

Romania (RO)

Romania's national initiative for digitising industry is *Manifesto for Digital Romania*.¹ Announced by the Prime Minister in October 2017, the manifesto aims to support the digital transformation of Romania's industry on a regional and national level.

On a **national level** Romania has 3 *Digital Innovation Hubs* (all 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)) 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 physical systems (e.g. embedded systems)
- 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
- 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. Fully operational DIHs

None

2. In preparation DIHs

Hub name	City	NUTS2 region	Country	Association to EU-funded project
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¹ Manifesto for Digital Romania, <http://gov.ro/en/news/address-by-prime-minister-dacian-ciolos-at-the-international-digital-romania-4-0-industry-forum>

Cluj IT Cluster	Cluj-Napoca	Nord-Vest	Romania	-
Hub name	City	NUTS2 region	Country	Association to EU-funded project
Cluster for Innovation and Technology ALT Brasov, ALT Brasov	Brasov	Centru	Romania	"Smart Factories in the new EU Member States" project
Transilvania Digital Innovation Hub - Transilvania DIH	Cluj-Napoca	Nord-Vest	Romania	"Smart Factories in the new EU Member States" project

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
ICT-04-2017	TETRAMAX	48	31/08/2021	CONTROL DATA SYSTEMS SRL	PARTICIPANT	CDS	PRIVATE	No	ICT-04-2017
FOF-12-2017	L4MS	42	31/03/2021	ASOCIATIA PRODUCATORILOR DE MOBILA DIN ROMANIA	PARTICIPANT	APMR	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
608849	EuRoC	48	01-Jan-2014	31-Dec-2017	48	ICPE	INSTITUTUL DE CERCETARI ELECTROTEHNICE	Participant	PRC

4. Regions in Romania that have no DIHs

- București-Ilfov
- Nord-Est
- Sud-Est
- Sud-Muntenia
- Sud-Vest Oltenia
- Vest

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