

# MERGEurope: Lightweight Innovation Network

## About this organisation

### Machine translation

This profile has been machine-translated based on data provided in German.

The BMBF-funded internationalisation concept MERGEurope of the Federal Cluster of Excellence MERGE links the strongest European lightweight construction regions with each other in order to ensure globally competitive and sustainable international cooperation in the field of the key technology of lightweight construction.

The goal of significantly reducing CO2 emissions through resource-efficient production and utilisation of lightweight structures in mobile applications pursued as part of the MERGE strategy exceeds the capabilities of regional innovation and value chains. This global challenge and, at the same time, worldwide innovation opportunity is therefore being tackled in a division of labour with international partners in order to generate new scientific and technical solutions and sustainable improvements in competitiveness in the forward-looking technology field of material and energy efficiency. Through international co-operation, complementary fields of application are opened up for the development of new technologies, their implementation on the market is promoted and thus new future-oriented value chains are established. Due to lightweight construction as a driver of technological innovation, there are numerous opportunities for co-operation.

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### Organisation type

Cluster

### Sectors



### Employees

Up to 9

### Turnover

n/a

### Funding

n/a

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## About this organisation

**Main areas covered** Internationalisation strategy, International co-operation projects, Exchange of knowledge and information, Utilisation of synergy potential, New market development

**Infrastructure**

**Certifications**

**Keywords** Network, Europe, Internationalisation concept, Lightweight regions, international exchange, Fields of innovation, synergies

**Memberships**

## Overview of lightweighting expertise

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**Research   Development   Manufacturing & Supply**

#### Offer

*Products*

*Services & consulting*

#### Field of technology

*Design & layout*

*Functional integration*

*Measuring and testing technology*

*Modelling and simulation*

*Plant construction & factory automation*

*Recycling technologies*

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## Overview of lightweighting expertise

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Research   Development   **Manufacturing  
& Supply**

#### Manufacturing process

*Additive manufacturing*

*Coating (surface engineering)*

*Fibre composite technology*

*Forming*

*Joining*

*Material property alteration*

*Primary forming*

*Processing and separating*

*Textile technology*

#### Material

*Biogenic materials*

*Cellular materials (foam materials)*

*Composites*

*Fibres*

*Functional materials*

*Metals*

*Plastics*

*Structural ceramics*

*(Technical) textiles*

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## Contacts

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