

EE/Electronics Industry

The famous **Tamara** radar, which is able to detect even stealth fighters, was produced by **Tesla Pardubice**. The Tamara passive radar system comprises globally unique technology based entirely on receiving RF signals rather than transmitting and receiving them and is thus very hard to detect. The successor of Tesla, **ERA**, is currently manufacturing a new generation of this radar system called **VERA**, which is also used for civilian purposes.



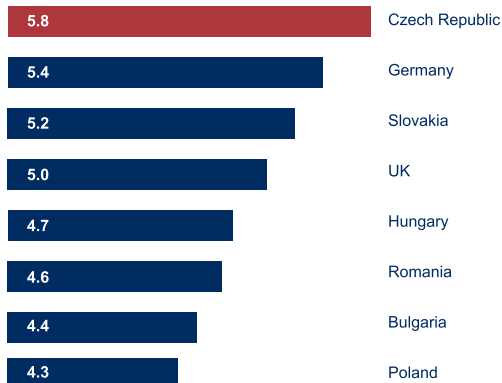
REASONS TO INVEST IN THE CZECH REPUBLIC

- Strategic position in Central Europe, direct transport access to the EU market of nearly 500 million consumers
- Stable business and political environment – EU and NATO membership
- Well-developed transport and telecommunications infrastructure
- Highly developed technical base
- Highly educated workforce, good access to university graduates with technical education
- Strong innovation potential of its people, great potential for R&D projects
- Positive approach of the Czech government, investment support covering up to 60% of eligible costs through a transparent system of investment incentives
- First-class support from CzechInvest

IF R&D IS WHAT YOU NEED

The Czech Republic offers a solid background for the electronics industry not only in terms of investment climate, infrastructure and competitive costs. The country's high standard of technical education with one of the world's largest proportions of graduates in technical fields, along with extensive R&D experience in the EE/electronics sector, has resulted in an extensive pool of researchers, convincing numerous companies not only to establish their manufacturing operations in the Czech Republic but also to utilise the local R&D potential.

Availability of scientists and engineers



Source: fDi Benchmark 2009

Note: Unit Type: Rating from 1 to 7, 1 S&E non exist, 7 widely available, year 2009

“The Czech Republic offers a highly skilled and very efficient workforce with a strong technically oriented educational background and a large number of engineering graduates. The country has a rich industrial history and a university system that is highly recognised.”

Jaroslav Doležal, Honeywell National Executive for the Czech Republic

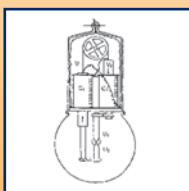
PRODUCTION FACILITIES

The Czech Republic's long tradition in the electronics sector, together with its solid educational system and strategic location, has attracted numerous foreign electronics companies, which are evenly distributed across the entire country.

“From the beginning it was our goal not only to establish a production facility, but also to include a fully integrated development department. Therefore, we conducted our search carefully, over a long period of time, before deciding to locate our only foreign branch in the Czech Republic.”

Michael Jensen, General Manager of the Czech Bang & Olufsen plant

The consumer sector has grown rapidly, particularly due to the boom in the FPD industry and the presence of well-known manufacturers like Panasonic, Foxconn and Qisda followed by other consumer electronics companies such as Bang & Olufsen. The sharp growth of the automotive sector in the Czech Republic and neighbouring countries has also attracted a number of automotive electronics suppliers including Siemens, Bosch, Tyco and Kostal. FEI, Eldis and ON Semiconductor provide good examples of how local know-how in specific fields can be utilised for high-tech manufacturing as well as R&D activities.



1880

Design of the first “Piette Krizik” arc lamp by Dr. Ing. Frantisek Krizik



1896

First tramway in the Austro-Hungarian Empire operated in Prague



1903

First electric railway in the Austro-Hungarian Empire



1921

Launch of production at Tesla (company operated formerly under the name of Elektra)

INVESTMENT CASE STUDY

Panasonic

The story of one of the most successful investments in the Czech Republic began in 1996 when Matsushita Electric Works broke ground in the town of Plzen, West Bohemia, for its Panasonic television factory, one of the first large greenfield investment projects in the Czech Republic. Having started with the production of CRT televisions, the Panasonic plant in Plzen switched to the advanced LCD and PDP technologies in 2004. Over 5,000 employees produce approximately one million televisions yearly in the plant. In 1999 manufacturing activities were supplemented with a research and development department which utilises local expertise fuelled by the neighbouring University of West Bohemia. Apart from the Plzen television plant, Matsushita also runs a 900-person facility in the city of Pardubice, where it manufactures car audio systems, and produces electronic relays in the town of Plana in West Bohemia.

R&D CASE STUDY

FEI Company

FEI Company is a global technology and applications leader, delivering electron and ion-beam imaging solutions for 3D characterisation, analysis and modification with resolutions down to below the 0.1 nanometer level. FEI has been building up its branch in Brno gradually since 1993. With roughly 300 employees, the facility is currently the company's second largest manufacturing and development centre. More than 70 people work in R&D there. The Brno factory delivers a full range of instruments, from entry-level devices to the Magellan scanning electron microscope, which represents the cutting edge of the industry. The product portfolio of FEI Czech Republic includes scanning electron microscopes, transmission electron microscopes and dual beams. The Brno operation is the fastest growing factory within FEI Company.

CZECHINVEST'S SERVICES

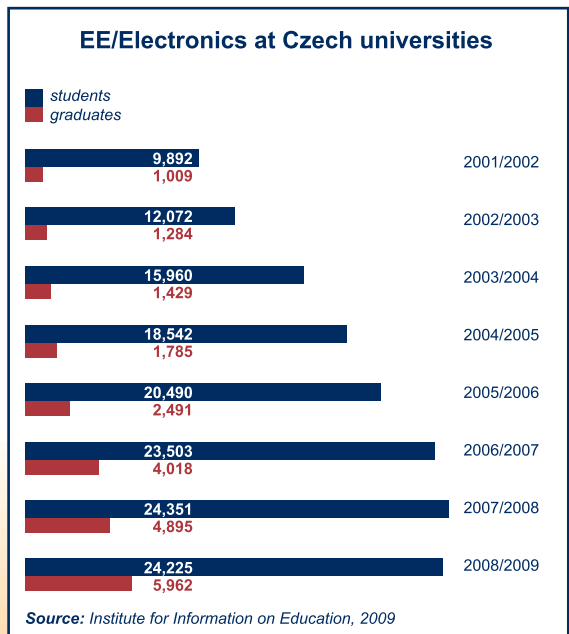
- Full information assistance
- Tailor-made visits
- Maximisation of networking capacity
- Handling of investment incentives
- Access to EU structural funds
- Business properties identification
- Business infrastructure development
- Supplier/JV acquisition partner identification

EDUCATION SYSTEM

The Czech Republic offers high-level technical education at several technical universities evenly distributed around the country. The country has more than 80,000 university students majoring in technical or science-related fields.

Over 15,000 graduates enter the workforce every year and the number of technical graduates increases by hundreds each year.

Apart from universities, the Czech education system features other sources of skilled labour, including specialised four-year secondary schools whose students graduate with the near equivalent of a university bachelor's degree.



1950

Functional prototype of electron microscope developed



1967

First integrated circuits manufactured in Czechoslovakia



1987

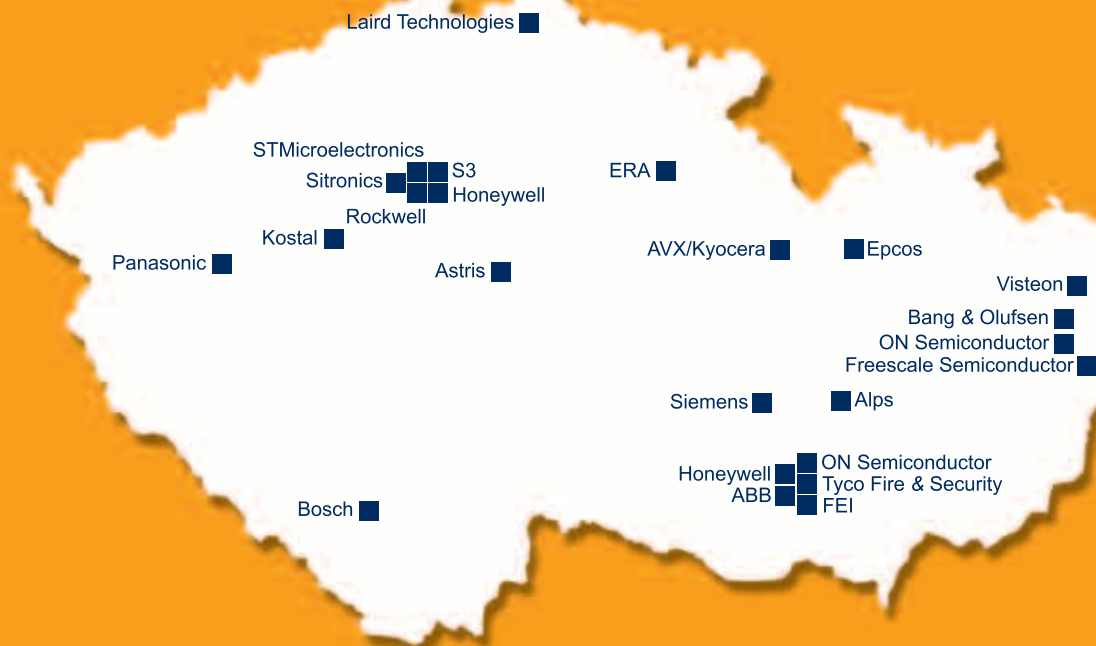
Tamara passive radar system developed



2010

The Extreme Light Infrastructure – European High-Tech Laser project implemented in the Czech Republic

SELECTED EE/ELECTRONICS R&D INVESTMENTS

**OUTSTANDING QUALITY OF LIFE**

The Czech Republic boasts extraordinary quality of life.

The IMD World Competitiveness Yearbook's Quality of Life Index ranks the country twentieth in the world and first in the CEE region. But one must experience the local cultural heritage, sport facilities and natural beauty to fully grasp the joys of living in the Czech Republic.

The country offers a full range of services that are required by expatriates and their families, including multilingual international schools covering all levels from kindergarten to MBA studies, attractive housing, shopping malls and first-class recreational facilities including over 80 golf courses and 12 UNESCO heritage sites.

**CZECHINVEST'S HEADQUARTERS**

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