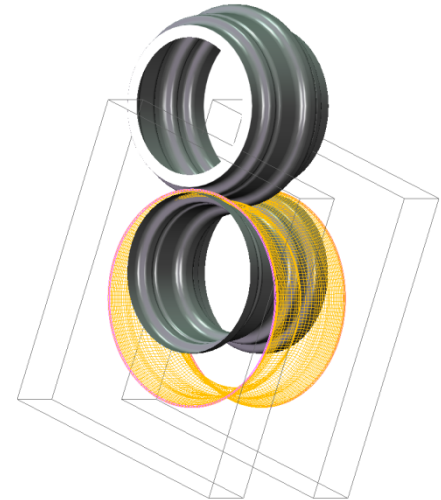


## Objective

Commercially available finite element programs contain all required ingredients to perform a numerical simulation of the wheel rim forming process, however the description of the material behaviour during forming history is a limitation

In industrial wheel rim forming processes the loading history from basic material to completed product is complex and contains many steps



## Research topics

- Evaluate the suitability of currently available tools for numerical simulations of the complete forming process of a wheel rim to improve the manufacturing process
- Select the most suitable simulation tool



## Industrial benefits

- First time right, less trial and error
- Lower trial and production cost for new dies estimated at about € 50.000 / year

