

Plattform Industrie 4.0

Digital Transformation
“Made in Germany”



Industrie 4.0

“Made in Germany”

Digitisation of the economy offers global opportunities

The rapid advance in the digitisation of the economy and society is transforming manufacturing and work. Industrie 4.0 solutions combine production methods with state-of-the-art information and communication technology. Using them enables new, digital value chain networks to develop. This leads established market structures to shift and shares of the global market to be redistributed. Industrie 4.0 offers enormous potential for innovation and business in Germany as products can be tailored to meet individual customer requirements – at low cost, in high quality, and in efficient production stages. German firms are therefore building up their range of innovative digital services and products in order to maintain their global competitive edge.

Plattform Industrie 4.0 is shaping the digital transformation

Coordinating the digital transformation of industry: this is the basic concept of Plattform Industrie 4.0 – one of the world’s largest Industrie 4.0 networks. The platform has set benchmarks, e.g. through its work towards creating a uniform framework for global standards. Its description of the Industrie 4.0 components and specification of the administration shell creates the conceptional basis for interoperability in digital production systems. Companies across Germany should be able to benefit from the platform’s expertise. Thanks to its high level of international cooperation, the platform has also become a sought-after partner and plays an important role in stimulating global discussion. It brings companies, associations, the academic community, trade unions and policymakers together so that all stakeholders can work to realise the three objectives set out in the following.

Developing visionary concepts and solutions to implement Industrie 4.0

Members of the Plattform Industrie 4.0 network of experts seek to act as conceptional leaders for all issues linked to Industrie 4.0. They look at findings from research and practice and use these to develop different ways to implement Industrie 4.0. The network has six **working groups** which focus on central challenges and develop recommendations for action, practical guidelines, discussion papers and solutions. They address topics from the fields of standardisation, technology and application scenarios, integrated systems security, legal frameworks, work, continuing vocational education and training, and digital business models.



Stimulating digitisation in industry through national and international cooperation

Plattform Industrie 4.0 has established itself as a leading global brand for the digitisation of industry. It has generated a large number of partnerships with national and international alliances. At national level, the platform maintains strategic digitalisation partnerships with initiatives such as the Learning Systems Platform and International Dataspace. Through cooperation at international level, Plattform Industrie 4.0 uses its globally unique pool of technical and specialist expertise to address transnational issues in the fields of standardisation, IT security and legal frameworks. It is engaged in cooperation with leading national initiatives in France, Italy, China, Japan, the US and in Europe. Plattform Industrie 4.0 also initiates and leads discussion on the digital transformation of industry in the context of the G7/G20.

Supporting SMEs in turning ideas into practice

Plattform Industrie 4.0 provides and coordinates information and networking services which make Industrie 4.0 solutions known to companies nationwide, especially to small and medium-sized enterprises (SMEs). In this way, it supports the roll-out of Industrie 4.0 throughout the whole country. The platform's **online map** presents more than 350 examples of where Industrie 4.0 innovations are already in use, as well as an overview of where test centres are located. In addition, the **Industrie 4.0 Compass** provides an overview of support services that are available for companies nationwide. It helps company managers find the right services to support them as they take their next step in implementing Industrie 4.0 solutions. The **Industrie 4.0 transfer network** set up by the Economic Affairs and Research Ministries networks



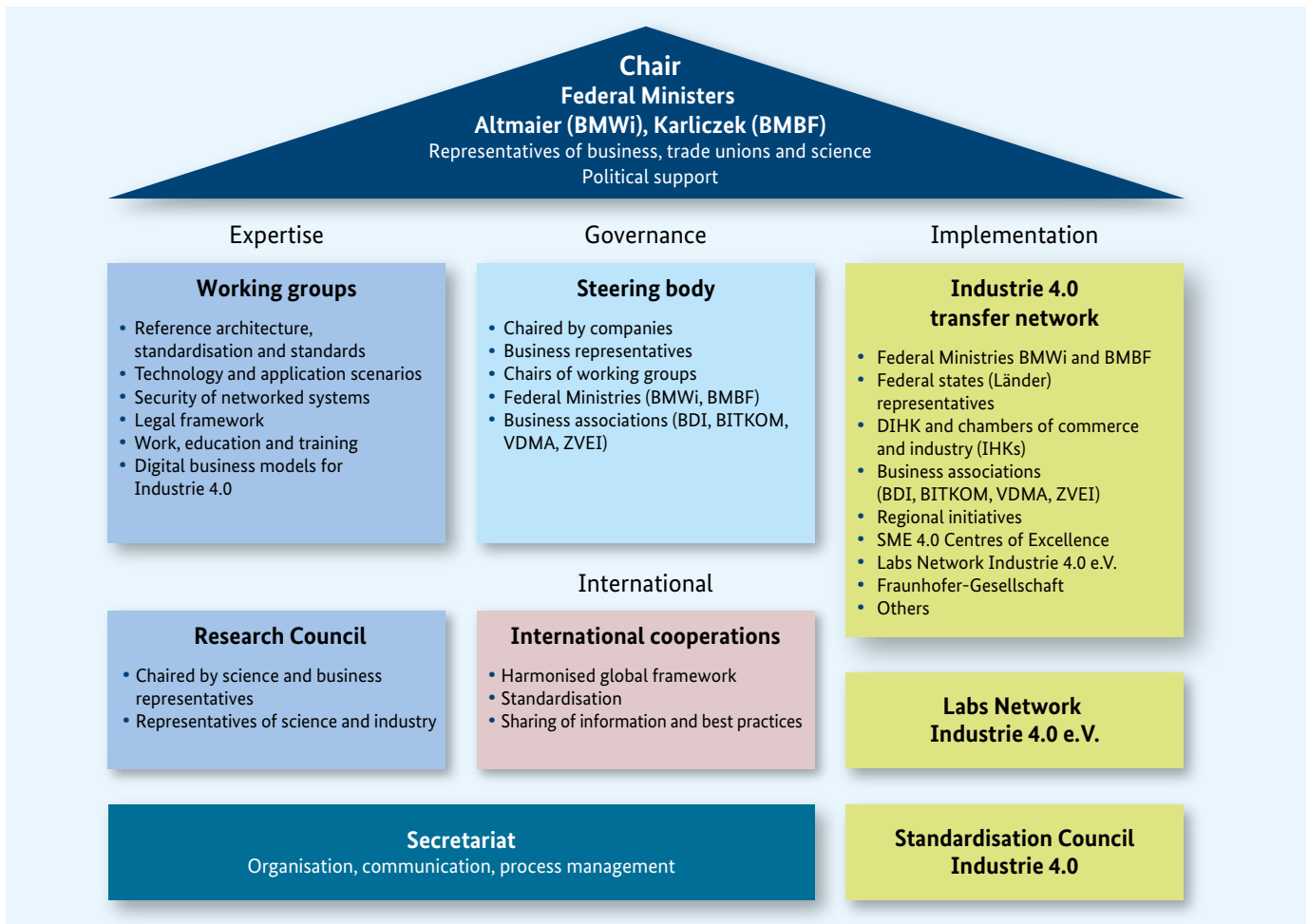
together regional and national services in order to leverage synergies.

The platform works with the chambers of industry and commerce and the electrical engineering, manufacturing and computer business associations (ZVEI, VDMA, Bitkom) to keep SMEs well-informed. This includes a series of events organised by the chambers of industry and commerce and experts from the platform, titled **Industrie 4.0@Mittelstand**, which is used to present the platform's findings and examples of good practice. The broad range of support services offered by the platform and the fact these are informed by many different perspectives makes its work globally unique.

www.plattform-i40.de



Working structure of Plattform Industrie 4.0



The platform brings together more than 350 stakeholders from over 150 organisations. It is headed by the Federal Ministry for Economic Affairs and Energy and the Federal Ministry of Education and Research, which work with high-level representatives from industry, science and the trade unions to address strategic and political

issues around the topics of the digital transformation. The steering body of high-ranking business representatives coordinates and steers all the specialist technical work undertaken by the platform and provides input for international cooperation.

Contacting Plattform Industrie 4.0

Plattform Industrie 4.0 secretariat

Bertolt-Brecht-Platz 3

10117 Berlin

Phone: 0049 30 2759 5066-50

Fax: 0049 30 2759 5066-59

E-mail: geschaeftsstelle@plattform-i40.de

You can find detailed information about
Plattform Industrie 4.0 at
www.plattform-i40.de

Imprint

Publisher

Federal Ministry for Economic
Affairs and Energy
Public Relations Division
11019 Berlin
www.bmwi.de

Status

October 2019

Printed by

MKL Druck GmbH & Co. KG,
Ostbevern

Design

PRpetuum GmbH, Munich

Images

Daniel Ingold – Corbis (title)
metamorworks – iStock (p. 2)
Reitz – Plattform Industrie 4.0 (p. 5)

