (figures for Saxony)





Euro per inhabitant<sup>2</sup>

Saxony-Anhalt 168 906 2,665 5,154 7,740 8,761 9,044 9,103 9,068 9,169 8,987 9,131 9,416 Thuringia 266 637 2,393 4,460 6,418 7,243 7,459 7,437 7,337 7,280 7,222 6,974 7,284 Brandenburg 153 974 3,251 4,921 6,607 7,081 7,299 7,330 7,032 6,820 6,774 6,552 6,374 Mecklenburg-Western Pomerania 124 405 2,184 4,200 5,956 6,005 5,976 5,937 5,867 5,777 5,392 5,116 6.291 Saxony 325 734 1,654 2,317 2,849 2,847 2,898 2,844 2,829 2,807 2,782 2,709 2,692

<sup>1</sup> debts from credit market funds and with public budgets of core budgets of states (Saxony: budget-related debt level)

<sup>2</sup> inhabitants as of 30 June of the relevant year

Source: German Federal Office of Statistics, Saxon State Ministry of Finance



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