

About this organisation

Machine translation

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

With over 8,000 employees and annual sales of around 900 million euros, adesso is one of Germany's largest IT service providers. adesso advises its customers on optimising their core business processes. In addition, adesso develops its own industry-specific product offerings and software solutions. adesso participates in publicly funded research projects in various constellations.

About DigiPEP: Digital product development process for the design of TFP preforms. Digital platform and AI sub-project Mobility must be sustainable in the future. This is why ever lighter and resource-saving materials are being developed. Tailored textiles (TT) are a form of fibre-reinforced composite material. One of the most promising processes for producing TT is Tailored Fibre Placement (TFP), a variant of technical embroidery. The aim of the research project is to establish TFP technology. To this end, a system model is being developed to make the development of TFP components and the transfer of information between the various players more efficient. adesso is developing a data platform in the automotive sector that enables the exchange of various data formats across the process steps. In addition, artificial intelligence is used to digitally map the transformation of a 2D textile into a 3D component.

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Germany
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Organisation type

Large enterprises

Sector



Others: IT-
Dienstleistungsunternehmen /
Softwareentwicklung

Employees

500 and more

Turnover

More than €50m

Funding

About this organisation

Main areas covered IT service provider / software

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Training, Consulting, Testing and trials, Funding, Prototyping, Validation, Simulation, Technology transfer, Maintenance and repair	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
<i>Design & layout</i>			
Functional integration Actuator technology, Sensor technology	✓	✓	
Measuring and testing technology Component and part analysis, System analysis, Environmental simulation, Non-destructive analysis	✓	✓	
Modelling and simulation Optimisation, Processes, Reliability validation	✓	✓	
Plant construction & automation Automation technology, Robotics	✓	✓	✓
<i>Recycling technologies</i>			
Manufacturing process			
Additive manufacturing 3D printing	✓	✓	
<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>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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