

Industry 4.0 State of Art in Italy



19 October 2016



Assolombarda is ...

.... the **largest local** entrepreneurial Association in Italy, representing **5,768 companies** located in the area of Milan, Lodi and Monza Brianza, **employing approximately 333,000 workers** locally and several hundred thousands in the whole country.

.... the **most important association** within the Confindustria system. Confindustria is the national entrepreneurial federation.

Firms of **all dimensions** and belonging to **all industrial sectors**, producing services, goods or both are eligible to become members of Assolombarda.

Assolombarda membership is voluntary.

Our Mission: Identity - Representation - Services

The mission is to **foster the development** of local industry by promoting solidarity and cooperation among member firms and by protecting their interests regarding industrial, social, economic or cultural matters.

Assolombarda protects and represents the enterprises' interests in dealing with the political world, with social and political organizations and with local authorities as well as with trade unions.

Assolombarda also provides its associated firms with a great **variety of services** to support them in managing the business functions/issues.

Our territory



Our member companies are located in the area of Milan, Lodi and Monza Brianza

Assolombarda sectors



- Mechanical & Engineering
- Rubber And Plastic
- Ict & Service Sector
- Chemical Industry & Construction Materials
- Energy Industry
- Transport Industry
- Fashion, Design and Furniture
- Healthcare & Life Science
- Tourism
- Media, communication & entertainment
- Agricultural & Food Industry

Industry 4.0

The scope and application examples





(airbnb



The context

greater interconnection and cooperation between resources. greater efficiency of production processes and a more competitive system.

The data collected is used to improve the productive capacity, efficiency, security and business continuity.

Operators are facilitated in their tasks

The whole factory is connected to the rest of the logistics-production system and clients

increasing service content value-added into the product.

Expected benefits



Flexibility

Rapidity

Productivity



Quality



Product Competitiveness

Our project for Industry 4.0



Producing a knowledge base for Support the positioning of decision makers and policy makers Assolombarda and its territory as Raise awareness and support prefiguring vision of development election area for industrial activity companies and concrete proposals to achieve and innovation **ACTIONS** Encourage and take part in Participate in national in-depth missions (incoming Participate in the work Activate an Advisorv Process the scenario working groups and and outgoing) on German of WG Minister **Board Manufactory** study on the theme also through the 4.0: Calenda for the 4.0: Federmeccanica, **4.0** to direct the project analysis of focus -Stuttgart And Monaco construction of the and ensure the quality groups with 50 output Confindustria June 2016 national plan Industry of the proposals target companies Digitale, 4.0 -Monza And Milan. Confindustria, ... September / October 2016 OUTPUT Create a highly visible Process the **Position**

Process the **Position Paper of Assolombarda** on Industry 4.0 Create a **highly visible** event that recalls the leading authorities, business representatives, opinion leaders

Build an accompanying path for companies: workshops, visits to champion, video interviews with entrepreneurs and CEO

The analysis of the context - The technology adoption

The size of Italian companies, mainly SMEs, and the scarcity of structured supply chains that allow a systemic dissemination of technologies requires the activation of policies that support a horizontal and widespread contamination through the sharing of knowledge:

- a national awareness campaign, to make the phenomenon pervasive across the country
- the creation of local centers for the transfer of knowledge and the provision of services (Digital Innovation Hub)
- few qualified high competence centers (Competence Centre on the European model, and German) primarily technology that are also reference points for
 - Training people
 - the identification of new skills
 - experimentation by SMEs of new technologies
- the development of instruments to support the request, aimed at supporting the massive adoption of digital technologies in production processes, immediately making attractive investments and shortening the time to return, particularly sensitive element for SMEs (which in many cases have a limited perception of the positive impact of new technologies).
- the completion of the infrastructure network (ultra-wideband) provided by the national plan (already funded plan, especially with European resources) that connects 100% of businesses by 2020, even as the activation tool of territorial contamination.

Industrial Relations

Industry 4.0 can represent a great opportunity:

- For companies which can regain competitiveness
 More control over production processes
- for workers, especially those most likely to change and with ability to work independently

Independence and Responsibility

With the digital revolution and automation the workers with low skills and routine tasks are those who risk

The cultural limitations that demonstrate some critical voices on the technological process in place may slow, but not stop the digital evolution.

Education and Skills 4.0



The introduction of these educational paths accelerated also represent an extraordinary opportunity for integration of young people into work.

National Plan for Industry 4.0- key points



Cabina di Regia Industria 4.0

Cabina di regia a livello governativo Architettura di governo pubblico-privata



Presidenza del Consiglio dei Ministri

Min. dell'Economia e delle Finanze

Min. dello Sviluppo Economico

Min. dell'Istruzione, dell'Università e della Ricerca

Min. del Lavoro e delle Politiche Sociali

Min. delle Politiche Agricole, Alimentari e Forestali

Min. dell'Ambiente e della Tutela del Territorio e del Mare



Nota: In base a risultati dell'indagine conoscitiva della X Commissione attività produttive, commercio e turismo: "La rivoluzione industriale 4.0"

National Plan for Industry 4.0- key points

Piano nazionale Industria 4.0 2017-2020

Direttrici strategiche di intervento

Direttrici chiave

Investimenti innovativi

- Incentivare gli investimenti privati su tecnologie e beni 14.0
- Aumentare la spesa privata in Ricerca, Sviluppo e Innovazione
- Rafforzare la finanza a supporto di I4.0, VC e start-up

Competenze

- Diffondere la cultura l4.0 attraverso Scuola Digitale e Alternanza Scuola Lavoro
- Sviluppare le competenze I4.0 attraverso percorsi Universitari e Istituti Tecnici Superiori dedicati
- Finanziare la ricerca I4.0 potenziando i Cluster e i dottorati
- Creare Competence Center e Digital Innovation Hub

Direttrici di accompagnamento

Infrastrutture abilitanti

 Assicurare adeguate infrastrutture di rete (Piano Banda Ultra Larga)

 Collaborare alla definizione di standard e criteri di interoperabilità IoT Strumenti pubblici di supporto

- Garantire gli investimenti privati
- Supportare i grandi investimenti innovativi
- Rafforzare e innovare il presidio di mercati internazionali
- Supportare lo scambio salario-produttività attraverso la contrattazione decentrata aziendale

Governance e awareness

Sensibilizzare sull'importanza dell'I4.0 e creare la governance pubblico privata





National Plan for Industry 4.0- key points



Iperammortamento e Superammortamento

Advanced Manufacturing Solutions Additive Manufacturing Augmented 60 Reality Simulation Horizontal/ 5 Vertical Integration Industrial Internet Cloud Cybersecurity **Big Data and Analytics** Investimenti in tecnologie Agrifood, Bio-based economy e a supporto dell'ottimizzazione dei consumi energetici

Investimenti innovativi

Fonte: Confindustria; MATTM; MEF; MIPAAF; MISE; R.E TE. Imprese Italia

Agevolazioni previste

Iperammortamento

Incremento aliquota per investimenti 14.0
 Attuale
 Proposta



Superammortamento

 Proroga del superammortamento con aliquota al 140% ad eccezione di veicoli ed altri mezzi di trasporto che prevedono una maggiorazione ridotta al 120%

Tempistiche

 Al fine di garantire la massima attrattività della manovra, estensione dei termini per la consegna del bene al **30/06/18** previo ordine e acconto >20% entro il 31/12/17

Digital Innovation Hub and Competence Centre in the European Plan for digitization

DIGITAL INNOVATION HUB

Organised to provide services to industry

- Making use of CCs for equipment and expertise
- Development of innovation
 ecosystem
- Support of brokerage
- Access to finance
- Market intelligence
- Training and education
- Incubator services



COMPETENCE CENTRE

Competences in Digital Technologies

- Technological infrastructure, technology platform
- Available expertise to make it operational
- Support of experimentation in business environment
- Showing best practices
- Showcasing technologies in pilot factories

L'appuntamento da non perdere...



Convegno

SVILUPPO DEL MANIFATTURIERO L'evoluzione digitale



Villa Reale di Monza, 15 novembre 2016 Ore 9.30 – 12.30

Villa Reale di Monza – Viale Brianza 1, Monza Area Industria e Innovazione - Tel. 02 58370.824 - per iscrizioni: eventi@assolombarda.it www.assolombarda.it - www.farvolaremilano.it - www.assolombardanews.it Seguici su 🎾 🛐 in 🛗 🖸





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