



Federal Ministry
for Economic Affairs
and Energy

German Policy on „Industrie 4.0“ – The Digital Transformation of Manufacturing Industry in Germany

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Industrie 4.0

- Digitization: exceptional and fundamental change in many ways
- Term „Industrie 4.0“ coined in Germany
- Transformation rather than disruption

Digital Strategy 2025

Published in April 2017 (Federal Ministry for Economic Affairs and Energy)

Focus:

- I. Growth and Employment
- II. Regulatory framework
- III. Strengthen trust and security

Concepts of Digitization

Platform related business models (US)

and/or

Focus on industrial sector/engineering skills

Regulatory framework

European Digital Single Market vs. Fragmentation

Intermediaries and platforms – regulation?
Greenpaper/Whitepaper-Process

Free flow of data – data ownership, data protection,
use of data

Digital Infrastructure

By 2018 at least 50 Mbit per second for everyone in Germany

Upgrade into a gigabit optical fibre network by 2025

Favorable regulatory environment for privat investment

Investment funds to support nationwide coverage

„Plattform Industrie 4.0“

- Multistakeholder approach
- Highly committed experts
- Five working groups: standardization, research and innovation, security in networked systems, regulatory framework, jobs and skills management
- Recommendations and practical guidelines

Standardization

- Referenzarchitecture Industrie 4.0 (RAMI 4.0) developed as key basis for discussions within international standardization bodies
- New institutional setup for actively shaping and quickly driving forward standards on an international level:

Working Group Standardization Plattform Industrie 4.0

Standardization Council 4.0

Labs Network Initiative

International Cooperation Objectives

Exchange best practices

Harmonize reference architectures and standards,
interoperability

Test facilities for mutual use

Market access

International Cooperation Industrie 4.0

Industrial Internet Consortium

China

France

Japan

EU (Conference 31st of January/1st of February 2017 in Essen)

G20 (Conference March 16th/17th, 2017, Berlin)

Skills

- IT-Summit with focus on „digital education“, November 16th/17th

Objectives/Measures, e. g.:

- Comprehensive multistakeholder approach
- Introduction of digital education to all phases of life
- Align the successful dual system of vocational training
- Best practices

Supporting SME's/Start ups - Examples

- SME 4.0 Centers of Excellence: information, events, demonstration and test facilities
- Plattform Industrie 4.0: online map with 250 use cases
- Guidelines
- Smart service world (solutions for platforms)
- Improving availability of venture capital for Startups
- German Digital Hub Initiative

**THANK YOU FOR YOUR
ATTENTION**