

Digital State, Manufacturing and Services



Czech
Republic
The Country
For Digitalization

Institution Responsible: Government Council for Information Society (RVIS), Ministry of Industry and Trade, Ministry of the Interior, Office of the Government of the CR (UV CR)

Managerial responsibility: Government Representative for IT, Ministry of Industry and Trade representative

Opening position

A number of important tools for digitisation have been introduced in the Czech Republic in recent years, with more than 700 online solutions implemented in the public sphere. On the other hand, the system for digitisation implementation in the Czech Republic has been chaotic so far, public information systems and online tools are not interconnected, bringing neither comfort nor time or cost savings to businesses or citizens. As the Czech Republic is a highly industrially-oriented country, Industry 4.0 must be understood as a societal and economic phenomenon that determines our future position in the world community. In order to strengthen the coordination of the digital agenda process, the current government has approved a new Digital Czech Republic strategy, which contains: The Czech Republic in a Digital Europe, an Information Concept for the Czech Republic (Digital Public Administration) and Digital Economy and Society. Digital Czech Republic has managed to overcome the long-term sectoral and thematic fragmentation of the digital agenda. Coordination of the whole implementation is concentrated in the RVIS under the patronage and direction of the government representative for IT; it will be implemented in offices and departments in accordance with their authority.

Goals

- Ensure online services for citizens and businesses and transform the network of contact points for assisted state administration.
- Establish efficient and centrally managed IT to be coordinated by the RVIS with the involvement of all ministries.
- Create an interlinked data fund (data only once) to use all the information already provided to the state by the citizen or company in order to avoid the obligation to re-provide information already submitted earlier.
- Prepare society for trends such as IoT, AI, BigData, new types of human-machine interface, etc.
- Promote implementation of applied research on transformative technologies in practice.
- Permanently secure online and shared services, including industrial enterprises and the system security of complex facilities (cities, airports, businesses, power stations), using intelligent cybernetic systems and handling the most serious risks.
- Involve small and medium-sized businesses in the use of digital business tools.
- Ensure communication on topical issues and opportunities from the EU Digital Agenda.
- Formulate measurable levels of Industry 4.0 implementation and resulting generally respected standards.

- Apply Industry 4.0 principles to the energy sector, especially in the field of smart grids, as well as in smart cities and regions.
- Set up a system to support resource optimisation and environmental protection in connection with the implementation of Industry 4.0 in manufacturing plants and services.

Tools

- National Strategy for AI linked to the Coordinated Plan for AI.
- European Centre of Excellence for AI in the Czech Republic.
- National Research and Innovation Strategy for Smart Specialisation of the Czech Republic (RIS3).
- Building high-speed infrastructure as the basis for online services.
- Switch to shared services, shared platforms, and the Cloud.
- Creating targeted digital literacy training at small firms in the form of the Year of Digital Business.
- Support for Czech companies and research organisations within Digital Europe.
- Support for free access of research teams to computing capacities and their expansion.

- Introduction of the Digital by Default and Data Only Once principles for relevant state administration agendas.
- Implementation of a Digital Citizens' Rights Act.
- Pilot projects on the use of transformative technologies in state administration.
- Negotiations within existing platforms with the European Commission and other national CDOs on strategic digitisation issues.
- Promoting the position of the Czech Republic as an active player in the digital single market.
- Integration of Industry 4.0 with the Digital Czech Republic programme.
- Introduction of financial instruments to facilitate robotisation, automation and the promotion of innovation in firms, with an emphasis on SMEs in line with defined Industry 4.0 standards.
- Support for the transformation of small and medium-sized businesses - Digital Innovation Hubs.
- Support for technological solutions and innovations in automation, robotics, AI in the calls of national RD&I programmes.

