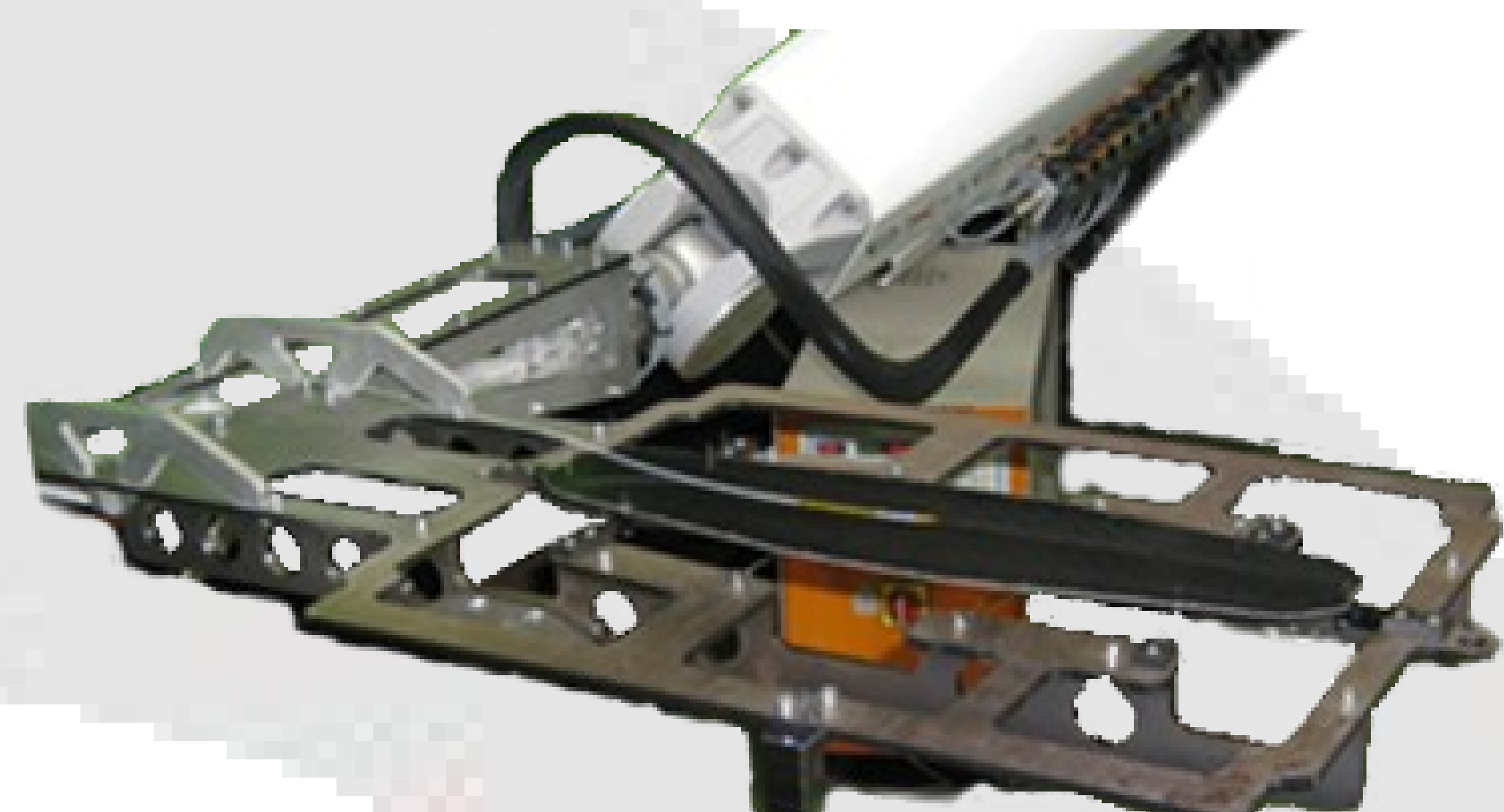
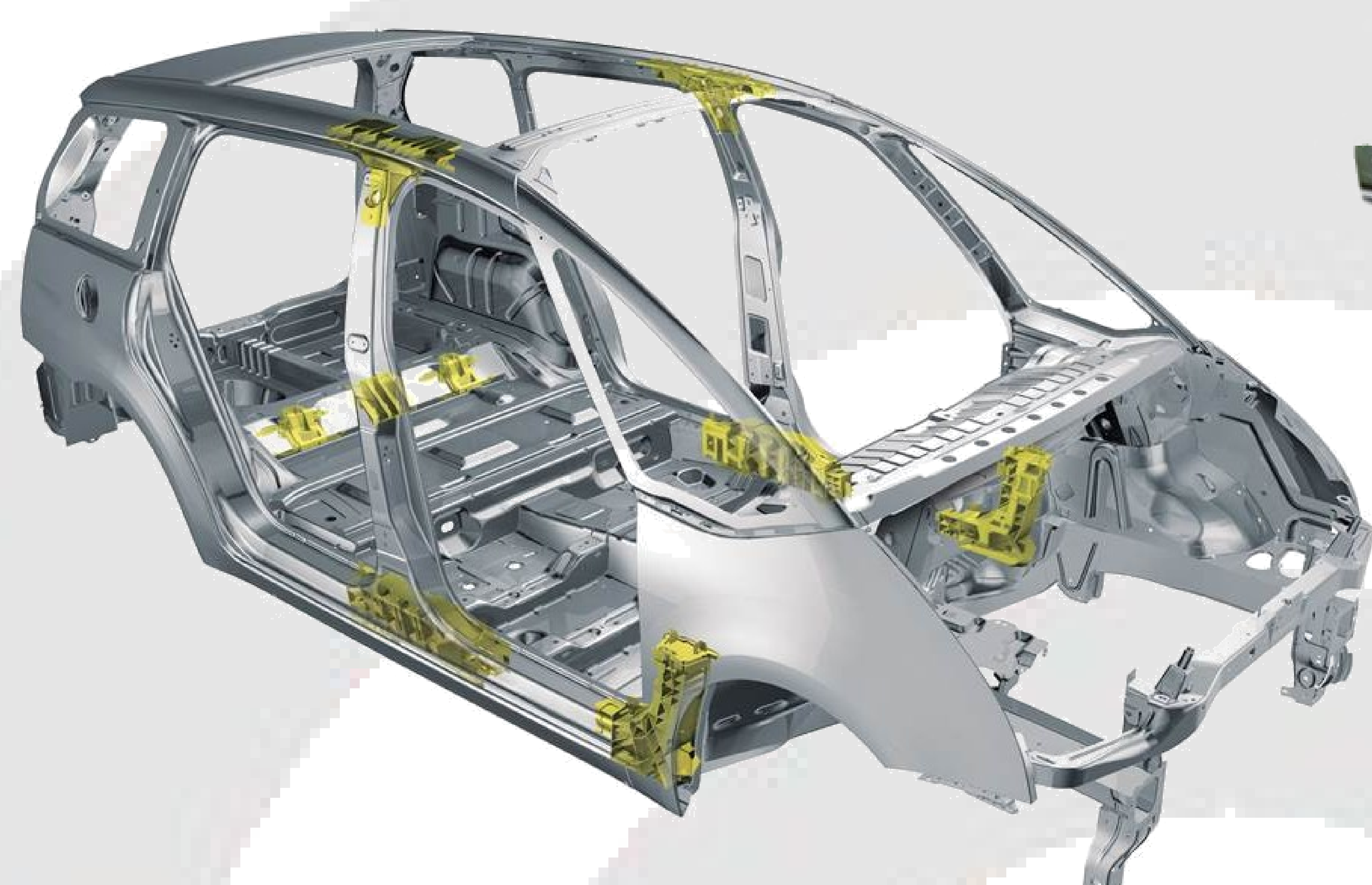




BRODEX

Optimal Design eXpertise

Let's innovate with an efficient design process



Innovation
Development
Competitivity
Optimal design
Strategy
Simulation driven

TOGETHER,

DO IT RIGHT

THE FIRST TIME

WITH LATEST SIMULATION DRIVEN TECHNOLOGIES

Benefits

- ++ increase products performances,
- ++ assure products performances,
- ++ manage costs,
- ++ drive your developments (time, risks),
- ++ keep efficient ressources.

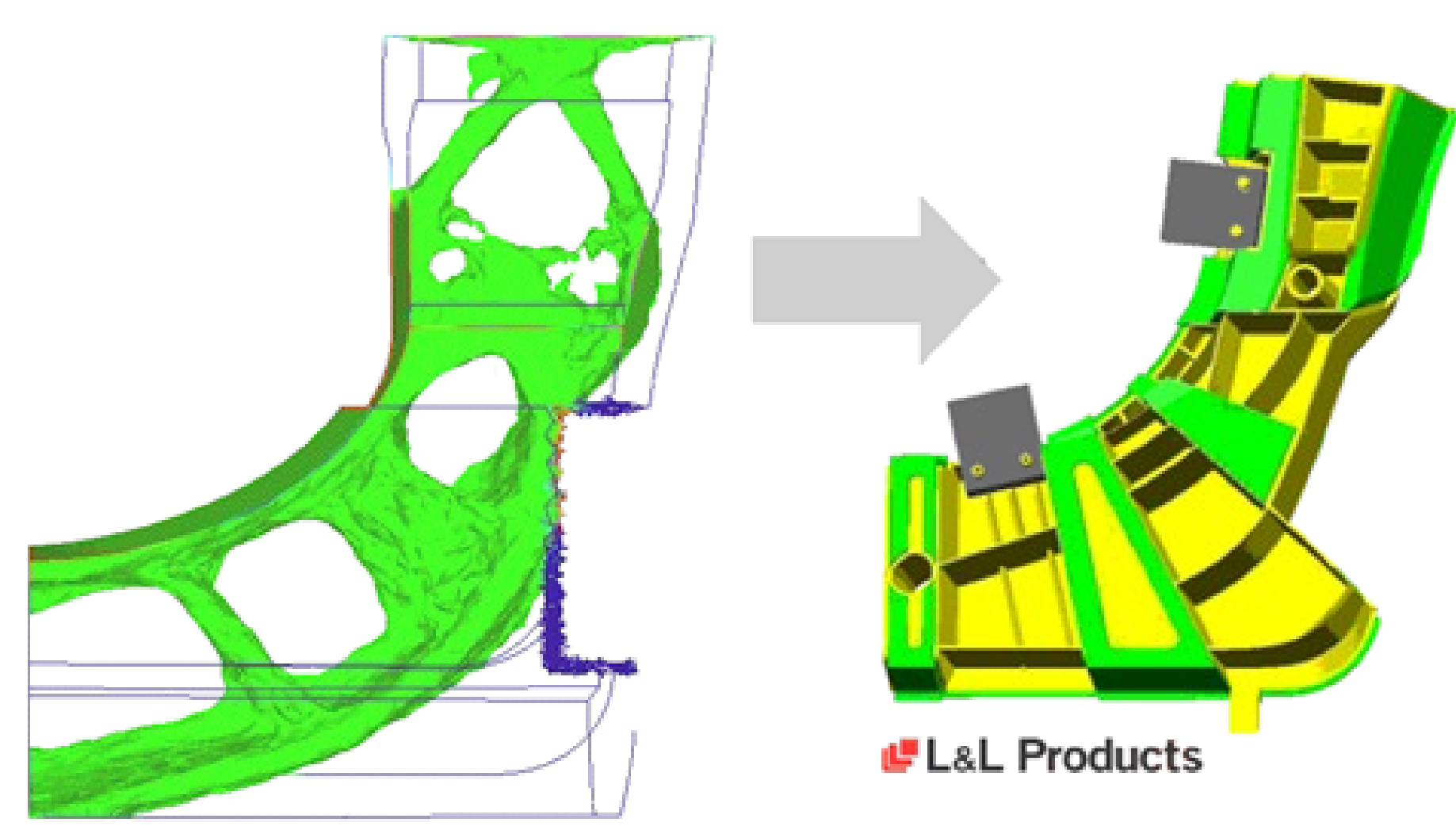
Cost efficiency *Expertise*
Predictivity *Lead*
Robustness / Reliability *Decision maker*
Weightsaving
Innovate *Stiffness / Strength*
Material Choice
Material / Product / Process Optimisation

MAKE THE DIFFERENCE :

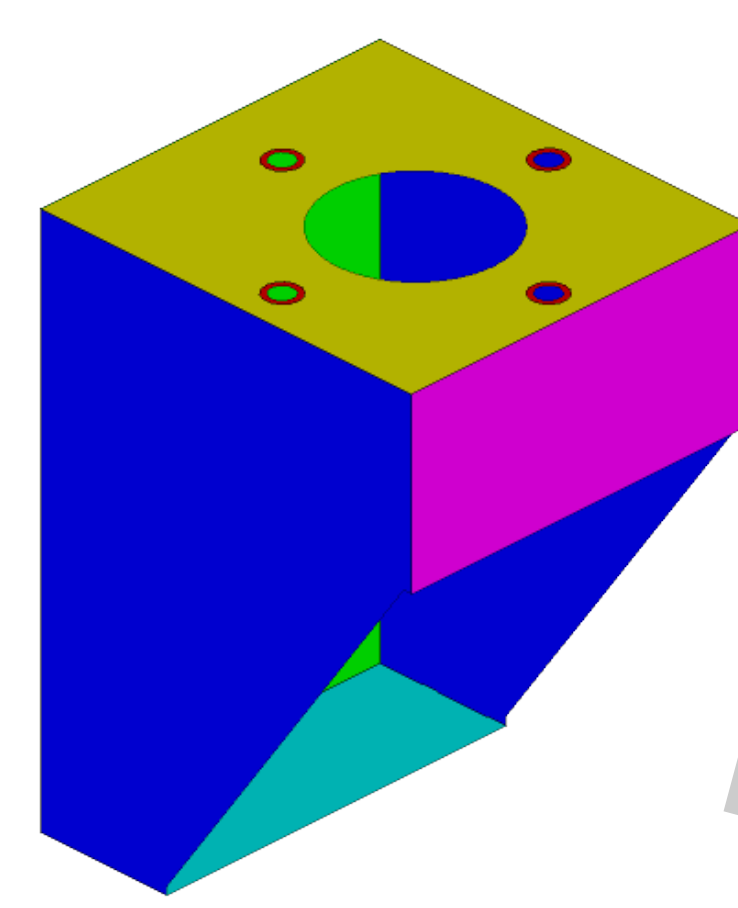
INNOVATE AND ACT

Know Hows

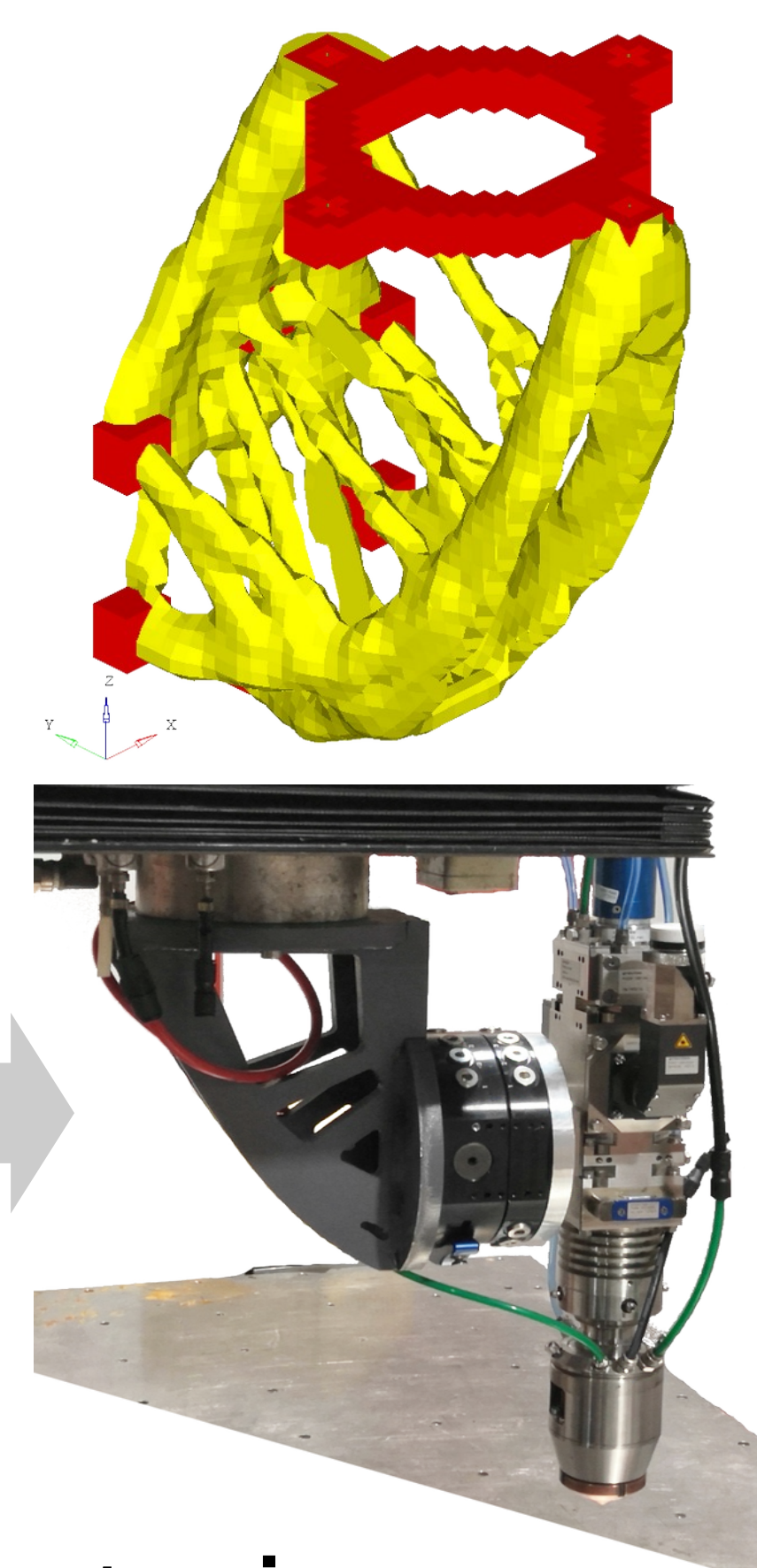
Topology optimisation : an improved technology,



Injection molding
Automotive, 2004

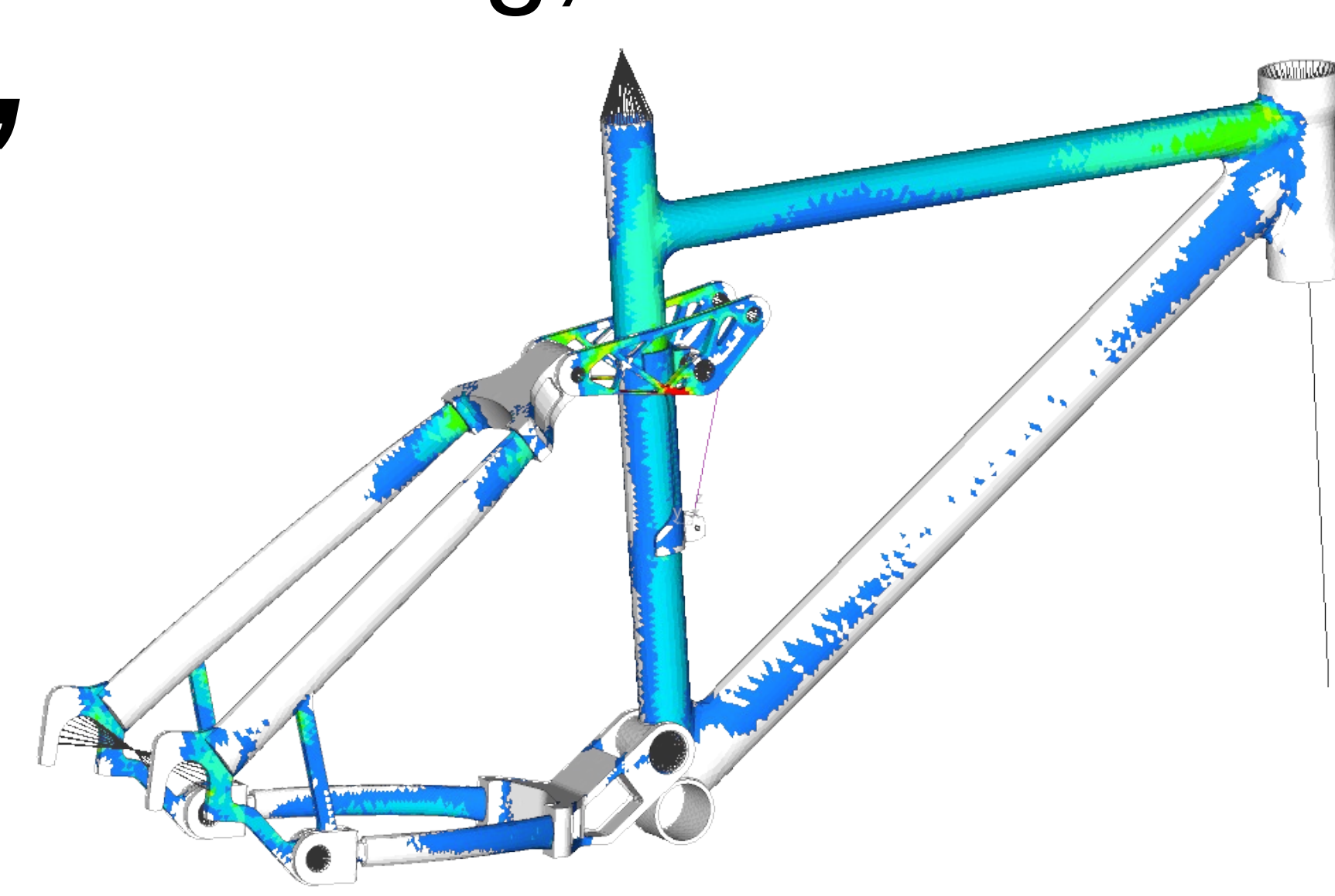


Welding – Additive Manufacturing
Tooling, 2019



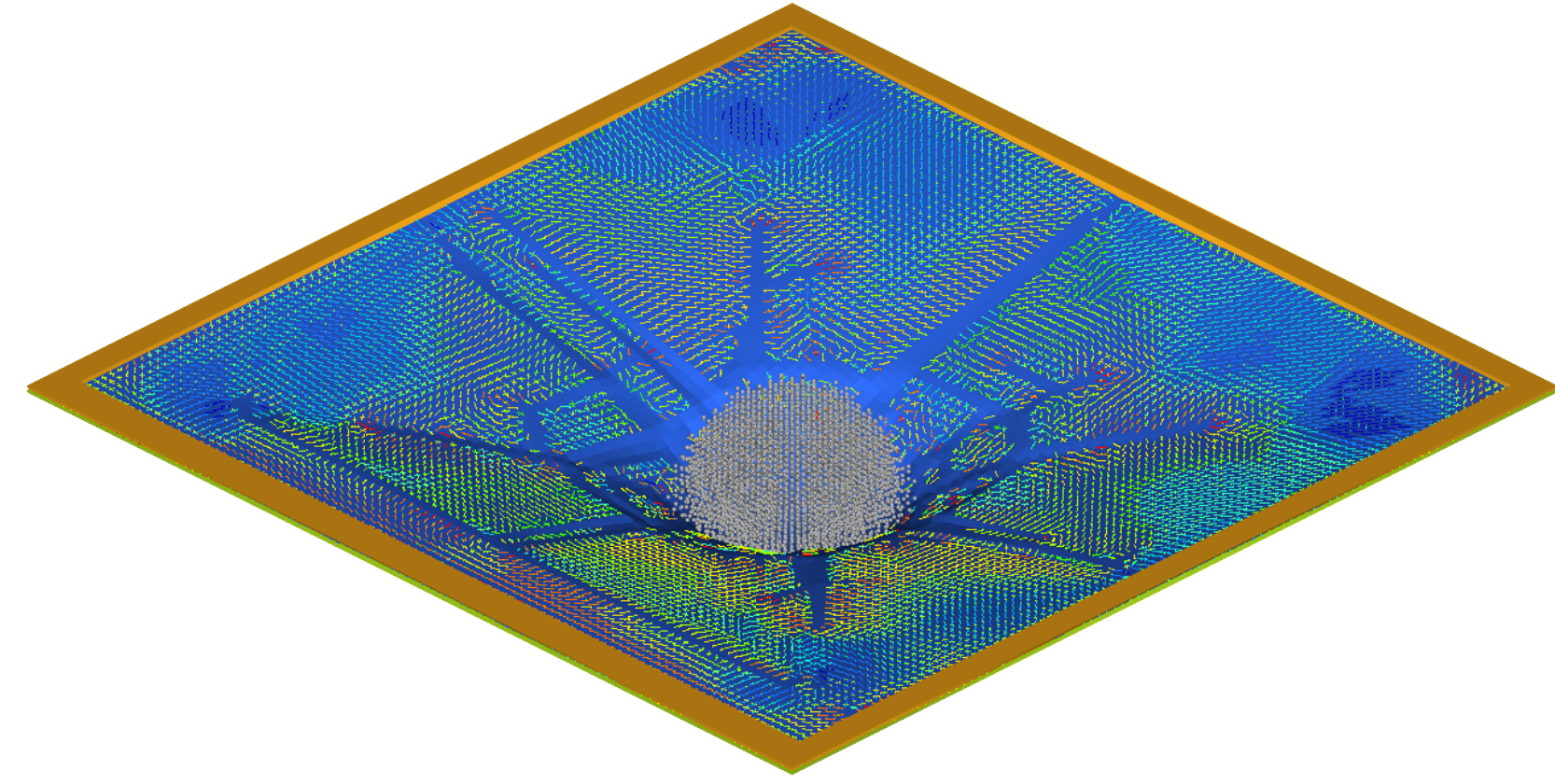
Some mechanical simulations,

- ++ Stiffness, Strength, Fatigue
- ++ Linear static, non linear, Vibration
- ++ Elasticity, Plasticity, Hyper-elastic, ...
- ++ Anisotropic, Orthotropic



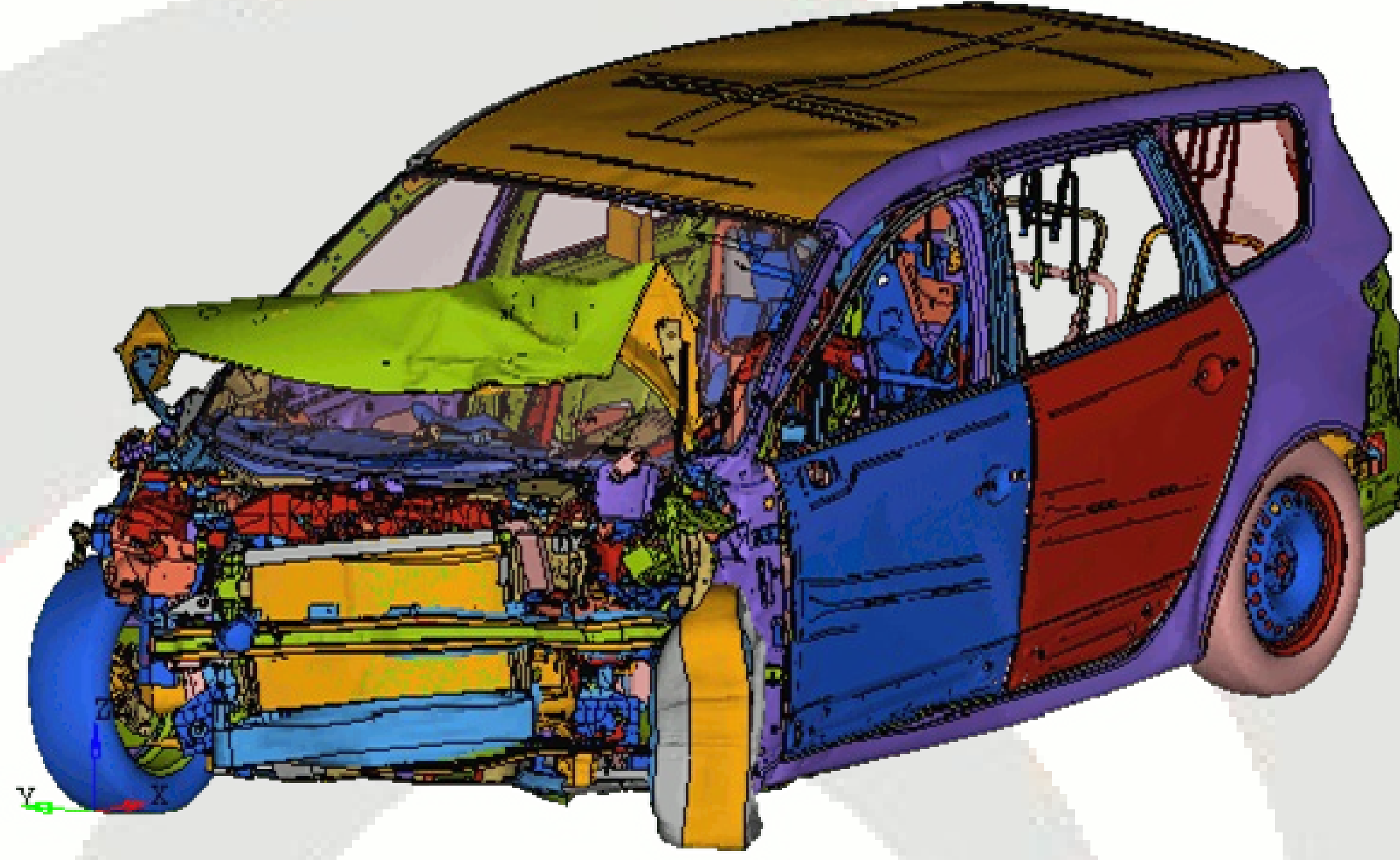
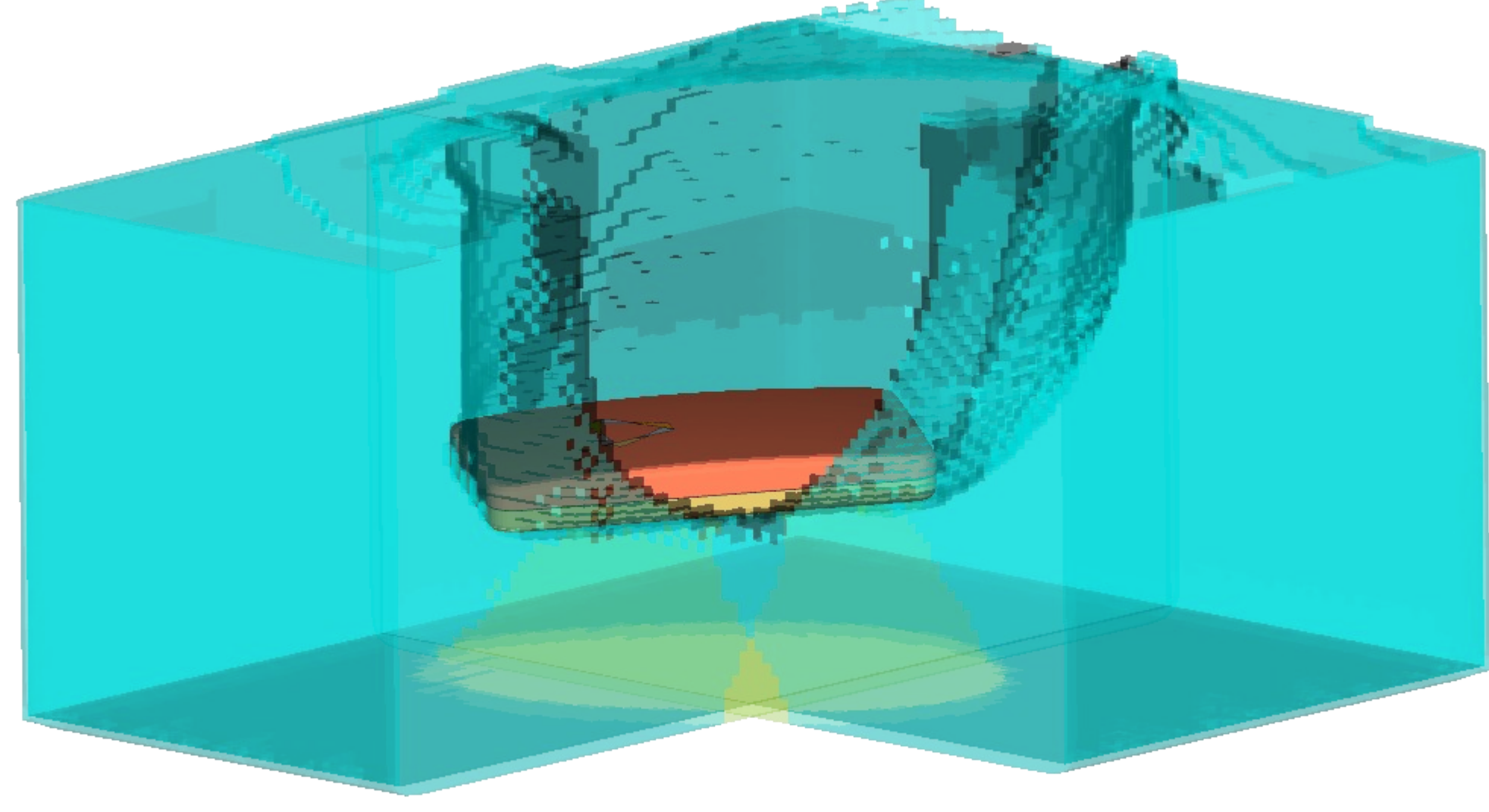
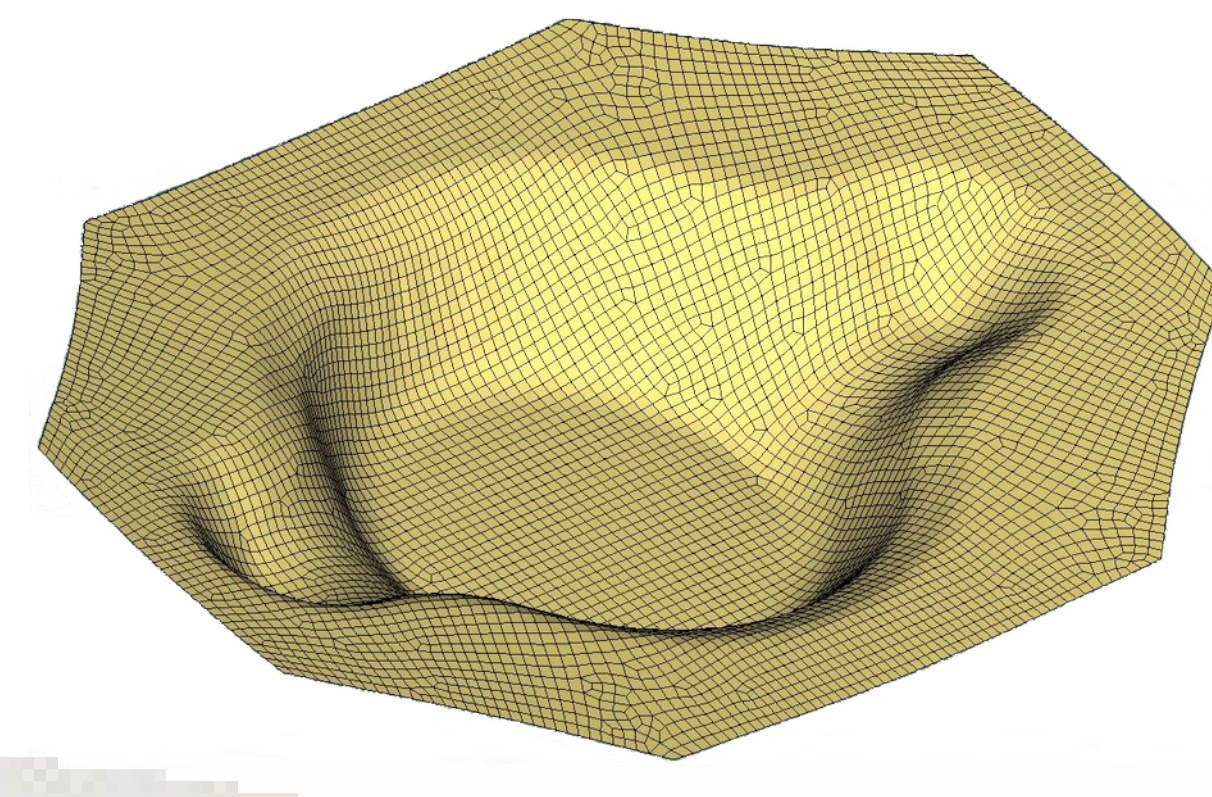
More mechanical fields,

- ++ Low / high speed impacts
- ++ Explosions, Ballistics
- ++ Fluid / structure interactions



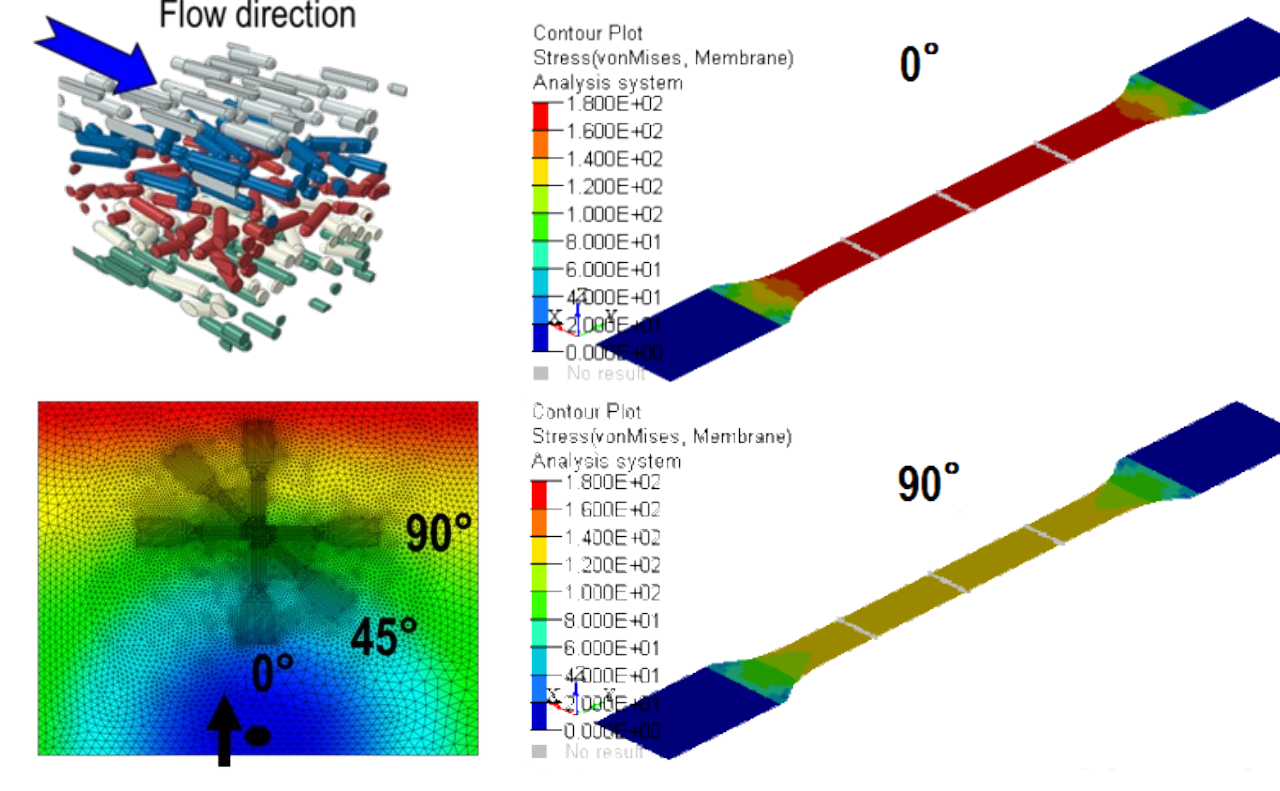
Various applications,

- ++ Additive Manufacturing, Injection, Casting
- ++ Bonded Structures, Welding
- ++ Machining, Extrusion
- ++ Stamping, Hydro-forming
- ++ Plastics and Composites
- ++ ...

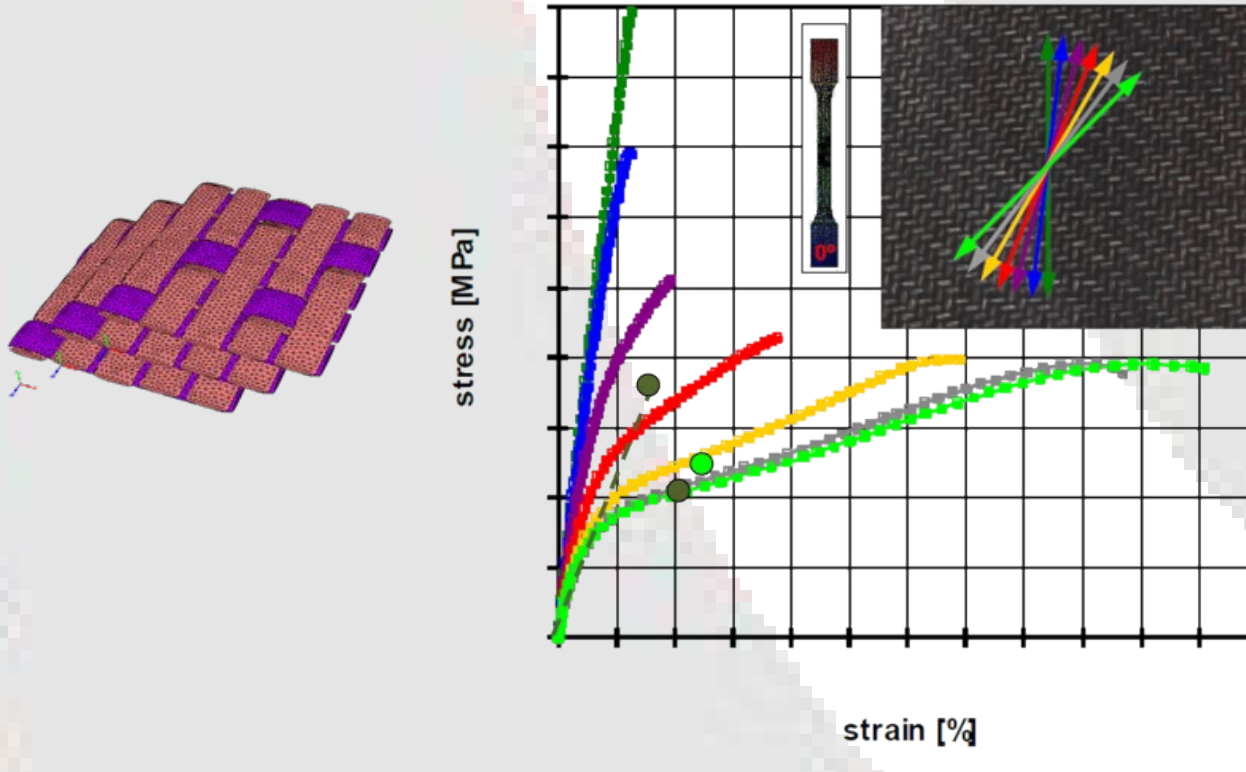


And then, advanced material modeling.

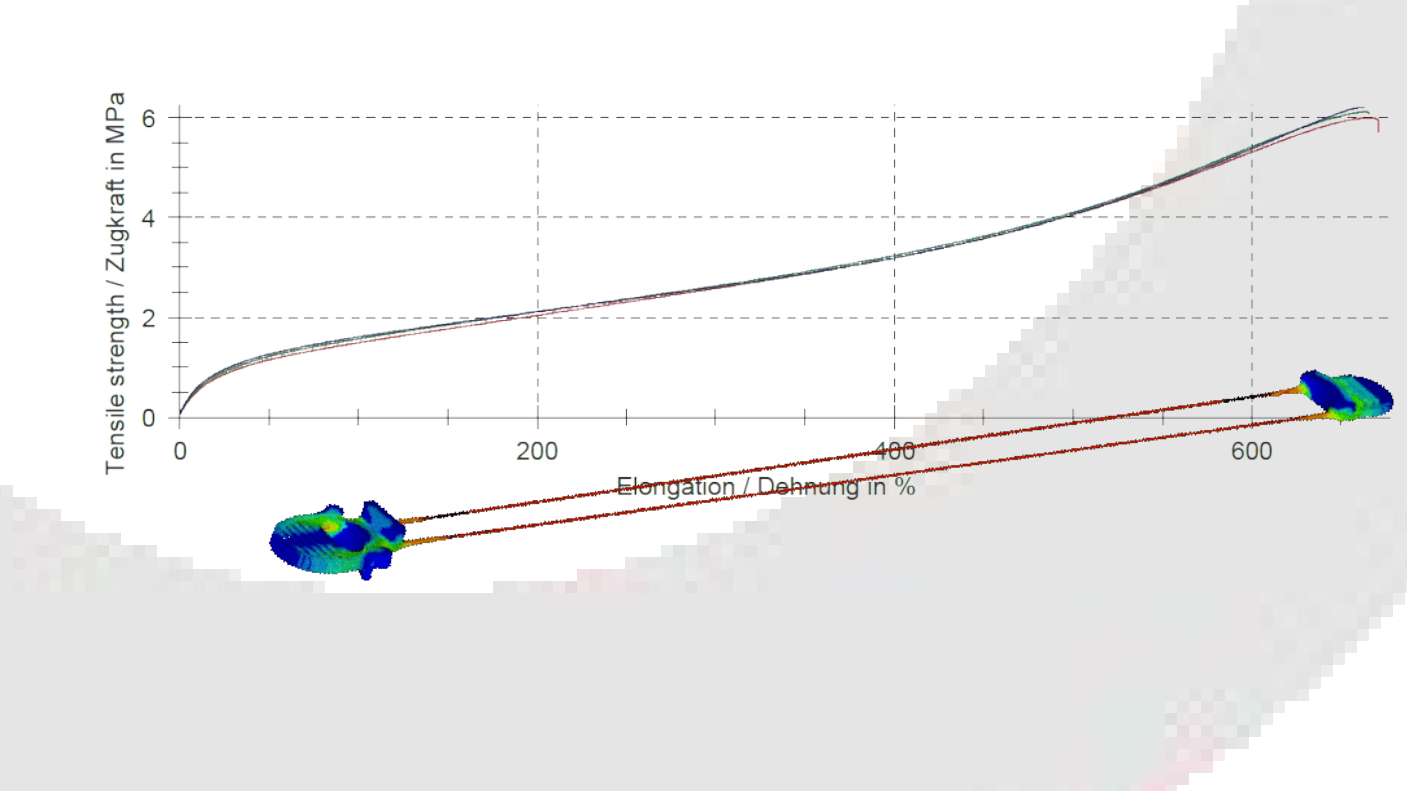
Short fibers



Continuous fibers,
Woven fabrics, ...



Hyper-elastic materials



References :

Automotive



Industry and transportation



Partners

