
The Italian network of DIHs and Competence Centers

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Italian Plan Industria 4.0



In order to boost productivity and accelerate technological upgrading, the National Plan Industria 4.0 of the Italian Government is focused on **strategic measures to support innovative investments and empower skills**. Moreover, the National Plan Industria 4.0 provides for the **creation** of an innovative infrastructure composed of **Digital Innovation Hub (DIH)** and **Competence Centers (CC)**.

Confindustria Digital Innovation Hub network

DIHs' Purpose

Confindustria worked at the creation of a **National Network of Digital Innovation hubs**. Confindustria's DIHs, in line with the National Plan Industria 4.0, have a **horizontal dimension**. They are the **contact point among companies, research institutions and public/private investors at regional level**. The DIHs of Confindustria mainly have a regional or an interregional dimension and they operate through territorial points, **in collaboration with the Associations of Confindustria**, with the purpose of:



DIH

Digital Innovation Hub



Being the "gateway" to the world of Industry 4.0, in order to support the digital transformation of the manufacturing system;



Stimulating the demand for enterprises innovation;



Strengthening the level of knowledge and awareness in relation to the opportunity offered by Industry 4.0.

Confindustria Digital Innovation Hub Network



The DIHs' activities for the enterprises



Awareness and training on the opportunities linked to the application of 4.0 technologies, through the organization of seminars, workshop and study visit.



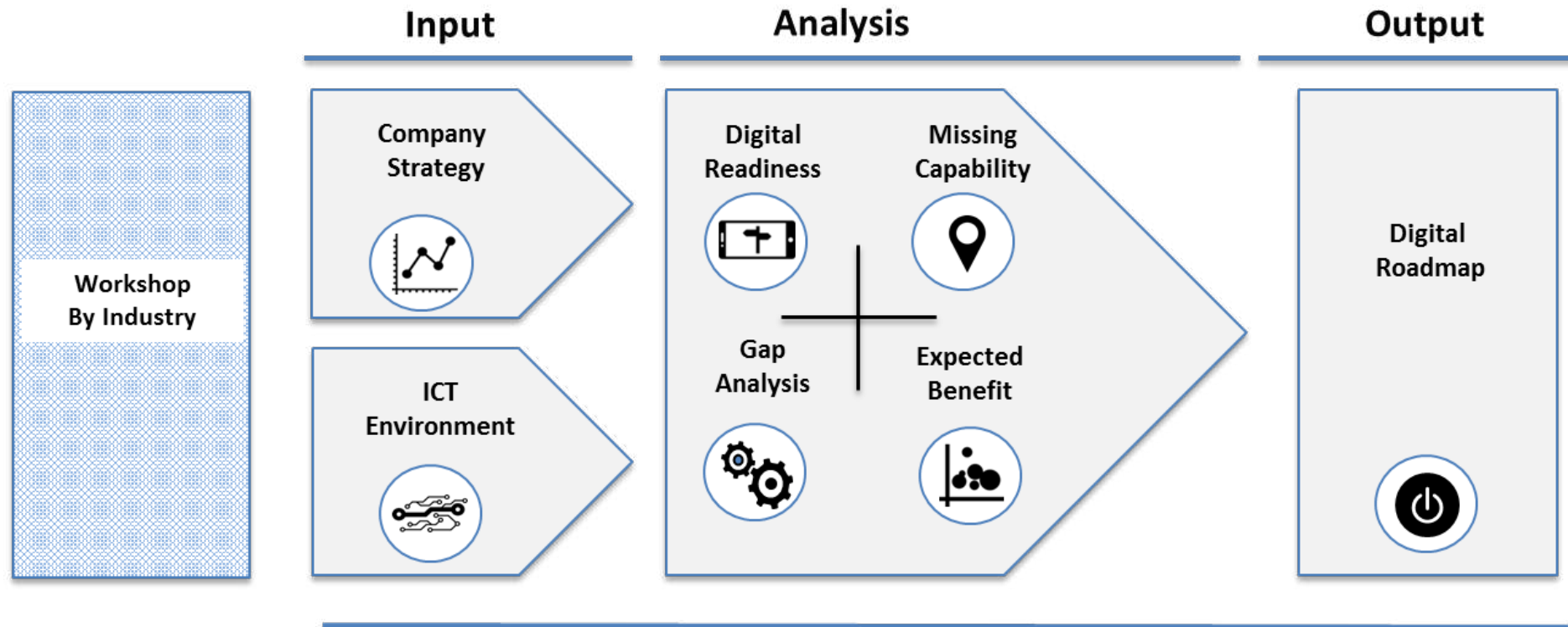
Assessment of the digital maturity: support in the use of digital maturity assessment's tools, definition of the roadmap for the digital transformation of the business processes and support in the elaboration of 4.0 projects.



Orientation toward the innovation ecosystem: DIH European Network, European and National Competence Centers, smart factories and demo centers, lighthouse factories, universities, technological parks, technological clusters, public and private research centers, technological transfer centers, incubators.

Confindustria Digital Innovation Hub Network

Approach towards «Industria 4.0»

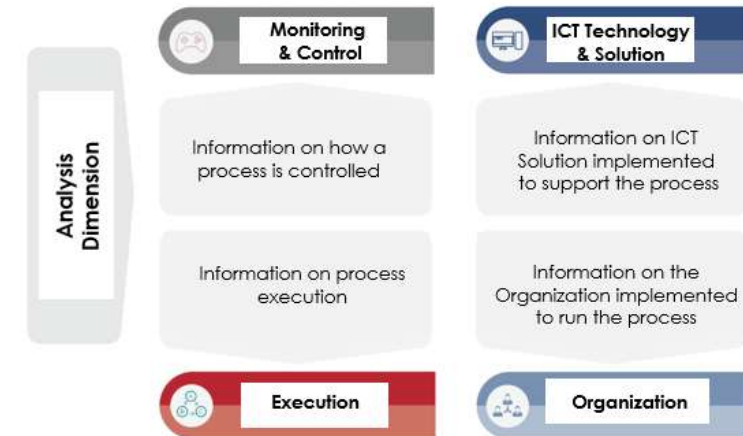
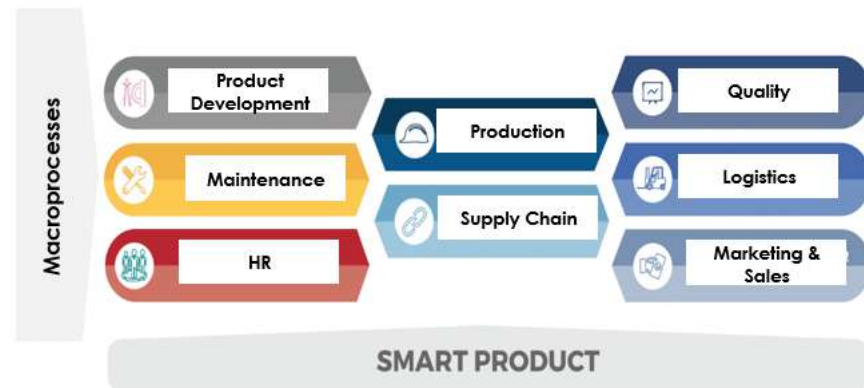


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The assessment of the digital maturity

The test, elaborated by **Politecnico di Milano** and **Assoconsult**, allows to assess the digitalization level for each function of the company.

The test results are divided into **four analysis dimensions**: Execution, Monitoring and Control of the Processes, Technology e Organization.



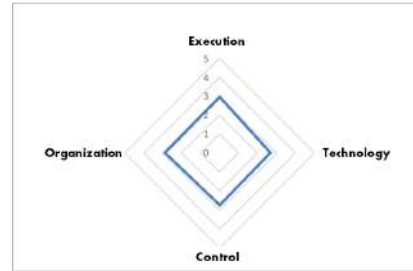
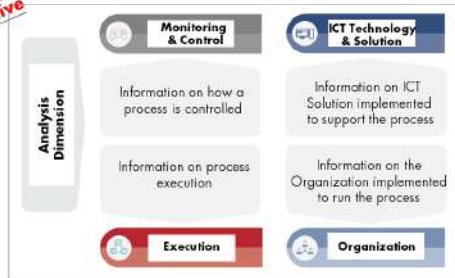
Once digital maturity has been defined, a roadmap can be identified in order to bring the company closer to Industry 4.0.

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Digital Readiness Assessment – Roadmap Result

The Result – Analysis Dimension

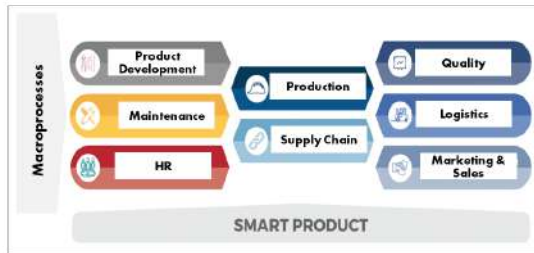
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Execution	Technology	Control	Organization
2.96	2.69	2.75	2.87

The Result – Macroprocesses

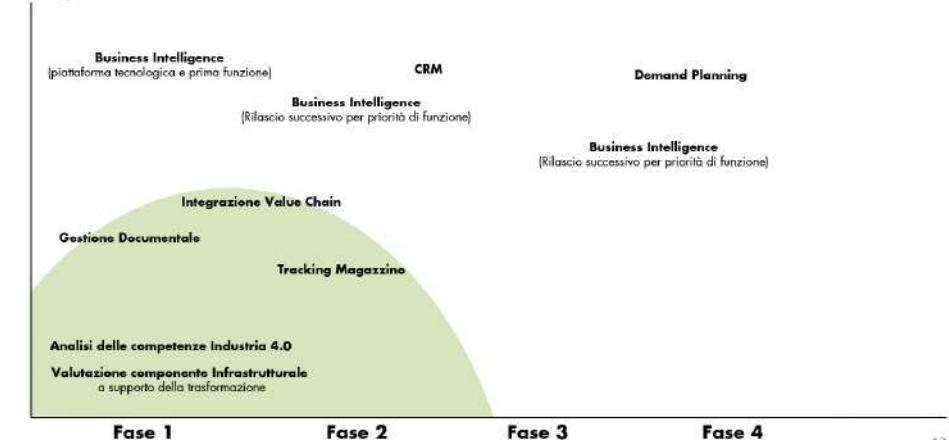
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Development	Production	Quality	Maintenance	Logistics	Supply Chain	HR	Marketing & sales	Smart Product
3.01	3.09	3.02	2.56	2.25	2.12	2.39	2.87	2.90

Ambito	Titolo Iniziativa	Breve descrizione
Cross Funzione	Piattaforma di Business Intelligence (BI)	Nei processi presi in considerazione si evidenzia che, anche grazie all'implementazione dell'ERP SAP per i differenti ambiti aziendali, si è ora in condizione di poter sfruttare al meglio il «data» strutturato del sistema. Una soluzione di reporting a varie livelli (operativo e decisionale) consentirebbe di monitorare in modo strutturato i processi «core» dell'impresa. In futuro non è da escludere la possibilità di integrare anche fonti di dati esterni all'azienda ampliandone così la possibilità di analisi.
Cross Funzione	Sistema Documentale per la gestione dei documenti elettronici	Anche per gli ambiti non coperti dal sistema SAP l'analisi evidenzia l'opportunità di lanciare una iniziativa di «Digital Document Management» per la gestione in prima battuta di tutti i documenti (ovviamente da definire con quale priorità) prodotti in azienda ma soprattutto per rendere la conoscenza a tutti gli effetti un «patrimonio aziendale» e non del singolo individuo.
Supply Chain	Demand Planning	Valutare la possibilità di implementare una soluzione di Demand Planning integrata con SAP per migliorare il processo di gestione della domanda (di breve/media) con la possibilità di ottimizzare i tempi di setup delle linee di produzione
Supply Chain	Integrazione delle value chain	Riprendere in considerazione la possibilità (anche mirata) di implementare una soluzione per l'integrazione degli attori chiave della value chain sia per quanto riguarda i fornitori (incluso i partner logistici se utilizzati) che i clienti.

Complessità

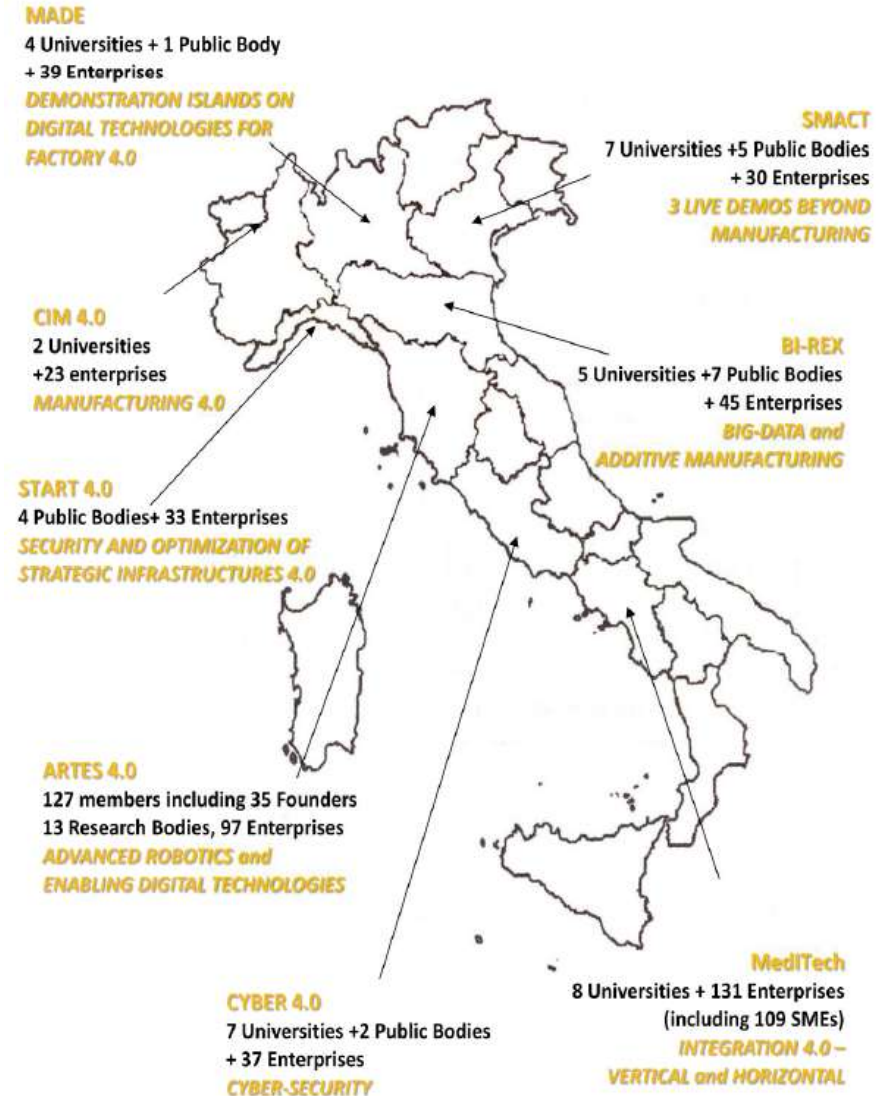


Italian I.4.0 Competence Centers Network

Competence Centers are national and specialized in Industry 4.0 technology areas and may also be sector-specific. They involve universities centers of excellence and significant private players with a view to offering companies the possibility to **test and experience technologies** and to **accelerate innovative and technology development projects**.

The Competence Centers' activities

-  **I4.0 training and awareness**
-  **Live demos** on new technologies and access to I4.0 best practices
-  **Technical advisory** on I4.0 for SMEs
-  **Launch** and acceleration of technological development and **innovative projects**
-  **Trial support** and "on-site" development of **new I4.0 technologies**
-  **Coordination** with Italian CC and National and DIH European Network



Italian I.4.0 Competence Centers Network

Deep Dive on MADE 4.0

MADE Competence Center's activities for the enterprises



Orientation through Seminars on I4.0, company visits, Workshops, Tour to the Competence Center, Use Case specific demos



Training : Teaching Factory, Training, Train the Trainers



Innovation projects, industrial research : Industry Strategy 4.0, innovation projects, demos and tests, Technology Scouting, validation of Industry 4.0 projects, technology consultancy

Italian I.4.0 Competence Centers Network

Deep Dive on MADE 4.0

MADE -Test Before Invest - Technological areas



Virtual Design and Product Development



Energy monitoring - real-time remote monitoring and control of the plant & Maintenance 4.0



Collaborative Robotics and Intelligent Worker Assistance Systems



Process 4.0: Digital Twin Process, Lean 4.0 and Logistics



Quality management Smart Additive Manufacturing and Product Tracking



Information Asset Management: Industrial Cyber-Security and Big Data Analytics



European Digital Innovation Hub Network

Digital Innovation Hubs are a Key Pillar in The European Commission's Digitising European Industry

Companies can benefit from Digital Innovation Hubs to better understand how to improve their processes, products and services through digital technologies. Digital Innovation Hubs are not-for-profit, one-stop-shops that support companies – in particular small and medium-size enterprises (SMEs) – and public organisations in their digital transformation, offering them services such as:



Test before invest: Experimentation with new digital technologies – software and hardware – to understand new opportunities and return on investments, also including demonstration facilities and piloting



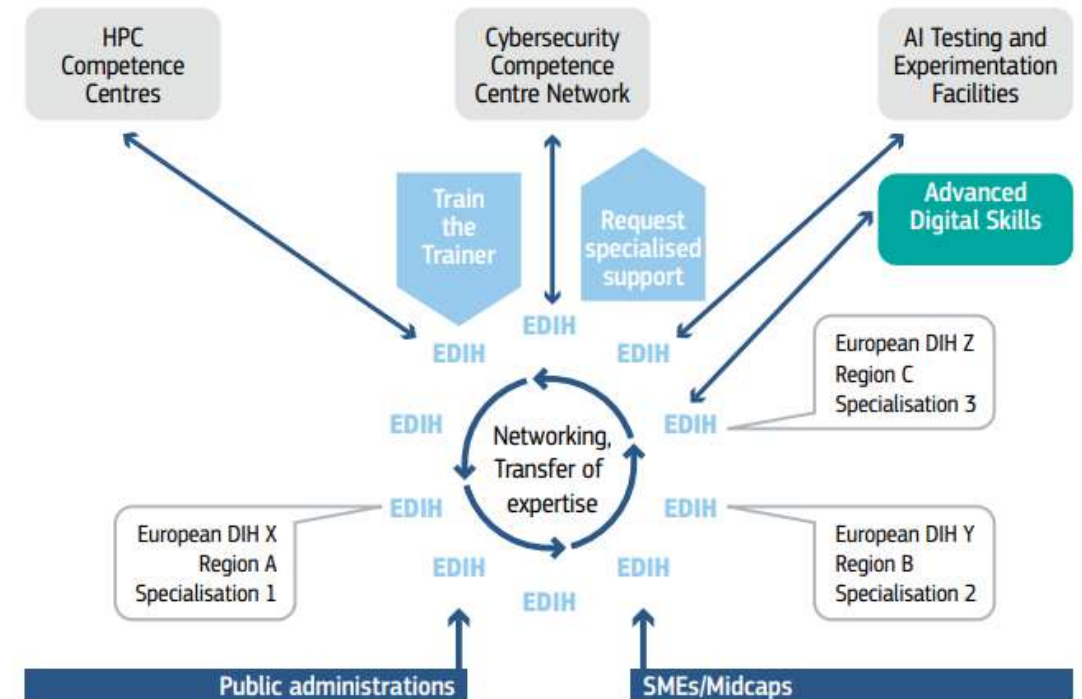
Skills and training to make the most of digital innovations: train-the-trainer programmes, boot-camps, traineeships, exchange of curricula and training material



Support to find **investments:** feasibility studies, develop business plans, incubation & acceleration programmes



An innovation **ecosystem and networking** opportunities through marketplaces and brokerage activities





DIGITAL INNOVATION HUBS

Helping companies across
the economy make the most
of digital opportunities

"I Believe Europe can successfully manage the transformation into the digital age, if we build on our strengths and values"

Ursula von der Leyen, President-Elect of the European Commission