Mobility and Urban Systems Engineering

Research areas of our business unit

- Urban Innovation & Governance
- Technology Management
- Urban Logistics
- Smart District
- Value-chain-system
- Data Mining
- Energy & Charging infrastructure
- Mobility Concepts
- Prototyping
- Fleets
- User behavior/Transformation
- Business models
**Mobility topics**

Our projects affect the four main aspects of future motorized individual mobility:

- **Connected services**
- **Autonomous driving**
- **Mobility services**
- **E-Mobility**

**Innovation Network FutureCar**

8 years – 40 workshop days – more than 200 presentations – many more new ideas!
FutureCar

Joint research on trends and future aspects of the automotive industry
The Innovation Network »FutureCar«

...is a special project that focuses on the trends of the automobile industry
The Innovation Network «FutureCar»

...is a special project that focuses on the trends of the automobile industry.

<table>
<thead>
<tr>
<th>Disruption in the automotive world</th>
<th>Innovation Network FutureCar</th>
<th>Benefit for the members</th>
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<tr>
<td>In the following years, increasing electrification, automation and networking in automobiles will be the most significant change drivers in the automotive industry. New product solutions, business models and (service) offers will arise from the incremental integration of the IT and automotive branches.</td>
<td>FutureCar is organized as a joint project and financed by a fix group of members over a two-year project time span. Two-day network meetings take place three times a year, where presentations, guided tours at R&amp;D facilities and workshops are held.</td>
<td>Knowledge lead regarding challenging innovation topics from the automotive industry</td>
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<td><strong>Knowledge lead</strong> regarding challenging innovation topics from the automotive industry</td>
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<td><strong>Exchange and networking</strong> with stakeholders from the industry and scientific community</td>
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<td><strong>Participation in funding programs</strong></td>
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**Topic definition**

**Transfer**
The Innovation Network »FutureCar«

...consists of members out of industry and science who discuss special topics with guest experts

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<tr>
<th>Permanent members</th>
<th>Guest experts in network meetings</th>
<th>Guided tours at industrial facilities</th>
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<tr>
<td>Organization and content development by Fraunhofer</td>
<td>Topic-specific presentations from scientific and political institutions</td>
<td>Visits at laboratories and research institutions</td>
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<tr>
<td>Joint financing through several industry partners</td>
<td>Topic-specific presentations by guest experts from the industry</td>
<td>Visits at production facilities and research centers</td>
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Science and public sector

Industry
Members of »FutureCar«

FutureCar consists of permanent members and experts as guests regarding to specific topic.

**Fraunhofer-Instituts**
- Fraunhofer Researchers provide their knowledge through presentations

**Industry members**
- The network is financed by the permanent Industry members

**Guest speakers**
- Guest speakers are invited according to the topic of a meeting

**OEMs**
- Engineering partners

**Tier 1 Suppliers**
- Automotive consultancies

(Due to confidentiality no partners named)
## Services and partner benefits in »FutureCar«

Collaboration, first hand technology scouting, and conjoint R&D funding

- **Technology scouting and research on new technologies and fields of use in order to identify new products and additions to existing product portfolios**
  Benefit through methododical research and competencies of Fraunhofer Society (e.g. technology identification, white-spot-analysis, semantic information screening)

- **Network as »space for collaborations« including workshops and if applicable MVP conceptions**
  Benefit through grouping of competencies and collaborative learning and technological understanding in order to build IP-entrance barriers

- **Support in the finding of funding programs and initiation of funded R&D projects**
  Benefit through Fraunhofer competencies in funding applications and screening of funding possibilities

- **Industry and value creation analysis in order to identify momentums and drivers for changes in value chains and added value processes**
  Benefit through Fraunhofer competencies in modelling and simulation of value chain structures

- **Broad overview of all Fraunhofer Institutes with their specific competencies, connections to worldwide research partners and supply of contacts and door-openers**
  Benefit through internal data warehouses and access to further information services

- **Networking and approaching of relevant stakeholders and identification of possible and useful partnerships**
  Benefit through excellency in networking of all Fraunhofer Institutes in worldwide research and innovation landscape

- **Support in automotive technology management and internal understanding of innovations**
  Benefit through one-on-one meetings with Fraunhofer IAO experts on specific technology management issues
Structure of FutureCar V – The upcoming phase

All three technological drivers of future cars should be discussed at each network meeting.

External Momentum
- Cooperations & Networks

Technological Change
- E-Mobility
- Connected Cars
- Autonomous Driving

Internal Momentum
- Development Processes
- Flexible Production
- Digital Transformation

Sustainability

Customer Experience
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