

## Denmark (DK)

Denmark's national initiative for digitising industry is *MADE - Manufacturing Academy of Denmark*.<sup>1</sup> This initiative that was launched in 2014 with the aim to create a platform for applied research, development and innovation in Danish manufacturing companies.

On a **national level** Denmark has 8 *Digital Innovation Hubs* (5 fully operational and 3 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)
- Laser based manufacturing
- 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
BrainsBusiness ICT North Denmark	Aalborg	Nordjylland	Denmark	ICT	-	X	X	X	-
Danish Technological	Odense	Syddanmark	Denmark	Robotics	Health and welfare	X	X	-	I4MS (AMABLE),

<sup>1</sup> MADE - Manufacturing Academy of Denmark, <http://made.dk/>

Institute, Robot Technology					innovation				Robotics (ROBOTT-NET)
Hub name	City	NUTS2 region	Country	Smart Specialisation (SS)	Link to SS	AI	HPC	Cyber Security	Association to EU-funded project
MADE - Manufacturing Academy of Denmark	Copenhagen	Hovedstaden	Denmark	Manufacturing	-	X	X	X	-
The Alexandra Institute - ICT-based innovation	Aarhus	Midtjylland	Denmark	ICT	Smart industry	X	-	X	-
Vitus Bering Innovation Park	Horsens	Midtjylland	Denmark	General innovation	Smart industry	-	-	X	-

## 2. In preparation DIHs

Hub name	City	NUTS2 region	Country
Copenhagen Fintech	Copenhagen	Hovedstaden	Denmark
Dansk Produktions Univers	Hedensted	Midtjylland	Denmark
ROBOTT-NET	Odense	Syddanmark	Denmark

## 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	ReconCell	36	31/10/2018	BLUE OCEAN ROBOTICS APS	PARTICIPANT	BOR	PRIVATE	No	FoF-09-2015
FoF-09-2015	ReconCell	36	31/10/2018	SYDDANSK UNIVERSITET	PARTICIPANT	SDU	PUBLIC	Yes	FoF-09-2015
FOF-12-2017	L4MS	42		Developing Fyn P/S	PARTICIPANT	OR	PRIVATE	N/A	FOF-12-2017
FOF-12-2017	AMable	48		TEKNOLOGISK INSTITUT	PARTICIPANT	DANISH TECHNOLOGICAL INSTITUTE	PRIVATE	Yes	FOF-12-2017

### 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
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	DTI	TEKNOLOGISK INSTITUT	Participant	REC
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	STAS	Scape Technologies A/S	Participant	PRC
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	BlueOceanRobotics	BLUE OCEAN ROBOTICS APS	Participant	PRC
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	Stena	STENA RECYCLING AS	Participant	PRC

#### 4. Regions in Denmark that have no DIHs

- Sjælland