

## Czech Republic (CZ)

Czech Republic's platform for digitising industry is *Průmysl 4.0*<sup>1</sup>. This is an initiative that involves different ministries according to relevant measures, business associations and trade unions, academia. Industry 4.0 initiative opened a broad discussion on its economic and societal consequences which led to establishing the Alliance Society 4.0 (approved by the Government in February 2017) and Průmysl 4.0 is taken into consideration by the Action Plan on Society 4.0 (approved by the Government in September 2017).

On a **national level** Czech Republic has 5 *Digital Innovation Hubs* (4 fully operational and 1 in preparation) covering various market domains (mining, construction, manufacturing (food products, textiles, chemicals, basic and fabricated metal products, electrical and optical equipment, machinery, electrical equipment), education and health) through a large spectrum of technology areas presented as follows:

- Additive manufacturing (3D printing)
- Advanced or High-performance computing
- Artificial Intelligence and cognitive systems
- Augmented and virtual reality, visualization
- Cloud computing
- Cyber physical systems (e.g. embedded systems)
- Data mining, big data, database management
- ICT management, logistics and business systems
- Interaction technologies (e.g. human-machine Interaction, motion recognition and language technologies)
- Internet of Things (e.g. connected devices, sensors and actuators networks)
- Location based technologies (e.g. GPS, GIS, in-house localization)
- Micro and nano electronics, smart system integration
- Robotics and autonomous systems
- Sensors, actuators, MEMS, NEMS, RF
- Simulation and modelling
- Software as a service and service architectures

On a **regional level**, each hub's activities seem to be aligned with the RIS3 strategies. A concise list of all hubs on national and regional level is presented as follows:

### 1. Fully operational DIHs

Hub name	City	NUTS2 region	Country	Smart Specialisation (SS)	Link to SS	AI	HPC	Cyber Security	Association to EU-funded project
Czech Institute of Informatics, Robotics, and Cybernetics	Prague	Praha	Czech Republic	Informatics, Robotics and Cybernetics	-	X	-	X	"Smart Factories in the new EU Member States" project
DIGIMAT: South Moravian Digital Manufacturing	Kuřim	Jihovýchod	Czech Republic	Manufacturing	Mechanical engineering, Creative Czech	-	X	X	I4MS (HORSE)

<sup>1</sup> Průmysl 4.0, <https://www.mpo.cz/en/industry/industry-four/>

<b>Hub</b>					Republic				
<b>Hub name</b>	<b>City</b>	<b>NUTS2 region</b>	<b>Country</b>	<b>Smart Specialisation (SS)</b>	<b>Link to SS</b>	<b>AI</b>	<b>HPC</b>	<b>Cyber Security</b>	<b>Association to EU-funded project</b>
<b>IT4Innovations National Supercomputing Center</b>	Ostrava-Poruba	Moravskoslesko	Czech Republic	HPC	Digital Market Technologies and Electrical Engineering	X	X	-	I4MS (CLOUDIFACTURING), SAE (TETRAMAX)
<b>Research Center for Informatics</b>	Prague	Praha	Czech Republic	Informatics	Digital Market Technologies and Electrical Engineering	X	X	X	-

## 2. In preparation DIHs

Hub name	City	NUTS2 region	Country
Hub for Digital Innovations (H4DI)	Praha	Praha	Czech Republic

## 3. RTOs/universities that had a DIH role in an EU project

A list of RTOs/universities that have participated in the EU FP7 and H2020 projects, and *are not mentioned above*, is presented in the following tables:

### a. H2020 participation<sup>2</sup>

Project Topic Code	Project Acronym	Project Duration	Project End Date	Participant Legal Name	Participant Role	Participant Short Name	Core Legal Entity Type	Research Organisation	Project Topic Code
FOF-12-2017	CloudiFacturing	42	31/01/2018	FERRAM STROJIRNA, s.r.o.	PARTICIPANT	FERRAM	PRIVATE	No	FOF-12-2017
FOF-12-2017	CloudiFacturing	42	31/08/2021	VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA	PARTICIPANT	IT4I	PUBLIC	No	FOF-12-2017
ICT-04-2017	TETRAMAX	48	31/08/2021	VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA	PARTICIPANT	IT4I	PUBLIC	No	ICT-04-2017
ICT-04-2017	SmartEes	36	13/09/2020	AMIRES SRO	PARTICIPANT	AMI	PRIVATE	No	ICT-04-2017

### b. FP7 participation<sup>2</sup>

<sup>2</sup> Data available in CORDIS ([http://cordis.europa.eu/home\\_en.html](http://cordis.europa.eu/home_en.html)) and in the European Commission databases

Project Number	Project Acronym	Project Duration	Project Start Date	Project End Date	Project Number of Participants	Participant Short Name	Participant Legal Name	Participant Role	Organisation Type
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	RCMT	CESKE VYSOKE UCENI TECHNICKE V PRAZE	Participant	HES
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	TYC	STROJIRNA TYC SRO	Participant	PRC
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	COMPOTECH	COMPO TECH PLUS SPOL SRO	Participant	PRC
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	CVUT	CESKE VYSOKE UCENI TECHNICKE V PRAZE	Participant	HES
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	SURO	STATNI USTAV RADIACNI OCHRANY v.v.i.	Participant	REC

#### 4. Regions in Czech Republic that have no DIHs

- Střední Čechy
- Jihozápad
- Severozápad
- Severovýchod
- Střední Morava