We Connect, Support and Advise Bavarian Companies
and act as an organisation and contact point for many Bavarian initiatives

**Health**
Department Forum MedTech Pharma e.V.
(Europe’s largest network in the healthcare sector),
ZD.B digital health

**Mobility**
Automotive Cluster,
Electromobility Competence Centre,
ZD.B connected mobility

**Material & Production**
New Materials Cluster, NiM bayern,
Additive Manufacturing Coordinating Body,
Textile Innovation Network

**Energy**
Energy Technology Cluster,
ZD.B digitalisation in the energy sector

**Digitalisation**
ZD.B Centre for Digitalisation Bavaria
(11 business-focused topic platforms)

**Funding Advice**
Funding advice and project sponsorship, point of contact and hotline for the Bavarian Research and Innovation Agency

**Funding Guides**
Patent Centre Bavaria

**Technology and Innovation Management**
Technology and innovation management, digital innovation platform

**Technology and Innovation Marketing**
Technology and innovation marketing, joint Bavaria stands at trade fairs, Enterprise Europe Network

**Cultural and Creative Industries**
bayernkreativ – Bavarian Centre for Cultural and Creative Industries
From Material to Innovation – Cluster New Materials

Material  ➔  Process  ➔  Innovation

21.07.2021
Cluster New Materials - TOPICS

- Polymer properties and processing
- Materials for large-area processable electronics
- Metallic lightweight materials
- Technical ceramics and glass
- Functionalized surfaces
- Fiber Composites

KEY TOPICS
- Digital Material - Digitization of material development
- Additive Manufacturing
- Sustainability - Resource efficiency/Circular & Bio economy
- Lightweight construction/Multimaterial design
Cluster New Materials - Cooperatively from Idea to Innovation

<table>
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<tr>
<th>Networking</th>
<th>We interlink Industry and Academia.</th>
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<tbody>
<tr>
<td>Knowledge-transfer</td>
<td>We provide information, illumine value chains and their modes of action.</td>
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<tr>
<td>Strategy</td>
<td>We identify cooperatively trends und technologies. We structure with the help of expertise and experts. We visualise in radars und roadmaps.</td>
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<tr>
<td>Project-support</td>
<td>We bring qualified partners together – and create added value for the entire Materials sector.</td>
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</table>
Cluster-Partner
Project Management
Cluster Manager
HYDRESS
Development of new concepts for hydromechatronic units to increase resource efficiency

Key Facts:
• Goal: Development of an energy- and resource-efficient pump in multi-material design
• Project term: 01 Jan 2018 – 15 Mar 2021
• Project volume: € 2 million

• Project partners:

• Project management:
## HYDRESS project
what has been created?

<table>
<thead>
<tr>
<th>Institution</th>
<th>Description</th>
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<tr>
<td>CirComp GmbH</td>
<td>Development of a CFRP split tube with novel coating technology</td>
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<tr>
<td>Schliessmeyer GmbH</td>
<td>Gaining experience in the field of injection molding of highly filled, magnetic plastics</td>
</tr>
<tr>
<td>Friedrich-Alexander University Erlangen-Nürnberg</td>
<td>Development and verification of new process technologies for highly filled, magnetic plastics</td>
</tr>
<tr>
<td>University of Applied Sciences Kaiserslautern</td>
<td>Novel electric motor concepts for use in the pump sector</td>
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HYDRESS project
innovations with sustainable added value
Team Cluster Neue Werkstoffe

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Vielen Dank!
Thank you for your attention!