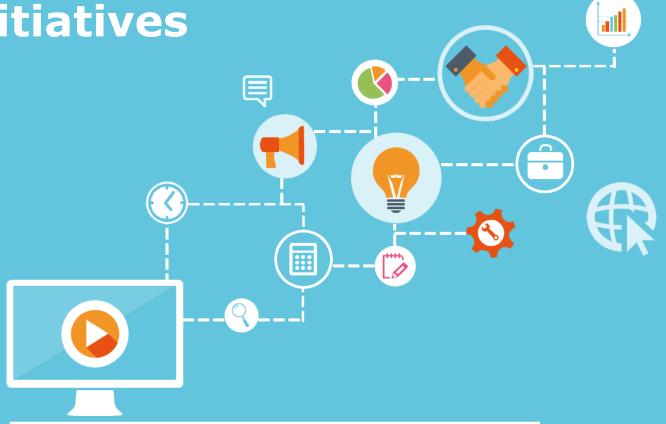


Overview of national initiatives on industry digitisation

Workshop on Digitising European Industry:, 27 June 2017, Brussels













Policy initiatives on industry digitisation identified



Belgium: Made Different



Czech Republic: Průmysl 4.0



Denmark: Manufacturing Academy of Denmark (MADE)



• France: Industrie du Futur



Germany: Industrie 4.0





Policy initiatives on industry digitisation identified



Netherlands: Smart Industry



Portugal: Indústria 4.0



Spain: Industria Conectada 4.0



• Sweden: Produktion 2030



United Kingdom: The Catapult Programme – HVM Catapult





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

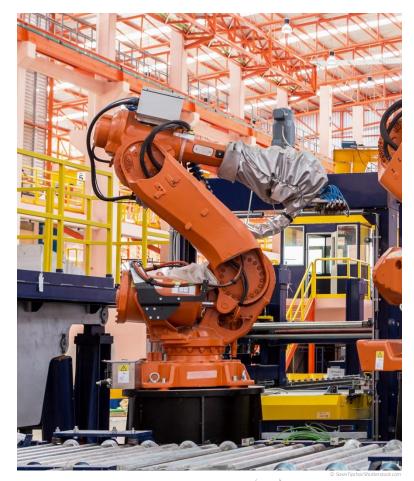
✓ Drivers

✓ 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 be split 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 e45 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, an anajority 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 infrastructuring

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.

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

Concepts and focus areas - new technologies for manufacturing

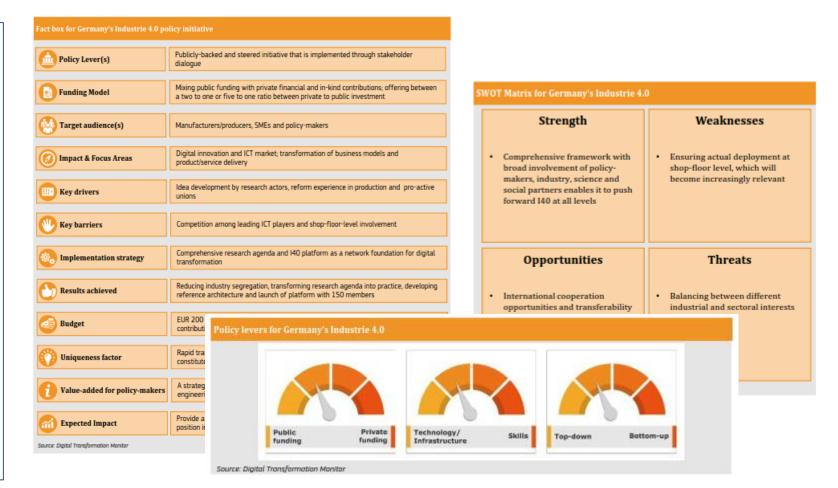
The focus and expected impact of the cluster on industrial and research communities, and consequently on society, are closely related to the development of the new technologies to meet the challenges of manufacturing innovation. The most significant expected impacts are to enhance competitiveness, employment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

Bundled manufacturing

As a strategic technology cluster, a key driver is CFI's 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

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.

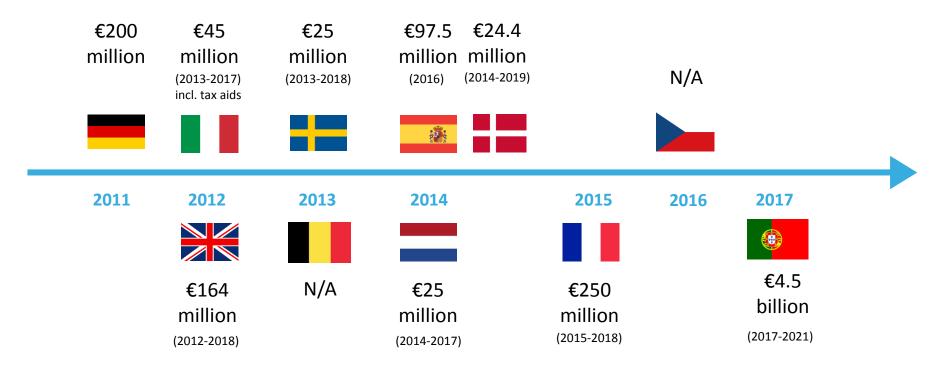






National initiatives on industry digitisation

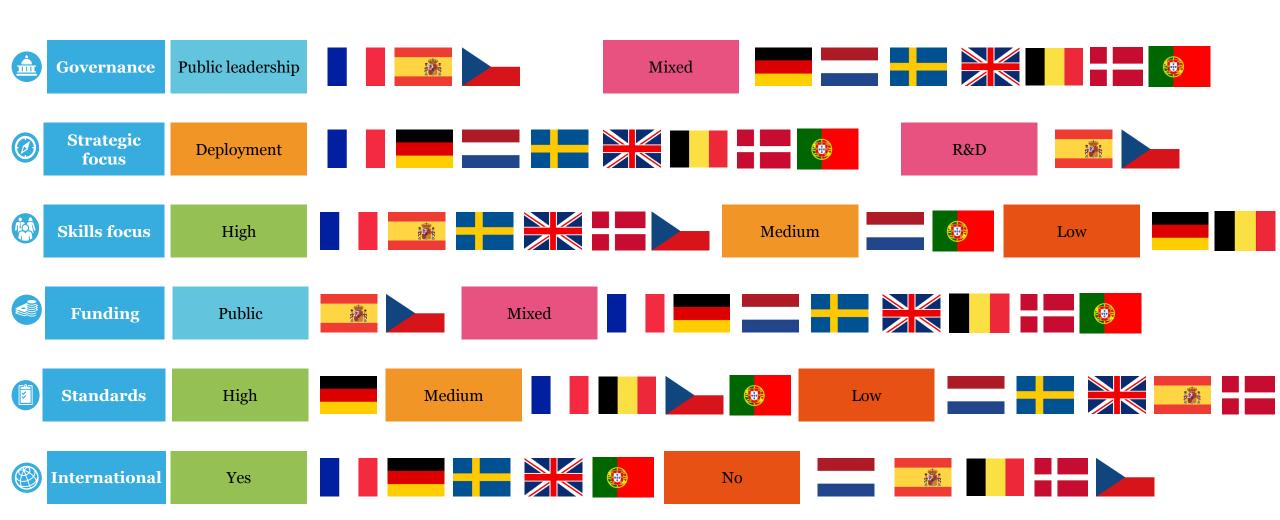
Starting date and investment level: limited comparability between budget allocation by country







Overview of national initiatives on industry digitisation





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!





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