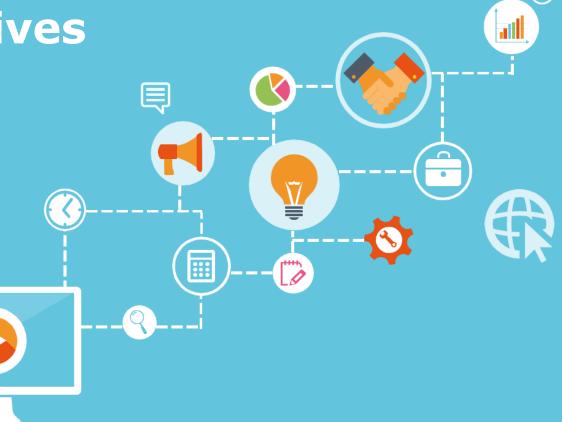


Overview of national initiatives on industry digitisation

First "Digitising European Industry" Stakeholder Forum, 01 February 2017, Essen













Objectives of the policy reports on industry digitisation

- Provide concise information on national policy initiatives of EU countries for the digitisation of industries and enterprises covering:
 - ✓ Policy objectives

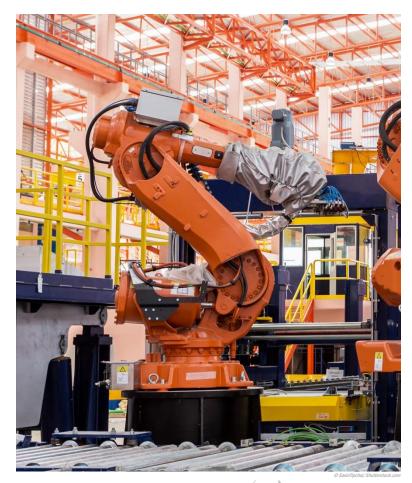
✓ Drivers

✓ Budget

√ Challenges

✓ Implementation

- ✓ Lessons learnt
- Provide policy-makers with hints and priorities
 for potential future gaps
- Highlight synergies between national policies of EU countries to support the digitisation of industries and enterprises
- Provide information on the set of measures of the "Digitising European Industry initiative" (DEI)







Content of the policy reports on industry digitisation

The public drive to ensure funding

The CFI was established as a nonprofit association in September 2012. The initiative's budget can besplit into two major parts: the cost of the research projects and the cost of maintaining the cluster platform. The costs for financing the projects amount to around £45 million of which roughly 70% are state-funded. In the future, the CFI envisages a stronger participation of the private sector in financing the research projects.

The government will equally contribute to financing the cluster platform, as announced in its research and innovation agenda. However, differences between the Italian and EU cluster financing legislation have hindered effective support until now.

Private participation in funding activities

The participation of the private sector in the CFI is twofold: an approximate share of carrying the cost of the research projects and the financing of maintaining the cluster platform. Although the funding rates for the research projects vary according to the type of enterprise, a majority of enterprises participating in the projects makes that around 30% of the costs are carried by the private sector.

Meanwhile, the cluster platform is fully financed by the cluster members by means of a fixed membership fee. Even though the cluster members are overall diverse, e.g. small, medium and large enterprises, universities and research centres etc, the majority are private companies.³ The overall budget of the cluster for 2014 was around €50,000.

Main initiatives: Strategic research and cooperation

The CFI defined some core activities in the strategic plan giving priority to the set-up and implementation of applied research projects in order to develop new, enabling technologies for different industrial sectors. Further activities involve creating opportunities for technology transfer and circulation and knowledge sharing and sharing of research infrastructures and mobility

Moreover, it also covers the support for smart, sustainable entrepreneurship and in technological foresight at regional, national and international levels. Lastly, CFI also involves activities fostering the growth of human capital for high-profile skills for

manufacturing processes and

Targeting the smart factory ecosystem

The beneficiaries of the CFI are large and small-medium sized enterprises (industrial members), universities and research centres (research members), entrepreneurial associations, technological districts, non-governmental organisations and other stakeholders operating in the sector of manufacturing and the smart factory and associated sector.

smart fact

Key data	Value
GDP	Approx. €906 billion
Added value	Approx. €200 billion
Employees	Approx. €4 million
Companies	Арргок. 417.000

Concepts and focus areas - new technologies for manufacturing

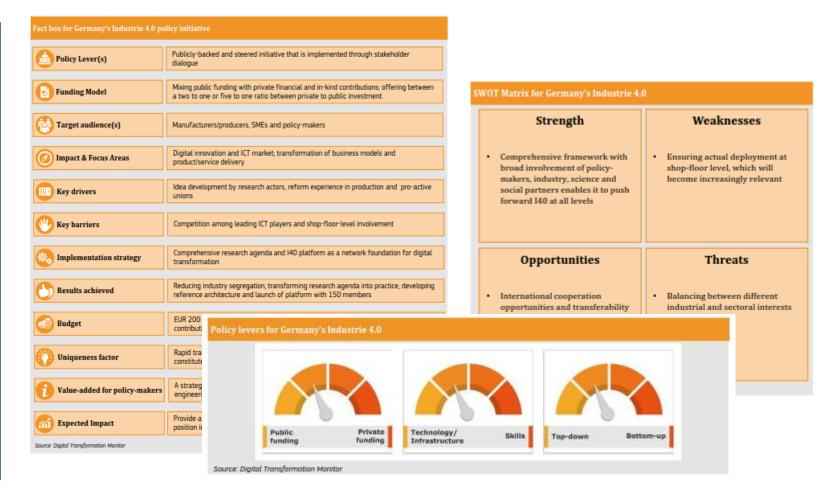
The focus and expected impact of the cluster on industrial and research communities, and consequently on society, are closely related to the development of the new technologies to meet the challenges of manufacturing innovation. The most significant expected impacts are to enhance competitiveness, employment and produce more sustainable manufacturing solutions decreasing the negative effects on the control of the control o

Bundled manufacturing strengths

As a strategic technology cluster, a key driver is CFIs ability to centralise ideas for innovating manufacturing from different governance levels. Thus, Italy can build upon the combined strength of its world-class universities, research organisations and technological transfer centres operating in conjunction with the industrial sector.

Even though decisions are taken at national level, the CFI is founded on a healthy equilibrium of regional and federal manufacturing actors. In fact, the co-operation between the MIUR is ruled by contractual agreements with the participating Italian regions. An additional driver of the CFI is its role as a central contact and reference point for Italian industrial manufacturing at international level.

Moreover, a direct communication channel to the Italian ministries provides an important cross-cutting vision for various policies such as R&D, industry, etc.

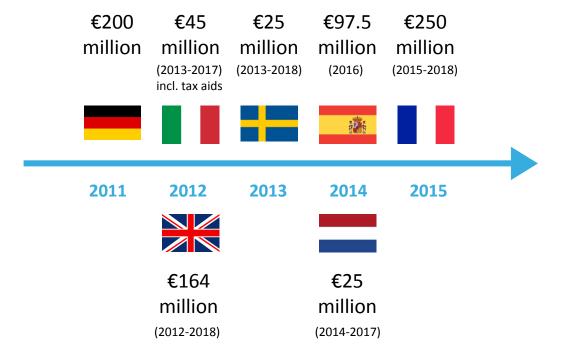






National initiatives on industry digitisation

Starting date and investment level: limited comparability between budget allocation by country







Overview of national initiatives on industry digitisation

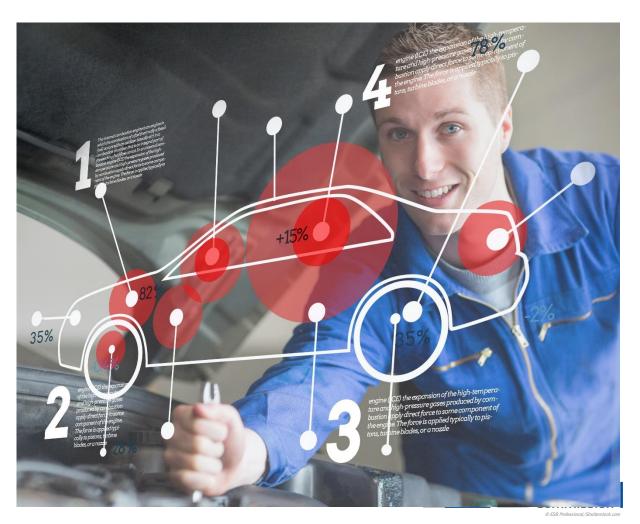
					Port	-	
Governance	Public leadership	Mixed	Public leadership	Mixed	Public leadership	Mixed	Mixed
Strategic focus	Deployment	Deployment	R&D	Deployment	R&D	Deployment	Deployment
Technology focus	Transport, IoT, Digital trust, mobility, medicine, cities, Data, Food	Cyber-Physical Systems, IoT	Generic	Generic	Digital platforms, Big data, Collaborative applications	Generic	Aerospace, Automotive, Chemicals, Nuclear, Pharma Electronics.
Skills focus	High	Low	Low	Medium	High	High	High
Funding	Mixed	Mixed	Public	Mixed	Public	Mixed	Mixed
Standards	Medium	High	Low	Low	Low	Low	Low
International	Yes	Yes	No	No	No	Yes	Yes



Challenges of national initiatives on industry digitisation

- From strategic design to concrete implementation of projects
- Achieving critical mass
 - Monetising R&D outcomes in viable EU commercial applications
- Slow speed of implementation
- **Skills bridge**: upskilling and reskilling the EU workforce
- Internationalisation beyond the EU

Need for better cooperation between national initiatives in Europe!





Digital Transformation Scoreboard 2017

Evidence of positive outcomes and current opportunities for EU businesses

- Digital transformation: a source of business opportunities with major societal impact
- Digital transformation of the European industry
- Technology landscape in Europe
- Geographic focus
- Country profile reports

