

Country Overview Profile France

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

Reindustrialization with a comprehensive future-oriented strategy. Despite the high level of research and technology in different fields, the size and **economic weight of its big companies** and the stable economy, French **manufacturing industry is declining** and the government is trying to rebuild this through introducing a high-tech-oriented »**Nouvelle France Industrielle**« to help and encourage the companies to adapt to new paradigms in manufacturing in fields such as cloud computing. **Major players in industrial software** such as Dassault Systèmes want to achieve a **leading position in offering systems** for Industrie 4.0, and the country is aiming for a **major influence in the consumer-oriented Internet of Things**. Industrie 4.0 is seen as an **approach requiring European cooperation**, with cooperation with Germany explicitly sought and actions defined.

Highlights



Technology
Overview

Innovation strength and R&D expenditure exceeds almost all other industry nations. One of the best education systems in Europe and high appreciation of MINT-related subjects set Finland in pole position regarding the educational basis

Map



Industrie 4.0 in France

Drivers/ Challenges	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p style="text-align: center;">Drivers</p> <ul style="list-style-type: none"> ▪ Leading companies in industrial software and advanced technologies drive research on Industrie 4.0 ▪ Comprehensive government program on high-tech manufacturing embedded into a digital agenda drives building of clusters of excellence and pilot projects </div> <div style="width: 48%;"> <p style="text-align: center;">Challenges</p> <ul style="list-style-type: none"> ▪ In the recent decades France has deindustrialized and needs to reverse the trend for large-scale Industrie 4.0 solutions </div> </div>
Key Stakeholder	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <ul style="list-style-type: none"> ▪ Ministry of Economy, Industry and IT ▪ Agence Nationale de la recherche ▪ Pôle de compétitivité EMC2 – Industrial cluster in the government’s cluster strategy 2013-2018 dedicated to advanced manufacturing technologies including innovation platforms for digital manufacturing, Smart Factory and robotics. </div> <div style="width: 48%;"> <ul style="list-style-type: none"> ▪ Dassault Systèmes – PLM System provider ▪ Orange – Telecommunications network provider ▪ Réseau des instituts Carnot – Network of applied research institutes, including the CETIM institute focusing on manufacturing and software systems for manufacturing management. </div> </div>
Key Approaches	<p>La nouvelle France industrielle Plan launched by the French government in 2013 and carried by the ▶<i>Ministry of Economy</i> including a road map for the industrial renewal of the country. It consists of 34 priorities devised by sectors and is based on collaboration of industry leaders to develop the growing potential in each field. The project entered its second phase aiming to concretize the efforts and starting to finance some pilot projects.</p> <p>Industrie du future Along with other programs aimed at a comprehensive digital industrial economy including not only production, but also smart cities, internet of things and business model aspects, Industrie du future serves as the production-focused implementation program to ▶<i>La nouvelle France industrielle</i>. Alliance for implementation also comprises of major companies, including ▶<i>Dassault Systèmes</i>.</p> <p>SAAS Academy Part of ▶<i>La nouvelle France industrielle</i> aiming to accompany the industry in its transformation toward the use of cloud computing and software-as-a-service concepts.</p> <p>Internet of Things by Orange Platform offered by ▶<i>Orange</i> to support developers of IoT solutions to commercialize and market their products.</p>