

ENGINEERING

Network

Research & Development

Training & Counselling

Testing & Analysing

Joint projects

Research in Luedenscheid

Presentation of Kunststoff-Institut Luedenscheid & Non-profit KIMW Research Company

IraSME & CORNET Partnering Event Aachen, 26.11.2018

Data and Facts



- The Kunststoff-Institut supports you concerning
 - Selection
 - Development
 - Optimization and Implementation

of products, moulds and processes in the field of plastic processing

- The institute finances itself exclusively by services in the form of consultations, network projects and development projects
- Objective of the Research Centre:
 - Realization of precompetitive R&D projects
 - Scientific contact centre for SMEs
 - Development of future and demand oriented technologies
- ➤ The Institute and the Research Centre are supported by an association of shareholders of currently 350 companies

Fast, competent solutions for the plastics industry

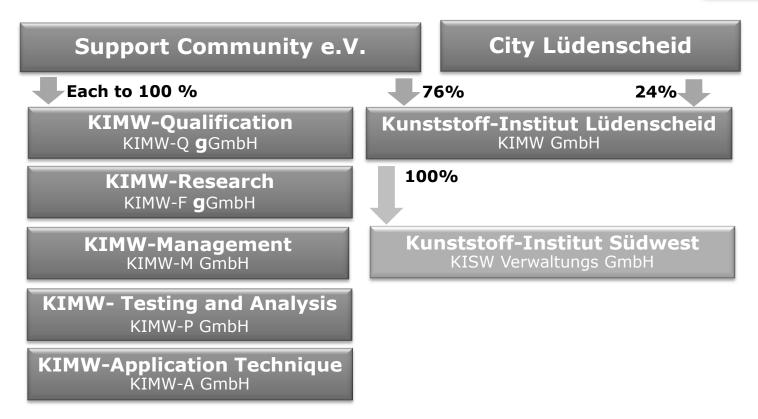


Competences of the Kunststoff-Institut in Luedenscheid, Germany



Societies / Shareholdings





Future focal points of the Kunststoff-Institut



- Education programs concentrating on professional retraining and further qualification
- Augmented Reality
- Surface technology for plastic parts and moulds (Galvanizing-exchange, reactive surfaces treatments of moulds, thin layer technologies, isolative/ant-corrosive surface layers)
- 3-D printing/generative procedures (Rapid manufacturing-Rapid Tooling)
- All kind of special process technologies with focal point in chemical/physical foaming in combination with variothermal processes
- Smart plastics (integrated or adjustable material properties)
- High performance plastics -thermoplastics and thermosets thermal conductivity, biocide properties, weight, scratch resistance,...

Data and facts of the KIMW-F



Non-profit KIMW Research company/ gemeinnuetzige KIMW Forschungs-GmbH (KIMW-F)

Founded: 01.07.2013

> Employees: 13

Location: Luedenscheid, Germany

KIMW-F is a non-profit research organization

KIMW-F is supported by an association of shareholders of currently 350 companies



Objective of the KIMW-F



- > The non-commercial objectives of the research company KIMW-F is supporting research and development within the domain of plastic technologies. The organization acts as a research and transfer centre.
- The main objectives of the KIMW-F are:
 - Realization of precompetitive R&D projects
 - Scientific contact centre for SMEs
 - Development of future and demand oriented technologies
 - Technology scouting
 - Education and training of scientific-technical employees, in particular for SME enterprises

Technology Roadmap KIMW-F



Field of Research

Surface and Coating Technologies

Definition:

Development of coatings and coating processes using **CVD**-technology, partially combined with PVD-technology

Economic process line vs. PVD

- Very high 3D conformity
- Gap and pores conformity
- · Open funding possibilities vs. PVD

Process Development and Mould Technologies

Definition:

New developments in the plastic manufacturing and mould technology

 Expanding core skills of "mould technology" in Germany and adaptation to associated and transfer to new processes

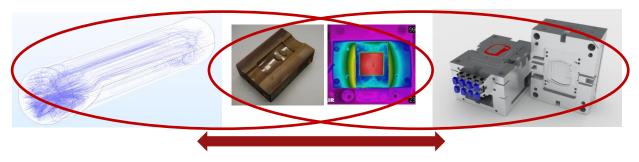
Technology Roadmap KIMW-F



Field of research

Surface and coating technologies

Process development and mould technologies



Strategic orientation of KIMW-F



> Research 4i - Research and development for the plastics industry

Integrated

Research and service from one source



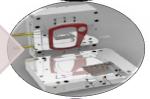
Interdisciplinary

Processes and products for the customer



Industry-oriented

Market-relevant innovations and highly implementable transfer of results



International

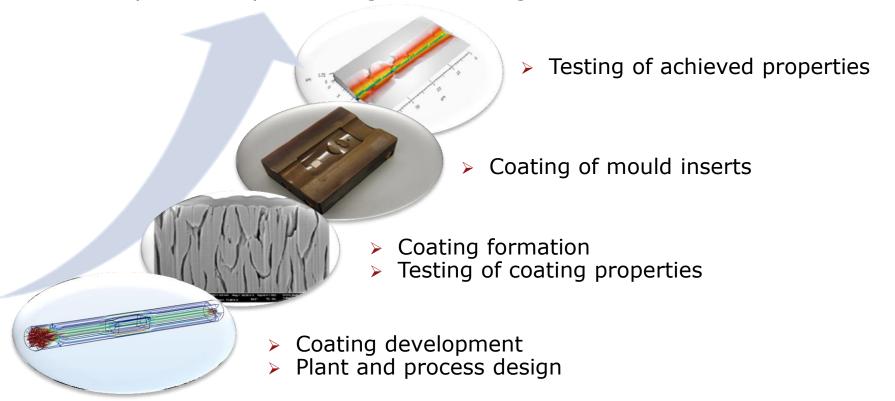
Networking for the knowledge of tomorrow



Research at KIMW-F

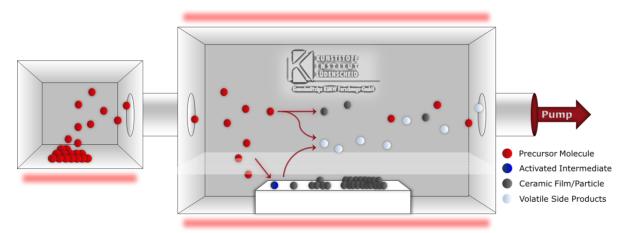


Development of processing and coating



CVD technology





Schematic sketch of the CVD process





CVD hot wall reactor at KIMW-F



ENGINEERING

Netzwerk

forschen & entwickelr

bilden & berater

Thank You for Your attention!ren

Verbundprojekte

Kunststoff-Institut Lüdenscheid Karolinenstr. 8 58507 Lüdenscheid www.kunststoff-institut.de Vanessa Frettlöh +49 (0) 23 51.67 99-911 frettloeh@kunststoff-institut.de gemeinnützige KIMW Forschungs-GmbH