

**TWENTY-SECOND SESSION OF THE COMMISSION ON SCIENCE AND
TECHNOLOGY FOR DEVELOPMENT (CSTD)**

Geneva, Switzerland

13-17 May 2019

Submitted by

Germany

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Hightech-Strategie 2025

The High-Tech Strategy (HTS) 2025 of the German Federal Government is now being developed further, as a comprehensive, interdepartmental innovation strategy. To that end, new topics and new instruments for funding innovation are added. Emphasis is put on an expanded concept of innovation that includes not only technological innovation but also social innovation – with society as a central player.

Six priority tasks:

1. The digital economy and society
2. The sustainable economy and energy
3. The innovative working environment
4. Healthy living
5. Intelligent mobility
6. Civil security

The goal is for good ideas to be translated quickly into innovative products and services. This is because innovative solutions are the factors that drive our prosperity and support our quality of life. They strengthen Germany's position as a leading industrial and exporting nation.

Further information:

Hightech-Strategie 2025

https://www.bmbf.de/upload_filestore/pub/Forschung_und_Innovation_fuer_die_Menschen.pdf
[in German]

Weitere Informationen

<https://www.hightech-strategie.de/> [in German]

Strategy “AI made in Germany”

The German Federal Government will take on the task of providing a policy response to the rapid advances in the field of Artificial Intelligence (AI) and will make comprehensive use of the innovations triggered by the technology for the benefit of society at large. It wants to safeguard Germany's outstanding position as a research centre, to build up the competitiveness of German industry, and to promote the many ways to use AI in all parts of society in order to achieve tangible progress in society in the interest of its citizens. Focus lies on the benefits for people and the environment, and on an intensive dialogue with all sections of society.

Further information:

“AI made in Germany”

https://www.ki-strategie-deutschland.de/home.html?file=files/downloads/Nationale_KI-Strategie_engl.pdf

Further information

<https://www.ki-strategie-deutschland.de/home.html> [German]

Science Year 2019

Artificial intelligence is also the theme of Science Year 2019. It involves the participation of organizations, educational establishments, higher education institutions and businesses and their collective research competence. Film screenings, panel discussions, join-in campaigns and many other events are directing attention to issues which matter to all of us: How does artificial intelligence work? How will we manage cooperation between humans and machines in the future? What ethical issues will have to be considered? What impact will AI have on how we interact as a society? How do I acquire the training I need for the digital working world of the future? The Science Years are a joint initiative of the Federal Ministry of Education and Research (BMBF) and Wissenschaft im Dialog (Science in Dialogue, WiD). The aim of the Science Years is to promote discussion and interaction between the public and research.

Further information:

https://www.wissenschaftsjahr.de/2019/fileadmin/user_upload/Wissenschaftsjahr_2019/Downloads/WJ2019_Basi_sflyer_De_Eng_DiNLang_6Seiter_barrRZ.pdf

<https://www.wissenschaftsjahr.de/2019/english/>

Background information:

Press release: 017/2019, 12.03.2019

German Federal Government initiates founding commission to build agency for breakthrough innovations [...] The new SprinD agency aims to launch innovations with radically new technologies that have a high potential for a market-changing impact on new products, services and value chains.

<https://www.bmbf.de/de/bundesregierungsetzt-gruendungskommission-fuer-die-agentur-fuer-sprunginnovationen-ein-8098.html> [German]

“Game changer technologies: Lightweighting is a driver for innovation and resource efficiency

In order to achieve the goals of a sustainable development technological advances and innovations are required that act as drivers for innovation and resource efficiency. Key drivers here are game changer technologies that focus on increasing growth and competitiveness as well as securing climate protection and sustainability. One of these game changers is the key technology “lightweighting”. Lightweight construction stands for innovation, resource efficiency and climate protection: By reducing the weight and functional integration of products, components and system elements, we can save energy and raw materials by reducing emissions at the same time. As a result,

lightweight construction is of increasing relevance and an important driver of energy and resource efficiency and helps us to achieve our climate goals. In addition, lightweight construction helps to sustainably modernize the industry. As a key technology, lightweight construction plays a vital role in the development of resource-efficient and energyefficient solutions in many industrial sectors, such as aerospace, automotive and transportation, but also in mechanical and plant engineering, construction and, increasingly, the leisure industry. Lightweight construction is to be understood as cross-sectional technology, i.e. it combines different materials, construction methods, production techniques and industries. It is therefore a cross-sectional technology that must always take into account life-cycle concepts in the sense of a broad Life Cycle Assessment. BMWi has successfully launched and established the lightweight construction initiative. The initiative includes a coordination office, which acts as a national and international network hub and broadcasts the topic of lightweight construction, an advisory board of different material representatives, a strategy group of the country's lightweight construction organizations as well as a "Round Table" for the lightweight community. In addition, BMWi has developed the interactive tool "LEICHTBAUATLAS", which serves as a platform for players in the market to present their lightweighting technologies."