

Greece (EL)

Greece has a national initiative for digitising industry under preparation. However, Greece launched in 2016 a *National Digital Strategy (NDS) 2016-2021*¹ which is the road map and framework for the country's digital development. It focuses on seven areas of intervention with specific priorities for each sector. The priorities correspond to acknowledged gaps in the Greek public administration, the economy and society and form a coherent framework of ICT interventions, focusing on producing results and optimizing the use of available public resources.

In Greece, DIHs are mainly located in big cities and not spread throughout the country. According to the proposed Regulation and given that in terms of decentralized administration, Greece consists of a total of 13 Regional Units, at least 10 more DIHs need to be established in order to cover all Regional Unit. It is expected to be particularly challenging for Greece to establish one DIH per Regional Unit covering all aspects of the relevant operational objectives, so that they can receive appropriate EU or structural funding.

On a **national level** Greece has 14 *Digital Innovation Hubs* (8 fully operational and 6 in preparation status) covering various market domains (agriculture, fishing, 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 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)
- Laser based manufacturing
- Location based technologies (e.g. GPS, GIS, in-house localization)
- Micro and nano electronics, smart system integration
- New Media technologies
- Organic and Large Area Electronics (OLAE)
- Photonics, electronic and optical functional materials
- Robotics and autonomous systems
- Screens and display technologies
- Sensors, actuators, MEMS, NEMS, RF

¹ National Digital Strategy (NDS) 2016-2021, <http://www.mindigital.gr/index.php/κείμενα-στρατηγικής/220-digital-strategy-2016-2020>

- 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
ATHENA Research and Innovation Center	Marousi, Athens	Attiki	Greece	General innovation	Sustainability and quality of life	X	X	-	-
CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS	Thermi, Thessaloniki	Kentriki Makedonia	Greece	General innovation	Horizontal technologies	X	X	X	-
Embedded System Design & Application Laboratory	Patra	Dytiki Ellada	Greece	Embedded systems	-	X	X	-	-
Foundation for Research and Technology – Hellas / PRAXI Network	Athens	Attiki	Greece	General innovation	Sustainability and quality of life	X	X	X	-
Internet of Things, Intelligent Systems, Data Engineering and Media DIH [National Technical University of Athens - Institute of Communication and Computer Systems]	Athens	Attiki	Greece	IoT, data engineering and media	Sustainability and quality of life	X	-	X	-
Nanotechnology Lab LTFN (Lab for Thin Films - Nanobiomaterials - Nanosystems - Nanometrology)	Thessaloniki	Kentriki Makedonia	Greece	Nanotechnology	Horizontal technologies	-	-	-	-
National Documentation Centre / National Hellenic Research Foundation	Athens	Attiki	Greece	General innovation	Culture-tourism-ICT interaction, sustainability and quality of life	-	-	-	-
nZEB Smart House	Thessaloniki	Kentriki Makedonia	Greece	Construction and ICT	Electronics, electrical appliances and ICT, renewables	X	X	X	I4MS (L4MS)

2. In preparation DIHs

Hub name	City	NUTS2 region	Country
Attica's IoT Hub	Athens	Attiki	Greece
Central Macedonia Digital Innovation Hub on Agrofood	Thessaloniki	Kentriki Makedonia	Greece
Institute of Entrepreneurship Development (iED)	Larissa	Thessalia	Greece
Hub name	City	NUTS2 region	Country
ManuHub@WG	Patras	Dytiki Ellada	Greece
OK!Thess (Οικοσύστημα Καινοτομίας Θεσσαλονίκης)	Thessaloniki	Kentriki Makedonia	Greece
Piraeus Blue Growth Digital Innovation Hub (BG-DIH)	Piraeus	Attiki	Greece

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	EUROPEAN DYNAMICS ADVANCED SYSTEMS OF TELECOMMUNICATIONS INFORMATICS AND TELEMATICS SA	COORDINATOR	ED	PRIVATE	No	FoF-09-2015
FoF-09-2015	HORSE	54	30/04/2020	HAROKOPIO UNIVERSITY	PARTICIPANT	HUA	PUBLIC	No	FoF-09-2015
FOF-12-2017	L4MS	42	31/03/2021	EUROPEAN DYNAMICS ADVANCED SYSTEMS OF TELECOMMUNICATIONS INFORMATICS AND TELEMATICS SA	PARTICIPANT	ED	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	NTUA	NATIONAL TECHNICAL UNIVERSITY OF	Participant	HES

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

							ATHENS - NTUA		
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	HUA	HAROKOPIO UNIVERSITY	Participant	HES
609100	CloudFlow	46	01-Jul-2013	30-Apr-2017	47	ESS	EUROPEAN SENSOR SYSTEMS SA	Participant	PRC
609100	CloudFlow	46	01-Jul-2013	30-Apr-2017	47	HELIC	HELIC ELLINIKA OLOKLIROMENA KYKLOMATA A.E.	Participant	PRC
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	PARAG	PARAGON ANONYMH ETAIREIA MELETON EREVNAS KAI EMPORIOU PROIGMENHS TEXNOLOGIAS	Participant	PRC
609355	APPOLO	48	01-Sep-2013	31-Aug-2017	36	NNT	NIKOLAOS KECHAGIAS KAI SIA OE	Participant	PRC

4. Regions in Greece that have no DIHs

- Ανατολική Μακεδονία, Θράκη
- Βόρειο Αιγαίο
- Δυτική Μακεδονία
- Ήπειρος
- Θεσσαλία
- Ιόνια Νησιά
- Κρήτη
- Νότιο Αιγαίο
- Πελοπόννησος
- Στερεά Ελλάδα