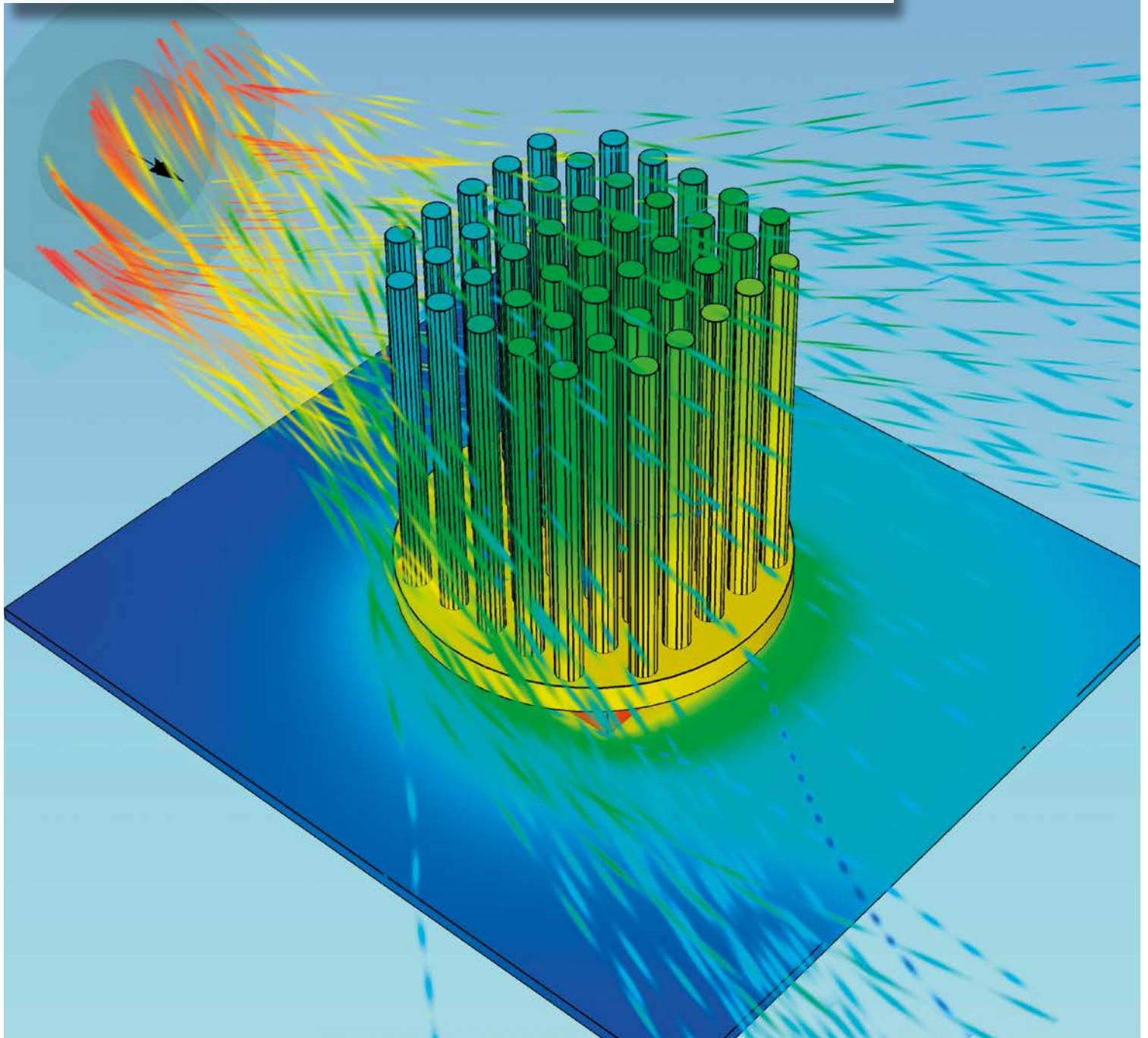


CFD SIMULATION THERMAL MANAGEMENT CONSULTING

THERMAL SIMULATION



CFD SIMULATION THERMAL MANAGEMENT CONSULTING

THERMAL SIMULATION

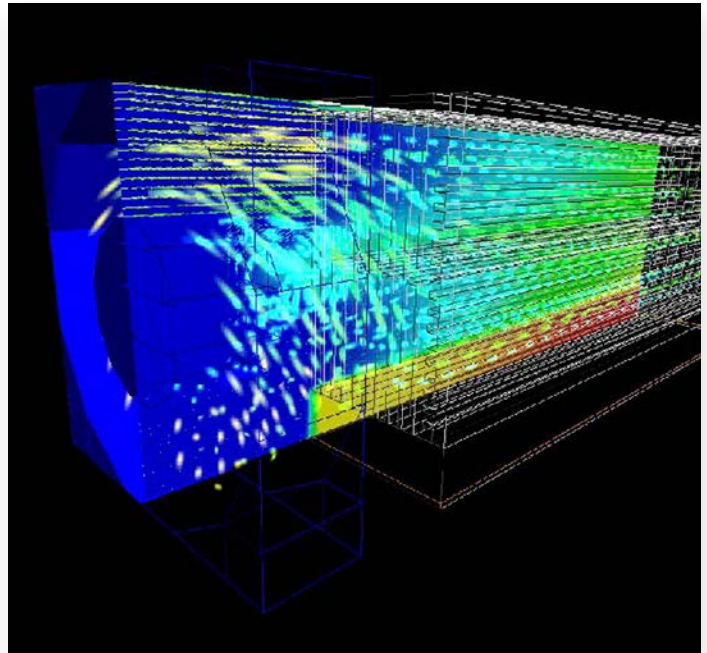
OUR SERVICES

- Evaluation and elaboration of cooling concepts
- Analysis of existing simulation results
- Thermal and fluid dynamic simulations with 6SigmaET:
 - From system to component level
 - Distribution of air flow, air temperatures, pressures, temperatures of solids
 - Fan operating points, pressure drops
- Optimisation of flow pattern and heat transfer, heat sinks, fans
- Failure mode and post mortem analysis
- Product upgrading and redesign

BENEFITS

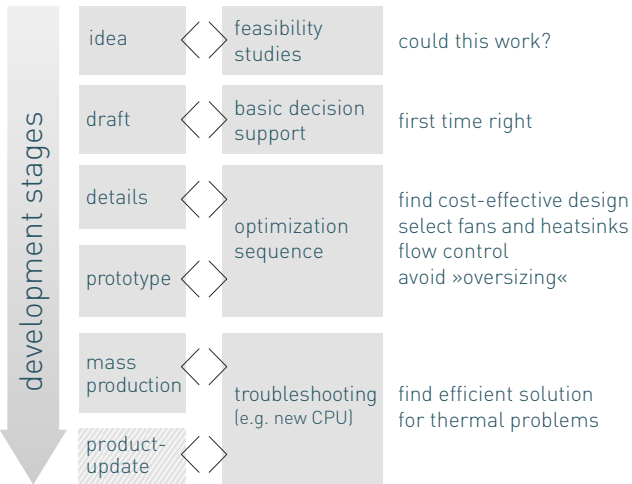
- Rapid feasibility studies
- Early problem identification
- Cost-efficiency of simulation vs. product redesign
- Easy variant analysis
- Accelerated Time-to-Market and Design-to-Cost

Please contact us as your development partner.

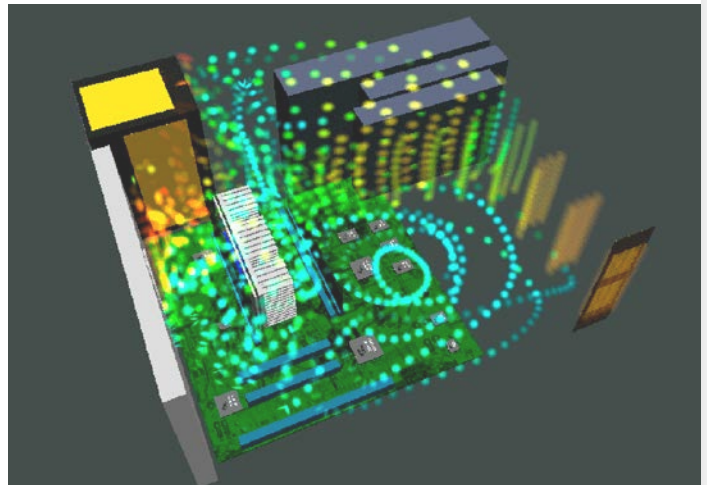


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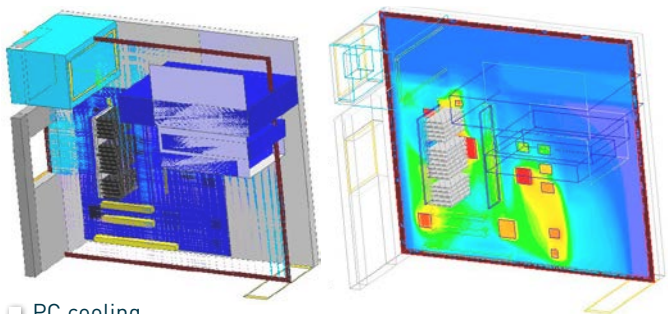
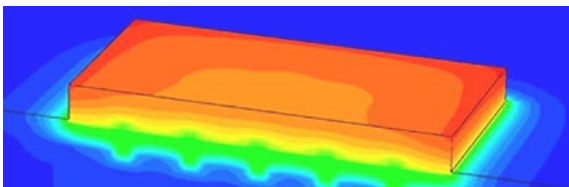
DEVELOPMENT STAGES SIMULATION



SIMULATION EXAMPLE PERSONAL COMPUTER



TIM GAP FILLER ELASTOMER COMPACT MODEL with structural THERMAL VIAS



- PC cooling
- Flow distribution
- Temperature distribution air / solids
- Optimisation strategies for CPU heat sinks, e.g. hood as air duct
- Identification of a vortex with rotating air at high temperature without significant heat source. Counteraction e.g. entrance air deflection plate

Further information

www.dr-breier-consulting.de

All technical data and information are without warranty and believed to be reliable and accurate corresponding to the latest state of the art. Since the products are not provided to conform with mutually agreed specifications and their use and processing are unknown we cannot guarantee results, freedom from patent infringement, or their suitability for any application. Product testing by the applicant is recommended. We reserve the right of changes.