

Future Mobility

Intermodal transportation concepts

Target group:

- ▶ Engineers
- ▶ Policymakers
- ▶ Industrial and environmental associations
- ▶ Transportation companies
- ▶ Logistics companies

Brief description:

1st Edition

As we move toward the transportation revolution, new mobility concepts are receiving more and more attention from the public. In this regard, integrating all groups and levels of society into the emerging change processes is vital. Accordingly, this compendium combines a diverse range of perspectives and interests to provide an overview of the challenges facing a future-ready mobility, with particular emphasis on road transportation. Gathering 38 papers by more than 50 authors from the political community, business and administrative sectors, research institutes and professional associations, it offers essential orientation and makes this complex topic far more accessible. The contributing authors have successfully discussed the difficult questions at hand in a way that will not only benefit experts in their field, but also interested members of the public. In light of global climate change and the need to reduce transportation-related emissions, many of the contributions make it clear that the discussed measures for reducing strains on the environment can only be meaningfully implemented with the support of society as a whole. In this regard, a well-founded and target-oriented source of facts can help to push forward these proposals and initiatives, so as to foster a successful and sustainable mobility strategy.

Publisher:

Wolfgang Siebenpfeiffer: Automotive engineering training with the Bundeswehr; journalistic internship; Business Sciences studies in Stuttgart; Theology studies in Bonn and Oxford; Publishing House Manager, Editorial Manager and for many years, Editor-in-Chief of the respected journals ATZ and MTZ at Springer Vieweg.

Includes contributions by 50 experts from the transportation sector.

Topics:

- ▶ Future prospects for mobility
- ▶ Environmental and transportation-policy framework conditions and their implications for a future-ready mobility
- ▶ Electromobility - driving the mobility revolution
- ▶ Commercial vehicles - sustainable and economical
- ▶ Automated and connected driving

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Major topics - Authors and their papers

Future prospects for mobility

Prof. Peter Gutzmer, Schaeffler AG

Mobility for tomorrow - necessary, challenging, feasible

Dr. Wolfgang Bernhart, Roland Berger GmbH

"M.A.D.E." - Trends and implications - Germany in international comparison

Maria Krautzberger, German Environment Agency (Umweltbundesamt)

The future of urban mobility

Dr. August Markl, ADAC

Fascination mobility - status quo and outlook

Prof. Ulrich Seiffert

The future of mobility

Wolfgang Maus

**Mobility plus energy equals prosperity -
from the past to the future, on the basis of physics**

Dietmar Bichler, Bertrandt AG

"People have to be able to trust in the systems"

Ingo Wortmann, Association of German Transport Companies (VDV) and
Münchener Verkehrsgesellschaft mbH (MVG)

Mobile Germany 2030 - time for new ideas and concrete action

Eberhard Buhl

Urban mobility in transformation

Dr. Ulrich W. Schiefer, AtTrack GmbH

The German automobile - yesterday, today and tomorrow

Dr. Silke Borgstedt, SINUS Markt- und Sozialforschung

**Are we keeping up with the new, diverse mobility?
Taking stock of the status quo in German society**

Prof. Johann Tomforde, Teamobility GmbH

**Auto-mobility of tomorrow - from early, visionary concepts to
structural transformation in the 2020s**

Environmental and transportation-policy framework conditions and their implications for a future-ready mobility

Winfried Hermann, Member of State Parliament, Minister of Transport, Federal State of Baden-Württemberg

A climate protection scenario for the transportation sector in Baden-Württemberg

Prof. Helmut Tschöke, Otto von Guericke University Magdeburg

From emissions to immissions

Prof. Volkher Weißermel

Primary energy demand and sustainability potential of transportation re: achieving the climate protection targets for 2030/2050

Bernhard Mattes, VDA

The automotive industry in a transformation process: the road to “Zero Emission” and “Vision Zero”

Ulrich Syberg, ADFC

The Hidden Champion - or how bicycle transportation will evolve from niche topic to critical problem-solver

Dr. Weert Canzler and Prof. Andreas Knie, WZB

Digitalization is changing everything: mobility after the private vehicle

Prof. Oliver Schwedes and Alexander Jammert, TU Berlin

Modern transportation policy

Ruth Blanck, Florian Hacker, Peter Kasten, Dr. Manuela Schönau and Dr. Wiebke Zimmer, Öko-Institut e.V.

Sustainably shaping the future of mobility

Dorothee Saar and Ann-Kathrin Marggraf, Environmental Action Germany (DUH)

Climate protection is impossible without a transportation revolution - the political community and automotive industry have to change course

Dr. Carl-Friedrich Elmer and Prof. Claudia Kemfert, Agora Verkehrswende and Deutsches Institut für Wirtschaftsforschung

A bonus-and-penalty system as catalyst for modernizing the vehicles on our roads

Electromobility - driving the mobility revolution

Dr. Michael Steiner, Porsche AG

Consistent orientation on future mobility

Anika Regent, Prof. Ulrich Wagner, Prof. Wolfgang Mauch and
Jane Bangoj

Environmental impacts of electric vehicles: potential of the circular economy

Olaf Kieser, Stadtwerke Stuttgart

Stuttgart changes gears - the car capital's municipal utilities are banking on a combination of renewable energy and electromobility

Prof. Ferdinand Dudenhöffer and Moritz Luhn, University of Duisburg-Essen

Extending the range of fully-electric vehicles

Prof. Markus Lienkamp, TU Munich

The Robotaxi - a critical assessment

Lara Biekowski and David J. Engel, PEM Motion (PEM Aachen GmbH)

Mobility 2.0: electric, clean and intelligent

Peter Renz, ElringKlinger AG

Batteries and fuel cells - competitors or a sensible combination?

Prof. Christian Mohr dieck, Mercedes-Benz Fuel Cell GmbH

Hydrogen and fuel cells for cross-sector mobility

Athos Giannelli and D. Hilke

The car dealership of tomorrow

Commercial vehicles - sustainable and economical

Andreas Renschler, Traton SE

The future of commercial vehicles: the balancing act between sustainability and economy

Hella Abidi, Stefan Hohn and Christian Weber, Dachser SE

Dachser Emission-Free Delivery: sustainable urban logistics for Stuttgart's inner city

Prof. Stefan Pischinger, Dr. Michael Wittler and
Philipp Wienen, FEV Group GmbH and FEV Consulting GmbH

How heavy-duty trucks could mitigate climate change impacts in future mobility

Prof. Christian Breyer, LUT University, Lappeenranta, Finland

European energy system based on 100% renewable energy - transport sector

Automated and connected driving

Dr. Michael Krail and Dr. Klaus Doll, Fraunhofer Institute for Systems
and Innovation Research (ISI), Karlsruhe

**Traffic-related and ecological effects of automated and
connected driving**

Prof. Gernot Spiegelberg, TU Munich

**Autonomous driving as a key technology for Mobility as a Service -
opportunities and risks in the value creation process for future mobility**

Stefan Kölbl, DEKRA e.V. and DEKRA SE

**The power of data: a Trust Center Offensive for more digital security
in mobility**