

## Portugal (PT)

Portugal's national initiative for digitising industry is *Indústria 4.0*.<sup>1</sup> Launched in January 2017, this initiative is driven by universities and is part of the National Strategy for the Digitalization of the Economy. The overall objective of the National Strategy for the Digitization of the Economy includes an initial set of measures of valorisation, promotion and investment in the digitization of the Portuguese economy.

On a **national level** Portugal has 4 *Digital Innovation Hubs* (3 fully operational and 1 in preparation) 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:

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<sup>1</sup> Indústria 4.0, [www.i40.pt](http://www.i40.pt)

## 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
HUB for Agriculture (HUB4AGRI)	Lisbon	Área Metropolitana de Lisboa	Portugal	Smart agriculture	Forestry	X	-	-	-
iMan Norte Hub - Digital Innovation Hub for Customer-Driven Manufacturing @ Norte	Porto	Norte	Portugal	Smart manufacturing	Advanced Manufacturing Technologies	X	X	X	I4MS (BEinCPPS)
PRODUTECH Digital Innovation Hub National Platform	Porto	Norte	Portugal	Smart manufacturing	Advanced Manufacturing Technologies	X	X	X	-

## 2. In preparation DIHs

Hub name	City	NUTS2 region	Country	Association to EU-funded project
Emerging Transactional and Financial Technology Hub (ETFTH)	Coimbra	Centro (PT)	Portugal	SAE (DIATOMIC)

## 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-09-2015	BEinCPPS	36	31/10/2018	FORTUNATO O. FREDERICO & CA., LDA.	PARTICIPANT	KYAIA	PRIVATE	No	FoF-09-2015
FoF-09-2015	BEinCPPS	36	31/10/2018	CENTRO TECNOLÓGICO DE CALCADO DE PORTUGAL	PARTICIPANT	CTCP	PRIVATE	Yes	FoF-09-2015
FoF-09-2015	BEinCPPS	36	31/10/2018	INESC TEC - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	PARTICIPANT	INESC TEC	PRIVATE	Yes	FoF-09-2015

<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.

ICT-04-2017	DIATOMIC	36	31/08/2020	FASTTRACK VC SCR SA	PARTICIPANT	FASTT	PRIVATE	No	ICT-04-2017
ICT-04-2017	DIATOMIC	36	31/08/2020	INSTITUTO PEDRO NUNES ASSOCIACAOPARA A INOVACAO E DESENVOLVIMENTO CIENCIA E TECNOLOGIA	PARTICIPANT	IPN	PRIVATE	Yes	ICT-04-2017
ICT-04-2017	DIATOMIC	36	31/08/2020	INSTITUTO PEDRO NUNES ASSOCIACAOPARA A INOVACAO E DESENVOLVIMENTO CIENCIA E TECNOLOGIA	PARTICIPANT	IPN	PRIVATE	Yes	ICT-04-2017

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

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	UAVR	UNIVERSIDADE DE AVEIRO	Participant	HES
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	WAVEC	WAVEC/OFFSHORE RENEWABLES - CENTRO DE ENERGIA OFFSHORE ASSOCIACAO	Participant	REC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	SOD	SODECIA SOCIEDADE INDUSTRIAL DE METALURGIA DA GUARDA SA	Participant	PRC
609100	CloudFlow	46	01-Jul-2013	30-Apr-2017	47	INT	INTROSYS- INTEGRATION FOR ROBOTIC SYSTEMS- INTEGRACAO DE SISTEMAS ROBOTICOS SA	Participant	PRC
288881	COLAE	36	01-Sep-2011	31-Aug-2014	19	CENTI	CENTITVC - CENTRO DE NANOTECNOLOGIA E MATERIAIS TECNICOS FUNCIONAIS E INTELIGENTES ASSOCIACAO	Participant	REC
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	IDM	IDMIND - ENGENHARIA DE SISTEMAS LDA	Participant	PRC

**4. Regions in Portugal that have no DIHs**

- Alentejo
- Algarve
- Centro
- Região Autónoma dos Açores
- Região Autónoma da Madeira