

Country Overview Profile Italy

Stand: 17. Dezember 2015



Präambel:

Wir schreiben im Folgenden in der maskulinen Form, und zwar ausschließlich wegen der einfacheren Lesbarkeit: Wenn beispielsweise von Mitarbeitern die Rede ist, meinen wir selbstredend auch Mitarbeiterinnen.

Empfohlene Zitierweise:

GAUSEMEIER, J.; KLOCKE, F.: Industrie 4.0 – Internationaler Benchmark, Zukunftsoption und Handlungsempfehlungen für die Produktionsforschung. Paderborn, Aachen, 2016

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Summary

Globally exporting SME's in north of Italy are backbone of the economy. Industrie 4.0 is mainly driven by industry associations. Germany is considered benchmark regarding Industrie 4.0, although companies have **difficulties to interpret the approach** and **fear of losing competitiveness**. However, **competencies for supplying Industrie 4.0 solutions are already present** as a consequence of continuous further improvement in the area of automation and as a result of **high specialization**. **Strong focus on digitalization and interconnectivity of machines** lead to **unused potentials**, e.g. in the area of **industrial design** and **HMI**, that strengthen the worker abilities. **Missing investments** in the past lead to budgeted restriction especially for SMEs, which is currently a barrier for innovation. **Regional collaboration** and **applied research activities** funded by regional or national government are **focused and driven by industry associations**.

Highlights



Technology Overview

Intrinsic use of state-of-the-art technologies especially in the mechanical engineering and textile industry, without a defined Industrie 4.0 strategy. High degree of technical specialization, especially in SMEs.

Map



Industrie 4.0 in Italy

Drivers/ Challenges	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p style="text-align: center; color: #0070C0;">Drivers</p> <ul style="list-style-type: none"> ▪ High degree of specialization of SMEs in niche markets ▪ Regional economic development programs driven by industry associations promoting research and innovation strategies and extra regional network in manufacturing sector ▪ Interpretation of the German vision of Industrie 4.0 and fear of losing competitiveness towards Germany on European market pushes development efforts in digitalization and inter-connectivity </div> <div style="width: 48%;"> <p style="text-align: center; color: #0070C0;">Challenges</p> <ul style="list-style-type: none"> ▪ Traditions are obstacles for the adoption of new technologies ▪ Lacking collaboration between university and industry and little room for own basic research slow down innovation ▪ Lacking digital infrastructure </div> </div>
Key Stakeholder	<ul style="list-style-type: none"> ▪ Associazione Fabbrica Intelligente (AFI) – Association of national small, medium and large enterprises and research institutes to promote research and innovation regarding practices and enabling technologies for the »Intelligent Factory« ▪ Associanzione Fabbrica Intelligente Lombardia (AFIL) – Regional cluster of the AFI to strengthen the region Lombardia as a priority area for manufacturing in Italy
Key Approaches	<p>4 Core Projects of Associazione Fabbrica Intelligente (AFI) AFI-led projects funded by the national government to improve industrial competences in smart, adaptive, sustainable and high performance manufacturing.</p> <p>Advanced manufacturing priority areas of Associanzione Fabbrica Intelligente Lombardia (AFIL) AFIL-led projects funded by the regional government of Lombardia in the priority areas »Innovative production processes for value products and materials manufacturing«, »Evolutionary and adaptive manufacturing systems«, »Highly efficient production systems«, »People oriented manufacturing«, »Personalized manufacturing« and »Sustainable manufacturing systems«. Cluster of enterprises, research institutes and universities can apply for funds based on own projects ideas in the priority areas.</p>