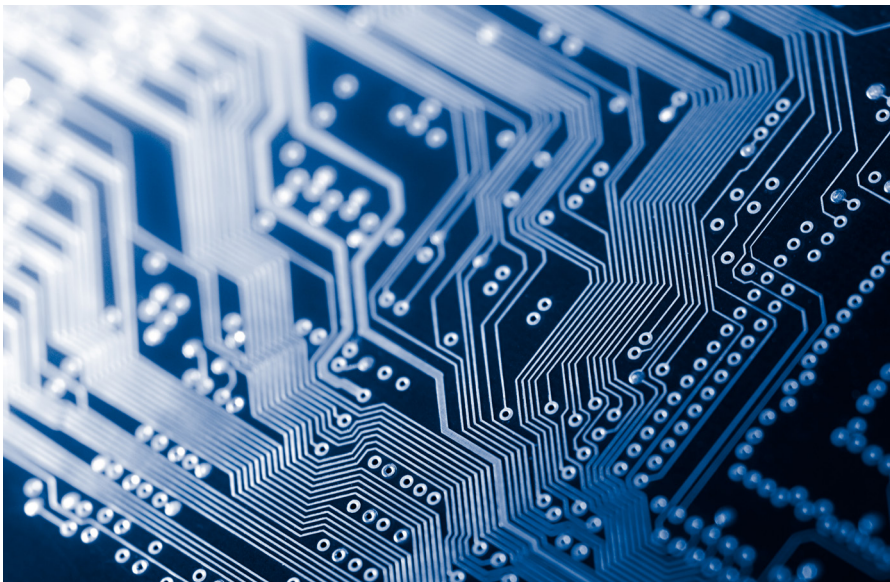


# Electronics & Electrical Components Industry in **SLOVAKIA**



# Electronics & Electrical Components Industry in Slovakia

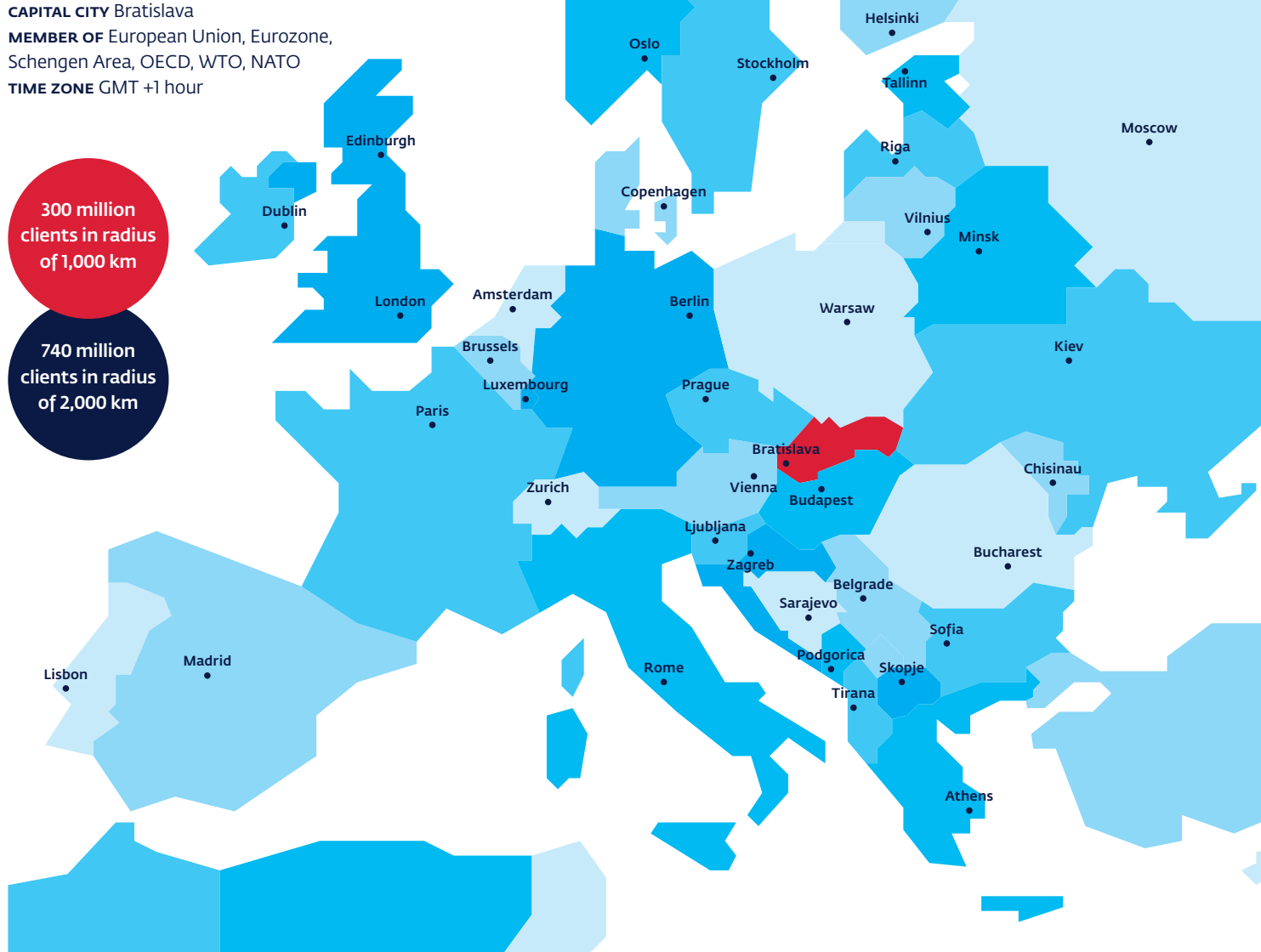
This publication is designed to introduce Slovakia's dynamically growing electronics & electrical components industry (EECI). Herein introduced facts & figures serve to demonstrate sector strengths and to illustrate why Slovakia is an ideal location for doing business in this industry.



**TOTAL AREA** 49,035 km<sup>2</sup>  
**POPULATION** 5.4 million  
**CAPITAL CITY** Bratislava  
**MEMBER OF** European Union, Eurozone, Schengen Area, OECD, WTO, NATO  
**TIME ZONE** GMT +1 hour

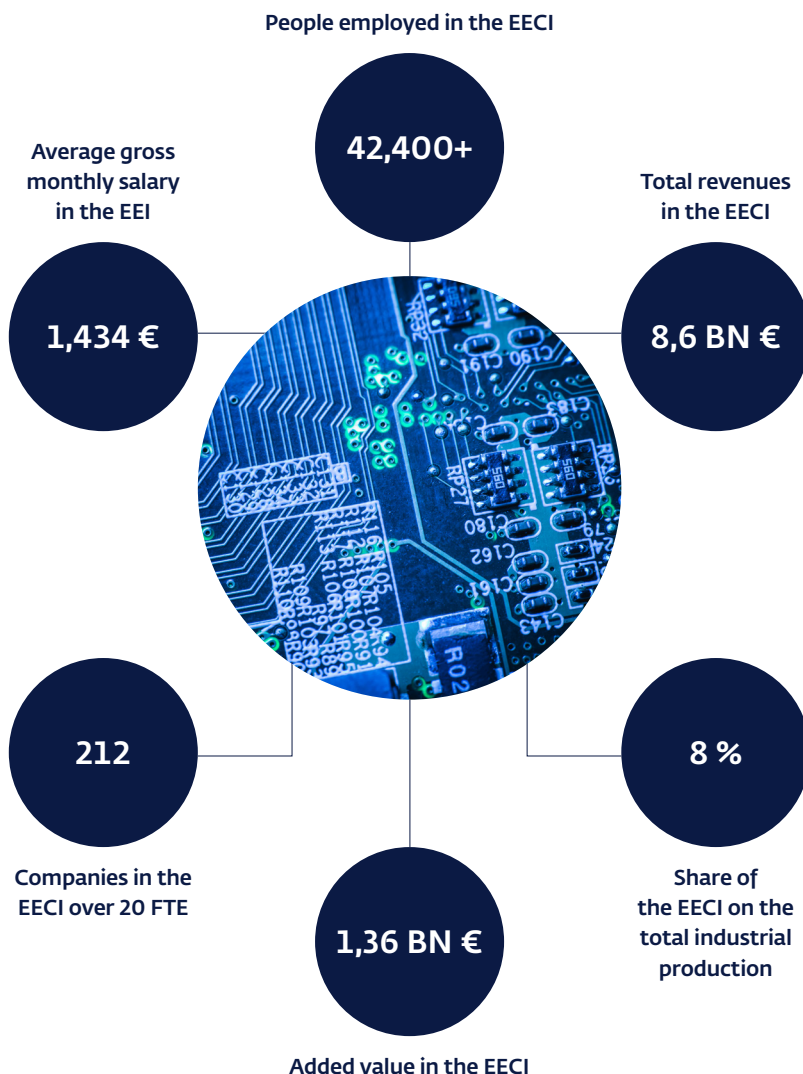
300 million clients in radius of 1,000 km

740 million clients in radius of 2,000 km



# Overview of the Electronics & Electrical Components Industry in Slovakia

The Electronics & Electrical Components Industry (EECI) is considered as one of the main pillars of Slovak economy. Current situation on the market reflects both – traditional electronics manufacturing (power generators, telephones, radios, etc.) and new trends especially connected to the growing automotive industry in Slovakia (electric motors, microelectronics, sensors). Ongoing shift towards e-mobility is creating whole new opportunities for all electrical components suppliers. The EECI is one of the strongest contributors to the country's GDP, plays a significant role in the industrial output and is also one of the biggest employers in the country.



\*Only companies with more than 20 employees included.  
Source: Statistical Office of the Slovak Republic, Yearbook of Industry of the SR 2023



## Top 10 Reasons to Invest in Slovakia

- 1 Strategic location in Europe with great export potential
- 2 Political & economic stability
- 3 Euro currency as one of a few in the CEE
- 4 CEE leader in labour productivity
- 5 Cost-effective, skilled and educated labour force
- 6 Excellent multilingual skills
- 7 One of the most open economies in the world
- 8 Great potential for R&D and innovation
- 9 Developed & steadily growing infrastructure network
- 10 Attractive investment incentives

# When History Creates Strong Companies — Over 120 Years of Experience

- 1893 — **Helios** — telephones, dynamos, motors (the first electronics company established in Žilina)
- 1902 — **BEZ Transformátory** — transformers (company still in operation)
- 1947 — **Křížík Prešov** — electricity meters (currently Křížík GBI)
- 1949 — **SEZ Krompachy** — switches, sockets, circuit breaks (still in operation)
- 1950 — **Tatramat Poprad** — boilers, ovens (still in operation)
- 1950 — **Tesla Liptovský Hrádok** — telecommunication devices (still in operation)
- 1955 — **Služba Nitra** — fuse boxes, lighting for automotive industry (still in operation)
- 1960 — **Tesla Stropkov** — telephones, home communication systems (still in operation)
- 1975 — **MEZ Michalovce** — electric motors (currently BSH Drives & Pumps)

## Example of Successful Transformation — BEZ Transformátory

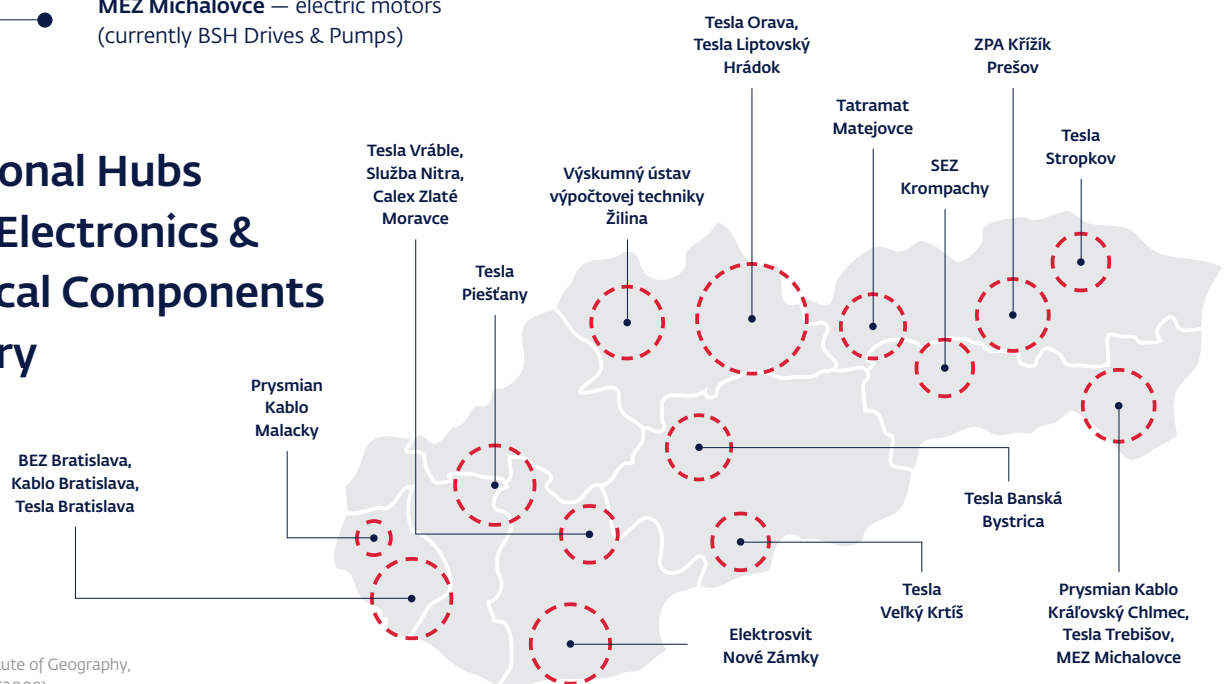


Traditional labour intensive production in the 60s



Current production using modern technologies

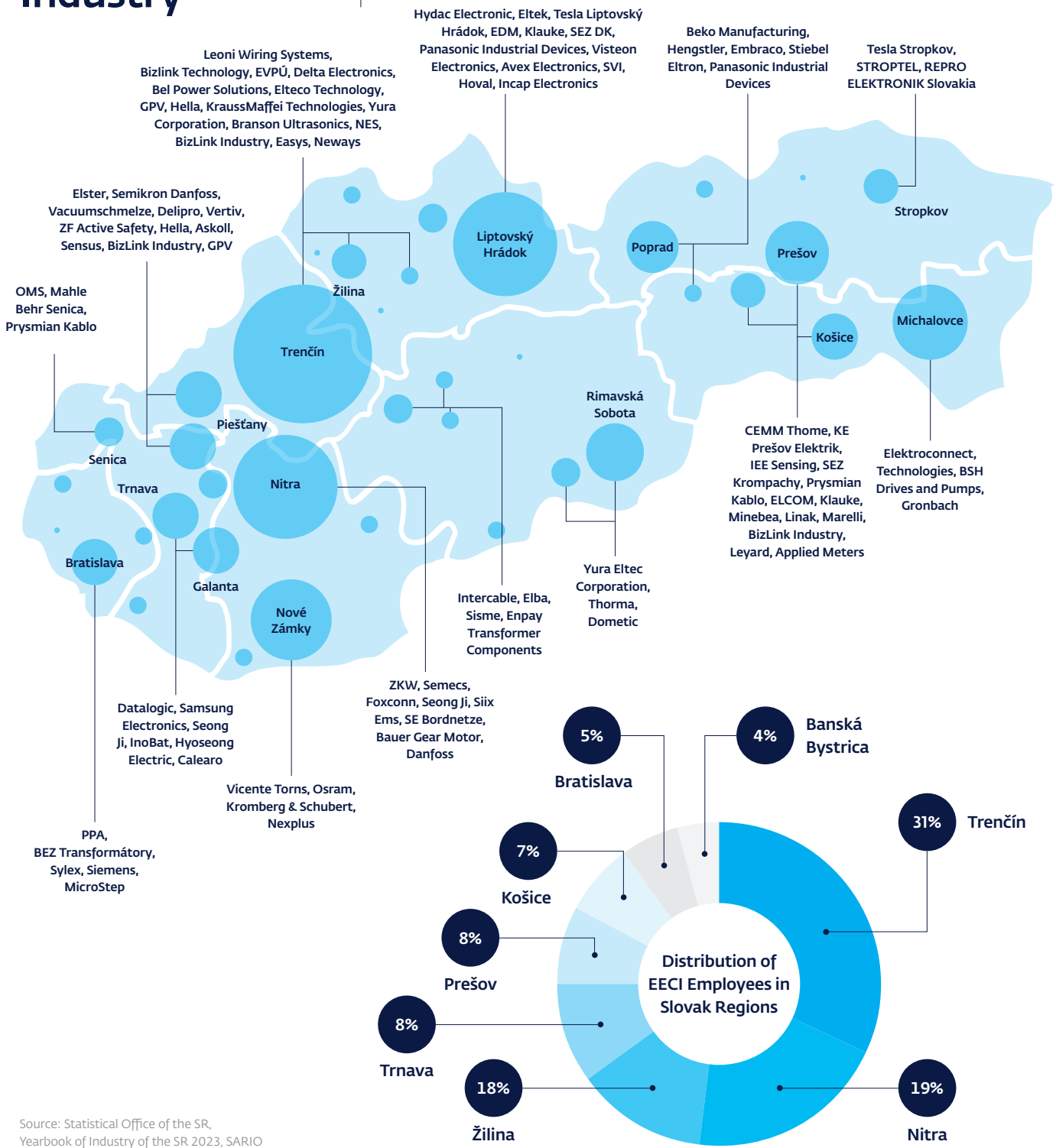
## Traditional Hubs of the Electronics & Electrical Components Industry



Source: UPJS, Institute of Geography, Faculty of Science (2008)

# Today's Regional Distribution of the Electronics & Electrical Components Industry

Electrical engineering companies are located across whole Slovakia. Some regions have had historically a strong tradition in this sector, others have been shaped by new global players and their suppliers coming to the region (e.g. Minebea in Košice). Significant number of EECI companies are connected to the automotive industry supplier network.



Source: Statistical Office of the SR, Yearbook of Industry of the SR 2023, SARIO

# Electronics & Electrical Components Industry in Line with the Automotive Industry



New Volvo Cars facility with production capacity of 250 ths. purely electric vehicles per year will start operation in 2026 in Košice

Slovakia is even currently the biggest car producer (per capita) in the world. In addition to 4 OEMs already established in Slovakia (Volkswagen, Kia, Stellantis, Jaguar Land Rover), Volvo Cars has recently announced new production facility to be opened in Košice in 2026. Slovakia is well known also for its dense network of more than 365 automotive suppliers.

The dominant position of the automotive industry shapes also the electronics & electrical components sector. In order to meet modern safety and fuel economy requirements, OEMs need to cooperate closely with their electronics suppliers. Thanks to this fact companies linked to car production record excellent results. As a result, some of the companies are able to achieve double-digit growth rates every year.

## E-Mobility

Ongoing shift of automotive industry towards the e-mobility is fundamentally changing several key industries in Slovakia, including EECI.

Slovakia as a major world car manufacturer, is focusing on the technological transformation of the concerned industries. Therefore, the major efforts to transform Slovakia into the electromobility hub of the central Europe had been taken by both, public and private sectors. Some of the Slovak companies have already successfully adapted to these trends due to their high technology and innovation potential.



Source: SARIO

### Examples of EECI Suppliers to Automotive

**WIRING HARNESSES & ELECTRONIC COMPONENTS**  
Mahle Behr, Leoni, SE Bordnetze, Calearo, Kromberg & Schubert, Prettl Electrical Systems, EFB-Elektronik, Yura Eltec Corporation, TFC Cables Assemblies, KE Prešov Elektrik, CRT Electronic, Panasonic Industrial Devices, Mkem, SIIX EMS, Služba Nitra, MTA, CEMM THOME, IEE Sensing, Vacuumschmelze, ZF Active Safety, Visteon Electronics, Marelli, Intercable, Bizlink Technology, Robert Bosch Production, Elektroconnect, BizLink Industry, Prysmian Kablo, Repro Elektronik, Klauke, Geba Cables and Wires, Cable Connect, Elektroconnect, NP Slovakia, Vertiv, Foxconn

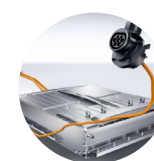
**EXTERIOR & INTERIOR LIGHTS**  
OSRAM, SEC, CEMM THOME, Služba Nitra, ZKW, Hella Slovakia Lighting, LPH Vranov nad Toplou, Clamason

**ANTENNAS**  
Calearo, 2J Antennas

### Examples of Producers from the E-Mobility Sector



**CHARGING STATIONS**  
Delta Electronics, GreenWay Infrastructure, ejoin, Trend Technologies, AgeVolt, SEAK



**CAR BATTERY COMPONENTS**  
Panasonic Industrial Devices, Webasto Convertibles, Intercable, Nexplus, Inobat

## THE LARGEST ELECTRONICS & ELECTRICAL COMPONENTS INDUSTRY COMPANIES IN SLOVAKIA (BY REVENUES)

COMPANY NAME	COUNTRY OF ORIGIN	LOCATION	REVENUES (MIL. EUR)	NUMBER OF FTEs	CORE BUSINESS
Samsung Electronics Slovakia	South Korea	Galanta	1,563	824	LCD modules and LED screens
HELLA Slovakia Lighting	Germany	Kočovce	712	3,283	lighting systems
Foxconn Slovakia	Taiwan	Nitra	624	1,079	LCD and OLED TVs and printed circuit boards
ZKW Slovakia	Austria	Krušovce	585	2,499	headlights for cars, trucks, motorcycles
Panasonic Industrial Devices	Japan	Trstená, Stará Ľubovňa	496*	2,361*	control boards, chargers, speakers, sensors
Visteon Electronics Slovakia	USA	Námestovo	298	578	electronic dashboards
WHIRLPOOL Slovakia	USA	Poprad	289	1,031	household appliances
Embraco Slovakia	Japan	Spišská Nová Ves	271*	2,264*	compressors for household appliances
Vertiv Slovakia	USA	Nové Mesto nad Váhom	241	1,153	air conditions and power systems
Applied Meters	Slovakia	Prešov	207	66	electronic electricity meters and equipment
GPV Slovakia (Nova)	Denmark	Nová Dubnica	179	587	printed circuit boards
BSH Drives and Pumps	Germany	Michalovce	176	770	electric motors for household appliances
Semikron Danfoss	Germany	Vrbové	176	646	power semiconductor modules
Delta Electronics (Slovakia)	Taiwan	Dubnica nad Váhom	172	580	power supplies, rectifiers, inverters
Prysmian Kablo	Italy	Bratislava, Veľké Leváre, Záborské	167	356*	optical fibers and telecommunication cables
INTERCABLE	Italy	Kriváň	167	763	cable systems for automotive
Siemens	Germany	Bratislava	128	593	various electrical components
NEXPLUS SK	South Korea	Šurany	120	258	battery components for automotive
VICENTE TORNS SLOVAKIA	Spain	Veľké Kosihy	118	121	copper and aluminium products for the electrical sector
LEONI Wiring Systems Slovakia	Germany	Stará Turá	115	577	electronic meters
BizLink Industry Slovakia	Germany	Stará Turá, Ilava, Jaklovce	97	902	electrical wires and wire harnesses
LEONI Wiring Systems Slovakia	Germany	Trenčín, Ilava, Dubnica nad Váhom	115	1,178	whole cable systems, e-mobility development
Etek	Taiwan	Liptovský Hrádok	107	703	backup power source devices
BizLink Industry Slovakia	Germany	Stará Turá, Ilava, Jaklovce	96	869	electrical wires and wire harnesses
KraussMaffei Technologies	Germany	Sučany	91*	473*	electrical cabinets, reactive processing machines
Shin Heung Precision Slovakia	South Korea	Šaľa - Veča	87	97	plastic and metal products for TV sets
HYDAC Electronic	Germany	Tvrdošín	83	491	electrical components for automotive
Minebea Slovakia	Japan	Košice	81*	508*	electrical components for automotive
OSRAM	Germany	Nové Zámky	80*	836*	lighting systems

\*Data for 2022 (last available)

Source: Finstat (2024), Financial statements of the particular companies (2023)

# Qualified, Productive & Cost-Effective Labour Force

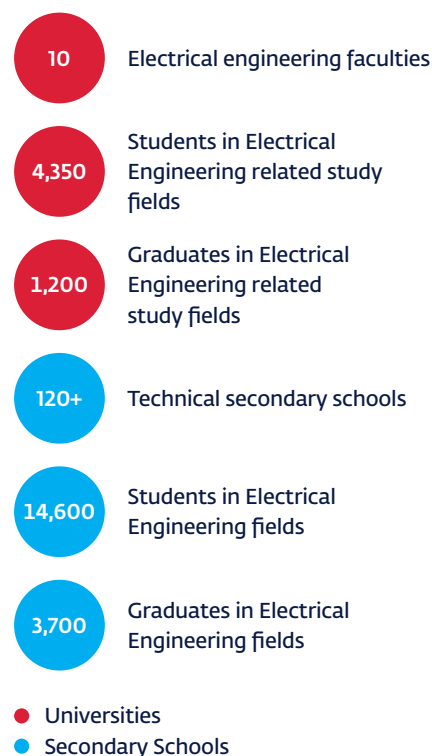
For investors active in electronics & electrical components industry, availability of skilled workforce is a key factor for location selection. Slovak labour force offers outstanding level of productivity and qualification, while still remaining cost-competitive on regional as well as European levels.

More than 1,900 companies and 9,000 students joined the dual education in academic year 2023/2024

## DUAL EDUCATION

The Slovak Government has fully implemented a new dual education framework facilitating combination of theoretical education in schools and practical training in companies. The companies joining the new scheme have the advantage of not only benefiting from a prepared and qualified labor force, but also from the possibility to utilize a related tax relief and other financial benefits.

## EECI Related Education in Slovakia



## AVERAGE GROSS MONTHLY SALARY IN THE EECI (SELECTED POSITIONS/EUR)

POSITION		BRATISLAVA	TRNAVA	NITRA	TRENČÍN	ŽILINA	BANSKÁ BYSTRICA	PREŠOV	KOŠICE
CNC Operative	Min.	1,600	1,700	1,600	1,400	1,400	1,400	1,100	1,200
	Max.	2,000	2,000	2,000	1,800	1,800	1,800	1,400	1,500
Electrical Operative	Min.	1,600	1,500	1,600	1,500	1,500	1,500	1,200	1,300
	Max.	1,800	2,000	1,800	2,000	2,000	2,000	1,400	1,500
Production Operative	Min.	1,000	950	1,000	1,100	1,100	1,100	850	950
	Max.	1,400	1,350	1,400	1,400	1,400	1,400	1,150	1,200
Electrical Design Engineer	Min.	1,800	1,800	1,800	1,700	1,700	1,700	1,400	1,500
	Max.	2,800	2,800	2,800	2,200	2,200	2,200	1,800	2,000
Production Manager	Min.	3,300	3,000	3,300	2,900	2,900	2,900	2,500	2,800
	Max.	4,500	4,000	4,500	4,000	4,000	4,000	3,500	3,800

Source: Institute of Education Information & Prognosis of Slovakia for the Academic Year 2023/2024, Grafton Slovakia, 2024



# Growing R&D & Innovation Network

Highly qualified workforce at affordable costs, presence of technology cluster and established cooperation between companies and domestic universities motivate companies to establish their R&D divisions in Slovakia.

## R&D SUCCESS STORIES IN ELECTRONICS & ELECTRICAL COMPONENTS INDUSTRY



### OSRAM

Household & automotive lighting



### LEONI

Cable harnesses & switches



### GPV

Circuit boards & related products



### ELCOM

Cash registers & industrial PCs



### MICROSTEP

Smart plasma cutting CNC machines



### BSH Drives and Pumps

Electric motors and pumps

## ECCI R&D PLATFORMS RUN BY THE UNIVERSITIES



### TECHNICOM SCIENCE PARK Technical University of Košice

Science park focused on research of electrical engineering, automation and control systems.

Working on various projects:

- engineering and certification lab for innovation in electronics
- UWB sensor technologies
- design of electro-mechanical actuator systems



### THE NATIONAL ROBOTICS CENTER Slovak University of Technology in Bratislava

Center focused on research, support and development of robotics.

Working on various projects:

- mobile and service robotics
- industrial and medical robotics
- intelligent control methods

# Electronics & Electrical Components Industry Platform



## The Association of Electrotechnical Industry of the Slovak Republic (ZEP SR)

- headquartered in Bratislava
- established 1991
- brings together 100 companies in the fields of electrical engineering, electronics, information and communication technologies
- members employ more than 14 000 people

### ZEP activities

The aims of the association include supporting research activities in Slovakia by networking companies with technical universities and help to enhance a mutual cooperation.

## The Slovak Academy of Sciences



### The Institute of Electrical Engineering is currently focused on:

- physics and technology at nanoscale
- III-V compound semiconductors
- microelectronic sensors and detectors
- applied superconductivity & much more

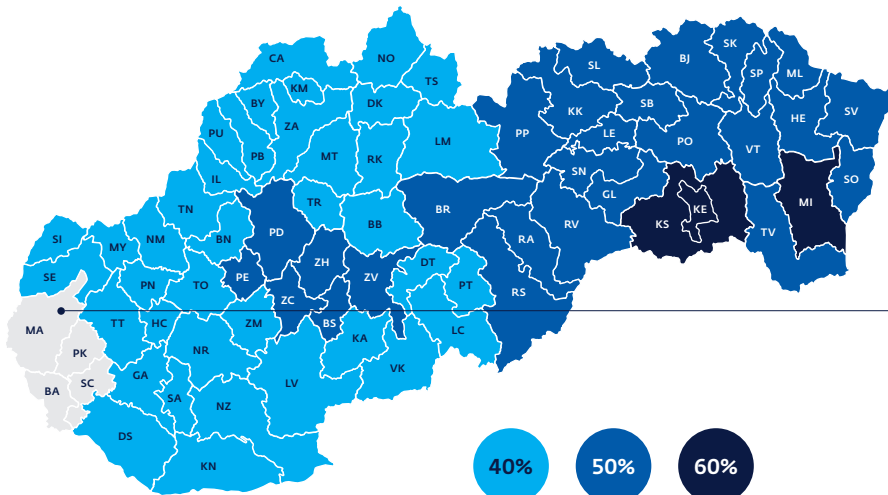
# Investment Incentives

The primary goal of the investment incentives is to motivate investors to place their new projects in regions with higher unemployment and to attract projects with higher added value.



Districts in Bratislava region are excluded from the investment aid scheme

## MAXIMUM REGIONAL INVESTMENT AID INTENSITY



### ELIGIBLE PROJECTS

The Act on Investment Incentives divides the projects, which may be supported, into four categories:

- industrial production
- technology centers
- combined projects of industrial production and technology center
- shared services centers

### ELIGIBLE COSTS

- Costs of land acquisition
- Costs of buildings acquisition & construction
- Costs of new technological equipment and machinery acquisition
- Intangible long-term assets — licences, patents, etc.
- Rent of new land/building
- or
- Total wage costs of all new employees calculated over a period of 2 years

+10% additional incentives for medium-sized enterprises

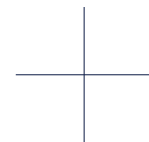
+20% additional incentives for small and micro-sized enterprises

+10% additional incentives for projects related to critical technologies

### FORMS OF INVESTMENT INCENTIVES

- Corporate income tax relief
- Cash grant
- Contributions for the newly created jobs
- Rent/Sale of real estate for a discounted price

Please contact us at [invest@sario.sk](mailto:invest@sario.sk) for more information (including minimum conditions and critical technologies definition).



Positive regional contribution of a new investment projects shall be concluded based on these categories — investment location, number of jobs created, average gross monthly salary of new employees, expected added value and possible qualification of a project respecting definition of a priority area



## AIM INVESTMENT AWARDS UAE 2022

CEE & TURKEY REGION  
Best Investment Promotion Agency in 2022



# SARIO Profile

Slovak Investment and Trade Development Agency (SARIO) is a governmental investment and trade promotion agency of the Slovak Republic. The agency was established in 2001 and it operates under the Ministry of Economy of the Slovak Republic.

## 01 INVESTMENT SERVICES

### FOR POTENTIAL INVESTORS

- investment environment overview
- organization of the investor´s visits of Slovakia
- starting a business consultancy
- sector and regional analyses
- investment incentives consultancy
- site location & suitable real estate consultancy

### FOR ESTABLISHED INVESTORS

- identification of local suppliers, service providers
- assistance with expansion preparation and execution
- assistance with Industry 4.0 solutions and R&D implementation

## 02 FOREIGN TRADE SERVICES

### IF YOU ARE LOOKING FOR

- Slovak supplier or sub-contractor
- information about Slovak export/trade environment
- sourcing opportunities
- forming a joint venture, production cooperation or other forms of partnership with a Slovak partner

### SERVICES FOR EXPORTERS

- information on foreign territories
- customized search for foreign partners
- online database of business opportunities
- export Training Centre
- subcontracting assistance

## 03 SLOVAK SPACE OFFICE

### FOR SLOVAK ENTITIES

- tailor-made sector entry consultancy
- startup creation through hackathons and incubation programs
- cooperation opportunities through matchmaking events
- internationalization of the Slovak space companies and research institutions

### FOR FOREIGN PARTNERS

- customized search for local partners
- assistance with establishing branch in Slovakia
- cooperation on space industry events

**SARIO IS YOUR ONE STOP SHOP FOR INVESTMENT & TRADE IN SLOVAKIA.  
TALK TO US TODAY!**

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