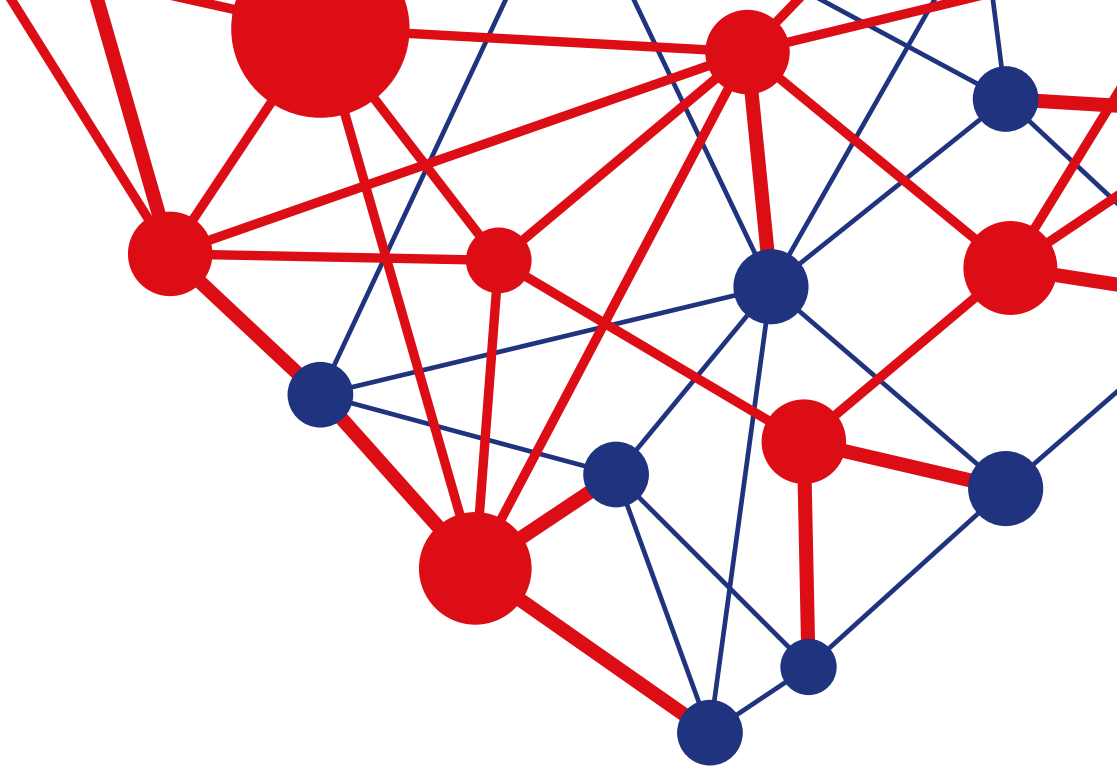




Innovation in the heart
Central Bohemia Region



**Atlas
of Innovation
Environment
Central Bohemia Region**



Innovations connect us

It is a common idea, a philosophy, a way of life. For scientists, students, entrepreneurs, mayors and enthusiastic citizens of the Central Bohemia.

For all who want to search for new ways and novel solutions. The “Innovation in the heart” project aims at bringing successful innovations to businesses, research institutions and, most importantly, to the public at large. It seeks to facilitate cooperation and to inform about the best use of C. B.’s innovative potential.

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CENTRAL BOHEMIAN
INNOVATION
CENTER

We are the most fundamental instrument of the Central Bohemia Region in supporting innovations. Through the employment of new technologies, services and information, we strive to improve life across the region. We take on active part in improving the environment.

OUR PARTNERS:

- Municipalities and towns
- Companies
- Science and technology research institutions

We are a team of experts who map out, analyze and design tailor-made services, projects and programs, ranging from consulting services to networking to administrative support for grant and subsidy programs. We have long experience in seeking innovation and investment opportunities. We focus on education in science and technology. We support creative industries.

MEMBERS AND FOUNDING MEMBERS:

- Central Bohemia Region
- Institute of Physics of the Czech Academy of Sciences
- Astronomical Institute of the Czech Academy of Sciences
- Research Institute of Geodesy, Topography and Cartography
- Czech Technical University in Prague

Central Bohemia Region



Foreword

One hundred years ago it was the region of Central Bohemia which was setting the level and pace for new technologies, state-of-the-art production and innovations in agriculture, industry and in other fields. However, the events following 1948 changed the course. The current leaders of the Central Bohemia Region have set as their goal to become once again the undisputed leader of innovations in the Czech Republic.

As ambitious as it may be, the goal is achievable. After all, almost 50% of all scientific research capacities in the Czech Republic are concentrated in the Central Bohemia Region and in Prague. This in turn creates potential for the development of economic activities and innovations based on research and cooperation between businesses and academics. The Central Bohemian Innovation Centre plays an important role in connecting the corporate and academic sectors across the region.

Central Bohemia has all the prerequisites to become one of the richest regions in Europe. To this end, it is necessary to create a high added value not only in the economy but also in other areas of the region's life. And the added value is primarily linked to innovations.

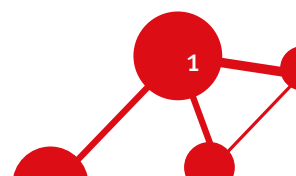
Our region supports innovations in the region companies in many different ways: financially but also in the form of various acceleration programs, innovation vouchers and by connecting companies with research organizations. A vast majority of Central Bohemia companies share this goal.

Central Bohemia companies and research centres are already among the main engines of the Czech economy. In many fields, they are also among the world leaders. A high concentration of hi-tech industry, top research institutions, a strategic location and the lowest unemployment all contribute to the economic characteristics of the region.

The words "innovations", "smart solutions", "smart city" sound modern and scholarly. But in fact it is simple. Being the best comes from peoples skills, education, and above all, from peoples desire to be better and to do their best. In short, innovation must be at the heart of people. And people in Central Bohemia have innovations at heart.



Jaroslava Pokorná Jermanová
Governor of the Central Bohemia Region



Market accessibility of EU countries

- AL Albania
- BA Bosnia and Herzegovina
- BE Belgium
- BY Belarus
- CZ Czech Republic
- DK Denmark
- EE Estonia
- HR Croatia
- CH Switzerland
- IS Iceland
- LV Latvia
- LU Luxembourg
- LT Lithuania
- MA Morocco
- MD Moldova
- ME Montenegro
- MK Macedonia
- MT Malta
- NL The Netherlands
- PT Portugal
- RS Serbia
- SI Slovenia
- SK Slovakia
- TN Tunisia



The Central Bohemia Region in the Heart of Europe



The Central Bohemia Region lies in the centre of the Czech Republic and Europe. It is near the markets of “old” Europe and part of the world’s largest common market of developed nations.

The Central Bohemia Region is the largest in the Czech Republic. It has a population of 1.3 million and covers 14% of the country’s area. It has a convenient location around Prague, the natural economic, political and business centre of the country. There is strong interdependence and cooperation between Prague and the Central Bohemia Region in commerce, industry and research. The region benefits from a high-quality, educated workforce, a long industrial tradition, and good transport connections to main European roads, factors that contribute significantly to the growth of the competitiveness of the region.

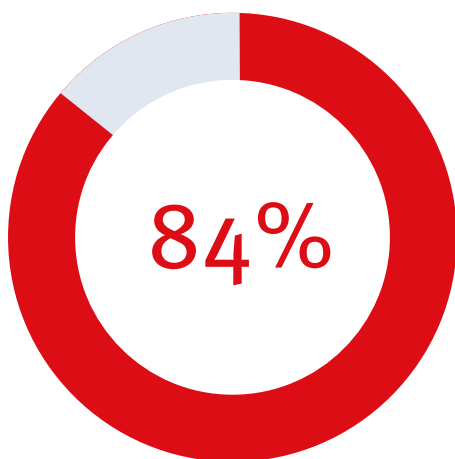
The Central Bohemia Region also has a strategically convenient location in the heart of Europe. It lies in the centre of a country that is a member of the European Union, the biggest common market of developed countries in the world, home to more than half a billion people and accounting for almost 25% of the world’s GDP.



Thanks to its very good transport infrastructure, the region is strongly integrated into the European space. Around 400 million clients in more than 20 EU countries can be served within 24 hours via road freight transport and all European countries can be reached by air from Prague within 3 hours. There are also several transshipment points connected to the main European river and rail corridors.

The Central Bohemia Region is also a place with a very rapid development of modern research activities in a number of fields, from biotechnology, optics, photonics and nuclear technology; through advanced materials, engineering and the automotive industry; to humanity fields like psychiatry and mental health-care.

GDP per capita as a percentage of EU28 average

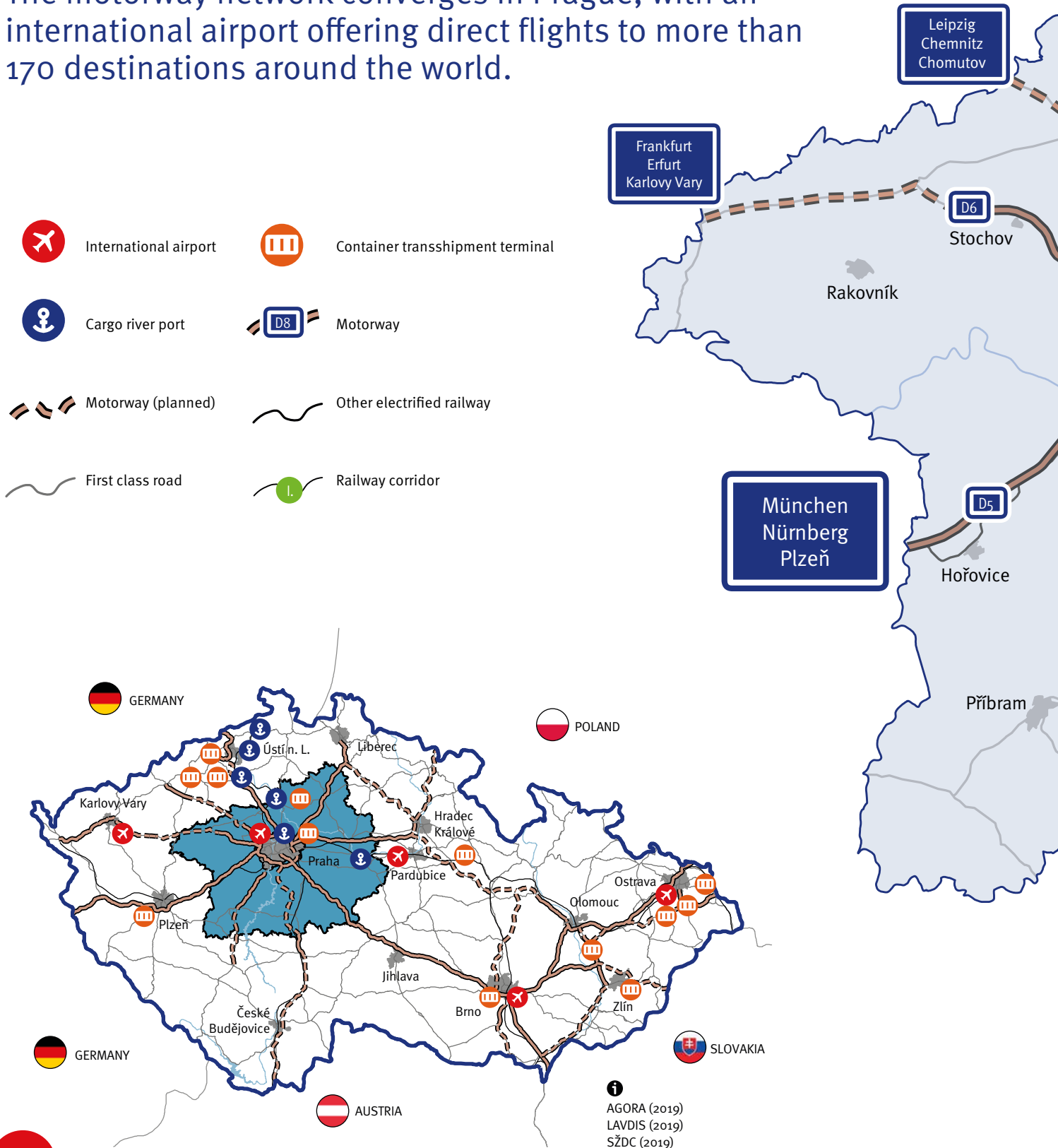


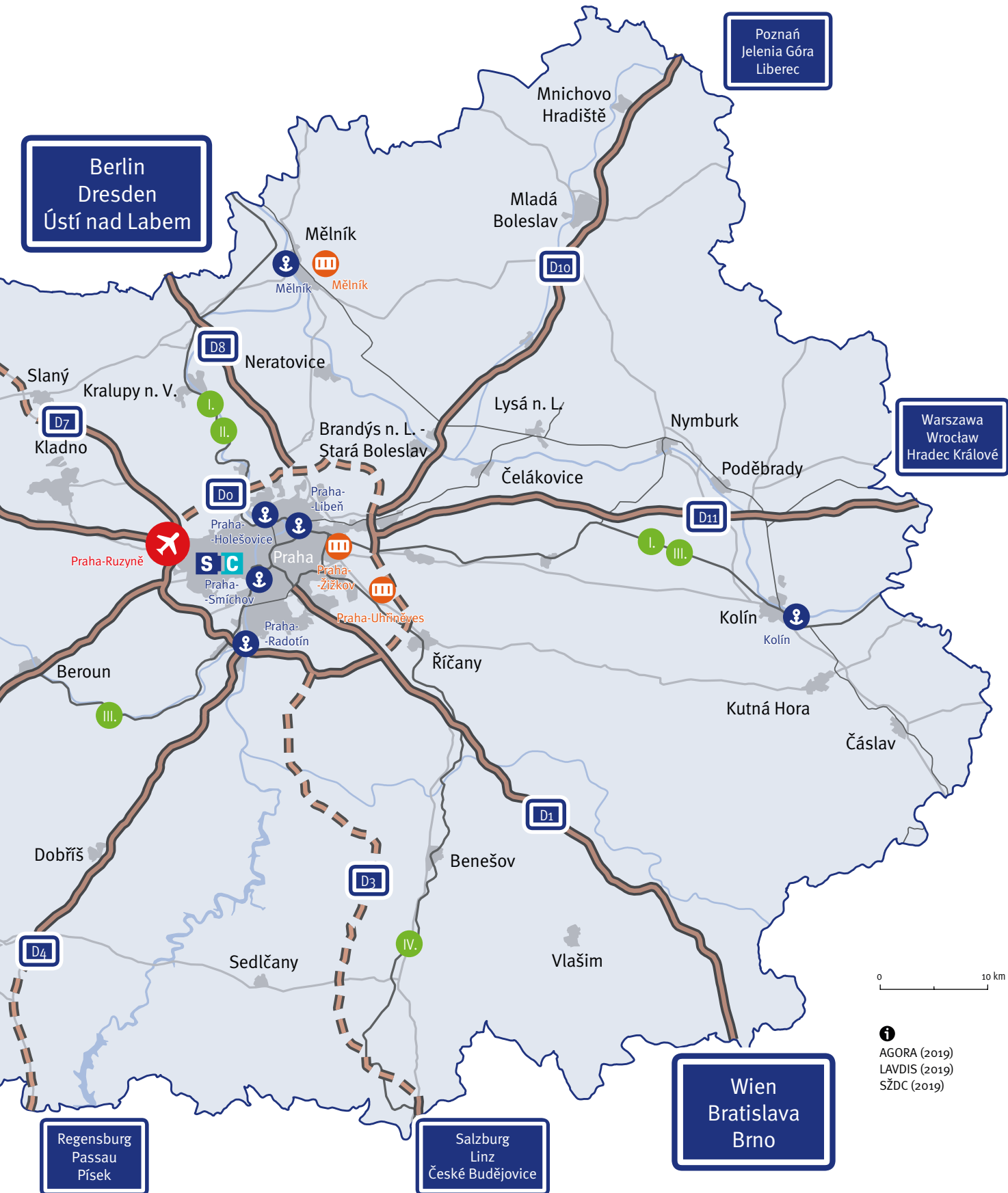
EUROSTAT (2019)



Transport Infrastructure

The Central Bohemia Region benefits from its central location in the Czech Republic and the European Union, which provides very good transport connections to other regions and countries. The motorway network converges in Prague, with an international airport offering direct flights to more than 170 destinations around the world.





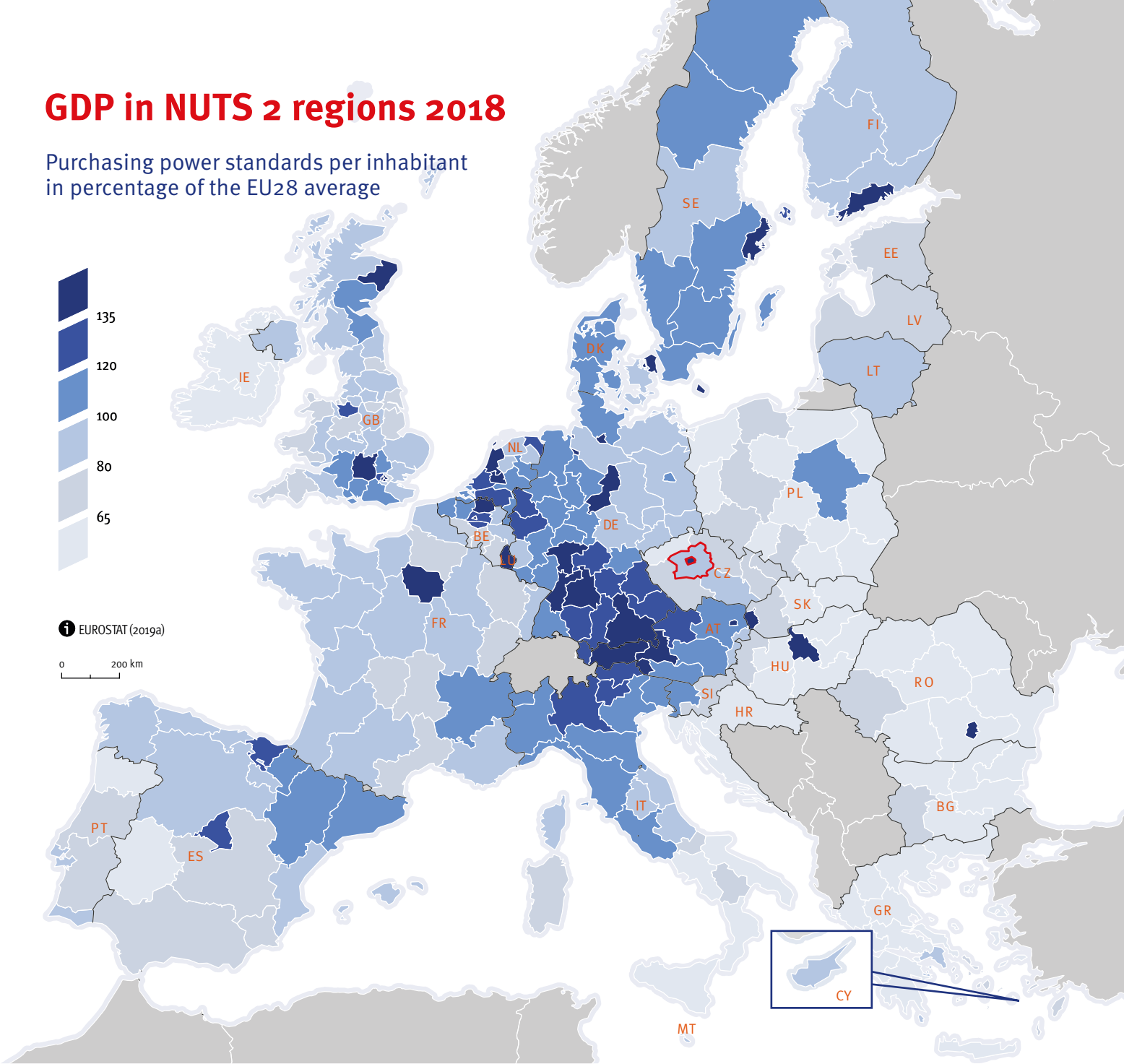
GDP in NUTS 2 regions 2018

Purchasing power standards per inhabitant in percentage of the EU28 average



EUROSTAT (2019a)

0 200 km



- | | |
|--------------------------|-----------------------|
| AT Austria | HU Hungary |
| BE Belgium | IE Ireland |
| BG Bulgaria | IT Italy |
| CY Cyprus | LT Lithuania |
| CZ Czech Republic | LU Luxembourg |
| DE Germany | LV Latvia |
| DK Denmark | MT Malta |
| EE Estonia | NL Netherlands |
| ES Spain | PL Poland |
| FI Finland | PT Portugal |
| FR France | RO Romania |
| GB United Kingdom | SE Sweden |
| GR Greece | SL Slovenia |
| HR Croatia | SK Slovakia |

GDP in regions in the Czech Republic 2017



The Economy of the Central Bohemia Region

Over the long term, the economy of the Central Bohemia Region has been growing at a faster rate than the EU28 countries and the region is one of the most economically developed in Central and Eastern Europe.

The Central Bohemia Region has long been one of the most economically developed regions in the Czech Republic. Measured in GDP per capita, the level of economic prosperity reaches 84% of the EU28 average. Compared to other regions in Central and Eastern European countries, the Central Bohemia Region is one of the most developed.

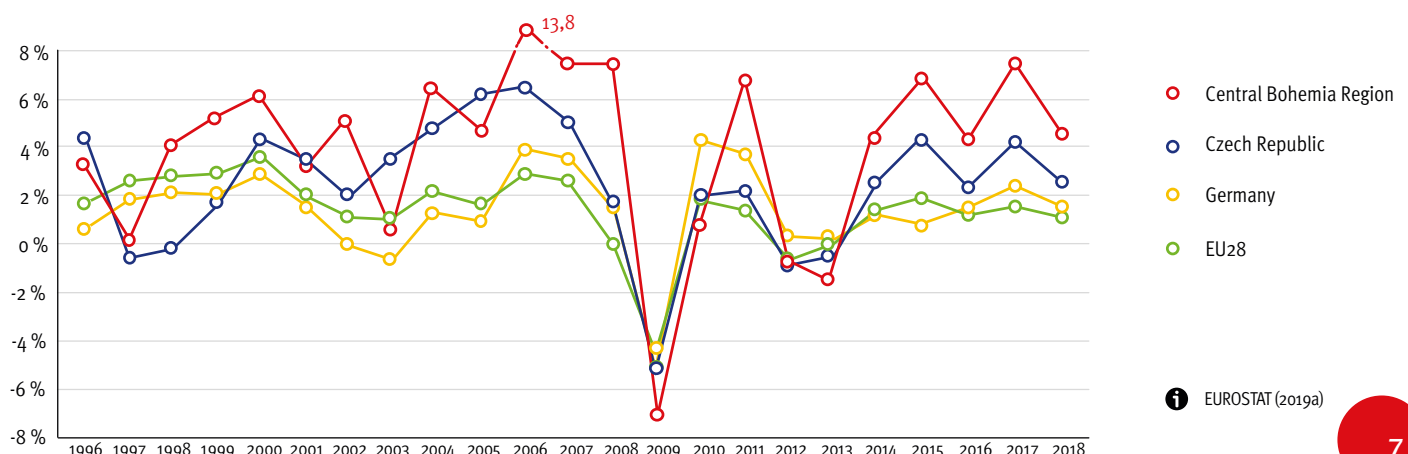
The growth rate of the region's economy has been higher than the national and European averages over the long term. The economic growth is on a higher order than in the other EU countries, and it is higher than Germany's. Even though the economic performance of the Czech Republic as a whole since 2008 has been approaching the EU28 average at a much slower pace than previously, the economy of the Central Bohemia Region, with the exception of the crisis years of 2009 and 2012/13, has continuously grown, approaching the average of the EU28.

Foreign companies play an important role in the Central Bohemia economy, accounting for almost 75% of the output and 50% of the jobs in the business sector. The main reasons for such a strong influx of foreign companies is the region's location in the centre of the Czech Republic and Europe and the significant price difference between Western and Eastern Europe. These factors, together with the gradual integration of the Czech Republic to the EU and the European Single Market, increased the attractiveness of the Central Bohemia Region to foreign firms. Their influx was the main driving force behind the successful transformation and modernisation of the economy, resulting in rapid growth from 2002 to 2008.

At first, they were mostly foreign companies whose competitiveness depended on low input prices. Gradually, however, more sophisticated activities with higher added value such as research and development would develop across the economic spectrum. This was aided by the region's highly qualified and educated workforce and long industrial tradition with unique know-how. Last but not least, the geographic location and the proximity to the most economically developed regions in the EU also played its role.

The Central Bohemia Region has restored its rapid economic growth in the years since 2013 and it is again one of the fastest growing regions in the EU28.

Annual GDP growth rate per capita 1996–2018

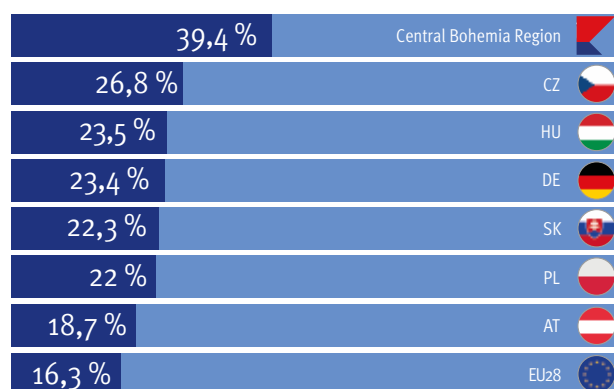


Central Bohemia – The Industrial Heart of Europe

The region has a strong industrial tradition that serves as the basis for the development of modern technologies and industrial applications.

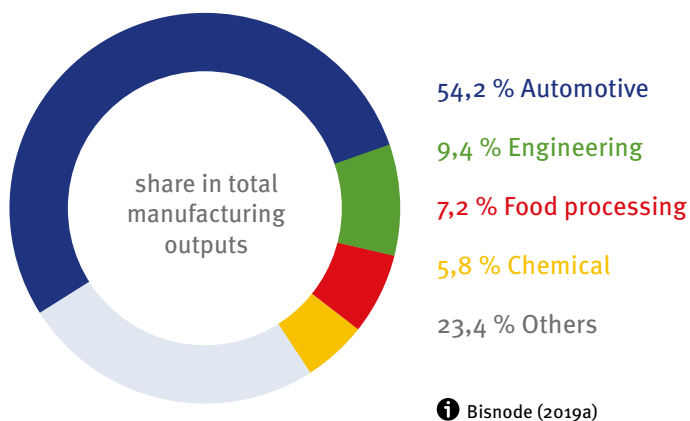
The Central Bohemia economy has a long tradition of industrial production. Unlike most old industrial regions, the Central Bohemia Region has undergone a major transformation of its industrial production, which is now increasingly reliant on research and development. The manufacturing industry, however, still plays a crucial role in the regional economy. The companies operating in this field account for almost 40% of the economic output and create more than 30% of jobs. Unlike most other EU countries the importance of industry in the region's economy has grown over time, and, when compared to other European regions, the manufacturing industry has a high share of the economic output.

Share of manufacturing industry of total GVA in 2016



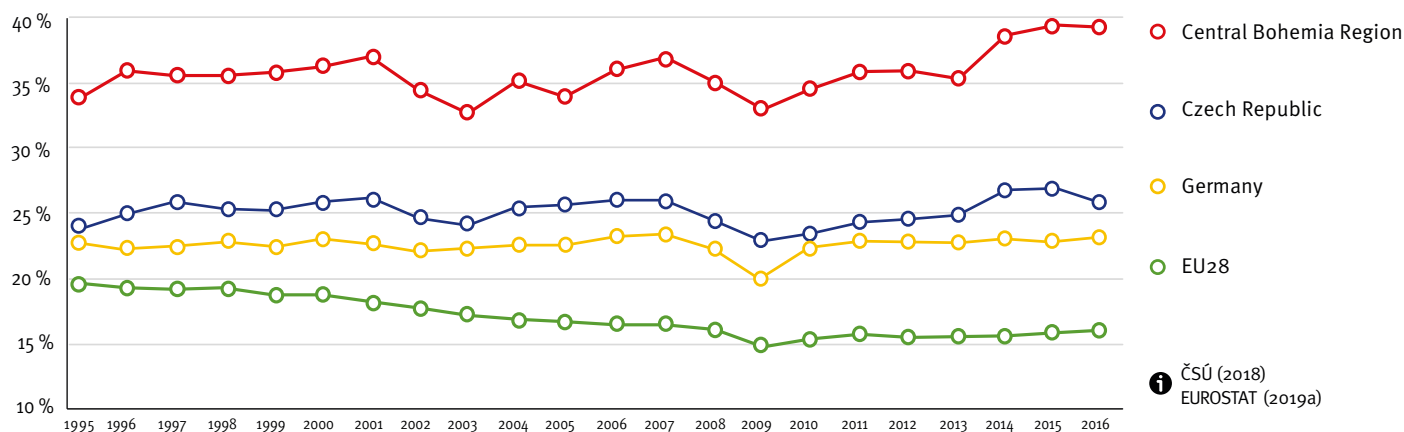
ČSÚ (2018), EUROSTAT (2019a)

Key industrial sectors in Central Bohemia Region – 2017

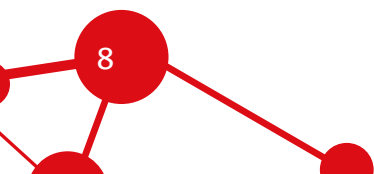


Bisnode (2019a)

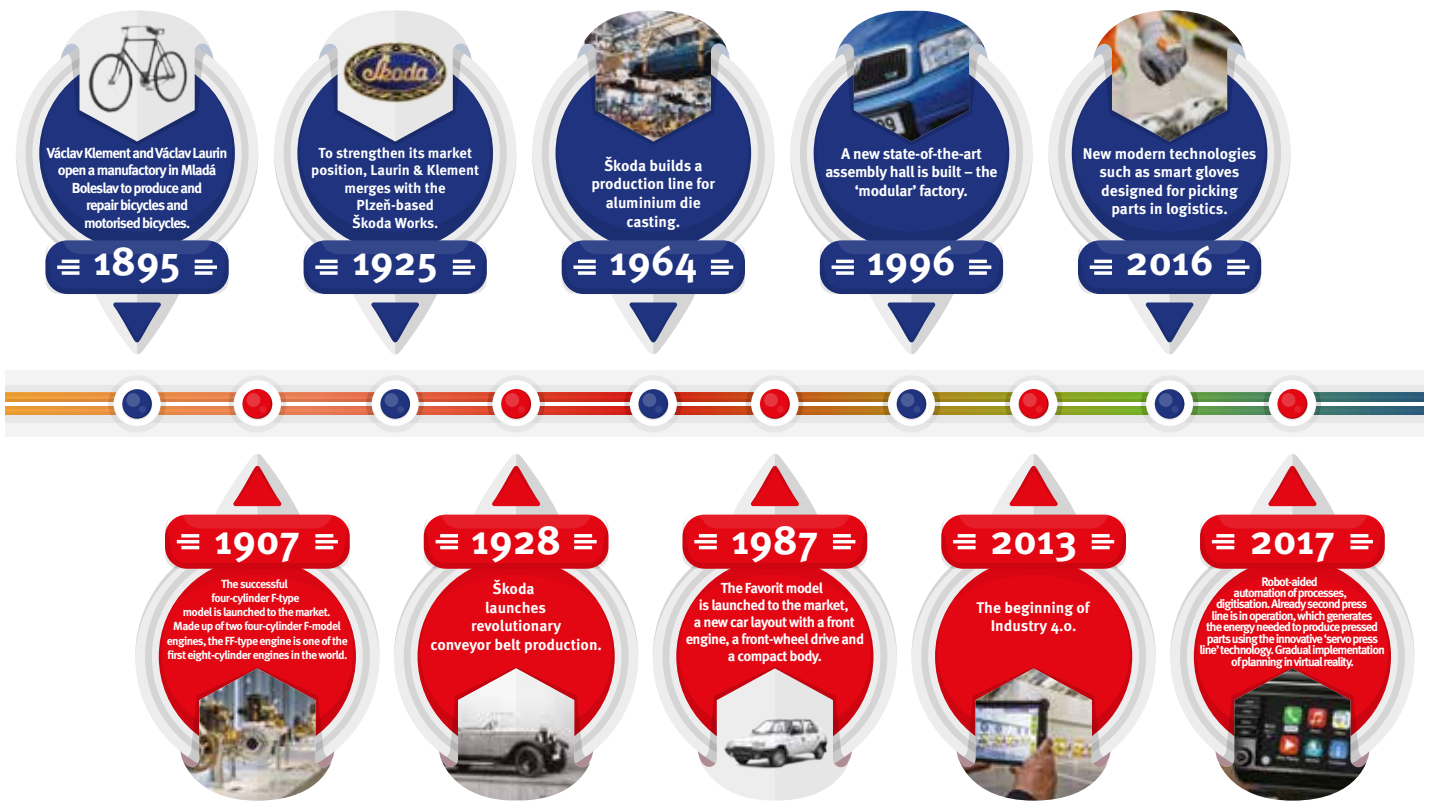
Share of manufacturing industry of total GVA in 1995–2016



ČSÚ (2018)
EUROSTAT (2019a)



Škoda Auto – timeline



The automotive industry is a key sector. The entire production chain can be found in the region, from manufacturers of simpler parts (Tier 2+), through specialised suppliers of more sophisticated modules (Tier 1), to end producers of motor vehicles for the local and international markets, who are closely connected with subcontractors. One of the most important companies in the Central Bohemia Region is Škoda Auto, whose long tradition in the region has been followed by the activities of other car producers and subcontractors, with the automotive industry becoming a highly interlinked system that benefits from the growing global demand for motor vehicles. Both domestic and foreign companies play an important role in this industry.

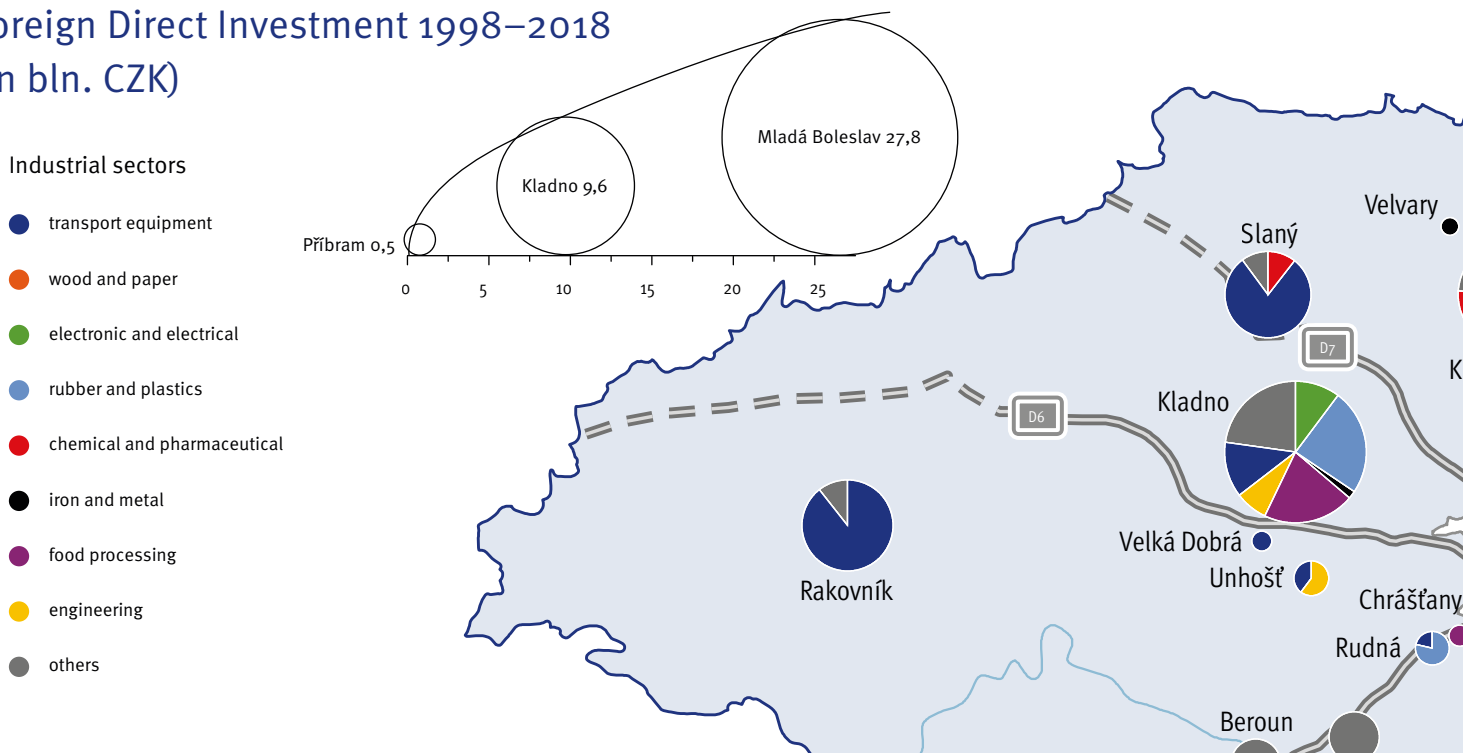
A great number of companies from other sectors, mainly engineering, plastics, electronics and electrical engineering and IT, are engaged in automotive industry. Besides manufacturing, the region has seen the development of companies operating also in design and research and development in manufacturing industry, and not only in the aforementioned main fields, but also in fields such as life-science, biotechnology, medical instrumentation or laser technology. These companies could benefit from their collaboration with research organisations in the fields of technical and natural sciences with a long presence in the Central Bohemia Region and Prague, who are dynamically developing their capacities and their portfolios of services for corporate companies.

The manufacturing industry is also successfully facing the latest challenges brought by changes in methods of production, organisation, communication and distribution across the supply chain, and the introduction of digitalisation and robotisation, collectively referred to as Industry 4.0.

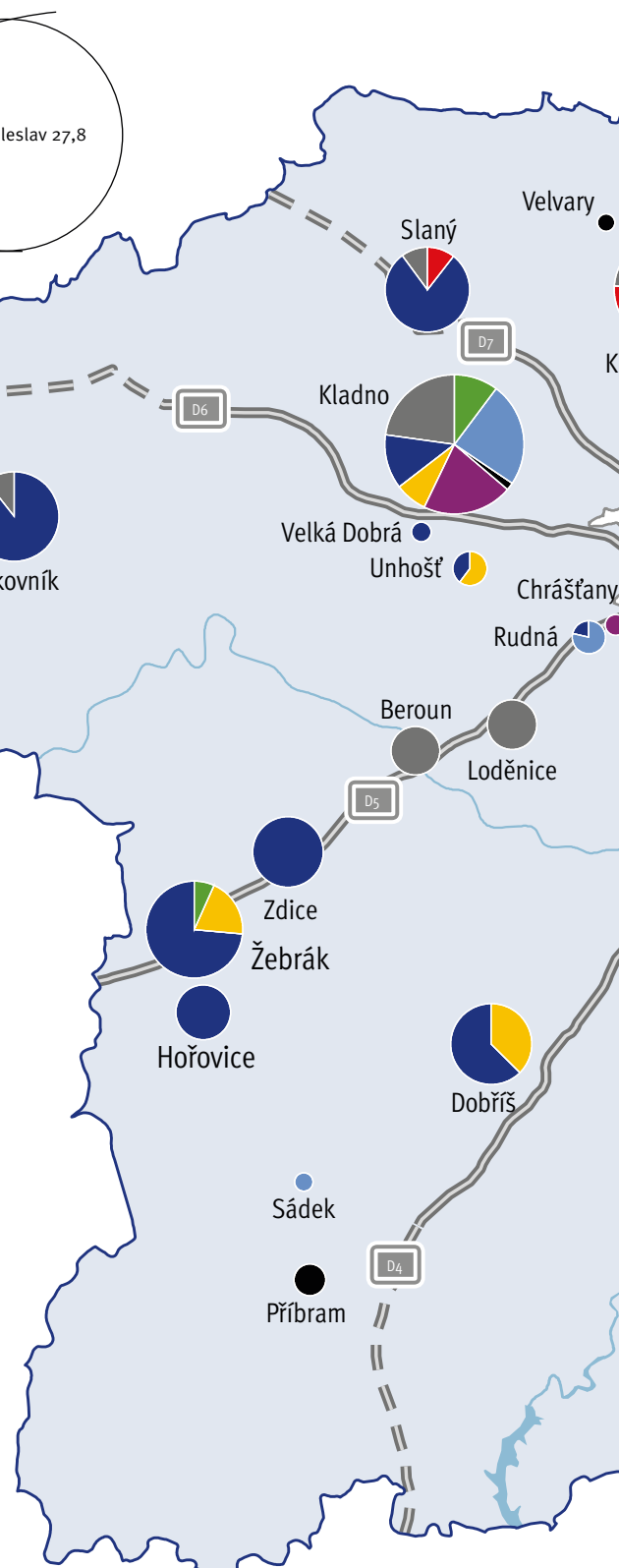
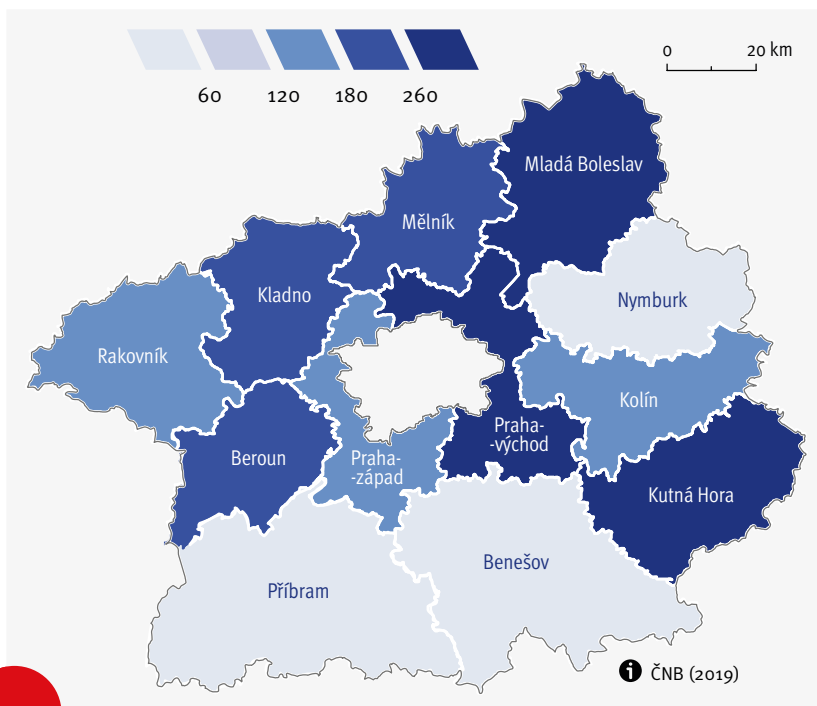
Foreign Direct Investment

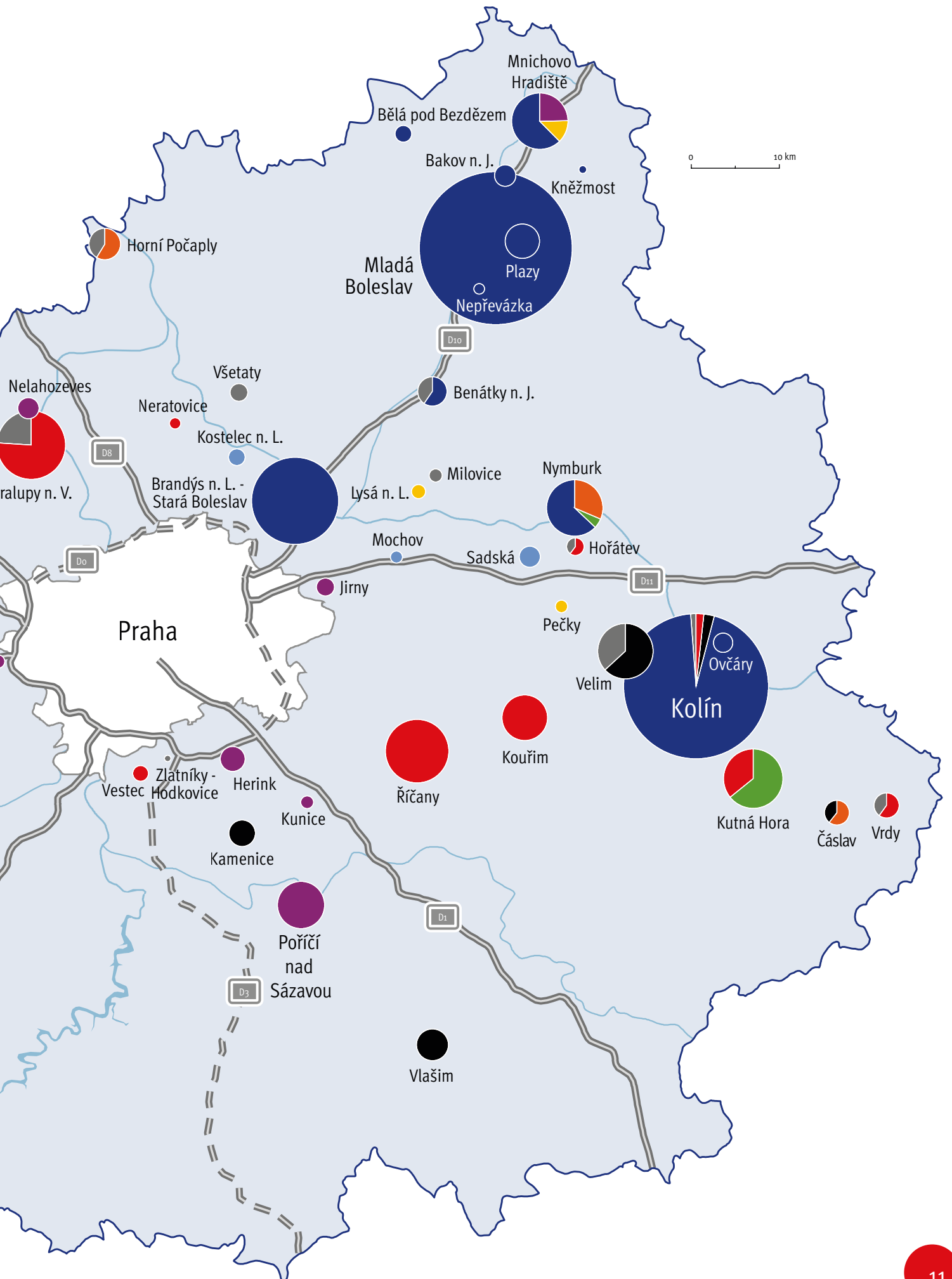
The Central Bohemia Region has long been an attractive and open destination for foreign investors, mainly in the manufacturing industry.

Foreign Direct Investment 1998–2018
(in bln. CZK)

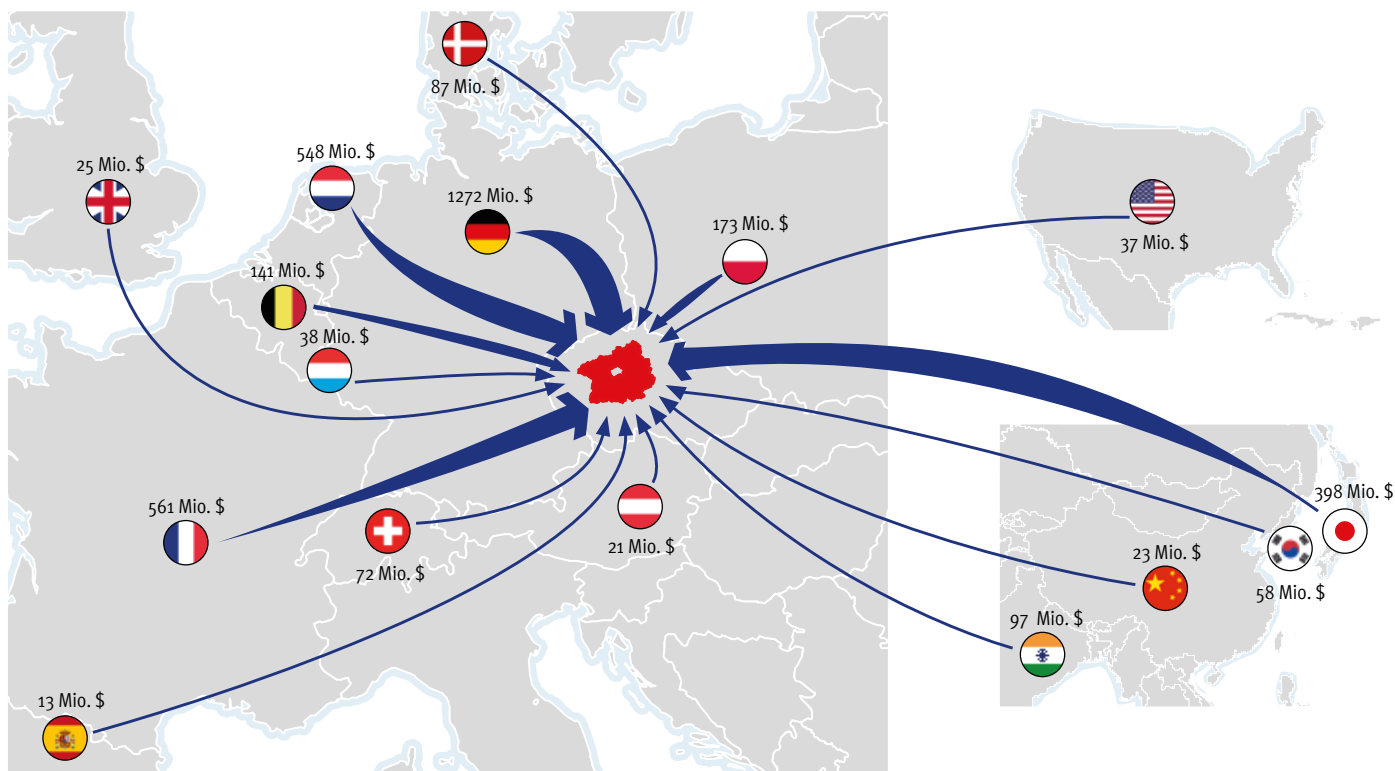


Foreign direct investment per capita in 2017
(in thous. CZK / person)



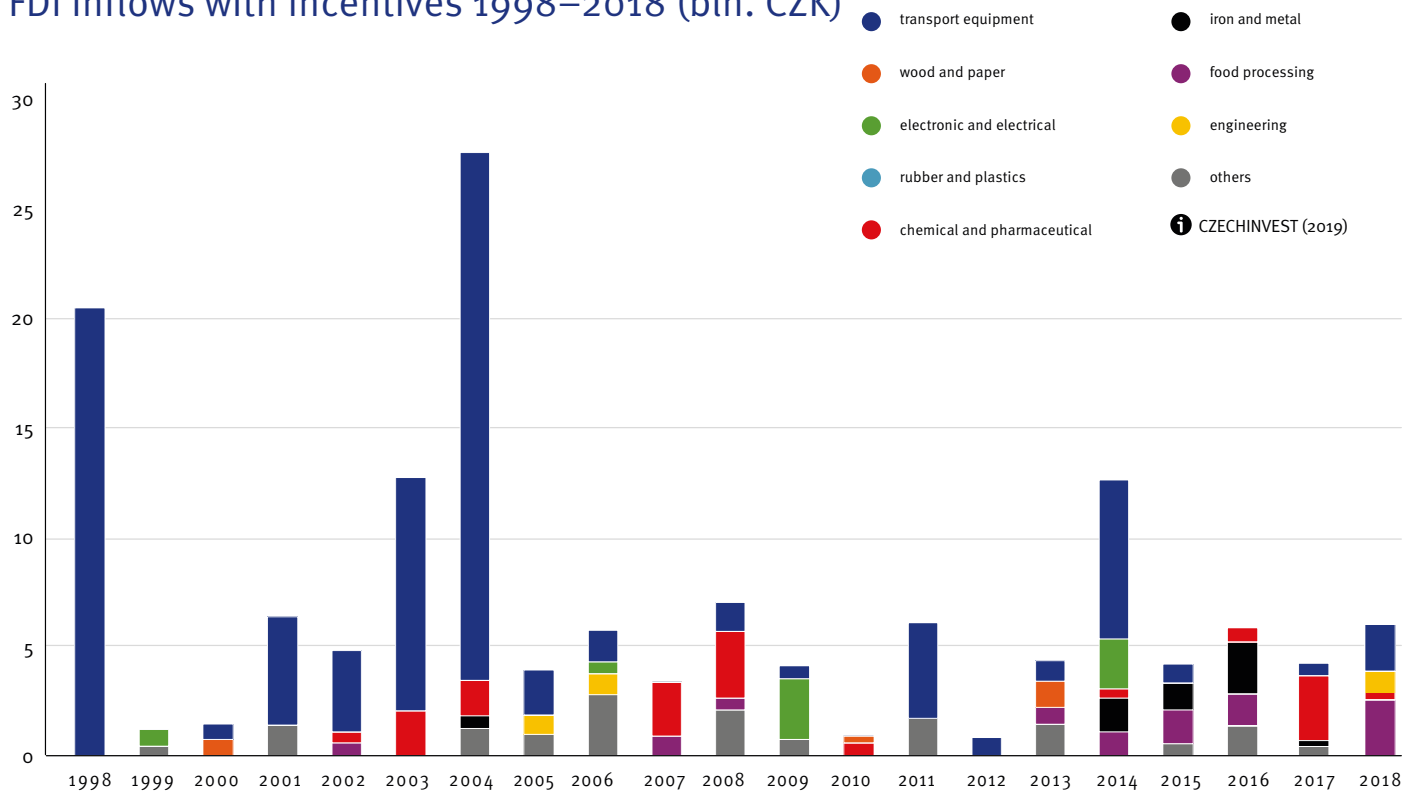


Foreign direct investment 1998–2018



i CZECHINVEST (2019)

FDI inflows with incentives 1998–2018 (bln. CZK)



i CZECHINVEST (2019)

Includes only foreign investment supported by incentives of CzechInvest from 1998 to 2018, the only available source of information of their sectoral structure. Their volume represents around one-third of all the FDI in the Central Bohemia Region registered by the Czech National Bank.

Foreign Direct Investment

Foreign Direct Investment (FDI) has been one of the main driving forces of growth and modernisation of the Czech economy. This also applies to the Central Bohemia Region, which has long been open to foreign investors, mainly in the manufacturing industry. The largest influx of foreign investment took place around 2000, though its volume remained significant in the regional economy in the following years. This is evidence of the high attractiveness of the region and its ability to offer appealing business opportunities to foreign investors.



Territorially, the clear dominants are the areas surrounding Prague and Mladá Boleslav District, which have the highest concentration of foreign companies. In contrast, the southern part of the region and Rakovník and Nymburk Districts have relatively lower investment due to the absence of a major economic centre and a smaller industrial tradition.

The automotive industry leads the fields receiving foreign investment, and not only in Mladá Boleslav and Kolín and their surrounding areas, which are the main centres of the producers of motor vehicles and their

subcontractors, but also along the D5 motorway to Pilsen. In the other parts of the region, FDI specialisations are diverse and distributed according to the local conditions, but they are often linked to the history of the industry in each given area.

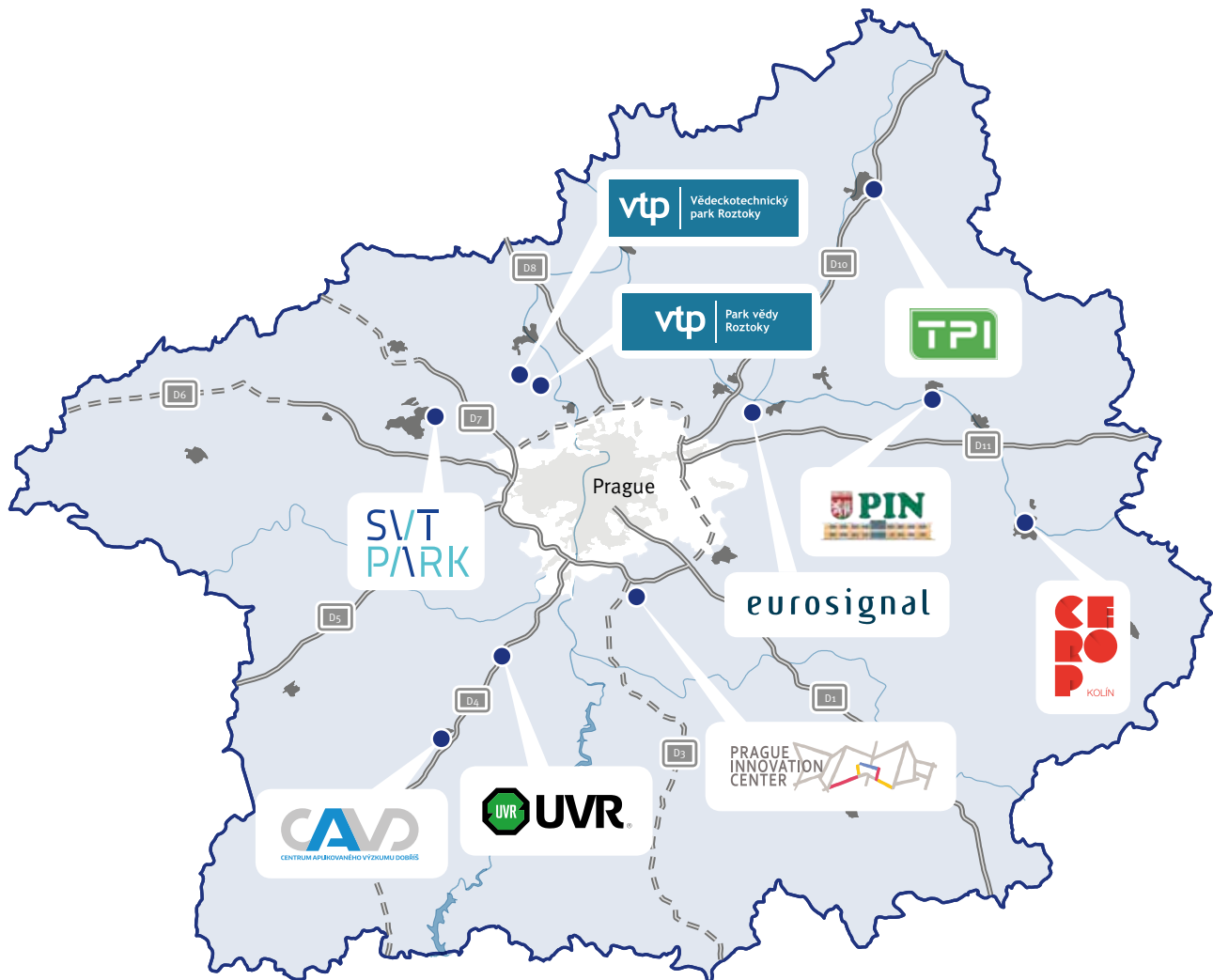






Companies from Germany most often invest in the region. They account for about 12% of all foreign investment supported by CzechInvest. They are followed by companies from France, The Netherlands, Poland and Belgium. Investors from Japan, India and South Korea are also coming to the region in significant numbers.

















The nature of the activities of foreign investors has also been changing gradually. Instead of production and assembly, activities in the fields of design, research and development are increasing. The goal for the future is to attract foreign companies that will invest in these activities with high added value that create high-quality jobs.

Innovation Infrastructure

A number of supporting entities offer their services in the region, creating a favourable environment for business activities based on innovation and modern technologies.



	Centre for applied research Dobříš Dobříš, Dobříš 1989, PSČ 263 01, www.cavd.cz	Branch focus	Equipment and services	Description of the organisation
		RES, engineering, new materials and the environment, with an overlap in art and design	Office / production facilities, rental of machinery / equipment, laboratories and testing facilities	The Centre supports new projects, innovation and new technological solutions, and their subsequent transfer into practice. It provides a base, technological assurance and support to businesses that want to apply the latest science and technology to products, and to then succeed with them on the market.
	The Engineering Science and Technology Park Buštěhrad, U Panelárny 136, PSČ 273 43, www.s-vtp.cz	Branch focus	Equipment and services	Description of the organisation
		Mechanical and metal industries	Rental of facilities and machinery / equipment, professional consulting (legal, financial, establishing companies), investment mediation	It provides equipped facilities and assistance to start-ups for their prototyping, testing and design, as well as to established companies for their R&D activities. It arranges collaboration with research organisations.

	VTP Mstětice Zeleneč, Mstětice 34, PSČ 250 91, www.eurossignal.eu	Branch focus	Equipment and services	Description of the organisation
		Railway engineering and security, automotive, IT security	Offices, test laboratories, certification authority to assess the safety of products and industrial applications, arrange contacts with research organisations	The park provides office space for research and development teams and businesses with a wide range of support services.
	VYRTYCH – Technology Park and Incubator Břežno-Židněves 116, PSČ 294 06, www.vyrtych-tpi.cz	Branch focus	Equipment and services	Description of the organisation
		Without any specialisation	Offices, research facilities, arrange contacts with universities, provide advice in intellectual property protection and technology transfer	It also offers an environment that fosters the development of new, innovative companies and supports scientific activities throughout the region, with emphasis placed on the actual introduction of innovative products to the market.
	Prague Innovation Centre (INNOCRYSTAL) Hodkovice, Inovační 122, PSČ 252 41, www.innocrystal.com	Branch focus	Equipment and services	Description of the organisation
		Biotechnology and related fields	Office facilities, mentoring services, financing mediation	It offers facilities to accelerate the innovative potential of both start-up projects and established companies.
	Park vědy Rostoky Rostoky, Bořivojova 2 380, PSČ 252 63, www.pv-rostoky.cz	Branch focus	Equipment and services	Description of the organisation
		Electrical engineering, industrial automation	Equipped laboratories and office facilities	Rental of equipped laboratories and office space. Other specialised assistance services are shared with VTP Rostoky
	VTP Rostoky Rostoky, Přílepská 1 920, PSČ 252 63, www.vtp-rostoky.cz	Branch focus	Equipment and services	Description of the organisation
		Automotive, engineering	Equipped laboratories Incubation programme, mediation of collaboration with research organisations	Equipped facilities prepared for research on internal combustion engines, vehicles, transmissions, electric and hybrid drives, fuel cells and high-speed machines. Incubation programme for start-up companies
	Podnikatelský inkubátor Nymburk Nymburk, Za Žoskou 2 506, PSČ 288 02, www.inkubator-nymburk.eu	Branch focus	Equipment and services	Description of the organisation
		Without any specialisation	Equipped office facilities and services (reception, internet, meeting rooms, post), virtual address (company seat), legal, grant and financial consulting	The incubator offers innovative start-ups facilities and support services for the development of their businesses and it offers R&D facilities for established companies.
	UVR Mníšek pod Brdy a.s. Mníšek pod Brdy, ÚVR Mníšek pod Brdy 600, PSČ 252 10, www.uvr.cz	Branch focus	Equipment and services	Description of the organisation
		Ecology and Environmental protection	Office facilities, pilot halls, equipped laboratories, advisory services in research projects, economics, legal, grant issues.	UVR has extensive experience in R&D and works closely with a number of leading Czech companies and research institutions. It aims to build a centre for R&D technology in environmental protection and focus on the symbiosis between industry and the environment.
	CEROP Kolín Kolín 2, Sokolská 1095, PSČ 280 02, www.cerop.eu	Branch focus	Equipment and services	Description of the organisation
		Without any specialisation	Office facilities, business consulting in establishment and development of companies, establishing contacts with the research sector.	The incubator supports the development of companies by mediating technology transfer between the research and business sectors through its own network of partner organisations.

10 Number of employees

70% Occupancy

10 Number of firms

1995 Year of foundation

3825 Floor area (sq m²)

Science and Technology Park

Business Incubator

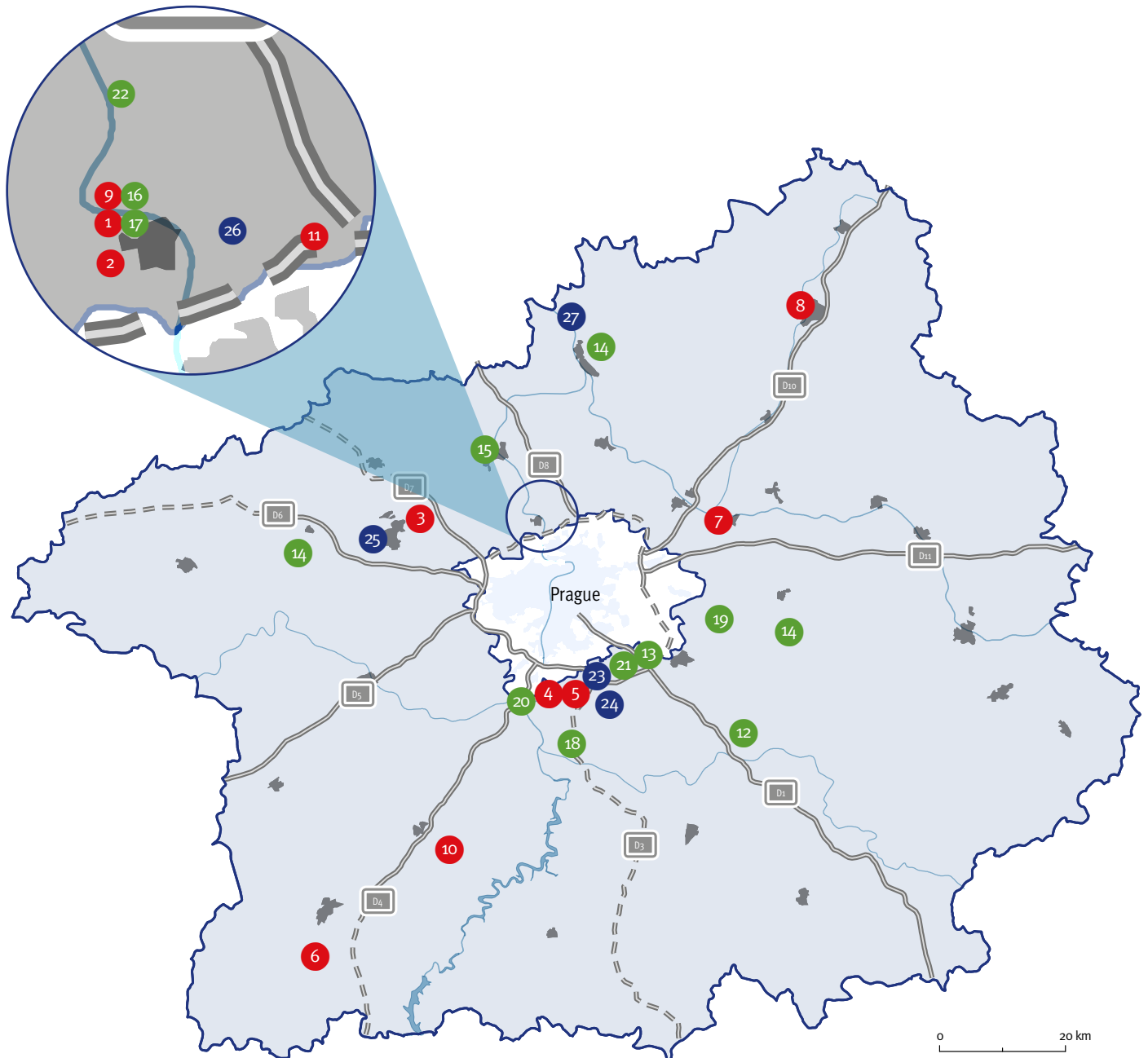
Center for Technology Transfer

Technology Center

Internal SIC databases and website of entities

Research Centres

The Central Bohemia Region has an extensive network of research organisations and centres specialised in various fields that are significant partners of companies in their research, development, and innovation activities.



Focus of the research centre

- 1 technical
- 1 natural science and agriculture
- 1 biotechnological and biomedical
- 1 Internal SIC databases and website of entities



No.	Name	Address	Web page	Number of employees
1	Research Centre Rez The company's main mission is to conduct research and development in the energy field, in particular nuclear. It has a research and experimental infrastructure that includes research a nuclear reactors. The centre also focuses on sustainable energy in the SUSEN project as well as researching and modelling the behaviour of materials and components under normal and extreme conditions.	Hlavní 130, 250 68 Husinec-Řež	www.cvrez.cz	303
2	Centre of Vehicles for Sustainable Mobility The research centre focuses on new solutions for piston engines for vehicles and powertrains, including both electric and hybrid, and their control with regard to efficiency, environmental friendliness and mobility value.	Přílepská 1920, 252 63 Roztoky	www.cvum.eu	
3	University Centre for Energy Efficient Buildings The CTU's Centre of Energy Efficient Buildings is a research institute striving for the sustainable development of the construction industry. It offers research and expert services for the construction of new and the renovation of existing buildings to make them energy efficient, comfortable, and environmentally friendly.	Třinecká 1024, 273 43 Buštěhrad	www.uceeb.cz	220
4	Institute of Physics AS CR, ELI Beamlines ELI Beamlines is a laser user infrastructure that implements research and applied projects involving the interaction between light and matter with an intensity that is almost 10 times greater than the currently achieved values. ELI offers the use of laser technology for testing new materials in engineering, nanotechnology, and medical diagnostics and technology.	Za Radnicí 835, 252 41 Dolní Břežany	www.eli-beams.eu	315
5	Institute of Physics AS CR, HiLASE HiLASE focuses on the experimental development of a new generation of lasers with high energy pulse or high frequency repetition that are more compact and stable than the devices currently available. It offers contract and cooperative research services as well as expert measurements and customization.	Za Radnicí 828, 252 41 Dolní Břežany	www.hilase.cz	80
6	National Institute for Nuclear, Chemical and Biological Protection Research focusing on the identification and quantification of radioactive, chemical and biological substances, assessing their effect on humans and the environment. Testing and expertise in chemical, biological and radioactive substances.	Kamenná 71, 262 31 Milín	www.sujchbo.cz	57
7	SVUM a.s. A research centre in metallic materials, plastics and their testing in accredited laboratories. It offers equipment and services for strength, weakness, metallography and corrosion testing.	Tovární 2053, 250 88 Čelákovice	www.svum.cz	52
8	ŠKODA AUTO University It focuses on education, offering unique bachelor's and master's programmes that combine economic education with a high-quality base of technical disciplines. It has its own internal grant agency that promotes the research potential of its staff.	Na Karmeli 1457, 293 01 Ml.Boleslav	www.savs.cz	120
9	ÚJV Řež, a. s. The institute offers project and engineering services, support for the safe and effective operation of nuclear and classic power plants, the chemistry of the combustion cycle and the management of nuclear and other specific waste. In the field of healthcare, it focuses on the research, development, distribution and production of radiopharmaceuticals.	Hlavní 130, 250 68 Husinec-Řež	www.ujv.cz	350
10	Institute of Thermomechanics of the CAS, Aerodynamic Laboratory in Nový Knín The Institute conducts interdisciplinary basic research in the following areas: fluid dynamics, thermodynamics, dynamics of mechanical systems, solid mechanics, interactions of fluids and solids, environmental aerodynamics, biomechanics, mechatronics, electrophysics, electrical machines, drives and electronics and material diagnostics.	Jatecká 511, 262 03 Nový Knín	www.it.cas.cz	236
11	Research Institute of Geodesy, Topography and Cartography The institute focuses on basic and applied research in geodesy and geodynamics, the surveying and cadastre of real estates, the development and testing of new methodologies, procedures and programme resources, and providing expert consultations in various fields.	Ústecká 98, 250 66 Zdíby	www.vugtk.cz	58
12	Astronomical Institute AS CR The institute is the country's leading scientific institution in the fields of astronomy, astrophysics and cosmic physics. It studies the origin, evolution and physical properties of stars and star systems, unusual and exotic objects in space, the dynamics of natural and artificial objects in the solar system, interplanetary matter and Earth's atmosphere.	Fričova 298, 251 65 Ondřejov	www.asu.cas.cz	154
13	Institute of Biotechnology CAS The Institute of Botany focuses on science and research in all the fields of botany, ranging from classical taxonomy, biosystematics and plant evolution, to selected groups of fungi, ecology, ecophysiology, phytogeography and vegetation mapping and dendrochronology, wood anatomy, and karyological and population genetic studies.	Zámek 1, 252 43 Průhonice	www.ibot.cas.cz	300
14	Czech University of Life Sciences Czech University of Life Sciences was established in 1906 and in 1995 changed its name to the present one. It consists of 5 faculties and 2 institutes that carry out multiple study programmes in the fields of agriculture, forestry and also in the related technical and economic disciplines.	Kamýcká 129, 165 00 Praha 6 – Suchbátka	www.czu.cz	1180
15	Technopark Kralupy of The University of Chemistry and Technology Technopark Kralupy is part of The University of Chemistry and Technology, Prague. It is a scientific research institute focusing on building chemistry and other related fields. Technopark possesses the top laboratory equipment allowing to take on even the most demanding challenges in the field of R&D.	Žižkova 7, 278 01 Kralupy nad Vltavou	www.technopark-kralupy.cz	20
16	Institute of Inorganic Chemistry AS CR It engages in basic and applied research in inorganic chemistry and fields straddling the border between inorganic chemistry with material sciences and other fields.	Řež 130, 250 68 Husinec	www.iic.cas.cz	86
17	Nuclear Physics Institute of the CAS The main focus is research in nuclear physics and other related fields and the use of methods of nuclear physics in multidisciplinary branches of science and research.	Řež 130, 250 68 Husinec	www.ujf.cas.cz	300
18	Institute of Forest Ecosystem Research Institute of Forest Ecosystem Research, Ltd., is an independent, private research organization. The core activity of the company is carrying out applied and basic research projects on forestry, forests and natural environment.	Čs.armády 655, 254 01 Jílové u Prahy	www.ifer.cz	20
19	Research Centre SELTON Applied research in the field of agricultural crop breeding, mainly concerning the study of genetic diversity and the precise identification of initial breeding materials.	Kolodějská 24, 250 84 Sibřina	www.selton.cz	12
20	Forestry and Game Management Research Institute It focuses on basic and applied research and development in forest and game management and other related fields. It also provides expert and advisory services for the public administration and forest owners, as well as publishing and training services.	Strnady 136, 252 02 Jíloviště	www.vulhm.cz	100
21	The Silva Tarouca Research Institute for Landscape and Ornamental Gardening The institute's fields of research include the ecology of forests and the landscape, the study of long-term changes and the land-use evolution, solutions for vegetation in urban and agricultural areas, the monitoring of pollutants, research on the spread of new plant diseases, the analysis of the use of biomass as an alternative energy source and DNA analysis.	Květnové nám. 391, 252 43 Průhonice	www.vukoz.cz	150
22	Bee Research Institute at Dol It is engaged in research, development and education in apiculture and bee products. In addition to research, the institute also engages in development and production. It also organises seminars and courses for bee-keepers, pupils and students.	Dol 94, 252 66 Māslovce-Libčice nad Vl.	www.beedol.cz	40
23	Biotechnology and Biomedicine Center of the CAS and Charles University in Vestec BIOCEV is a joint project with the goal of providing a research centre of excellence in biotechnology and biomedicine. The newly built knowledge base, together with BIOCEV's singular infrastructure, provide biotechnology companies unique collaboration opportunities through contracted research and staff training in advanced biotechnological methods.	Průmyslová 595, 252 42 Vestec	www.biocev.eu	416
24	Institute of Biotechnology of the CAS The activities of the institute are focused on excellent basic research in molecular biology with prospective transfer of biotechnological methods and tools to human medicine or other important areas of human activity.	Průmyslová 595, 252 42 Vestec	www.ibt.cas.cz	115
25	CTU, The Faculty of Biomedical Engineering The faculty focuses on research and training of experts in medical technology, thereby preparing biomedical technicians, engineers, and ICT specialists. The faculty has equipment for providing experimental teaching and research in 30 laboratories, including some that simulate the conditions of both emergency and intensive care departments in hospitals.	Nám. Sítná 3105, 272 01 Kladno	www.fbmi.cvut.cz	310
26	National Institute of Mental Health NIMH is quickly becoming a reference centre in the field of mental health in the Czech Republic. The applied research activities focus on the development and testing of new methods of diagnostics and treatment, including the synthesis and R&D of new drugs, the development of new medical equipment and technologies for mental health.	Topolová 748, 250 67 Klecany	www.nudz.cz	280
27	Institute of Animal Physiology and Genetics AS CR The main activity of the institute is studying the properties of domestic, wild and laboratory animals. The tasks being currently addressed range from highly biomedical to biodiversity-oriented topics. The research focuses on mammalian cloning, assisted reproduction and cell cycle regulation.	Rumburská 89, 277 21 Liběchov	www.iapg.cas.cz	195

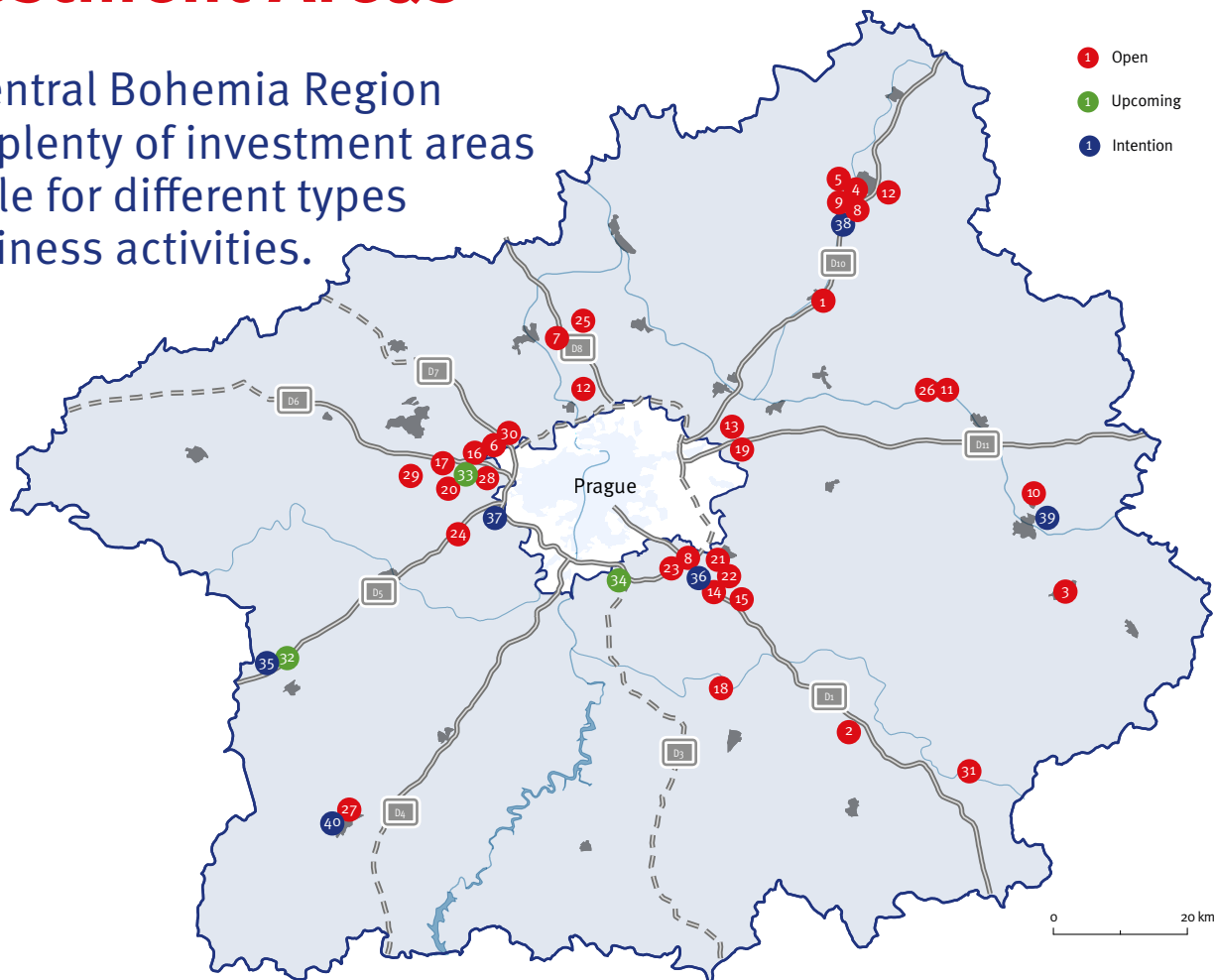
1 technical

1 natural science and agriculture

1 biotechnological and biomedical

Investment Areas

The Central Bohemia Region offers plenty of investment areas suitable for different types of business activities.



Regional branch of CzechInvest:

<http://www.czechinvest.org/stredocesky-kraj-praha>

In addition, companies can find suitable investment locations available on the Central Bohemia Region's website:

<https://kr-stredocesky.cz/web/regionalni-rozvoj/investicni-prilezitosti>

No.	Name	Address	Area (sq m)	Ownership	Developer	Web page
1	Benátky nad Jizerou Bilsing Automation Czech s.r.o., Giga sport, Sumikei, Včas a.s., KOBRAS s.r.o., Profika s.r.o., Hyundai-KIA Machine	Průmyslová, 294 71 Benátky nad Jizerou	300 000	mixed	Municipality	
2	CTPark Divišov Bakker, Cross Trans, Lidl, XPO Logistics	Měchnov, 257 26 Divišov	98 200	private	CTP	www.ctp.eu
3	CTPark Kutná Hora	Masarykova, 284 03 Kutná Hora	23 400	private	CTP	www.ctp.eu
4	CTPark Mladá Boleslav Faurecia	Bezděčín 125, 293 01 Mladá Boleslav-Bezděčín	168 000	private	CTP	www.ctp.eu
5	CTPark Mladá Boleslav II Tower Automotive Czech Republic, s.r.o.	Nepřevázka 38, 293 01 Nepřevázka	116 100	private	CTP	www.ctp.eu
6	CTPark Prague Airport (Kněževes) Raben Logistics Czech s.r.o., Kaka CZ s.r.o., AGEL Servis a.s.	Na Staré silnici, 252 68 Kněževes	128 800	private	CTP	www.ctp.eu
7	CTPark Prague North HrubyMOVINGČeský Caparol s.r.o., Raben Logistics Czech s.r.o., Nüssli (CZ) spol. s r.o., Agility Logistics s.r.o., HrubyMOVING TRANSPORT, a.s., Metmo s.r.o.	Kozomín – Úžice (608), 277 45 Kozomín	89 800	private	CTP	www.ctp.eu
8	D+D Park Kosmonosy Škoda Auto a.s., DB Schenker	Průmyslová, 293 06 Mladá Boleslav - Kosmonosy (Pod Průhonem)	230 000	private	Municipality	www.ddreal.cz
9	Goodman Mladá Boleslav Logistics Centre SAS Autosystemtechnik s.r.o.	129, 293 01 Mladá Boleslav	125 000	private	Goodman	cz.goodman.com
10	Kolín – Ovčáry CCM Machinery, DIRAC Industries, GARAGE Europe, GEFCO, Ingersoll Rand, Kolon Invest, Lear Corporation, Machinery Equipment Technology Group, Nippon Paint Automotive Coatings, RP Ovčáry, Servis Control, SOLARCO Machinery, STROM PRAHA, TOYOTA TSUSHO EUROPE, TPCA, Tsubaki Automotive, UNIKOM, Yusen Logistics	K Automobilce, Kolín	3 700 000	public	Municipality	www.zonakolin-ovcary.cz

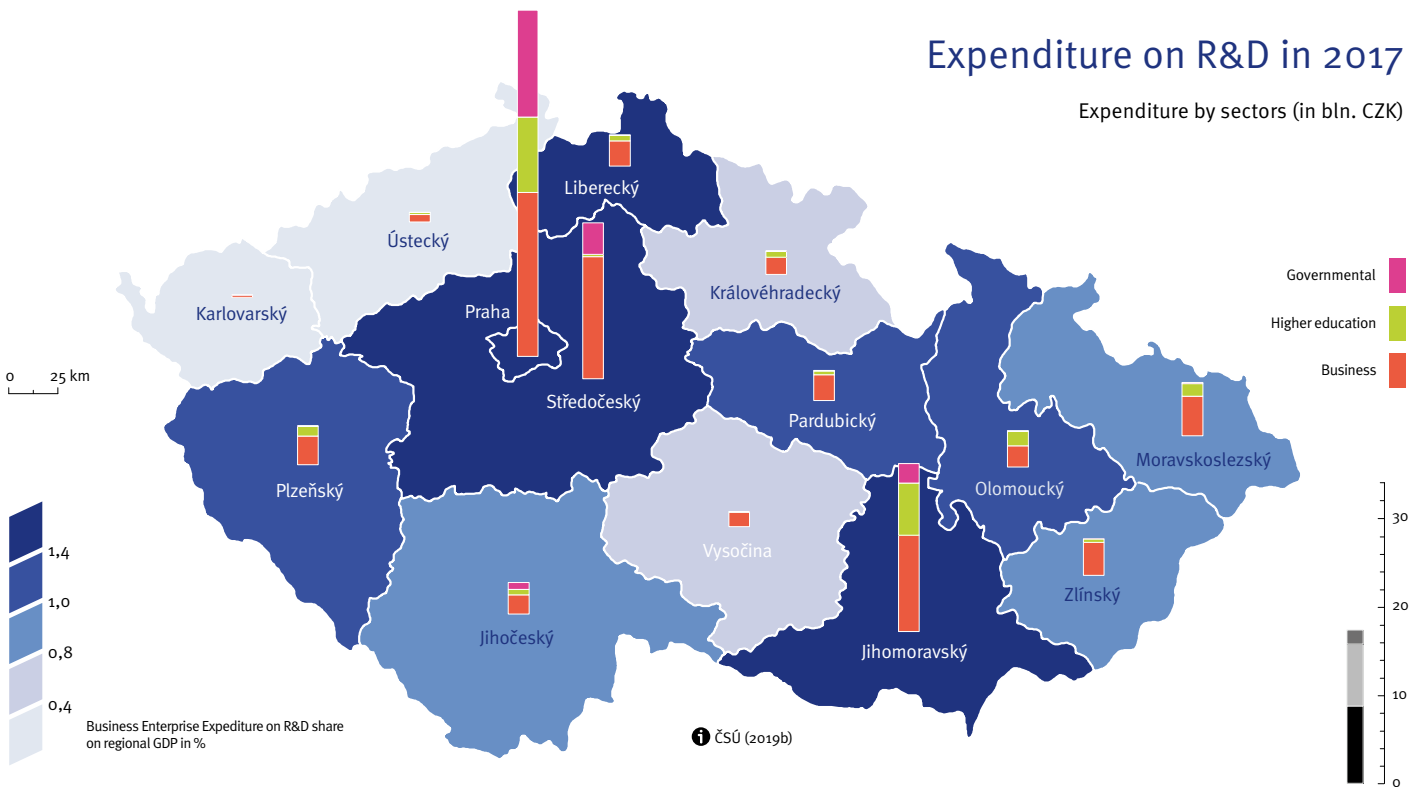
No.	Name	Address	Area (sq m)	Ownership	Developer	Web page
11	Nymburk – jih Vyrolat s.r.o., Model Obaly a.s., JDK spol.		280 000	public	Municipality	
12	P3 Prague D8 VF, Pricol Wiping Systems Czech, DHL Express, Blažek, Puma, Latecoere	Parkerova 621, 25163 Klecany	110 516	private	PointPark Properties	www.p3parks.com
13	P3 Mladá Boleslav HP-Pelzer, Yapp Czech Automotive	Plazy 128, 29301 Mladá Boleslav	38 484	private	PointPark Properties	www.p3parks.com
14	P3 Prague D11 FM Česká, EKOL, Lidl, Penny Market	Mstětice, 25091 Mstětice	155 967	private	PointPark Properties	www.p3parks.com
15	P3 Prague D1 HOPI, Schenker, Yusen Logistics, Autokelly, Mountfield	Stránčice, 251 63 Stránčice	176 207	private	PointPark Properties	www.p3parks.com
16	Panattoni Park Prague Airport CEVA Logistics, Stokvis Tapes, Stayonline, GUT, Amazon, Iron Mountain, DSV a GM Electronics	Nad Bezednou, 252 61 Dobrovíz	202 520	private	Panattoni	www.panattonieurope.com
17	Panattoni Park Prague Airport II DSV	E48, 273 51 Pavlov	76 739	private	Panattoni	www.panattonieurope.com
18	Poříčí nad Sázavou Wrigley Confections ČR, kom. spol., Kemper, spol. s r.o., COMAC s.r.o.	Pyšelská, 257 21 Poříčí nad Sázavou	363 000	mixed	Municipality	
19	ProLogis Park Jirny Globus, DHL, Toyota Tsusho, Thimm Obaly, LGI, Rosa Market	Poděbradská 700, 250 90 Jirny	333 106	private	Prologis	prologisceesearch.com
20	ProLogis Park Prague Airport Cerva Group	Průmyslová 483, 252 61 Jeneč	111 197	private	Prologis	prologisceesearch.com
21	ProLogis Park Prague D1 East DHL, Raben Logistics, LÓreal, ESA Logistika, Marvinpac CZ, Gefco, FreshFruits	Na Dlouhém 79, 251 01 Říčany – Jažlovice	140 147	private	Prologis	prologisceesearch.com
22	Prologis Park Prague D1 West Kenvelo, Nagel Česko, DHL, Teleplan, Asbis, PPL, DPD, Cargo Logistics, Helicar, Pepper – Decor	Zděbradská 67, 251 01 Říčany – Jažlovice	70 971	private	Prologis	prologisceesearch.com
23	Prologis Park Prague D1 West II Eyelevel, DHL	Dobřejšovice 250, 251 01 Dobřejšovice	14 500	private	Prologis	prologisceesearch.com
24	ProLogis Park Prague-Rudná Digital Engines, Sportisimo, L&L Products, Popron, Albatros Media, Toyota BT, Zepter International, Eco Innovatech, Toyota Material Handling CZ, Gebrüder Weiss, Plástipak, Česká pošta, PPM Czech, Foodish Transped-SOC, Sacorp Logistics, Roline International Spedition, Lorenc Logistics, GZ Digital Media, Author, ALABANZA a.s., Uložka.cz, Vafo Praha, Wyma, Brit-Vafo	K Vypichu 1086, Rudná 252 19	249 193	private	Prologis	prologisceesearch.com
25	ProLogis Park Úžice Fiege, Antalís, PST CLC, Rossmann, Thimm Obaly, VF Czech Services, Europool, Horizont	Úžice 267, 277 45 Úžice	97 326	private	Prologis	prologisceesearch.com
26	Průmyslová zóna Nymburk-sever Magna Exteriors & Interiors, Changhong Europe Electric, Železniční opravny a strojírný, Probotrans, Donauchem, Zásobárna, Železnická dodavatelská, Barton Group, Stavebniny Peřura, Podnikatelský inkubátor	Za Žoskou, Nymburk	2 880 000	mixed	Municipality	www.mesto-nymburk.cz
27	Příbram EVROPSKÁ-východ Ks Klima - Service A.s.	Evropská, 261 01 Příbram (jižně od křižení s Dobříšskou)	115 000	public	Municipality	pribram.eu
28	Segro Logistics Park Prague Kuehne & Nagel, ČMS, cargo – partner ČR, Autobenex, A-Keramika, Červa, Expeditors International ČR, Falco – Redy, Translogi, Transkam, PRO.MED.CS Praha, Stahlgruber, DAMCO Czech Republic, Orifarm, FAST ČR, Otec, Schacher Mayer, Uti	Průmyslová, Hostivice (Palouky)	105 300	private	Sergo	www.segro.com
29	Unhošť Furukawa Electric Autoparts Central Europe, Koupelny Ptáček, T.RAD Czech, Pompo	Lidická 1022, Unhošť	110 000	private	Municipality	www.muunhost.cz
30	VGP Park Tuchoměřice Grupo Caamano, Gecko International, Lidl, Hartman Rico	U Špejcharu, 252 67 Tuchoměřice	58 700	private	VGP	www.vgp.cz
31	Zruč nad Sázavou-průmyslová zóna Jih I a II ASMO Czech s.r.o.	Modrá, 285 22 Zruč nad Sázavou	183 762	public	Municipality	www.mesto-zruc.cz
32	Panattoni D5 Hořovice Park	Skandinávská, 267 53 Žebrák	62 777	private	Panattoni	www.panattonieurope.com
33	VGP Park Jeneč	Nádražní, 252 61 Jeneč	173 859	private	VGP	www.vgp.cz
34	Zlatníky – Hodkovice Vědecko technický park (VTP) InnoCrystal	Inovační, 252 41 Zlatníky-Hodkovice	65 000	public	Municipality	www.innocrystal.com
35	CTPark Cerhovice	267 61 Cerhovice	96 900	private	Municipality	www.ctp.eu
36	CTPark Prague East	E65, 251 01 Nupaky	206 200	private	Municipality	www.ctp.eu
37	CTPark Prague West	605, 252 19 Chrástřany	31 400	private	Municipality	www.ctp.eu
38	Panattoni Park Mladá Boleslav	D10, Bezděčín, 293 01 Mladá Boleslav	19 200	private	Panattoni	www.panattonieurope.com
39	Průmyslová zóna Kolín jih (Štáralka)	východně od Průmyslová zóna Štáralka, 280 02 Kolín	92 144	private		www.cbreproperties.cz
40	Příbram Balonka	V Lukách, 261 01 Příbram	250 000	mixed	Municipality	pribram.eu

1 Open

1 Upcoming

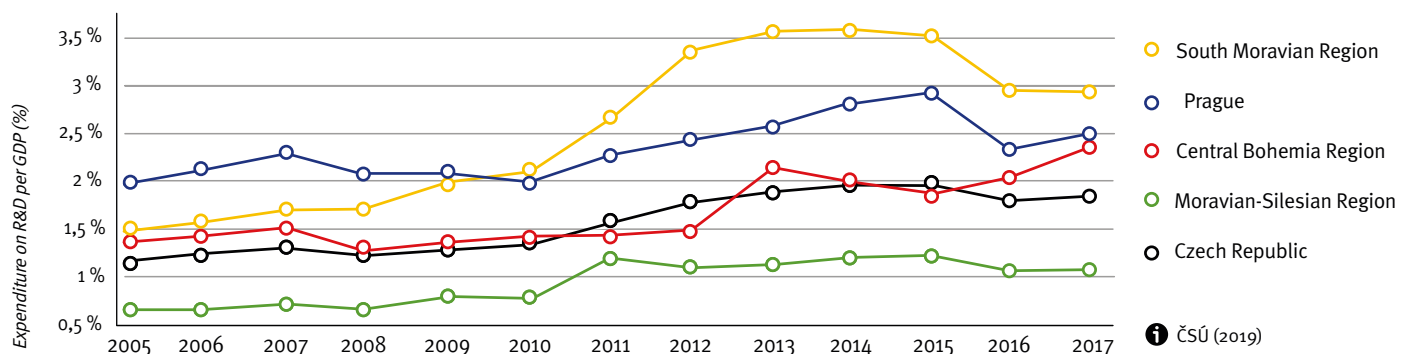
1 Intention

Research and development



The innovation ecosystem of the Central Bohemia Region is characterised by the high share of research and development (R&D) expenditures spent by companies in the region. The corporate sector accounts for almost 80% of all R&D expenditures which is in line with the average in the Czech Republic. The reason is the great importance that industry plays in the region's economy and the relatively extensive R&D activities of some of its largest companies. The total volume of R&D investment in the region reaches almost 2.5% of GDP which is above the national average. With regards to knowledge intensity in business sector, the Central Bohemia Region reaches an above average value (1.87% versus 1.76% in the Czech Republic). In comparison with the rest of the country, the companies in the region invest relatively significant resources in R&D, generating the potential for innovation. Over the past few years, the capacity of public research organisations has also grown, especially in connection with the new research centres that have been established in the region. With their focus on basic and applied research, their potential is very significant, and not only for the Central Bohemia economy. Currently, their research activities, projects and capacities are becoming increasingly linked to the industrial sector. In addition, these new centres are putting the Central Bohemia Region on the map of excellent research.

Knowledge intensity indicator in 2005–2017



Global innovation leaders in the Central Bohemia Region

Seventeen out of the top hundred European investors in research and development are active in the region. They represent a significant innovation potential for the development of the region's economy.

Activities of multinational companies are of key importance for the development of innovative environment, in particular if the region succeeds in attracting a broader range of businesses, such as design or research and development, in addition to the traditional manufacturing.

Companies with the highest spending on research and development (R&D) are considered innovation leaders as they are able to fund large research projects. They prepare businesses for future market trends, develop new technologies, and come up with new solutions. A number of global corporations are present in the Central Bohemia Region; they include branches of innovation leaders – companies that globally invest massively into R&D.

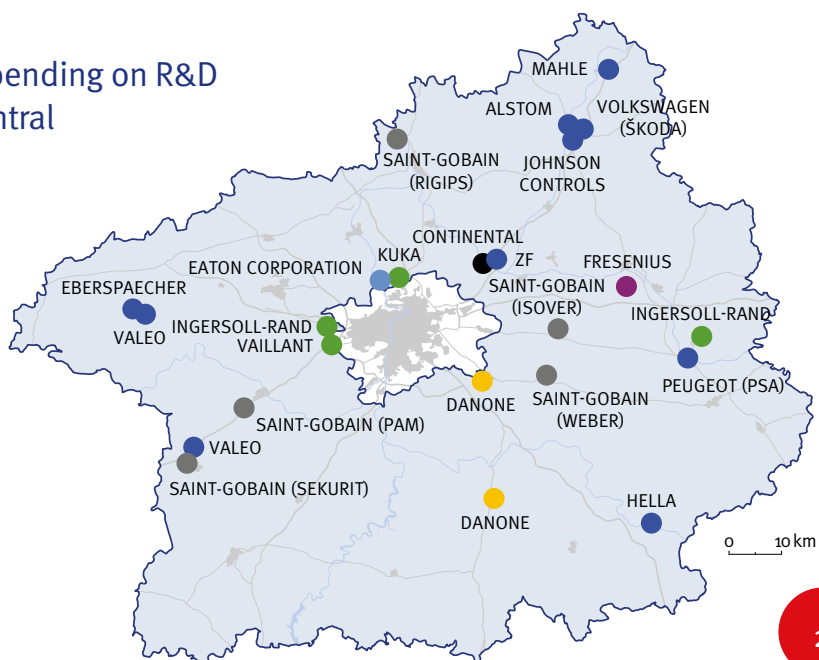
Out of the top 100 investors into R&D, seventeen have their branches in the Central Bohemia Region. Globally, the seventeen investors pump almost CZK 700 bn a year into R&D. It is a considerable expenditure – especially compared with the total spending on R&D by all the region's companies which amounted to CZK 11.2 bn in 2017. This suggests that multinational companies have a significant potential for the local innovation ecosystem provided that a fraction of their overall R&D investments could be brought into the region. Some of them set up more than one branch in the Central Bohemia Region. Most of them focus on the car industry or its suppliers. A majority of the top 100 investors into R&D have their production and distribution facilities in the region. In some cases, however, they manage the more sophisticated company activities from here: e.g. Ingersoll-Rand has its technology centre in Hostivice and Eaton runs its biggest European research centre in Roztoky. Many other companies which started as manufacturers are now shifting towards more complex operations.

New high-quality jobs are thus created which offer employment for experts and above-average salaries. The potential for cooperation with Czech scientists is boosted as a result and so are the chances that Czech researchers will participate in joint projects. Attracting more sophisticated activities means that local branches will move up in their company's hierarchy. That in turn implies a greater investment into the local branches and their reinforced position in the local economy. This also means that their mother company will be less inclined to close up the branch or move it abroad. It is therefore desirable to create optimal conditions for such trends.

Top 100 companies with the highest spending on R&D in the EU with their branches in the Central Bohemia Region in 2019

Industries

- transport equipment
- electronics and electrical
- engineering
- food processing
- chemical and pharmaceutical
- rubber
- others



© European Commission (2019)

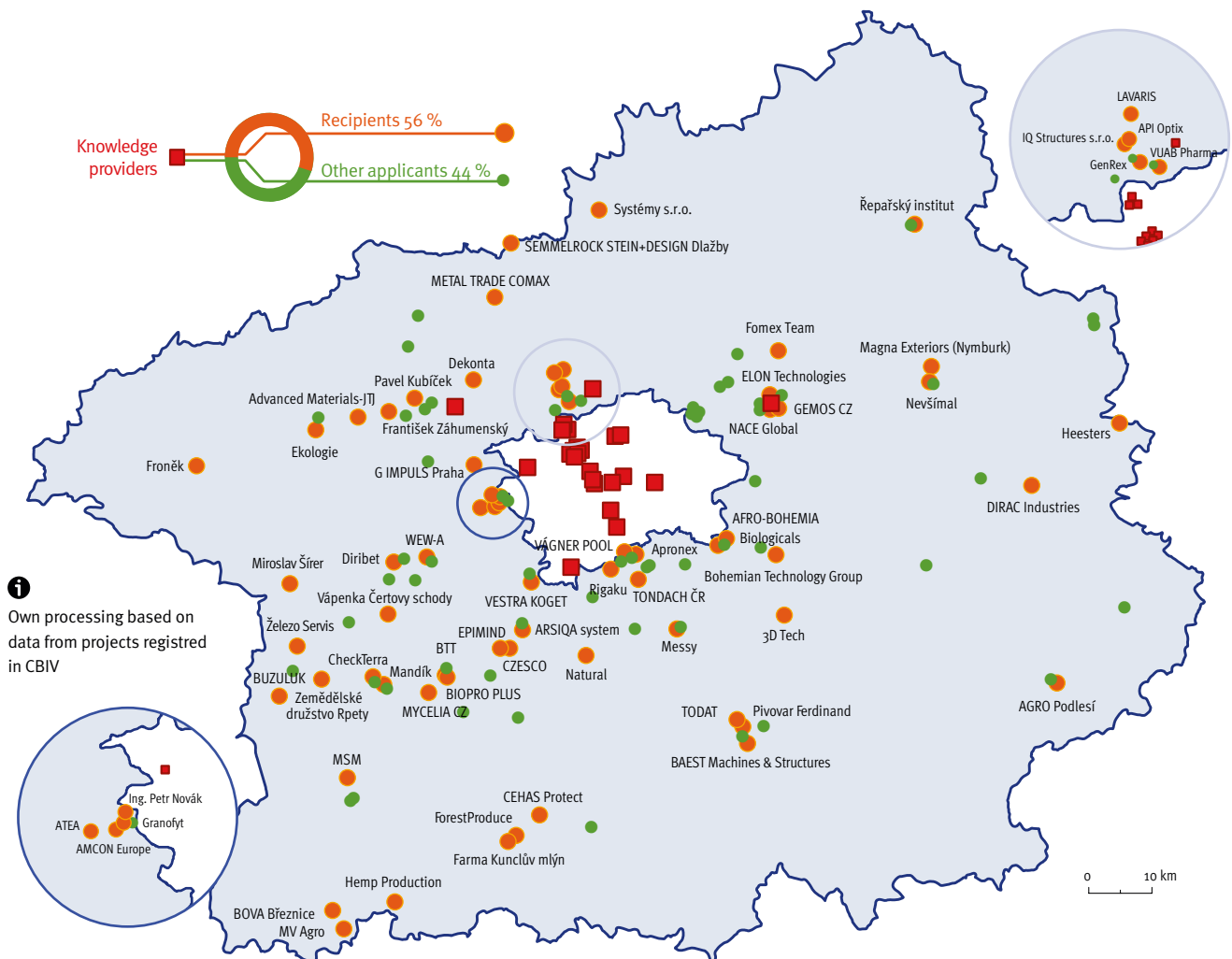
Innovation vouchers

Companies in the Central Bohemia Region are investing relatively intensively in research and development, building the main pillar of the regional innovation ecosystem.

The Central Bohemia Region forms a closely interdependent centre together with Prague. The bonds in the innovation ecosystem are also strong, especially between the Central Bohemia corporate sector and research organisations in Prague. Together, the Central Bohemia Region and Prague concentrate almost 50% of all the country's R&D capacity, and 58% in the case of public R&D. Therefore, there is great potential for the development of economic and innovation activities based on research and the mutual cooperation of the corporate and academic sectors.

In recent years, there has been a major development of supporting infrastructure to generate and spread innovation, among which is the Central Bohemian Innovation Centre (SIC). Through its programmes, SIC offers assistance in accelerating the cooperation between the innovative companies of Central Bohemia and the academic sector. One of those programmes is the Central Bohemian Innovation Vouchers, which facilitates the connection between the corporate and research sectors with joint pilot projects.

Central Bohemian Innovation vouchers 2016-2018





BOVA BŘEZNICE
(BŘEZNICE)



ZDENĚK LEITERMAN, DESIGN ENGINEER

“Innovation voucher has helped us gain a significant competitive advantage which we now aim to make full use of on both domestic and European markets.”

The BOVA company used the Innovation voucher for the cooperation with the Czech Technical University in Prague to solve a problem concerning metal angle brackets for connecting wood parts. Specific angles were physically tested and measured in real terms at the University Centre of the Czech Technical University in Buštěhrad. Based on these tests, specific guideline charts were created. These mean huge savings of both time and costs. Designers now do not have to count each particular joint individually: designing a timber construction anywhere in Europe now means they can refer to these guideline charts from BOVA.



FRONĚK, SPOL. S R.O.
(LUBNÁ)



KAMIL HRBEK, CEO

“The cooperation with Czech Technical University in Prague has definitely helped us enhance our competitiveness. We are constantly trying to keep up with the trends and compare ourselves with our biggest competitors. There is a whole range of bitumen compounds. Thanks to Central Bohemian Innovation Centre, our company tested four new types – two compounds of low noise asphalt, a compound with an innovative additive in the underlaying construction for which there is no Czech norm yet. The last type is a flexible asphalt pavement which is resistant to pressure and subsoil movement and thus does not crack.”

The goal of the project was to compile protocols on Initial Type Testing and manufacturing regulations for new products – bitumen compounds.



IQ STRUCTURES
(HUSINEC-ŘEZ)



MARTIN JOTOV, MANAGING DIRECTOR

“I would recommend all companies try the innovation voucher. You should not be afraid to cooperate with researchers. We have both brilliant ideas and brilliant people here in the Czech Republic and we have to find ways to work with them.”

Nanotechnologies have slowly become part of our everyday life. IQ Structures used the Innovation voucher for a tailor-made research which studied brand new constructions of nano-scale reliefs for industrial use, specifically plasmonic preparation of functional thin layers on different substrates while using different deposition methods.



PIVOVAR FERDINAND
(BENĚŠOV)



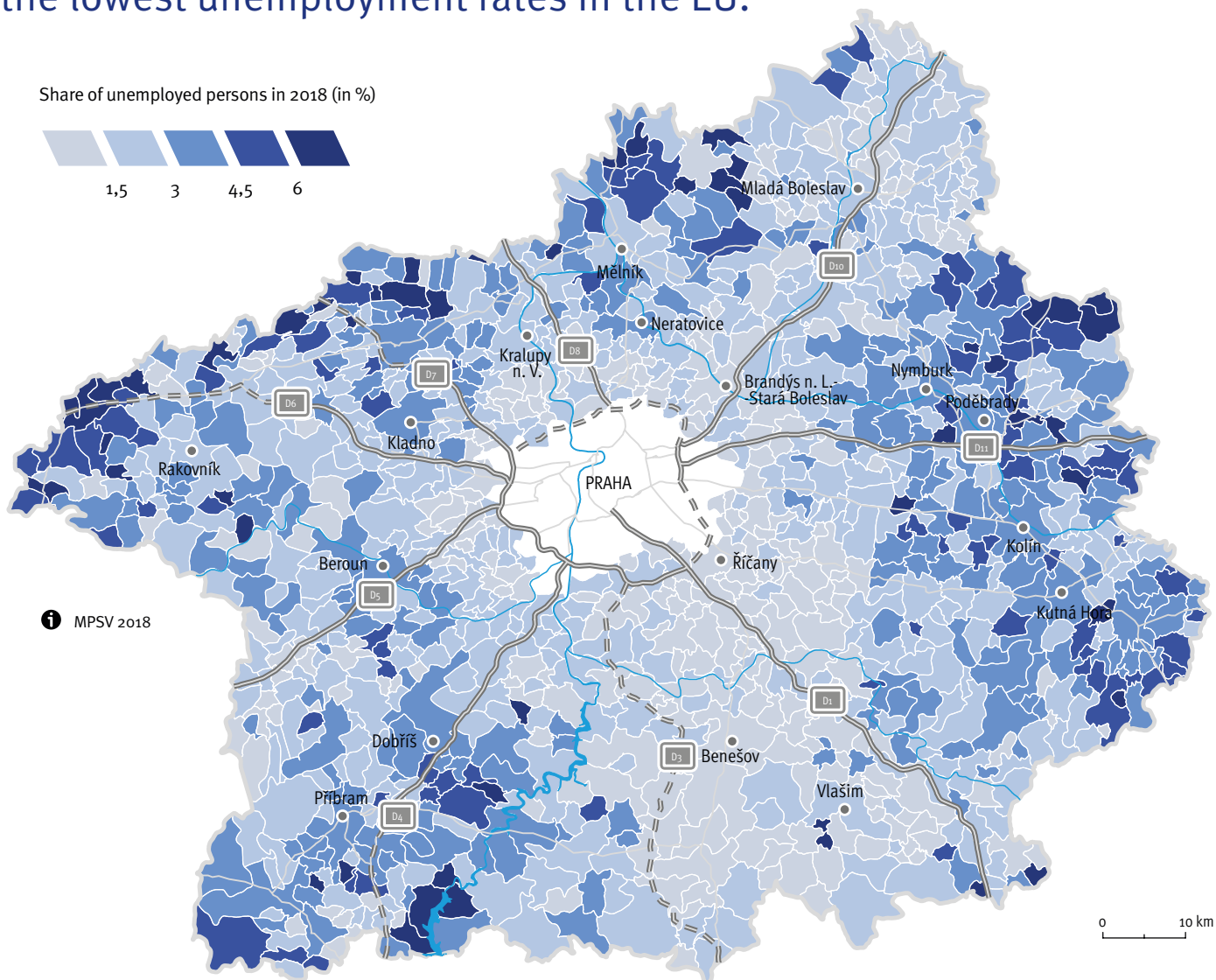
PETR DAŘÍLEK, MANAGING DIRECTOR

“Our gluten-free beer really came out well, we are quite happy about it. We are probably the third Czech brewery producing a gluten-free beer. The main thing for us was to keep the original taste of beer.”

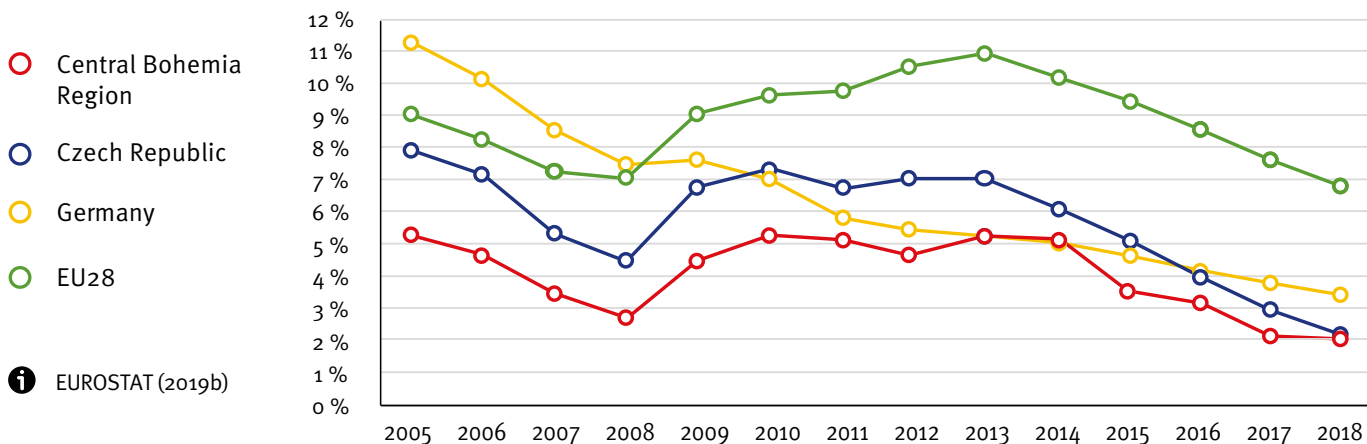
The Ferdinand brewery used the Innovation voucher for cooperation with the experts from the laboratories of Food Research Institute Prague. The result of this research is a gluten-free beer following the modern trends of healthy nutrition and special needs of celiac patients. Another beer with a genuine herbal extract will soon be launched by the company.

Unemployment

The Central Bohemia Region has an active job market with one of the lowest unemployment rates in the EU.



Unemployment rate 2005–2018



The unemployment rate in the Central Bohemia Region has long been 1 to 2% lower than the national average, and is well below the average of the EU28 countries. This is evidence of a strong regional economy and an active job market. Presently, the unemployment rate in the Central Bohemia Region is one of the lowest in the EU, at 2%.

However, unemployment varies significantly in the different parts of the region, reflecting the development and economic strength of individual localities.

In the ring of towns surrounding Prague,

the unemployment rate is minimal. In the Prague-East and Prague-West Districts, it has long been around 2% thanks to their proximity to Prague, a strong economic centre, where much of the population commutes to work, and this is also due to the very favourable social and economic structure of the municipalities of Greater Prague.

In contrast, in the peripheral areas on the edges of the administrative border of the region, there are towns where unemployment occasionally reaches or exceeds the 10% threshold. The specific

development of a low unemployment rate along with high salaries can be found not only in the vicinity of Prague, but also around Mladá Boleslav, thanks to the high concentration of economic activity connected to Škoda Auto. Even though Mladá Boleslav is not a big town by Czech standards, the number of job opportunities is very high, exceeding the level of other cities in the region.

Unemployment in the Central Bohemia Region has long been low when compared to other Czech and European regions. This is proof of not only of the

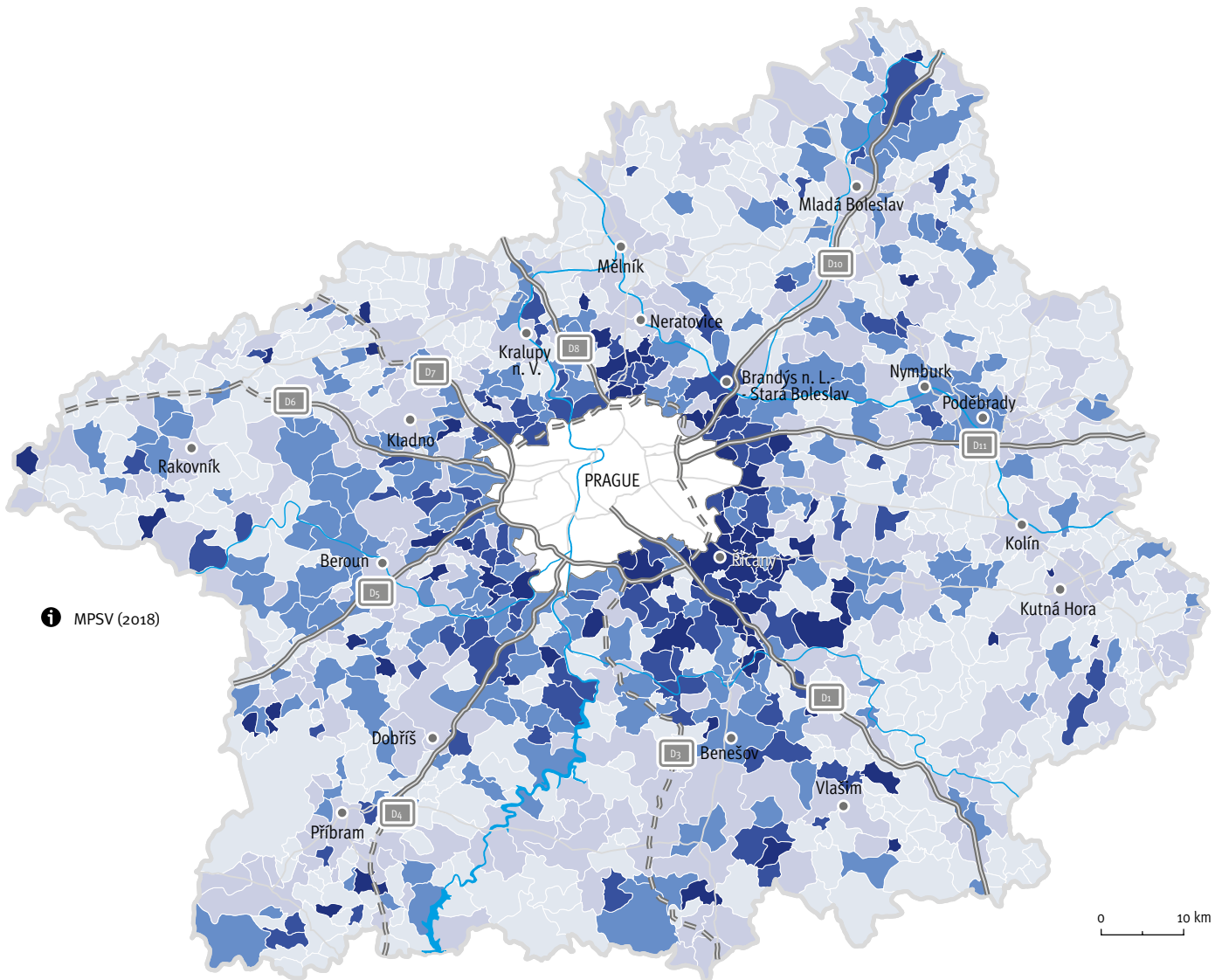
region's attractiveness for investors, who create the new jobs, but also of the historical tradition of the manufacturing industry, which has a positive effect on the enthusiasm and industriousness of the population.

For sophisticated economic activities in particular those based on research, development, and innovation, the total available workforce in the labour market is not as decisive as the highly qualified professionals and specialists. In this respect, the Central Bohemia Region also has plenty to offer to investors.



Qualified Workforce

Educated, creative and enterprising people are an essential part and a condition for development of regional innovation and business environments.



i MPSV (2018)

Share of skilled job applicants in 2016 (in %)



Share of applicants in ISCO 1-3 groups (managers, professionals, technicians and associate professionals) per total number of job applicants.



Educated and professionally competent people available in the job market are becoming a “strategic commodity” in the 21st century economy. Creativity, talent and education are crucial conditions for future economic development. The Central Bohemia Region is developing this “strategic commodity”, offering a cultured environment for investors.

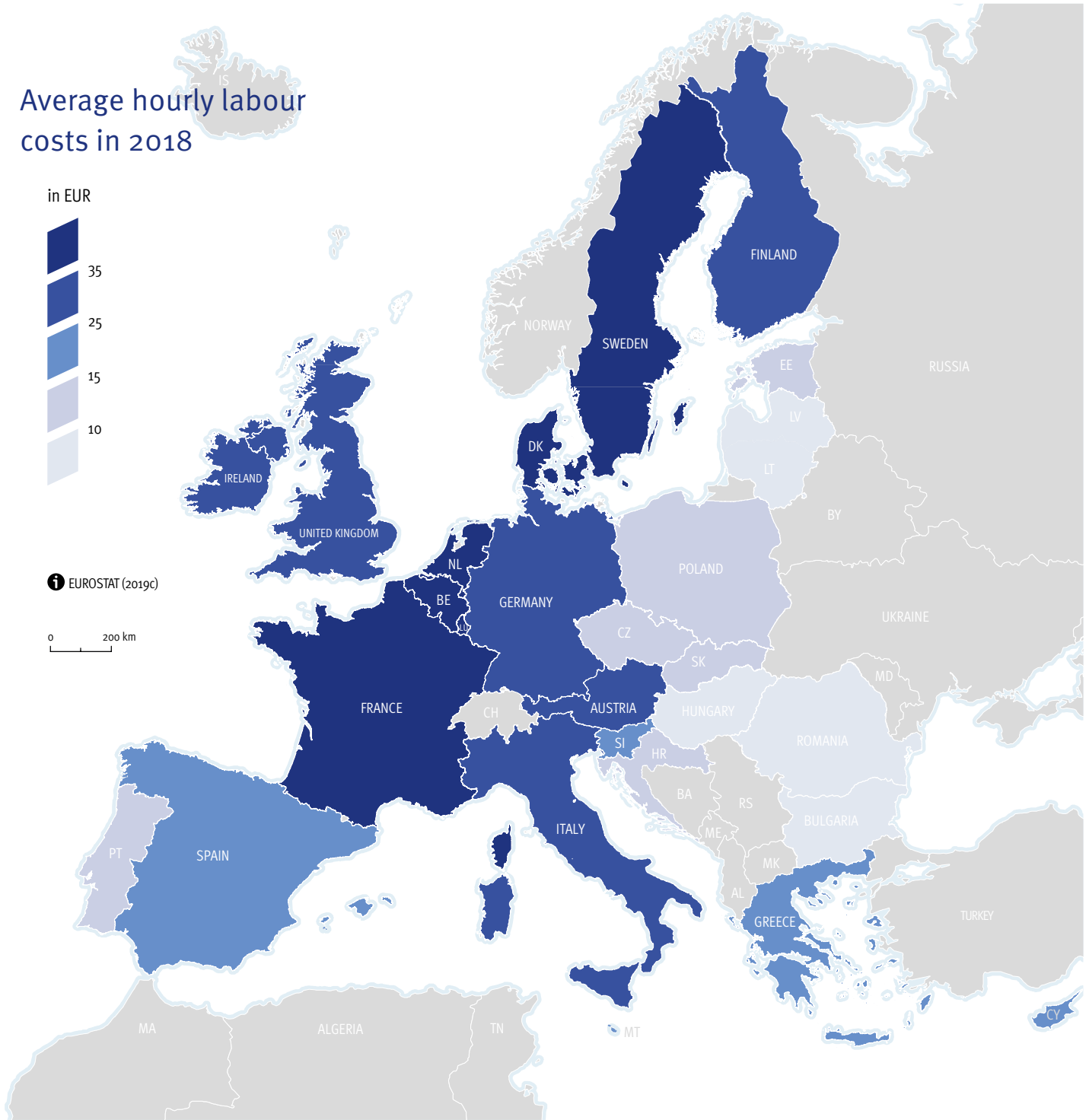
The skilled workforce, which includes managers, specialists and technicians, is mostly concentrated in the vicinity of Prague. The available people on the labour market demanding these positions make more than 50% of all candidates in the towns near the Czech capital, which is evidence of the highly skilled people in these localities. The process of suburbanisation in the greater Prague over the last 20 years has concentrated a big share of young, educated people with a high human and social capital. This has resulted in development potential, in particular with regards to research, development, and innovation. Young, educated and creative people make a substantial part of the population.

High concentrations of highly qualified workforce can also be found in some regional centres and their vicinities. Typical examples are Mladá Boleslav, Poděbrady, Benešov, among others. Even though the concentrations of highly qualified people in these towns does not reach the levels of the suburban areas around Prague, these cities and their vicinities have become very attractive for investment in the manufacturing industry seeking a skilled workforce.

It is mainly in these parts of the region where the potential for the development of economic activities with high added value based on innovation and research is the highest. Nevertheless, thanks to the development of a quality transport and data infrastructure, it can be expected that the conditions will improve in the other parts of the region, too.



Average hourly labour costs in 2018



- AL** Albania
- BA** Bosnia and Herzegovina
- BE** Belgium
- BY** Belarus
- CY** Cyprus
- CZ** Czech Republic
- DK** Denmark
- EE** Estonia
- HR** Croatia
- CH** Switzerland
- IS** Iceland
- LT** Lithuania
- LU** Luxembourg
- LV** Latvia
- MA** Morocco
- MD** Moldova
- ME** Montenegro
- MK** Macedonia
- MT** Malta
- NL** Netherlands
- PT** Portugal
- RS** Serbia
- SI** Slovenia
- SK** Slovakia
- TN** Tunisia

Average monthly wages in 2018 (in thousands CZK)



Labour Costs and Salaries

The region offers highly qualified people, a long industrial tradition and labour costs that remain very competitive when compared to Western European Countries.

The Central Bohemia Region has a long industrial tradition, an environment of high-quality research infrastructure, a skilled workforce and a very good geographic location near the most developed Western European countries. Another competitive advantage gaining importance in the knowledge economy of the 21st century is the availability of a creative, qualified and talented workforce and labour costs that are very competitive when compared to many of the regions of Western countries.

Even though labour costs are an important factor playing a major role for investors deciding on the location of their companies, there is a difference between their importance in simpler manufacturing activities and in sophisticated activities with high added value (e.g. R&D). In the past, when investors decided on a location that provided simpler manufacturing or assembly activities, low labour costs were one of the main factors influencing the location of a business in the region.

Now, it is evident that for the more sophisticated economic activities based on research and innovation, labour costs are not as important as competence, knowledge and the ability to find innovative solutions in the development and marketing of products and services.

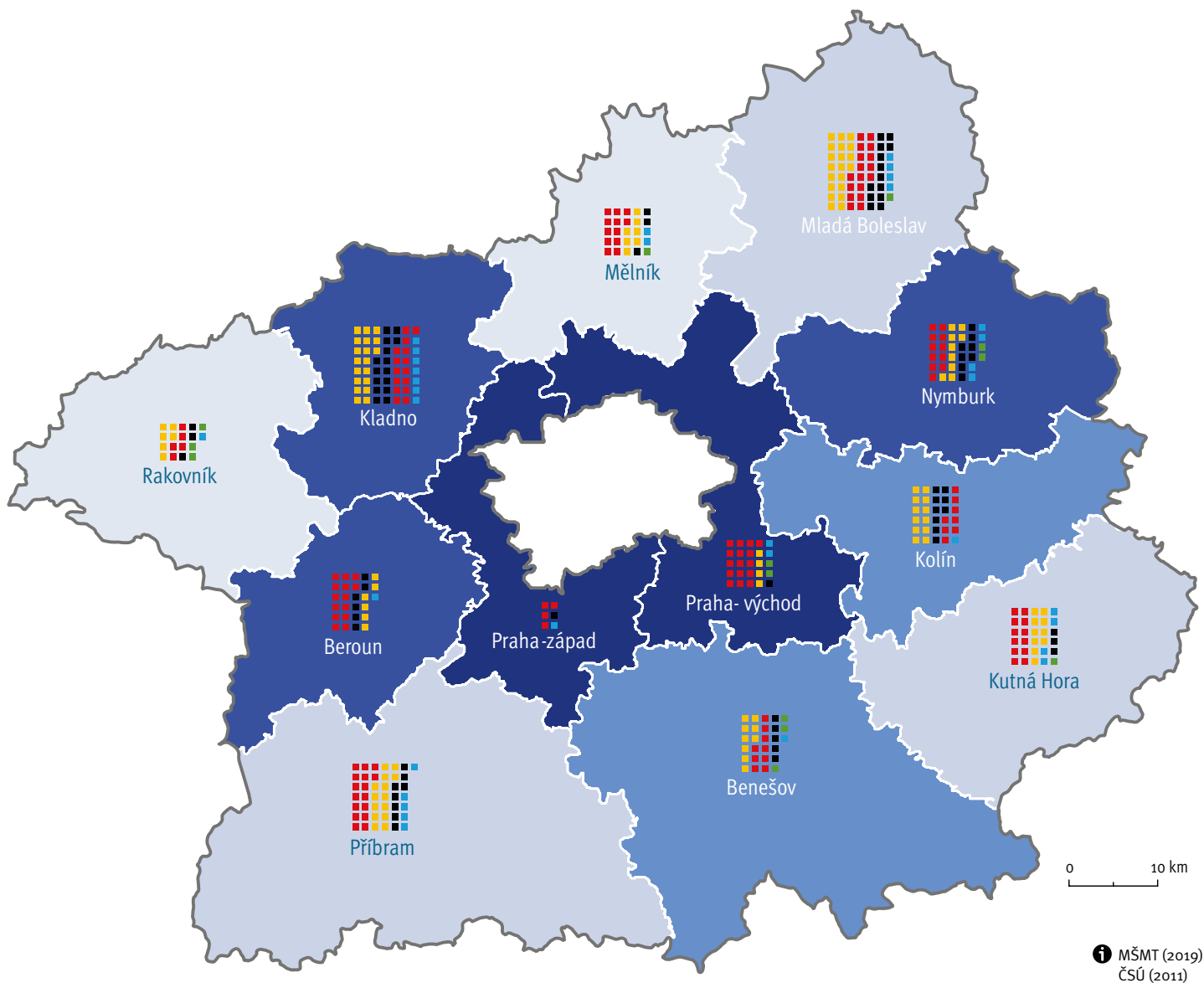


The position of the Central Bohemia Region at the boundaries of the Western and Central European economies is enhanced by the differences in labour costs between the western and eastern part of the EU. Even now, the average labour costs per employee in corporate sector in the Czech Republic are about one-third lower than, for instance, in Germany, Austria or France. Of course, in the case of highly qualified staff, this difference is somewhat smaller.

A comparison with the labour costs in other Czech regions also illustrates the high competitiveness of the region's population. When compared to the other regions of the Czech Republic, salaries in the Central Bohemia Region are slightly above average, indicating a higher concentration of qualified people and of economic activities with higher added value than in most of the country.

Education and Schools

The Central Bohemia Region has a high educational level and a diversified structure of middle schools that prepare future graduates for the regional job market.



Students according to the school focus 2017-2018



Share of university educated in the population over 15 years in 2011 (in %)



All stakeholders of the educational system in the Central Bohemia Region are aware that a high-quality education is indispensable for the development of competent, creative and talented people, who will be a “strategic commodity” in the 21st century economy, and the structure of the educational system is adapting to this fact.

People with university education represent 11.5% of the total population of the region, which is below the national average (13.2% of the total population of the Czech Republic has university education). This is due to the focus of the regional economy on technical fields, and manufacturing, which require more practical skills that are acquired already in the educational process of young people. The Central Bohemia Region has a very well developed and diversified selection of educational programmes for middle school pupils, with a long tradition. The highest proportion of people with a university education is found in greater Prague, mainly due to the influx of the young, educated population from the capital. In contrast, the technical fields are represented the most in mid-size towns such as Mladá Boleslav, Nymburk, Kolín and Kladno, where major manufacturing companies are concentrated, mainly in the automotive, engineering or chemical industries.

The links between schools and companies has in Central Bohemia a long tradition that was interrupted for some time during the economic transformations at the turn of the 1980s and 90s. However, in recent decades there has been a renewed effort to connect middle schools with employers in relevant fields. Following agreements with the corporate sector, schools educate graduates in the fields that are in demand on the job market. Companies and schools, however, are aware of the need to react not only to the present, but also to the future demands of the job market arising from the latest trends in digitalisation, cybernetisation and automation of production, known as Industry 4.0.

Data Sources

AGORA (2019):

Intermodal terminals in Europe. AGORA-Group, Frankfurt am Main.
<http://www.intermodal-terminals.eu/database/> [cit. 30. 6. 2019].

ArcČR 500 (2017):

Digital Vector Geographic Database of the Czech Republic. ArcData, Prague.

Bisnode (2019):

Internal database of companies. <http://www.magnusweb.cz>

CZECHINVEST (2019):

Investment incentives granted as of 30. 6. 2019, CzechInvest: The investment and business development agency, Prague
<http://www.czechinvest.org/ke-stazeni> [cit. 30. 6. 2019].

ČNB (2019):

Direct foreign investments between 1998 and 2016. The Czech National Bank, Prague.
http://www.cnb.cz/cs/statistika/platebni_bilance_stat/publikace_pb/pzi/index.html [cit. 30. 6. 2019].

ČSÚ (2011):

Census. Czech Statistical Office, Prague. <https://www.czso.cz/csu/sldb> [cit. 24. 4. 2017].

ČSÚ (2019):

Databáze regionálních účtů. Czech Statistical Office, Prague.
http://apl.czso.cz/pll/rocnka/rocnka.indexnu_reg [cit. 30. 6. 2019].

ČSÚ (2019a):

Comparison of regions, selected data, 2015. Czech Statistical Office, Prague.
<https://www.czso.cz/csu/czso/27-uzemni-srovnani-v5cxr41gja> [cit. 30. 6. 2019].

ČSÚ (2019b):

Research and development indicators. Czech Statistical Office, Prague.
<https://www.czso.cz/csu/czso/ukazatele-vyzkumu-a-vyvoje-2015> [cit. 30. 6. 2019].

ČSÚ (2019c):

Average wages 2018. The Czech Statistical Office, Prague.
<https://www.czso.cz/csu/czso/cri/prumerne-mzdy-4-ctvrtleti-2018> [cit. 30. 6. 2019].

European Commission (2019):

R&D ranking of EU top 1000 companies in 2017. <https://iri.jrc.ec.europa.eu/scoreboard17.html> [cit. 15. 08. 2019]

EUROSTAT (2019a):

Regional economic accounts. Eurostat, Luxembourg. <http://ec.europa.eu/eurostat/data/database> [cit. 30. 6. 2019].

EUROSTAT (2019b):

Regional labour market statistics. Eurostat, Luxembourg. <http://ec.europa.eu/eurostat/data/database> [cit. 16. 2. 2019].

EUROSTAT (2019c):

Labour market (labour). Eurostat, Luxembourg. <http://ec.europa.eu/eurostat/data/database> [cit. 24. 4. 2019].

LAVDIS (2019):

Public ports. Elbe – Vltava waterway transport information system, Děčín.
<http://www.lavdis.cz/vodni-cesty/verejne-pristavy> [cit. 30. 6. 2019].

MPSV (2019):

Unemployment database 2018. Ministry of Labour and Social Affairs, Prague. Internal database.

MŠMT (2019):

Secondary schools and vocational colleges 2017–2018. Ministry of Education, Youth and Sports, Prague. Internal database.

SŽDC (2019):

Transport corridors. Správa železniční dopravní cesty (Railway Infrastructure Administration), Prague.
<http://www.szdc.cz/soubory/mapy/koridory-zjednodusene.pdf> [cit. 30. 6. 2019].

ŠKODA AUTO (2017):

120 years of Škoda heritage. Škoda Auto Czech Republic, Mladá Boleslav.
<http://www.skoda-auto.cz/o-spolecnosti/120-let-skoda> [cit. 24. 4. 2017].

List of acronyms

CAS	Czech Academy of Sciences
CBIV	Central Bohemian innovation vouchers
CTU	Czech Technical University in Prague
CULS	Czech University of Life Sciences Prague
CZK	Czech Crown
ČSÚ	Czech Statistical Office
EU	European Union
FDI	Foreign direct investment
GDP	Gross domestic product
GVA	Gross value added
ISCO	International Standard Classification of Occupations
Mio \$	Millions of USD
NUTS	Nomenclature of Units for Territorial Statistics
R&D	Research and development
RES	Renewable Energy Sources
RIS	Research and Innovation Strategy
SIC	Central Bohemian Innovation Centre
SVUM	National Research Institute for Materials in Prague
UCEEB	University Centre for Energy Efficient Buildings



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of the Czech
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Innovations are about people.
Central Bohemia is our home and we
have innovations at heart.



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