

Finland (FI)

Finland currently has a national initiative for digitising industry under preparation. However, there are some PPP initiatives (i.e. DIMECC) and the VTT initiatives that support digital innovation on a national level. Furthermore, several digitalisation strategies and activities are ongoing on the national level, e.g. national AI programme, sectoral growth programmes (e.g. transport and health), Reboot Finland campaign, national roadmap for digital platform economy, a survey of platform economy in different Finnish sectors and Business Finland (former Tekes) investments to support digitalisation of industry and society. These actions may not directly take a stand on DIHs but play a crucial role in Finland’s digital transformation.

On a **national level** Finland has 15 *Digital Innovation Hubs* (10 fully operational and 5 in preparation status) covering various market domains (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)
- 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)
- Location based technologies (e.g. GPS, GIS, in-house localization)
- Micro and nano electronics, smart system integration
- Organic and Large Area Electronics (OLAE)
- Photonics, electronic and optical functional materials
- 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
5G Test Network Finland	Oulu	Pohjois- ja Itä-Suomi	Finland	5G	-	X	-	X	-

(5GTNF)									
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Arctic Drone Labs	Oulu	Pohjois- ja Itä-Suomi	Finland	Artic drones and robotics	-	X	X	-	-
AURIA CLINICAL INFORMATICS (ACI)	Turku	Etelä-Suomi	Finland	ICT	-	X	-	-	-
Finnish Center for Artificial Intelligence (FCAI)	Espoo	Helsinki-Uusimaa	Finland	AI	-	X	X	X	-
One Sea - Autonomous Maritime Ecosystem	Turku	Etelä-Suomi	Finland	Automation in maritime industry	-	-	-	-	-
OuluHealth	Oulu	Pohjois- ja Itä-Suomi	Finland	Health	-	X	-	-	-
PrintoCent	Oulu	Pohjois- ja Itä-Suomi	Finland	Electronics and manufacturing	Digitalisation, ICT in Manufacturing and Energy Technology	-	-	-	-
ROBOCOAST	Pori	Länsi-Suomi	Finland	Automation, robotics and AI	-	X	-	-	I4MS
Smart Manufacturing	Tampere	Länsi-Suomi	Finland	Manufacturing	-	-	-	X	-
Super IoT	Oulu	Pohjois- ja Itä-Suomi	Finland	IoT, AI	Digitalisation, ICT in Manufacturing and Energy Technology	X	X	X	-

2. In preparation DIHs

Hub name	City	NUTS2 region	Country
Forum Virium Helsinki	Helsinki	Helsinki-Uusimaa	Finland
Good Life for Finland	Oulu	Pohjois- ja Itä-Suomi	Finland
Industrial Digital Platforms DIH	Espoo	Helsinki-Uusimaa	Finland
IoT-Compass - South	Seinäjoki	Länsi-Suomi	Finland

Ostrobothnia RDMIH			
Smart Bio-based Solutions (SBBS)	-	Helsinki-Uusimaa	Finland

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 participation¹

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	INNOVAATION OY UUSI TEHDAS	PARTICIPANT	HERMIA	PRIVATE	No	FoF-09-2015
FOF-12-2017	MIDIH	36		Teknologian tutkimuskeskus VTT Oy	PARTICIPANT	VTT	PRIVATE	Yes	FOF-12-2017
FOF-12-2017	L4MS	42		Teknologian tutkimuskeskus VTT Oy	COORDINATOR	VTT	PRIVATE	Yes	FOF-12-2017
FOF-12-2017	L4MS	42		KINE ROBOT SOLUTIONS OY	PARTICIPANT	KINE	PRIVATE	No	FOF-12-2017
FOF-12-2017	L4MS	42		VISUAL COMPONENTS OY	PARTICIPANT	VIS	PRIVATE	No	FOF-12-2017
FOF-12-2017	L4MS	42		HERMIA YRITYSKEHITYS OY	PARTICIPANT	HBD	PRIVATE	No	FOF-12-2017
FOF-12-2017	AMable	48		Teknologian tutkimuskeskus VTT Oy	PARTICIPANT	VTT	PRIVATE	Yes	FOF-12-2017
ICT-02-2014	GateOne	36	31/12/2017	TEKNOLOGIAN TUTKIMUSKESKUS VTT	PARTICIPANT	VTT	PUBLIC	Yes	ICT-02-2014
ICT-04-2017	TETRAMAX	48	31/08/2021	TTY-SAATIO	PARTICIPANT	TUT	PRIVATE	Yes	ICT-04-2017
ICT-04-2017	SmartEEs	36	13/09/2020	Teknologian tutkimuskeskus VTT Oy	PARTICIPANT	VTT	PRIVATE	Yes	ICT-04-2017

b. FP7 participation¹

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
609355	APPOLO	48	01-Sep-2013	31-Aug-2017	36	LUT	LAPPEENRANNAN TEKILLINEN YLIOPISTO	Participant	HES

¹ Data available in CORDIS (http://cordis.europa.eu/home_en.html) and in the European Commission databases.

288881	COLAE	36	01-Sep-2011	31-Aug-2014	19	VTT	TEKNOLOGIAN TUTKIMUSKESKUS VTT	Participant	REC
288881	COLAE	36	01-Sep-2011	31-Aug-2014	19	VTT Oy	Teknologian tutkimuskeskus VTT Oy	Coordinator	REC
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	UEF	ITA-SUOMEN YLIOPISTO	Participant	HES
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	VTT	TEKNOLOGIAN TUTKIMUSKESKUS VTT	Participant	REC
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	Teknologian tutkimuskeskus VTT Oy	Teknologian tutkimuskeskus VTT Oy	Participant	REC
632860	I3H	30	01-Jul-2014	31-Dec-2016	9	AALTO	AALTO-KORKEAKOULUSATIIO	Participant	HES

4. Regions in Finland that have no DIHs

- Åland