

About this organisation

Machine translation

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

The Institute for Sustainability in Construction at RWTH Aachen University is concerned with the assessment and research of sustainability in its three dimensions (environmental, economic and social). In particular, we work and conduct research in the areas of life cycle-based sustainability assessment (with the methodologies of life cycle assessment, life cycle costing and social accounting), sustainable finance, etc.

INaB has special expertise in the field of lightweight construction. As part of the SFB TRR 280 (DFG), we are working on the holistic, life cycle-based sustainability assessment (LCSA) of carbon concrete as a disruptive innovation in the construction industry. In addition, INaB is supporting the development of a recyclable multi-material design for lightweight structures in the MM4R project (BMWK). The technology development is supplemented by an LCSA in order to integrate ecological, economic and social aspects as early as the development phase. The MM4R project is the first to provide holistic balancing techniques specifically for the FuPro construction method and its production technologies. INaB also has experience in the areas of steel production, infrastructure (road and hydraulic engineering), buildings, certification and sustainable finance.

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Germany
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Organisation type

University or higher education institution

Sectors

No specific sector

Employees

10 up to 49

Turnover

n/a

Funding

About this organisation

Main areas covered	Sustainability assessment
Infrastructure	Sustainability assessment
Certifications	
Keywords	Sustainability assessment, Sustainability research
Memberships	DGNB

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Consulting	✓		
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
Measuring and testing technology System analysis, Materials analysis	✓		
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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