

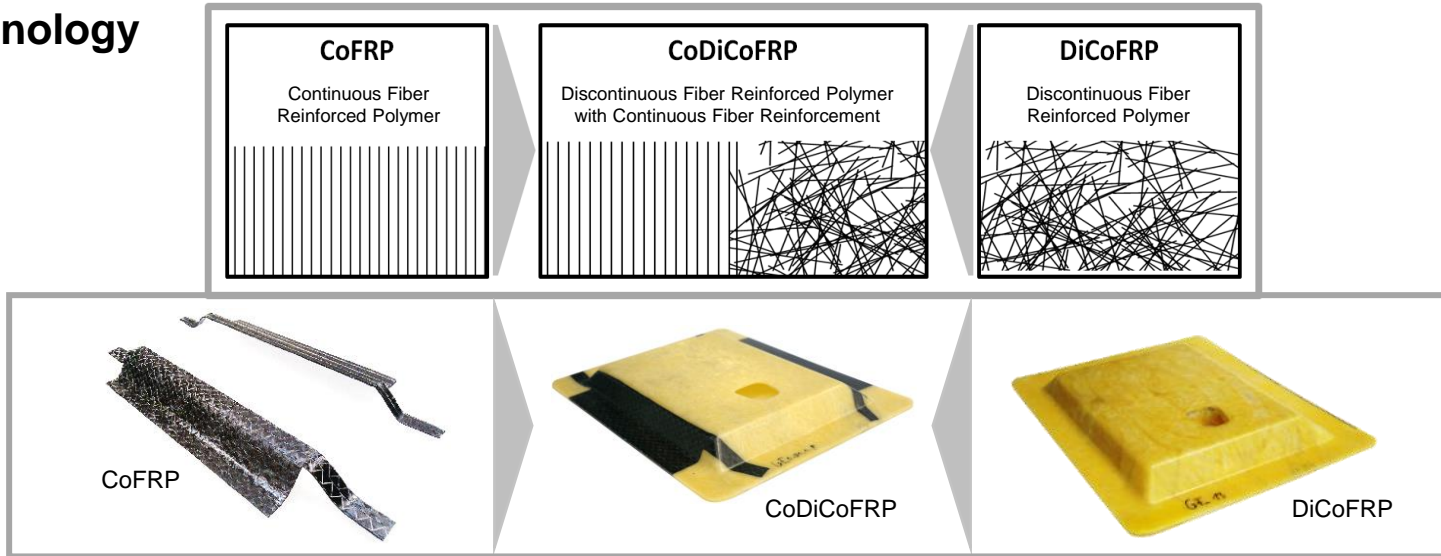
# IRTG 2078: Integrated Engineering of Continuous-Discontinuous Long Fiber Reinforced Polymer Structures

Prof. Dr.-Ing. Thomas Böhlke (Spokesperson IRTG 2078)



# Terminology, Core Idea, Challenges

## Terminology



- **Core idea:** Fully integrated engineering of CoDiCoFRP by combining the real process with the virtual one in an **integrated framework**
- **Challenges:** control of virtual and real process

# Research Team and Participating Institutions

- KIT team:** “Integrated engineering of CoDiCoFRP”

14 fully funded and 4 assoc. doctoral researchers, 1 PostDoc, 1 assoc. PostDoc, 14 PIs



- ICRC team:** “Advanced Polymer Composite Materials and Technologies”

15 PhDs and 7 Master students, 17 PIs



- Cooperation partners:**

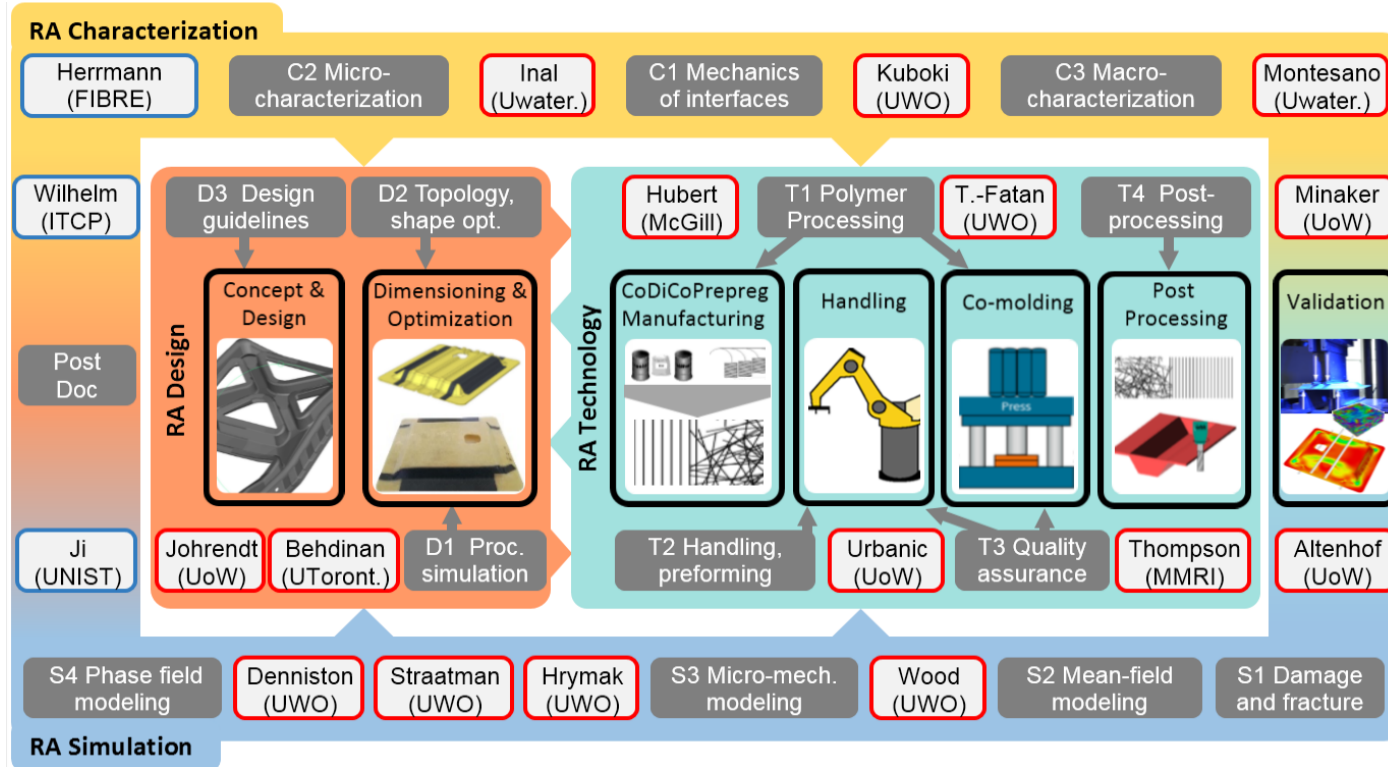


- Network:** Young Investigator Group “Green Mobility” (Leader: Dr.-Ing. Luise Kärgler)

- Numbers:** 04/15 – 09/19: 6 Mio€, 10/19 – 03/24: 7 Mio€, 04/21: start of 3rd PhD gen.

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# Integrated Engineering of CoDiCoFRP



# Highlights of Previous Research Work

## ■ IRTG book



Böhlke, T., Henning, F., Hrymak, A. N., Kärger, L., Weidenmann, K., Wood, J. T.:  
Continuous-discontinuous fiber-reinforced polymers. An integrated engineering approach.  
ISBN: 978-1-56990-692-7, Hanser Fachbuchverlag (2019)

**With chapters by:** Albert Albers, William Altenhof, Fabian Ballier, Thomas Böhlke, David Bücheler, Viktoriia Butenko, Colin Denniston, Peter Elsner, Benedikt Fengler, Jürgen Fleischer, Johannes Görthofer, Peter Gumbsch, Anton Helfrich, Frank Henning, Martin Hohberg, Jörg Hohe, Andrew Hrymak, Sergej Ilinzeer, Luise Kärger, Loredana Kehrer, Takashi Kuboki, Daniel Kupzik, Gisela Lanza, Jörg Lienhard, Nils Meyer, Britta Nestler, Tarkes Dora Pallicity, Chul B. Park, Pascal Pinter, Ali Rizvi, Marielouise Schäferling, Malte Schemmann, Daniel Schneider, Michael Schober, Ludwig Schöttl, Lukas Schulenberg, Volker Schulze, Felix K. Schwab, Thomas Seelig, Michael Thompson, Anna Trauth, Kay A. Weidenmann, Jeffrey T. Wood, Frederik Zanger

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