

## France (FR)

France presents several overlapping national strategies regarding digitising industry:

- *Alliance Industrie du Futur*<sup>1</sup>, one of the pillars of the cross-cutting programme 'Industrie du Futur' (IdF) that was launched in 2015 and aims to secure coordination with stakeholders through a bottom-up approach.
- *Programme des Investissements d'Avenir*<sup>2</sup>, an initiative launched in 2017 by the government with the aim to support the transition of the economy to a new growth model, including an ecological and digital transition, with a mix of institutional reforms and targeted investments.
- *Transition Numerique*<sup>3</sup> an initiative that supports SMEs in the uptake of digital technologies with the aid of a network of hundreds of consultants from the public and private sector who are directly connected to the companies.

On a **national level** France has *41 Digital Innovation Hubs* (19 fully operational and 22 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 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
- Organic and Large Area Electronics (OLAE)
- Robotics and autonomous systems
- Screens and display technologies
- Sensors, actuators, MEMS, NEMS, RF
- Simulation and modelling

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<sup>1</sup> Alliance Industrie du Futur, <http://www.industrie-dufutur.org>

<sup>2</sup> Programme des Investissements d'Avenir, <http://www.gouvernement.fr/investissements-d-avenir-cgi>

<sup>3</sup> Transition Numerique, [www.transition-numerique.fr](http://www.transition-numerique.fr)

- 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
<b>7TB - 7 Technopoles de Bretagne</b>	Quimper	Bretagne (NUTS 2013)	France	General innovation	Technologies for the digital society	-	-	-	-
<b>Agri Sud Ouest Innovation</b>	Auzeville-Tolosane	Midi-Pyrénées (NUTS 2013)	France	Agri-food sector	Regional production of territorial food production	-	-	-	-
<b>Atlanpole</b>	Nantes	Pays de la Loire (NUTS 2013)	France	General innovation	Information and Communication Technologies ICT - Electronics	X	X	-	-
<b>Cap Digital</b>	Paris	Île de France	France	General innovation	Digital Creation	X	-	X	-
<b>DIGIHALL</b>	Palaiseau	Île de France	France	General innovation	Complex Systems Engineering and Software	X	X	X	I4MS (HORSE, MIDIH), ECHORD++
<b>DIHNAMEIC - Digital Innovation Hub for Nouvelle-Aquitaine Manufacturing Industry Community</b>	Bordeaux	Aquitaine (NUTS 2013)	France	Smart manufacturing	-	X	X	X	-
<b>E-Secure Transactions Cluster - TES</b>	Colombelles	Basse-Normandie (NUTS 2013)	France	Security	-	X	-	X	-
<b>Faubourg Numérique</b>	Saint-Quentin	Picardie (NUTS 2013)	France	IoT and machine learning	-	X	-	-	-
<b>Images et Réseaux</b>	Lannion	Bretagne (NUTS 2013)	France	ICT	Technologies for the digital society	X	-	X	-
<b>JESSICA FRANCE - CAP'TRONIC programm</b>	Grenoble	Rhône-Alpes (NUTS 2013)	France	Embedded software and electronics	Digital technologies and user-friendly systems	X	-	X	-

<b>Minalogic</b>	Grenoble	Rhône-Alpes (NUTS 2013)	France	General innovation	Digital technologies and user-friendly systems	X	X	X	SAE (FED4SAE)
<b>minaSmart</b>	Grenoble	Rhône-Alpes (NUTS 2013)	France	General innovation	Digital technologies and user-friendly systems	X	X	X	SAE (FED4SAE, SmartEES)
<b>Photonics Bretagne</b>	Lannion	Bretagne (NUTS 2013)	France	Photonics	Advanced technologies for industrial applications	-	-	-	-
<b>Hub name</b>	<b>City</b>	<b>NUTS2 region</b>	<b>Country</b>	<b>Smart Specialisation (SS)</b>	<b>Link to SS</b>	<b>AI</b>	<b>HPC</b>	<b>Cyber Security</b>	<b>Association to EU-funded project</b>
<b>Plastipolis</b>	Bellignat	Rhône-Alpes (NUTS 2013)	France	Plastics and composites	Digital technologies and user-friendly systems	-	-	-	I4MS (BEinCPPs)
<b>Pôle EMC2 Competitiveness cluster for innovation in production technologies</b>	Nantes	Pays de la Loire (NUTS 2013)	France	General innovation	Information and Communication Technologies ICT - Electronics	-	-	-	-
<b>Secured Communicating Solutions cluster</b>	Rousset	Provence-Alpes-Côte d'Azur (NUTS 2013)	France	General innovation	-	-	-	X	-
<b>Systematic Paris Region</b>	Palaiseau	Île de France	France	General innovation	-	X	X	X	-
<b>TeraLab : Big Data Platform for Research , Education and Innovation</b>	Paris	Île de France	France	Big data	Complex Systems Engineering and Software	X	-	X	I4MS (MIDIH)
<b>ViaMéca</b>	Clermont-Ferrand	Auvergne (NUTS 2013)	France	Manufacturing and robotics	Effective and smart systems - The factory of the future	X	-	-	-

## 2. In preparation DIHs

<b>Hub name</b>	<b>City</b>	<b>NUTS2 region</b>	<b>Country</b>
<b>Aerospace Valley</b>	Toulouse	Midi-Pyrénées (NUTS 2013)	France
<b>Axelera</b>	Solaize	Rhône-Alpes (NUTS 2013)	France

<b>Booster SPACE4EARTH</b>	Aix en Provence	Provence-Alpes-Côte d'Azur (NUTS 2013)	France
<b>CEA Leti Health</b>	Grenoble	Rhône-Alpes (NUTS 2013)	France
<b>CEA LITEN Advanced Materials for Energy Hub</b>	Grenoble	Rhône-Alpes (NUTS 2013)	France
<b>Connectwave</b>	Rousset	Provence-Alpes-Côte d'Azur (NUTS 2013)	France
<b>DigitalPlace</b>	Toulouse	Midi-Pyrénées (NUTS 2013)	France
<b>French AI Hub</b>	Paris	Île de France	France
<b>French Tech in the Alps</b>	Paris	Rhône-Alpes (NUTS 2013)	France
<b>Global Alliance for Media Innovation (GAMI)</b>	Paris	Île de France	France
<b>ICM - Brain and Spine institute</b>	Paris	Île de France	France
<b>ID2Santé - Innovation and Development of the Health sector in Bretagne</b>	Rennes	Bretagne (NUTS 2013)	France
<b>ID4CAR</b>	Bouguenais	Pays de la Loire (NUTS 2013)	France
<b>Interactive Robotics Laboratory of CEA LIST</b>	GIF-SUR-YVETTE	Île de France	France
<b>Le Pool French Tech Rennes St Malo</b>	Rennes	Bretagne (NUTS 2013)	France
<b>Hub name</b>	<b>City</b>	<b>NUTS2 region</b>	<b>Country</b>
<b>MANUTECH Ultrafast Surface Design</b>	Saint Etienne	Rhône-Alpes (NUTS 2013)	France
<b>Matérialia</b>	Metz	Lorraine (NUTS 2013)	France
<b>Robotics place</b>	Pinsaguel	Midi-Pyrénées (NUTS 2013)	France
<b>Safe Cluster</b>	Aix-en-Provence	Provence-Alpes-Côte d'Azur (NUTS 2013)	France
<b>Team Henri Fabre</b>	Marignane	Provence-Alpes-Côte d'Azur (NUTS 2013)	France
<b>Techtéra: Increasing the competitiveness of enterprises for collaborative innovation</b>	Lyon	Rhône-Alpes (NUTS 2013)	France
<b>TVT Innovation - Pôle Mer Méditerranée</b>	Toulon	Provence-Alpes-Côte d'Azur (NUTS 2013)	France

### 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>4</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	Fortissimo 2	36	31/10/2018	BULL SAS	PARTICIPANT	BULL	PRIVATE	No	FoF-09-2015
FoF-09-2015	Fortissimo 2	36	31/10/2018	PRINCIPIA SAS	PARTICIPANT	PRINCIPIA	PRIVATE	No	FoF-09-2015
FoF-09-2015	BEinCPPS	36	31/10/2018	ETABLISSEMENTS GEORGES PERNOUD	PARTICIPANT	GP	PRIVATE	No	FoF-09-2015
FoF-09-2015	HORSE	54	30/04/2020	KUKA AUTOMATISME ROBOTIQUE	PARTICIPANT	KUKA	PRIVATE	No	FoF-09-2015
FoF-09-2015	HORSE	54	30/04/2020	CENTRE TECHNIQUE DES INDUSTRIES MECANIQUES	PARTICIPANT	CETIM	PRIVATE	Yes	FoF-09-2015
FOF-12-2017	MIDIH	36		INSTITUT MINES-TELECOM	PARTICIPANT	IMT	PUBLIC	Yes	FOF-12-2017
ICT-01-2014	EuroCPS	36	31/01/2018	STMICROELECTRONICS GRENOBLE 2 SAS	PARTICIPANT	STGNB 2 SAS	PRIVATE	No	ICT-01-2014
ICT-01-2014	EuroCPS	36	31/01/2018	SCHNEIDER ELECTRIC INDUSTRIES SAS	PARTICIPANT	SCHN	PRIVATE	No	ICT-01-2014
ICT-01-2014	EuroCPS	36	31/01/2018	THALES SA	PARTICIPANT	THALES	PRIVATE	No	ICT-01-2014
ICT-01-2014	CPSELabs	36	31/01/2018	OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES	PARTICIPANT	ONR	PUBLIC	Yes	ICT-01-2014
ICT-02-2014	GateOne	36	31/12/2017	YOLE DEVELOPEMENT SARL	PARTICIPANT	YOLE DEVELOPEMENT	PRIVATE	No	ICT-02-2014
ICT-02-2014	GateOne	36	31/12/2017	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	PARTICIPANT	CNRS	PUBLIC	Yes	ICT-02-2014
ICT-04-2017	TETRAMAX	48	31/08/2021	INSTITUT NATIONAL DE RECHERCHE ENINFORMATIQUE ET AUTOMATIQUE	PARTICIPANT	INRIA	PUBLIC	Yes	ICT-04-2017
ICT-04-2017	Smart4Europe	24	31/08/2019	BLUMORPHO SAS	PARTICIPANT	BLUMORPHO	PRIVATE	No	ICT-04-2017
ICT-04-2017	SmartEEs	36	13/09/2020	BLUMORPHO SAS	PARTICIPANT	BLM	PRIVATE	No	ICT-04-2017
ICT-04-2017	FED4SAE	36	31/08/2020	BLUMORPHO SAS	PARTICIPANT	BLUMORPHO	PRIVATE	No	ICT-04-2017
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

<sup>4</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	FED4SAE	36	31/08/2020	STMICROELECTRONICS GRENOBLE 2 SAS	PARTICIPANT	ST-F	PRIVATE	No	ICT-04-2017
ICT-04-2017	FED4SAE	36	31/08/2020	THALES SA	PARTICIPANT	THALES	PRIVATE	No	ICT-04-2017

### b. FP7 participation<sup>4</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	UPMC	UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6	Participant	HES
608849	EuRoC	48	01-Jan-2014	31-Dec-2017	48	PSA	PEUGEOT CITROEN AUTOMOBILES S.A.	Participant	PRC
608849	EuRoC	48	01-Jan-2014	31-Dec-2017	48	ONERA	OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES	Participant	REC
608849	EuRoC	48	01-Jan-2014	31-Dec-2017	48	RTE	RTE RESEAU DE TRANSPORT D ELECTRICITE SA	Participant	PRC
608849	EuRoC	48	01-Jan-2014	31-Dec-2017	48	CNRS	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	Participant	REC
608886	CloudSME	33	01-Jul-2013	31-Mar-2016	29	2M	2MORO SOLUTIONS SARL	Participant	PRC
608886	CloudSME	33	01-Jul-2013	31-Mar-2016	29	EB	EUROBIOS SAS	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	ESI	ESI GROUP	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	HYDROCEAN	HYDROCEAN	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	PRINCIPIA	PRINCIPIA SAS	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	ACTIVEEON	ACTIVEEON	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	INRIA	INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE	Participant	REC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	BULL	BULL SAS	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	GENCI	GRAND EQUIPEMENT NATIONAL DE CALCUL INTENSIF	Participant	OTH
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	SDI	SDI SAS SOCIETE DE DEVELOPPEMENT INDUSTRIEL	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	SCILAB	SCILAB ENTREPRISES SAS	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	NUMTECH	NUMTECH SARL	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	DIST	DISTENE	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	POWERSY	POWERSYS SARL	Participant	PRC

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609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	OOSAS	Open Ocean SAS	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	NEXIOSIM	NEXIO SIMULATION	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	NX	NEXIO SAS	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	LUNTECH	LUN'TECH	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	SEEMI	SOCIETE D'ETUDES D'EQUIPEMENT DE MODERNISATION INDUSTRIELLE	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	ATI	ALGO'TECH INFORMATIQUE	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	ALSEAMAR	ALSEAMAR	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	K- EPSILON	K-EPSILON	Participant	PRC
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	VPLP	MARC VAN PETEGHEM-VINCENT LAURIOT PREVOST-VANNES	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	NEXTFLOW	NEXTFLOW SOFTWARE	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	ART	ARTTIC	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	TPH	TEEM PHOTONICS SA	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	IO	IMAGINE OPTIC	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	ALPHA	CENTRE TECHNOLOGIQUE ALPHANOV	Participant	REC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	AS	AMPLITUDE SYSTEMES SA	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	MF	MICEL FILMS SAS	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	MDP	LA MONNAIE DE PARIS EPIC	Participant	PUB
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	MICEL	MICEL	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	ARGO	ARGOLIGHT	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	ACA	A.C.A	Participant	PRC
609100	CloudFlow	46	01-Jul-2013	30-Apr-2017	47	Missler	Missler Software	Participant	PRC
609100	CloudFlow	46	01-Jul-2013	30-Apr-2017	47	DONERRE	AMORTISSEUR DONERRE	Participant	PRC
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	C-TEC	CEDRAT TECHNOLOGIES SA	Participant	PRC
288881	COLAE	36	01-Sep-2011	31-Aug-2014	19	PLAST	PLASTIPOLIS	Participant	OTH
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	CNRS	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	Participant	REC
632860	I3H	30	01-Jul-2014	31-Dec-2016	9	INRIA	INSTITUT NATIONAL DE RECHERCHE ENINFORMATIQUE ET	Participant	REC

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

- Alsace
- Basse-Normandie
- Bourgogne
- Champagne-Ardenne
- Corse
- Franche-Comté
- Guadeloupe
- Guyane
- Haute-Normandie
- La Réunion
- Languedoc-Roussillon
- Limousin
- Martinique
- Mayotte
- Nord-Pas-de-Calais
- Picardie
- Poitou-Charentes