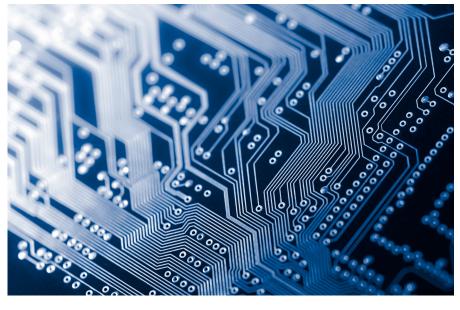
Electronics & Electrical Components Industry in **SLOVAKIA**



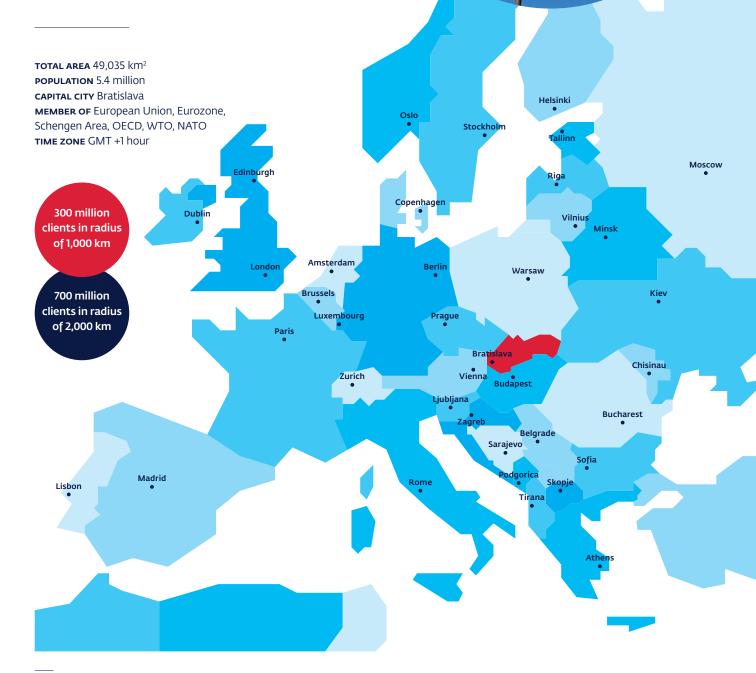






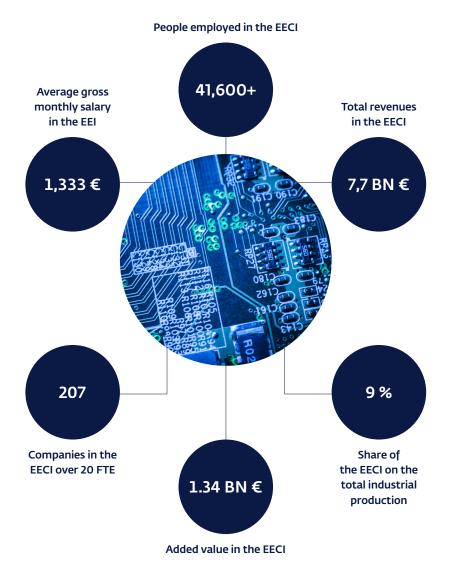
Electronics & Electrical Components Industry in Slovakia

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.



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 2022



Top 10 Reasons to Invest in Slovakia



Strategic location in Europe with great export potential



Political & economic stability



Euro currency as one of a few in the CEE



CEE leader in labour productivity



Cost-effective, skilled and educated labour force



Excellent multilingual skills



One of the most open economies in the world



Great potential for R&D and innovation

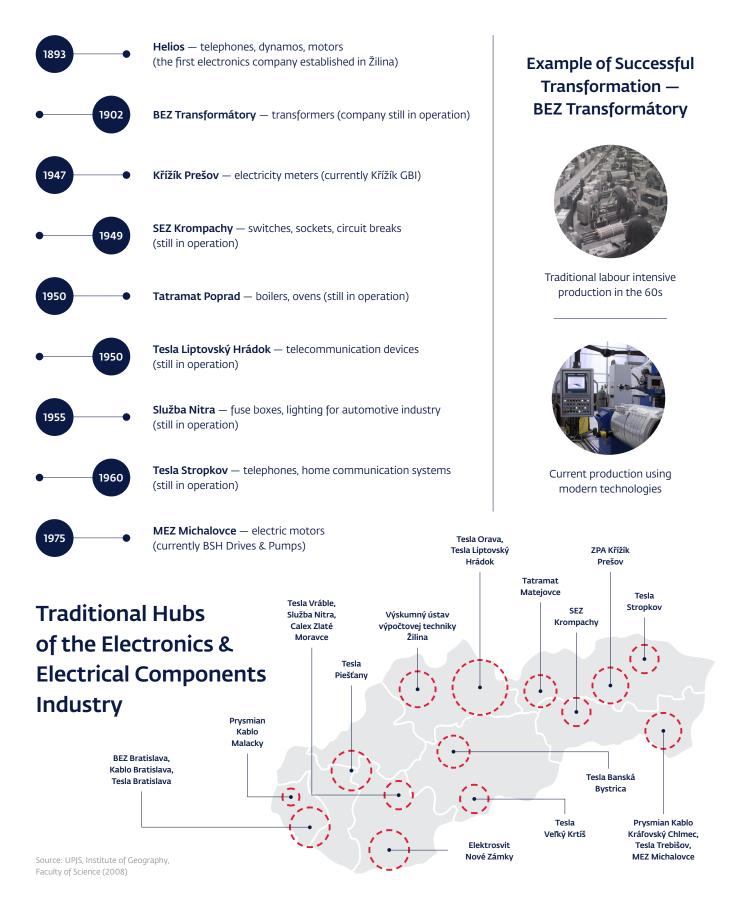


Developed & steadily growing infrastructure network



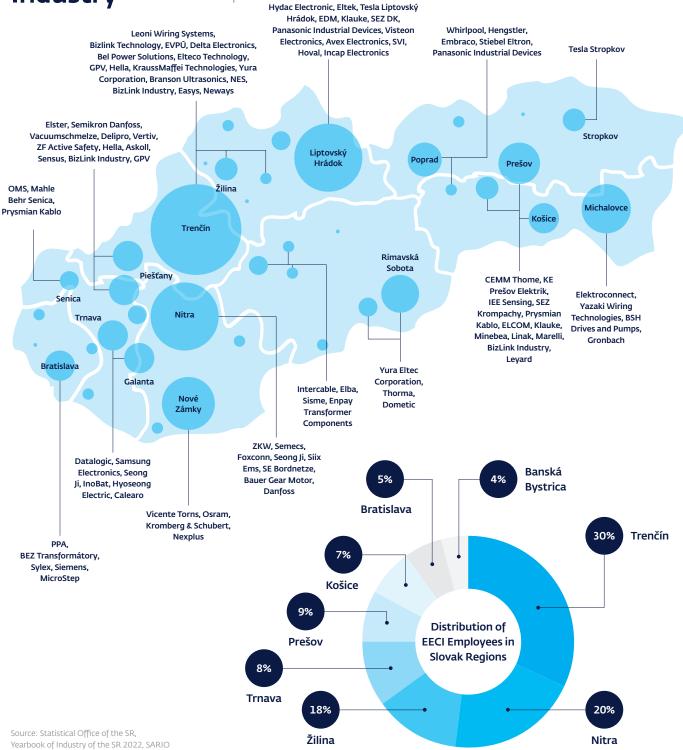
Attractive investment incentives

When History Creates Strong Companies — Over 120 Years of Experience



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.



Electronics & Electrical Components Industry in Line with the Automotive Industry

Ca prod of 250 vehi start

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 350 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, Yazaki, 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

EXTERIOR & INTERIOR LIGHTS

OSRAM, SEC, CEMM THOME, Služba Nitra, ZKW, Hella Slovakia Lighting, LPH Vranov nad Toplou

ANTENNAS

Calearo

Examples of Producers from the E-Mobility Sector



CHARGING STATIONS

MSM Group, Delta Electronics, GreenWay Infrastructure, ejoin



CAR BATTERY & BATTERY PARTS

Panasonic Industrial Devices, Webasto Convertibles, Intercable, Nexplus

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	1,648	736	LCD modules and LED screens	
Foxconn Slovakia	Taiwan	Nitra	972	1,260	LCD and OLED TVs and printed circuit boards	
Panasonic Industrial Devices Slovakia	Japan	Trstená, Stará Ľubovňa	496	2,361	control boards, chargers, speakers, sensors	
ZKW Slovakia	Austria	Krušovce	396	2,236	headlights for cars, trucks, motorcycles	
HELLA Slovakia Lighting	Germany	Kočovce	367	3,293	lighting systems	
Embraco Slovakia	Japan	Spišská Nová Ves	313*	2,275*	compressors for household appliances	
WHIRLPOOL Slovakia	USA	Poprad	286*	1,228*	household appliances	
Visteon Electronics Slovakia	USA	Námestovo	246	580	electronic dashboards	
Vertiv Slovakia	USA	Nové Mesto nad Váhom	231	1,199	air conditions and power systems	
Prysmian Kablo	Italy	Bratislava, Veľké Leváre, Záborské	196	356	optical fibers and telecommunication cable	
BSH Drives and Pumps	Germany	Michalovce	162	803	electric motors for household appliances	
ZF Active Safety Slovakia	Germany	Nové Mesto nad Váhom	152	416	automotive safety systems	
INTERCABLE	Italy	Kriváň	143	813	cable systems for automotive	
Semikron Danfoss	Germany	Vrbové	130	692	power semiconductor modules	
GPV Slovakia (Nova)	Denmark	Nová Dubnica	128	562	printed circuit boards	
Vicente Torns Slovakia	Spain	Veľké Kosihy	127	120	electrical wires	
Siemens	Germany	Bratislava	123	577	various electrical components	
NEXPLUS SK	South Korea	Šurany	122	202	battery components for automotive	
Delta Electronics (Slovakia)	Taiwan	Dubnica nad Váhom	118	555	power supplies, rectifiers, inverters	
Elster	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	94	1184	whole cable systems, e-mobility developmen	
KraussMaffei Technologies	Germany	Sučany	91	473	electrical cabinets, reactive processing machines	
Eltek	Taiwan	Liptovský Hrádok	84	647	backup power source devices	
LEYARD EUROPE	China	Záborské	83	224	LCD and LED screens	
DATALOGIC SLOVAKIA	Italy	Zavar	82	226	barcode scanners, printed circuit boards	
HYDAC Electronic	Germany	Tvrdošín	80	477	electrical components for automotive	
Minebea Slovakia	Japan	Košice	81	508	electrical components for automotive	
SIIX EMS Slovakia	Japan	Nitra	62	301	circuit boards for automotive	

°Data for 2021 (last available) Source: Finstat (2023), Financial statements of the particular companies (2022)

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
1,600 companies
and 8,600 students
joined the dual
education in
2021

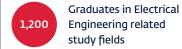
DUAL EDUCATION

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













Universities

Secondary Schools

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

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

Source: Institute of Education Information & Prognosis of Slovakia for the Academic Year 2022/2023, Grafton Slovakia, 2023

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



LEONICable harnesses
& switches



GPVCircuit boards
& related products



ELCOMCash registers & industrial PCs



MICROSTEP Smart plasma cutting CNC machines



BSH Drives and Pumps Electric motors and pumps

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.

EECI 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

The Slovak Academy of Sciences



The Institute of Electrical Engineering is currently focused on:

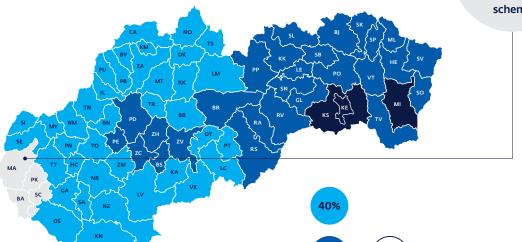
- physics and technology at nanoscale
- III–V compound semiconductors
- microelectronic sensors and detectors
- applied superconductivity & much more

Investment Incentives

MAXIMUM REGIONAL INVESTMENT AID INTENSITY

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.





ELIGIBLE PROJECTS

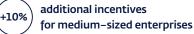
The Act on Investment Incentives divides the projects, which may be supported, into four categories:

- · 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
- Total wage costs of all new employees calculated over a period of 2 years







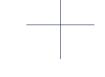


additional incentives for small and micro-sized enterprises

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

*An amendment to the Governmental Regulation no. 195/2018 Coll. is currently in the legislation process. Map of maximum intensities above already reflects these changes (maximum aid intensity in the Western Slovakia increased from 30% to 40%). Please contact us at invest@sario.sk for more information (including minimum conditions).



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
- assistance with investment projects implementation
- · 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 subcontractor
- 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 INNOVATION SOURCING

- matching local tech companies with the operations of large companies that plan to implement innovative solutions to streamline and optimize their processes
- focused mostly on Industry 4.0 solutions such as digitalization, intelligent automation, and robotics as well as advanced and complex IT solutions for various industries
- based on a database of more than 300 local tech companies which is constantly updated and expanded

04 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!

SARIO | Slovak Investment and Trade Development Agency Mlynské nivy 44/b | 821 09 Bratislava | Slovakia

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