

Poland (PL)

End of January 2019 the Polish President signed the Act on the Platform for the Industry of the Future Foundation.¹ The foundation's aim will be to promote the growth of entrepreneurs' competitiveness and their development towards industry 4.0. This includes support for their digital transformation in the scope of processes, products and business models, using the latest achievements in the field of automation, artificial intelligence, information technology and communication between machines and man and machines. The Act will come into force within 30 days of its announcement.

On a **national level** Poland has 13 *Digital Innovation Hubs* (6 fully operational and 7 in preparation status) covering various market domains (agriculture, construction, manufacturing (food products, textiles, chemicals, basic and fabricated metal products, electrical and optical equipment, machinery, electrical equipment), transport, electricity, public administration, 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
- Broadband and other communication networks (e.g. 5G)
- Cloud computing
- Cyber security (including biometrics)
- Data mining, big data, database management
- Gamification
- 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)
- Internet services (e.g. web development, web production, design, networking, and e-commerce)
- Location based technologies (e.g. GPS, GIS, in-house localization)
- Micro and nano electronics, smart system integration
- New Media technologies
- Photonics, electronic and optical functional materials
- Organic and Large Area Electronics (OLAE)
- Robotics and autonomous systems
- Screens and display technologies
- 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 Article of the Polish Ministry of Enterprise and Tehcnology, https://www.gov.pl/web/przedsiębiorczosc-technologie/prezydent-podpisał-ustawę-o-fundacji-platforma-przemysłu-przyszłości?fbclid=IwAR0oBTEHyJXYo0p8NJE5WMMR-EUyC5U5mVqeJZn1bZQGWIUofpRCdR-x_CL8

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
Centre for Advanced Manufacturing Technologies, Wrocław University of Science and Technology	Wrocław	Dolnoslaskie	Poland	Advanced Manufacturing	Manufacture of machinery and equipment, materials processing	X	-	-	-
CYBERSEC HUB	Krakow	Malopolskie	Poland	Cybersecurity	ICT	X	-	X	"Smart Factories in the new EU Member States" project
HPC4Poland	Poznan	Wielkopolskie	Poland	HPC	ICT-based development	X	X	X	I4MS, "Smart Factories in the new EU Member States" project
Institute of Electron Technology (ITE)	Warsaw	Mazowieckie (NUTS 2013)	Poland	Microelectronics, photonics and microsystems	-	-	-	X	-
NASK National Research Institute	Warsaw	Mazowieckie (NUTS 2013)	Poland	Cybersecurity	-	X	-	X	-
PIAP HUB	Warsaw	Mazowieckie (NUTS 2013)	Poland	Robotics and automation	-	X	-	-	-

2. In preparation DIHs

Hub name	City	NUTS2 region	Country	Association to EU-funded project
Emerging Transactional and Financial Technology Hub (ETFTH)	Warsaw	Mazowieckie (NUTS 2013)	Poland	-
IoT Poland Foundation Hub	Lublin	Lubelskie (NUTS 2013)	Poland	-
IT and Expert Hub Supporting Biomedical Research, Technology and Education (BioMedHub)	Warsaw	Mazowieckie (NUTS 2013)	Poland	-
Krakow Technology Park	Kraków	Malopolskie	Poland	-
Lublin Medicine Cluster	Lublin	Lubelskie (NUTS 2013)	Poland	-
Regional Digital Innovation Hub related to Internet of Things (IoT North Poland HuB)	Torun	Kujawsko-Pomorskie	Poland	I4MS, "Smart Factories in the new EU Member States" project

Silesian Competence Centre of Industry 4.0	Gliwice	Slaskie	Poland	-
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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 participation²

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-09-2015	HORSE	54	30/04/2020	SPOLKA AKCYJNA ODLEWNIE POLSKIE	PARTICIPANT	OPSA	PRIVATE	No	FoF-09-2015
FOF-12-2017	MIDIH	36	30/09/2020	INSTYTUT CHEMII BIOORGANICZNEJ POLSKIEJ AKADEMII NAUK	PARTICIPANT	PSNC	PUBLIC	Yes	FOF-12-2017
FOF-12-2017	L4MS	42	31/03/2021	FUNDINGBOX ACCELERATOR SP ZOO	PARTICIPANT	FBOX	PRIVATE	No	FOF-12-2017
FOF-12-2017	AMable	48	31/08/2021	POLITECHNIKA WROCLAWSKA	PARTICIPANT	PWR	PUBLIC	Yes	FOF-12-2017
FOF-12-2017	CloudiFacturing	42	31/03/2021	SKA POLSKA SP Z O. O.	PARTICIPANT	SKA	PRIVATE	No	FOF-12-2017
ICT-04-2017	TETRAMAX	48	31/08/2021	TECHMO SPOLKA Z OGRANICZONA ODPOWIEDZIALNO SCIA	PARTICIPANT	TECHMO	PRIVATE	No	ICT-04-2017
ICT-04-2017	TETRAMAX	48	31/08/2021	FUNDINGBOX ACCELERATOR SP ZOO	PARTICIPANT	FBOX	PRIVATE	No	ICT-04-2017
FOF-12-2017	I4MS-Go	30	29/02/2020	FUNDINGBOX ACCELERATOR SP ZOO	COORDINATOR	FBOX	PRIVATE	No	FOF-12-2017

b. FP7 participation²

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
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	MIT	MICROSCOPEIT SP ZOO	Participant	PRC
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	WUT	POLITECHNIKA WARSZAWSKA	Participant	HES
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	UMCS	UNIWERSYTET MARII CURIE-SKLODOWSKIEJ	Participant	HES

² Data available in CORDIS (http://cordis.europa.eu/home_en.html) and in the European Commission databases.

619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	ITME	INSTYTUT TECHNOLOGII MATERIALOW ELEKTRONICZNYCH	Particip ant	REC
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4. Regions in Poland that have no DIHs

- Łódzkie
- Opolskie
- Podkarpackie
- Podlaskie
- Pomorskie
- Śląskie
- Świętokrzyskie
- Warmińskomazurskie
- Warszawski stołeczny
- Zachodniopomorskie