

**Interreg**  
**Alpine Space**



-  SMART SPACE - Smart-Manufacturing for Alpine Space SMEs - 7th April 2017 - Venice
-  Enterprises and Digital Revolution: national roadmap and comparing experiences - French experience
-  SMART SPACE - Alsace Innovation - Jean Jacques Bernardini

French public policies related to Factory of the future and moreover Industry 4.0 follow two main objectives:

- ❑ Modernization of the production base
  
- ❑ Support use of digital technologies to transform French companies' business models

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## THE INDUSTRY OF THE FUTURE PROJECT IS BUILT ON FIVE PILLARS:

- Development of cutting edge technologies
- Support industrial companies to foster transition phases - help companies to adapt to new paradigms
- Employee training
- Stenghten European and international co-operations
- Promote the French industry of the future

## Cutting edge technologies

### 7 priorities

- Digitalization, virtualization et Internet of the Things
- Human in the factory
- Cobotique, augmented reality
- Additive manufacturing (3D printing)
- Monitoring and control
- Composites, advanced materials
- Automation and Robotic
- Energy efficiency

## Development of cutting edge technologies:

The Industry of the Future project will support companies developing major projects in markets where France could achieve European or even global leadership in the next three to five years:

- ❑ **Additive manufacturing** (ex in Alsace Beam : <http://www.beam-machines.fr/>)
- ❑ **The virtual plant and the internet of things**
- ❑ **Augmented reality**

## Support transformation of industries to Industry 4.0

### Help companies adapt to the new paradigm

#### Personalised support

Regional platforms will offer audits to industrial SMEs and mid-tier firms, with the support of the Alliance for the Industry of the Future. Based on a shared database, awareness-raising campaigns will reach 15,000 companies and 2,000 of them will be supported over the next two years. Some 200 to 300 experts will be trained to certify innovative projects at the national level.

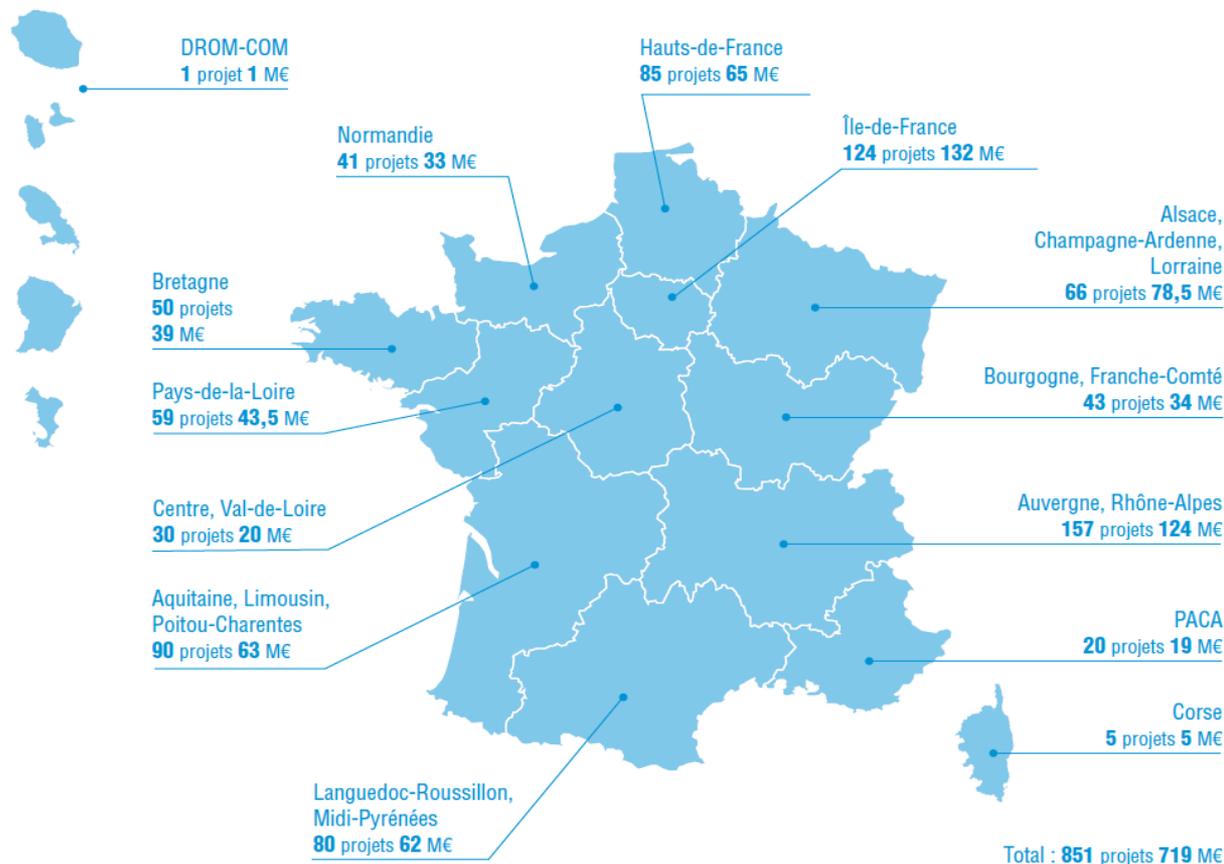
#### Financial support

The Prime Minister has announced two exceptional measures to support companies keen to modernise their production base:

- **€2.5bn in tax incentives** for companies investing in their production base over the next 12 months
- **€2.1bn in loans** earmarked by Bpifrance for SMEs and mid-tier firms over the next two years: these additional development loans will supplement the €1.2bn already made available to companies investing in Industry of the Future projects (digitization, robotics, energy efficiency, etc.)

# INDUSTRY 4.0 - FRENCH POLICIES

## INDUSTRIE DU FUTUR



## Employee Training

- ❑ Upskilling the industrial workforce and training the next generations in these new jobs.
  
- ❑ Support the growing use of digital and automation technologies in industrial plants.

## European and International co-operations

### Cooperation on European and international norms and standards

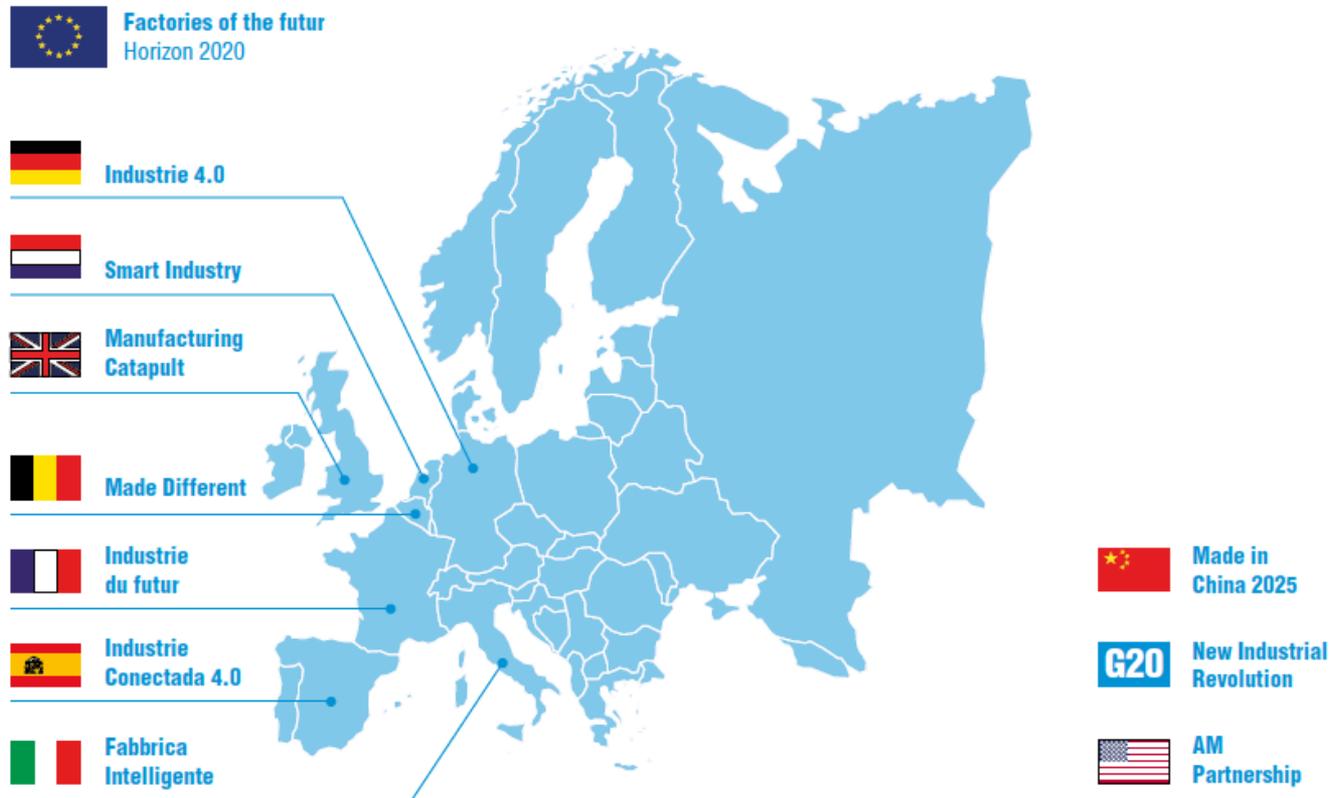
On the European level, the Alliance for the Industry of the Future will:

- **Represent French interests** in European initiatives in the field of smart manufacturing and digitization of industry
- **Support French companies** responding to European «Horizon 2020» calls for projects
- **Strengthen France's influence** in the field of European standards, which will facilitate its deployment of the cutting-edge technologies developed

### Technological cooperation with Germany

The scope and governance of the Industry of the Future project are designed to ensure a natural interface with the German «Industry 4.0» platform. This cooperation will take the form of joint pilot and technology development projects that will be presented in the framework of the European investment plan.

# INDUSTRY 4.0 - FRENCH POLICIES

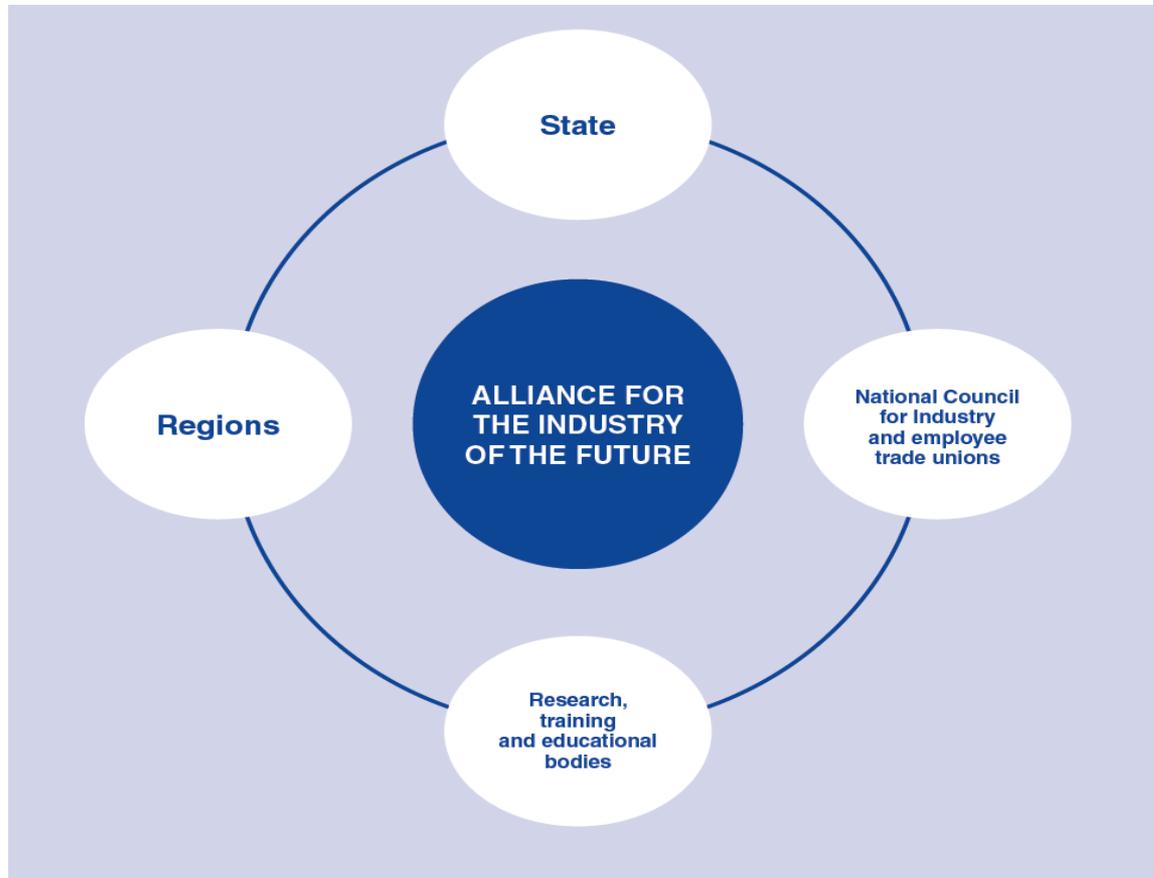


## Promote industry of the future

- Identification and labelling of emblematic enterprises « Vitrines de l'industrie du futur »
- Share best practices at national and internal levels with industrials from the same value chain (including SMEs), industrials from other value chains, technologies providers and integrators, public and private investors, state and regional authorities and academics
  - *15 companies labelled at national level - 2 in Alsace (SEW USOCOME and VELUM)*

# INDUSTRY 4.0 - FRENCH POLICIES

## Alliance Industry of the Future: a stronger governance to spearhead the industry of the future



**Co-chaired by two industry leaders**  
FRÉDÉRIC SANCHEZ,  
President, Fives Executive Board  
BERNARD CHARLES,  
CEO, Dassault Systèmes

## Alliance Industry of the Future: a stronger governance to spearhead the industry of the future

A partnership between industrial and digital stakeholders to oversee the project phases:

- **A non-profit association** co-chaired by Frédéric Sanchez, Chairman of Fives Executive Board, and Bernard Charles, the CEO of Dassault Systèmes, organised around a nucleus of industrial and digital players representing more than 33,000 companies and 1.1 million jobs: FIM, Syntec Numérique, AFDEL, Symop, Gimélec and UIMM
- **The participation of key players** in research (CEA and CETIM) and initial and continuing training (Arts et Métiers Paristech and Institut Mines-Télécom)
- **A partnership welcoming all trade unions**, federations and professional organisations keen to participate in this collective initiative to promote the Industry of the Future

## Alliance Industry of the Future: a stronger governance to spearhead the industry of the future

An Industry of the Future steering committee chaired by the Minister of the Economy, Industry and the Digital Sector meeting every two months, bringing together:

- **Representatives of the Alliance for the Industry of the Future**
- **The National Council for Industry (CNI) and the five trade unions representing employees**
- **The public authorities**, with the Association of French regions (ARF) and State departments and agencies (DGE, CGI, Bpifrance, Business France, DGEFP)
- **A number of qualified individuals**, heads of French mid-tier firms and foreign companies operating in France

## Development of industrial solutions for nine priority markets

**New resources → Eco-industries, Chemicals-Materials, Extractive industries and primary processing**

**Smart cities → Eco-industries**

**Eco-mobility → Automobile industry**

**Tomorrow's transport → Aerospace, Rail and Naval**

**Smart food choices → Agribusiness**

**The data economy → Digital**

**Smart devices → Digital and Consumer goods**

**Digital confidence → Digital**

**Medicine of the Future → Health**



Alsace Innovation



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