

SM1907-R: New Capabilities in Autodesk Sim 360



Jon den Hartog
Product Line Manager
Autodesk



Peter Maxfield
Principle User Experience Designer
Autodesk



What's happening in the sim world?



Demand is cyclical

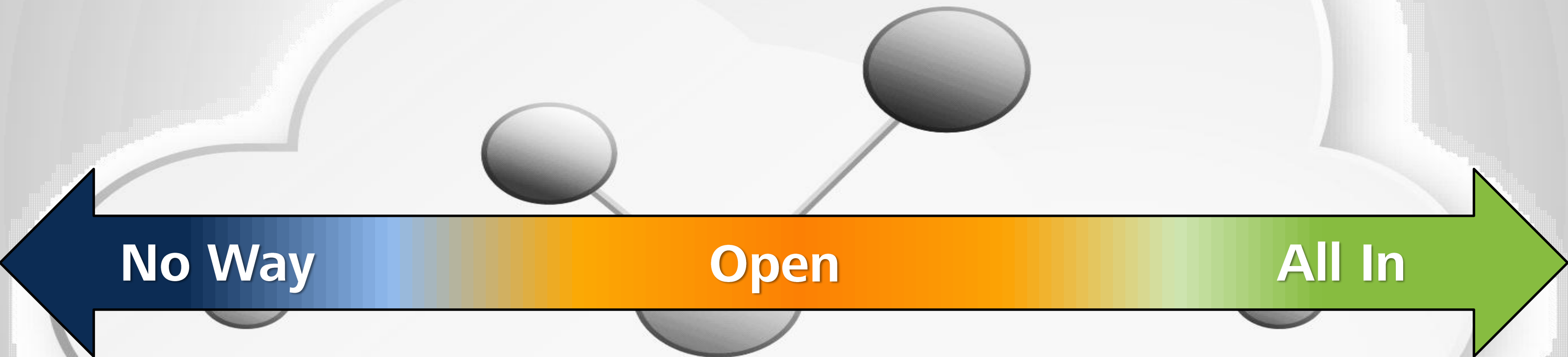


Problems are more complex



Data management is a burden

What do you think about sim in the cloud?



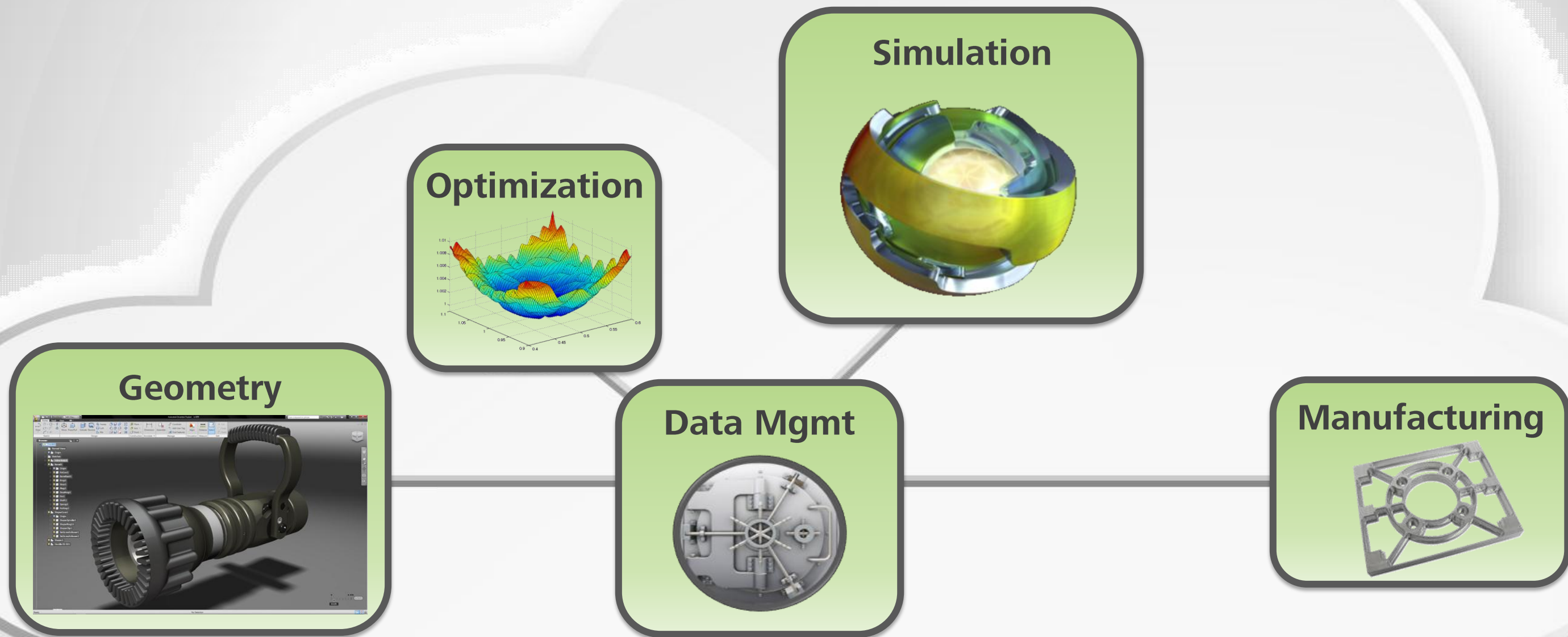


Desktop

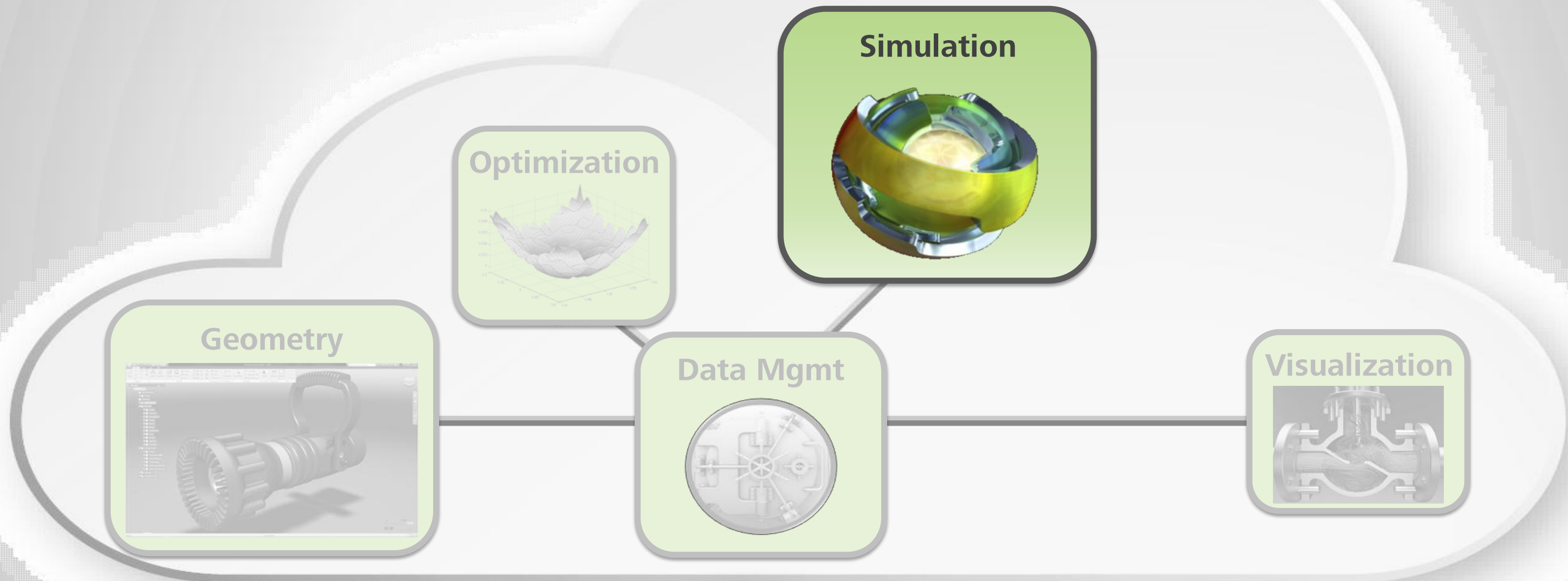
Connected Desktop

Cloud



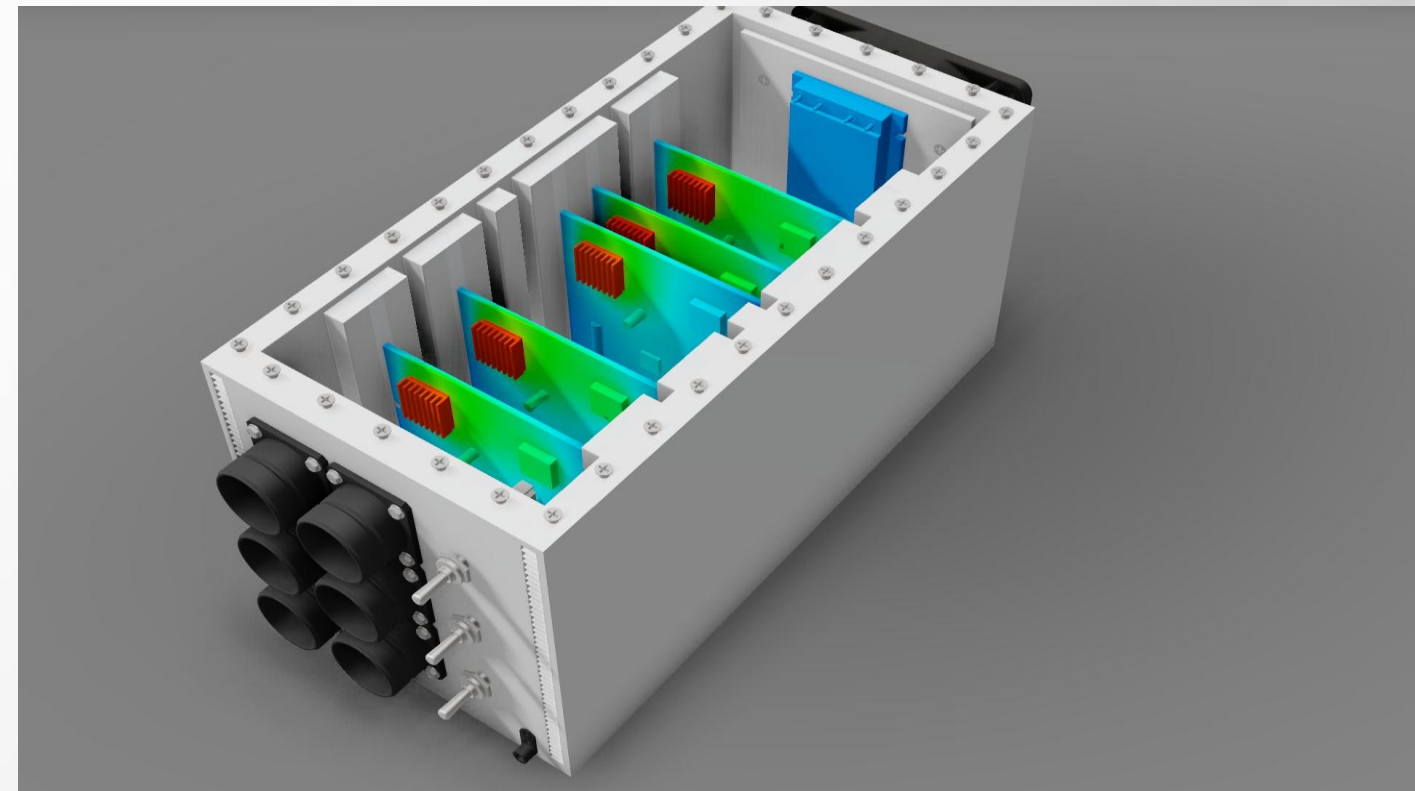
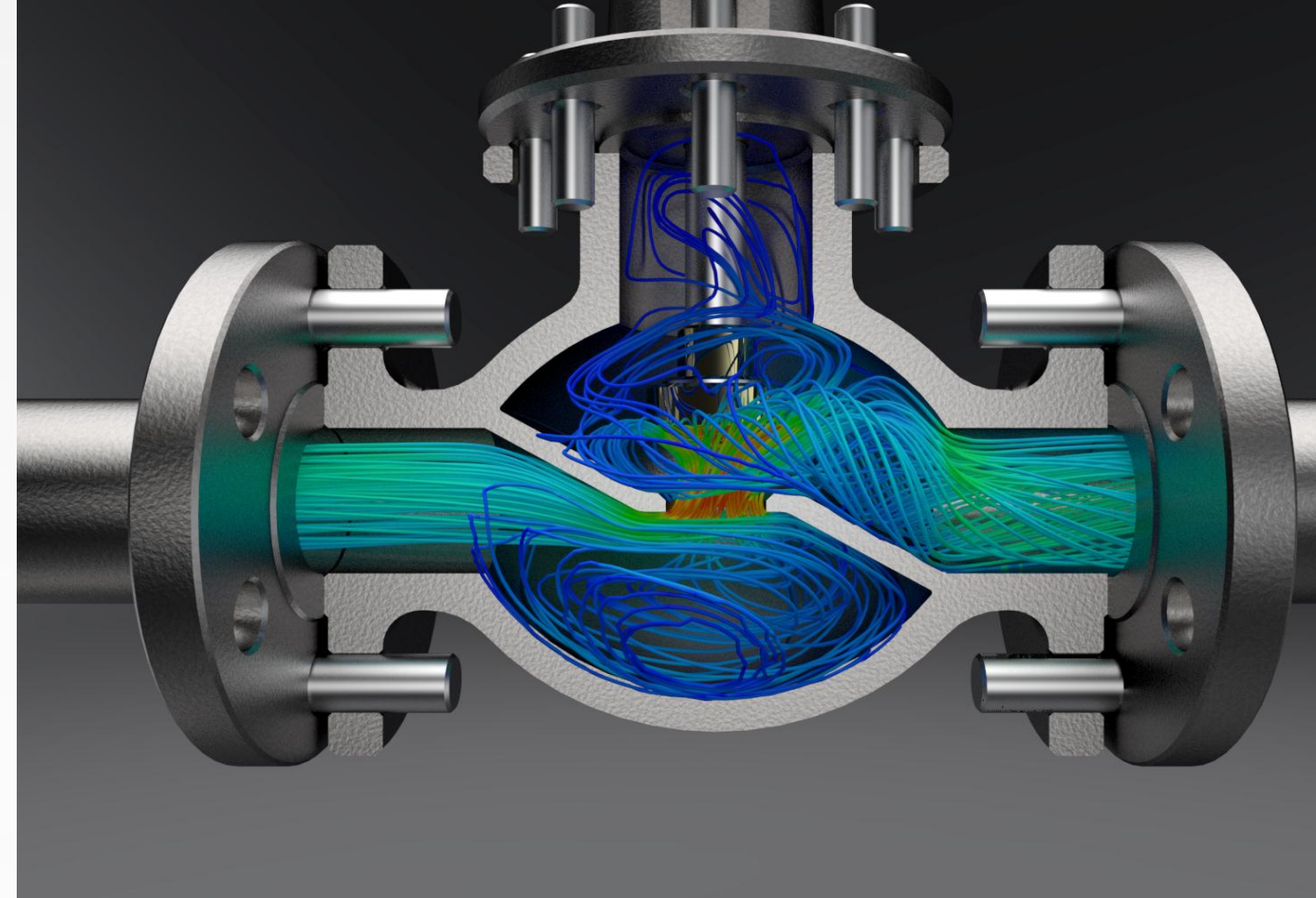


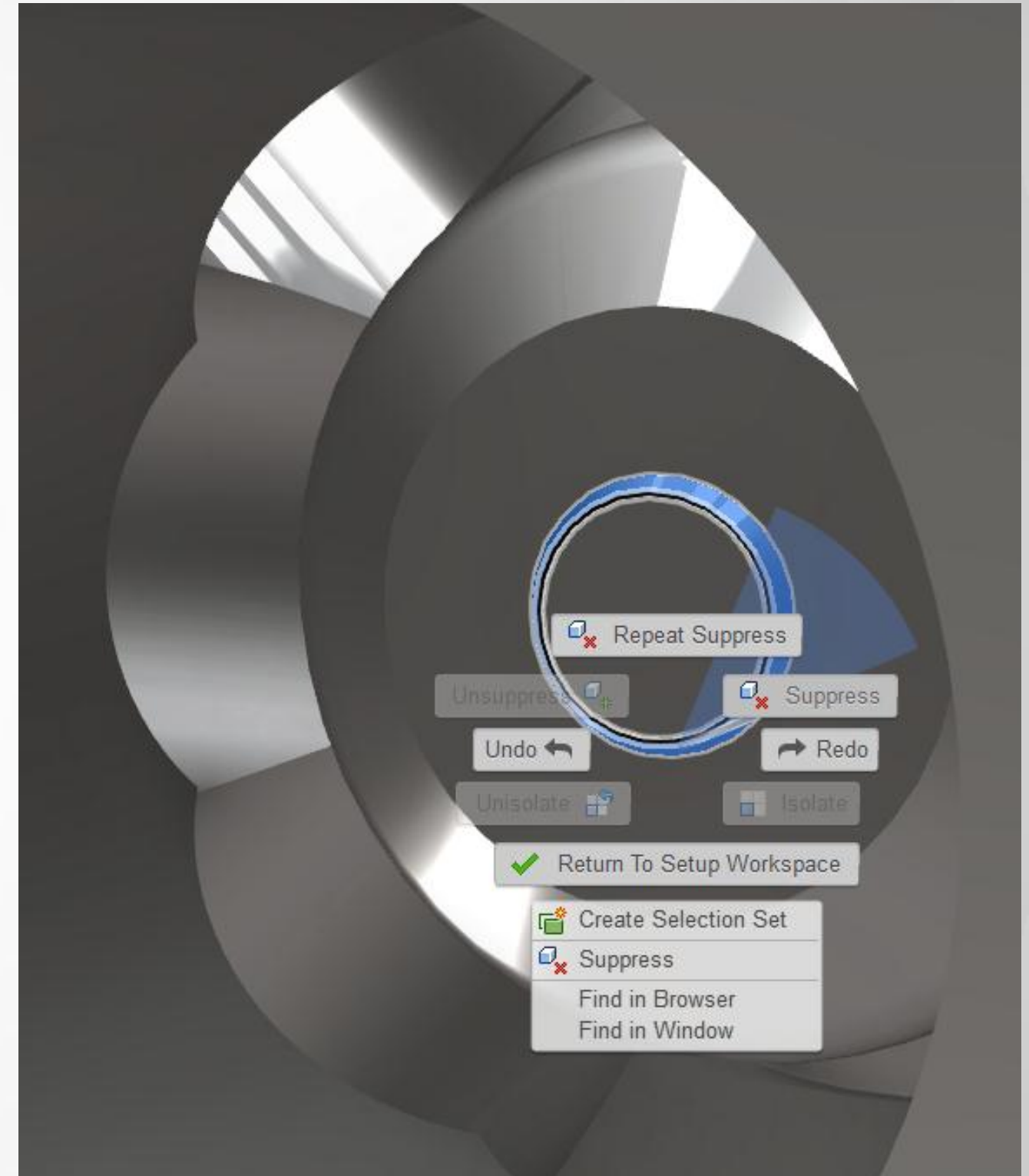
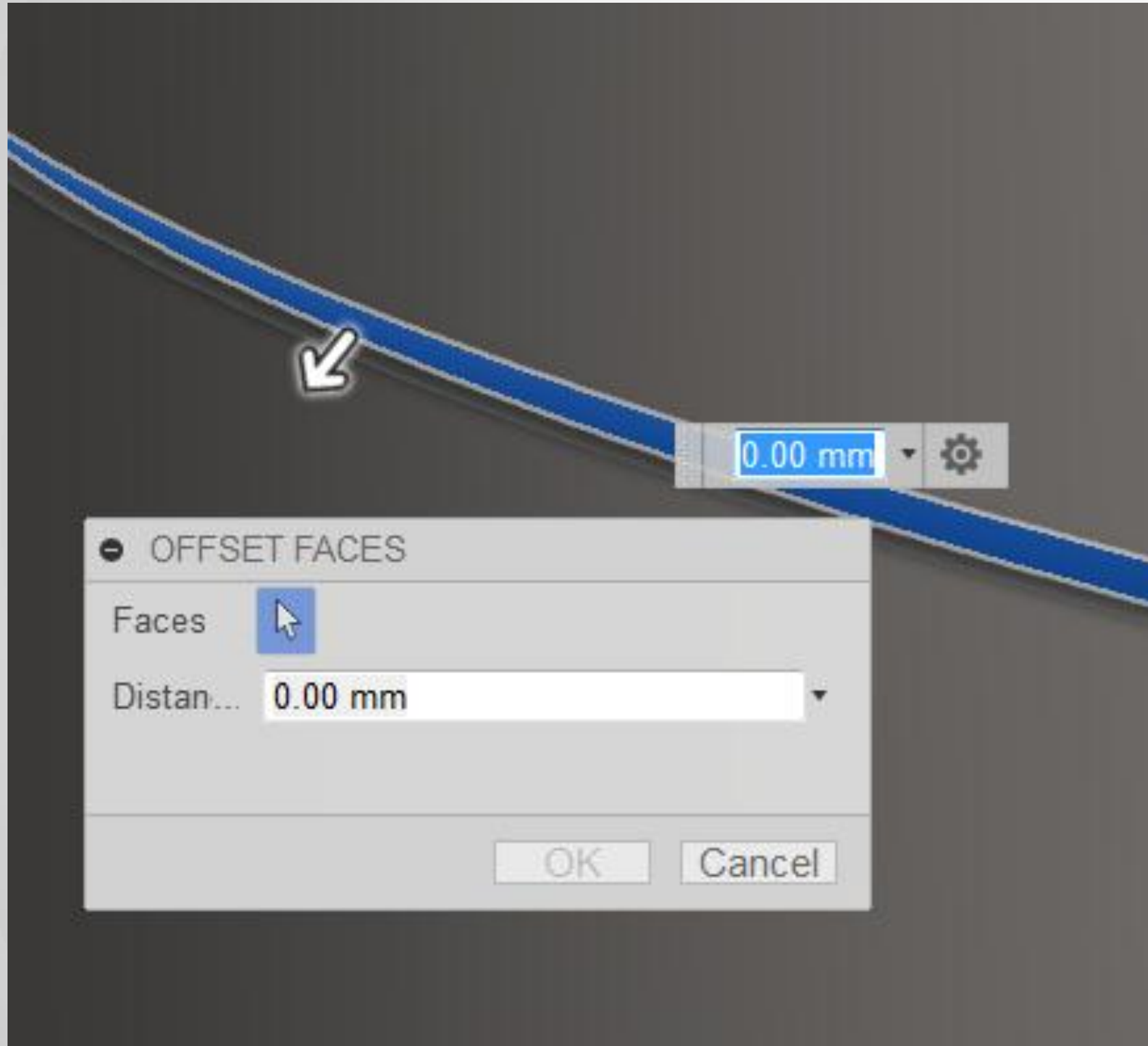
CFD in Sim 360

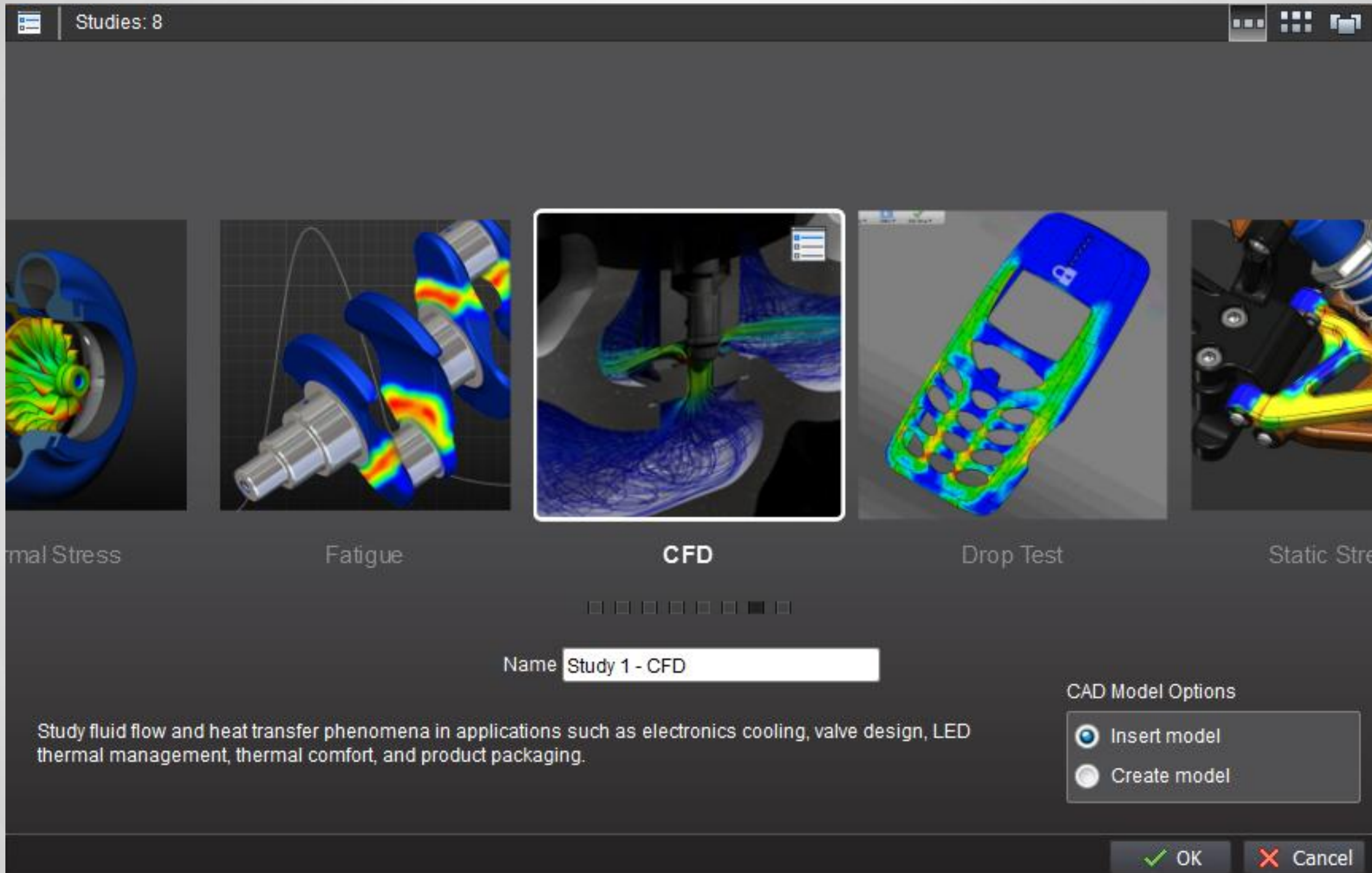


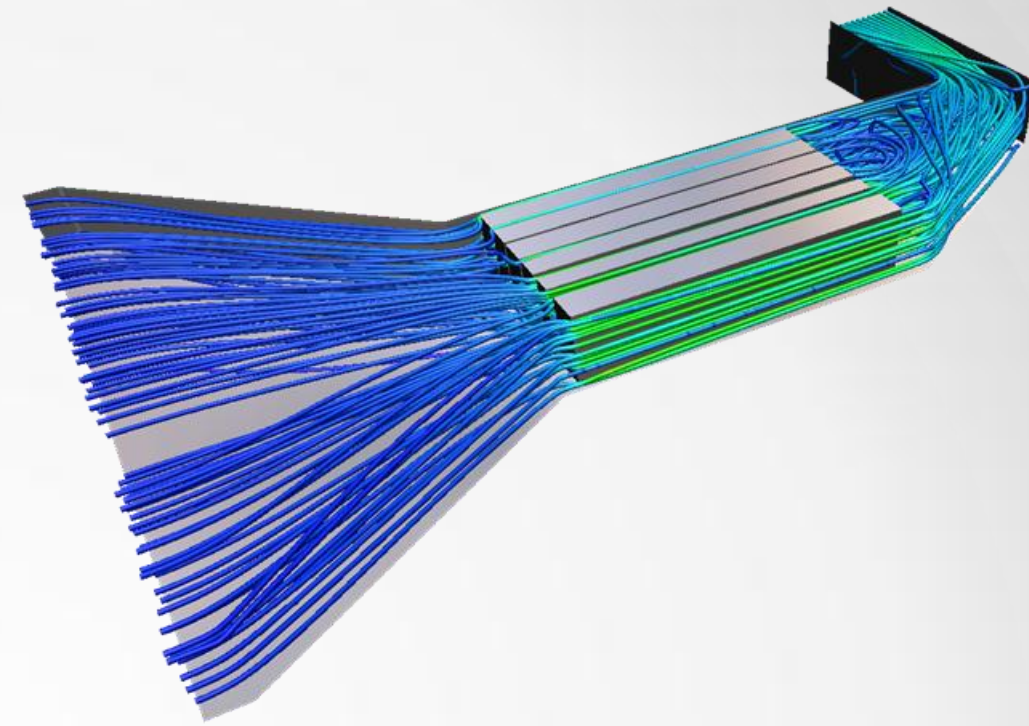
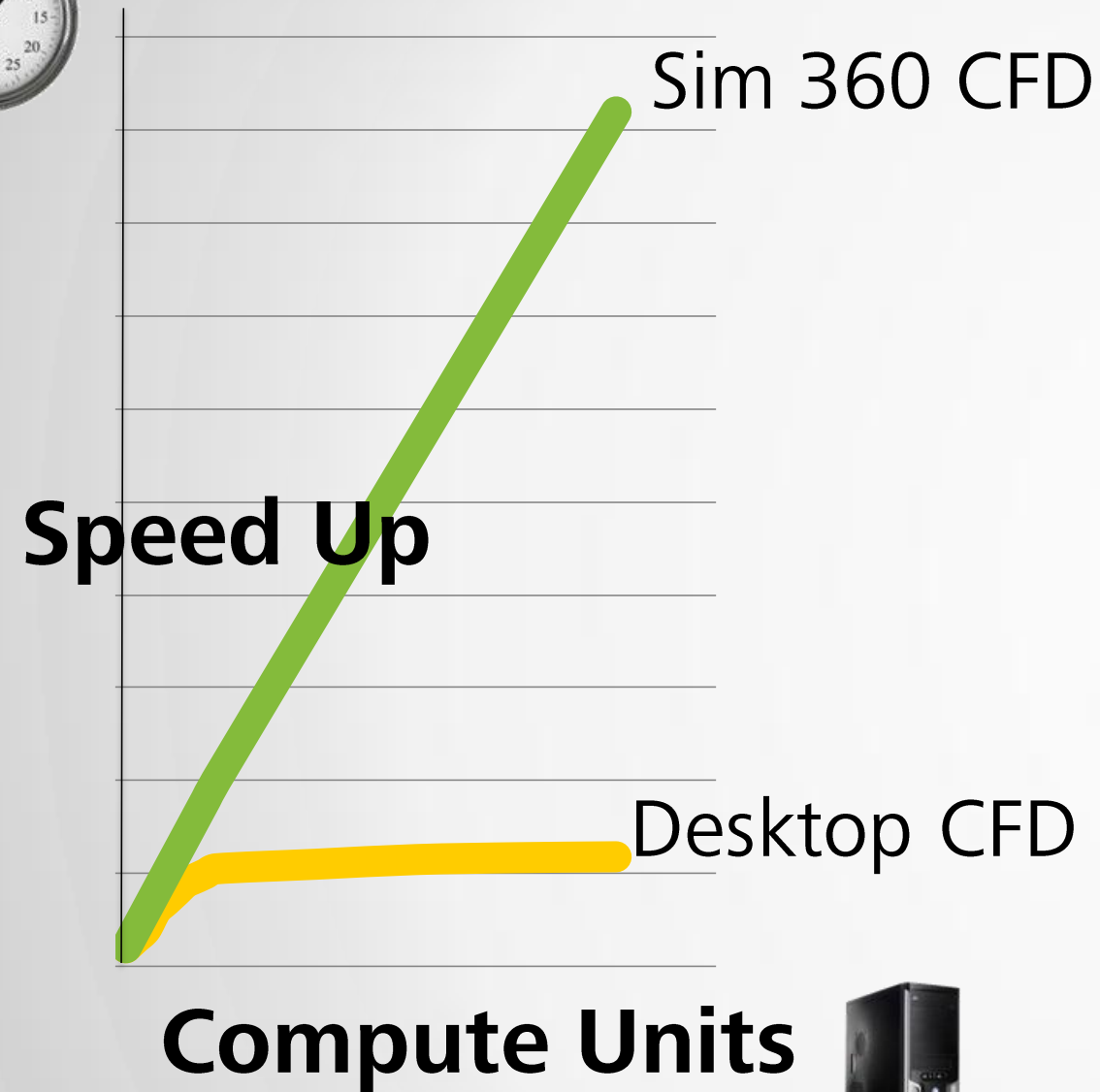
Themes

- More geometry control
- Common workflow
- Faster results









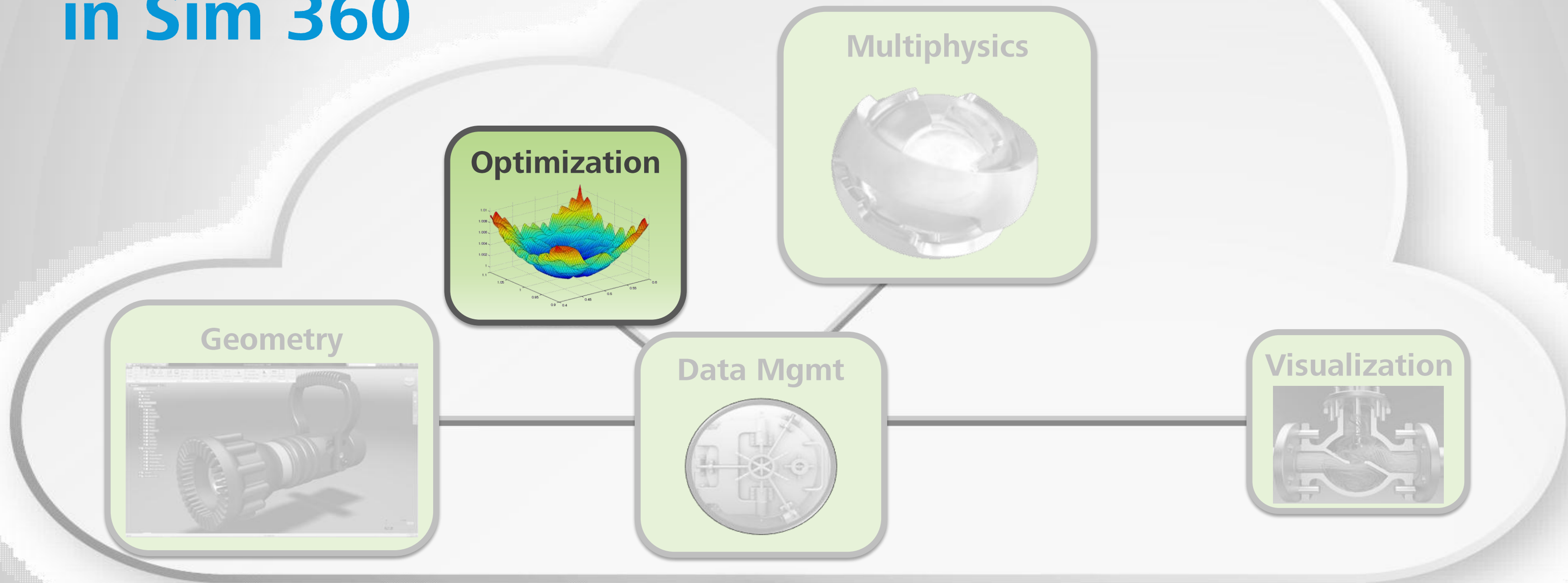
Typical Large Model (9M Elements)

Desktop CFD on my machine : **18.8 hrs**

Sim 360 CFD on cloud : **1.2 hrs**

15x Speedup

Design Optimization in Sim 360



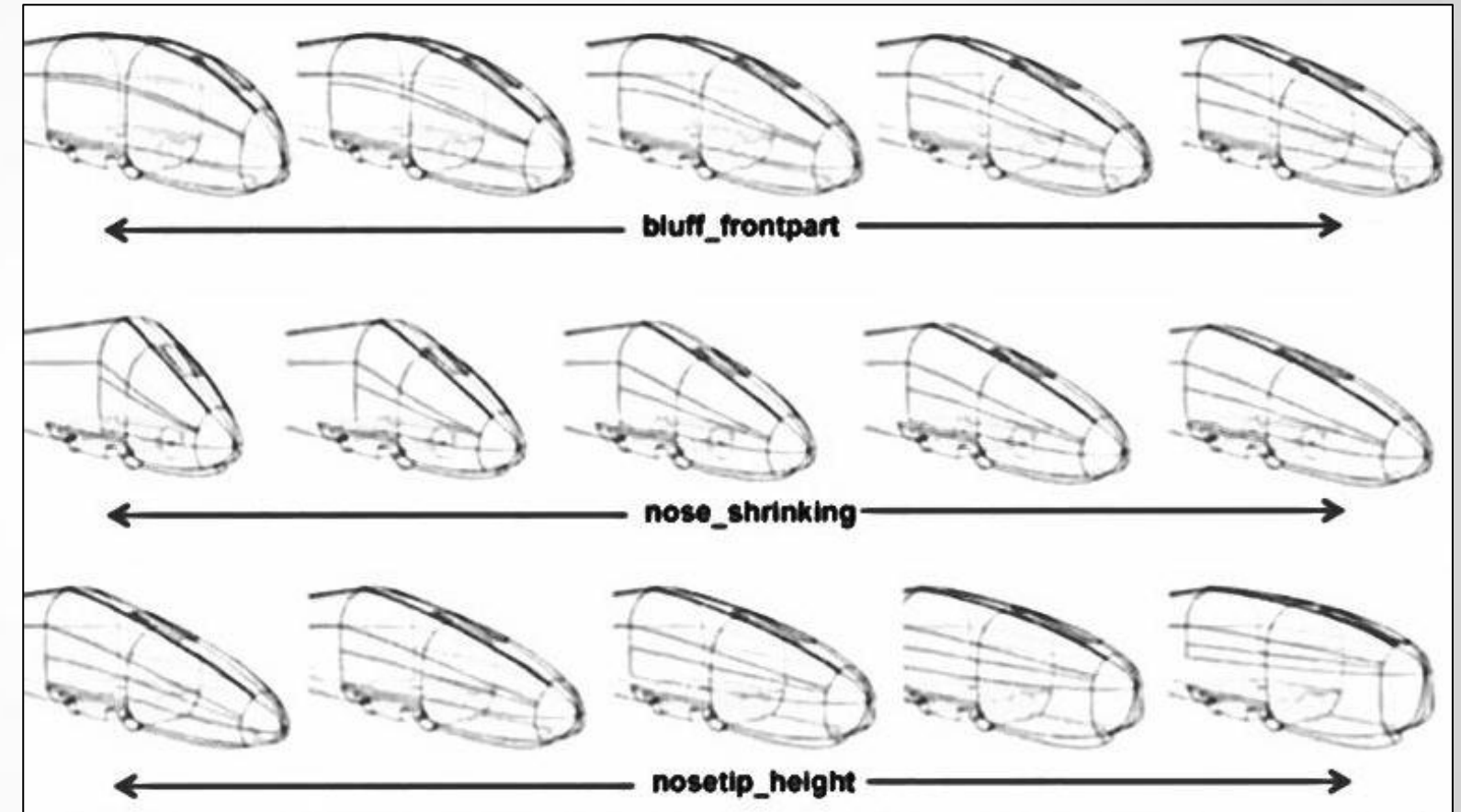
Goal-Driven Optimization

- Bring the user's focus to the objective(s)
- Make setup nearly transparent
- Encourage exploring far more alternatives than manually possible



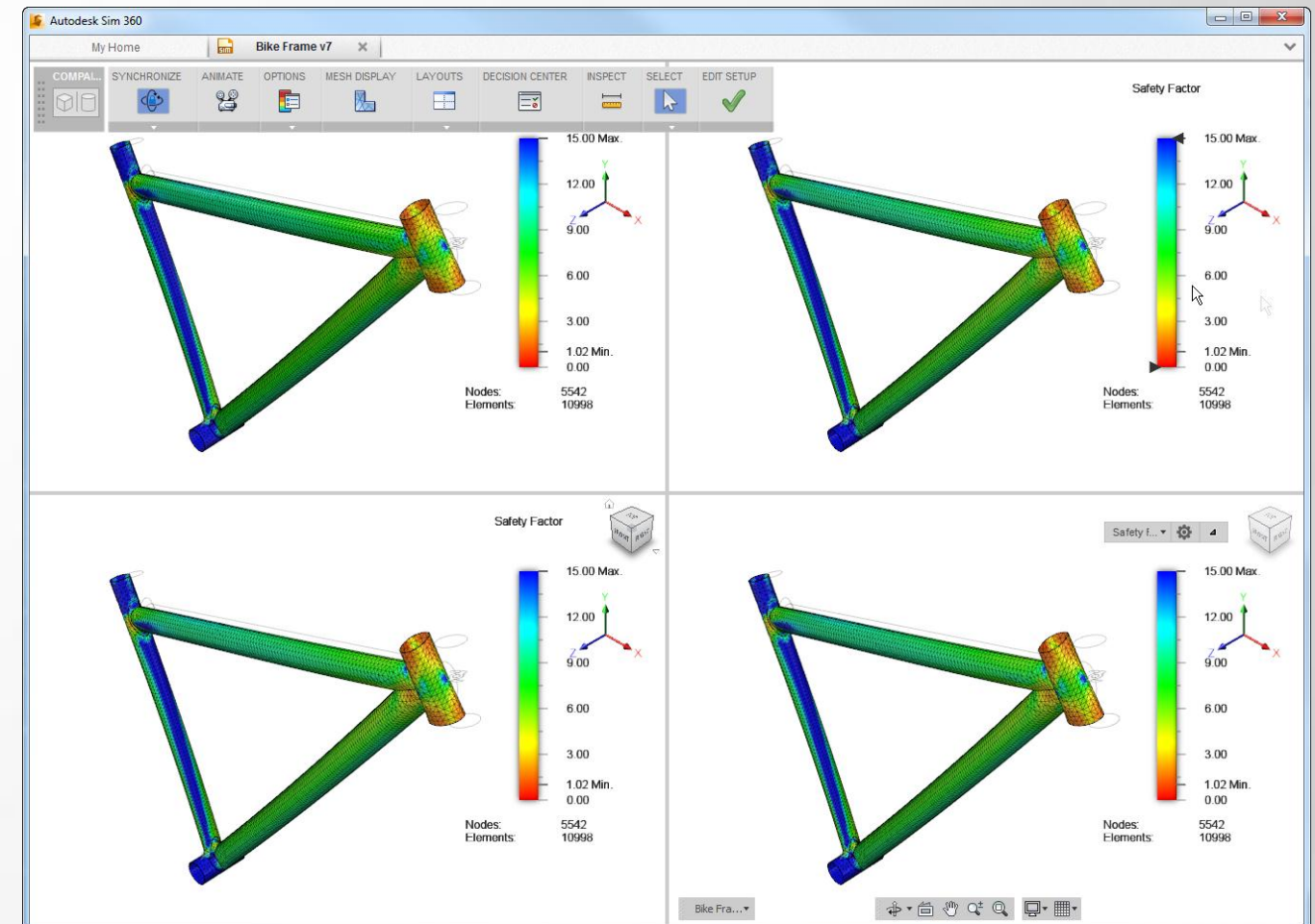
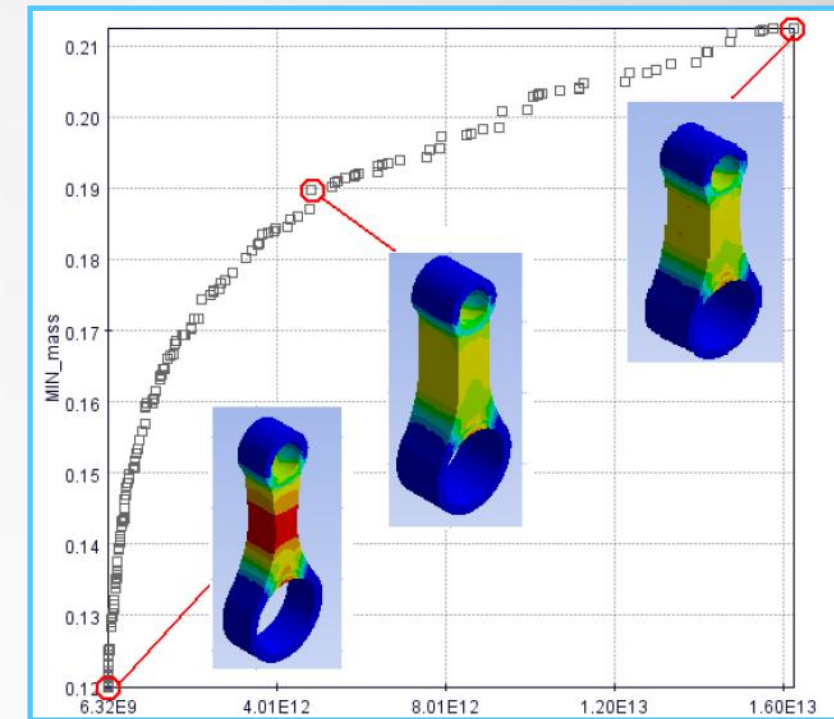
Capabilities – Today and Planned

- Multi-Objective
- Multi-Domain
- Input Parameters:
 - Geometry
 - Simulation
 - Custom



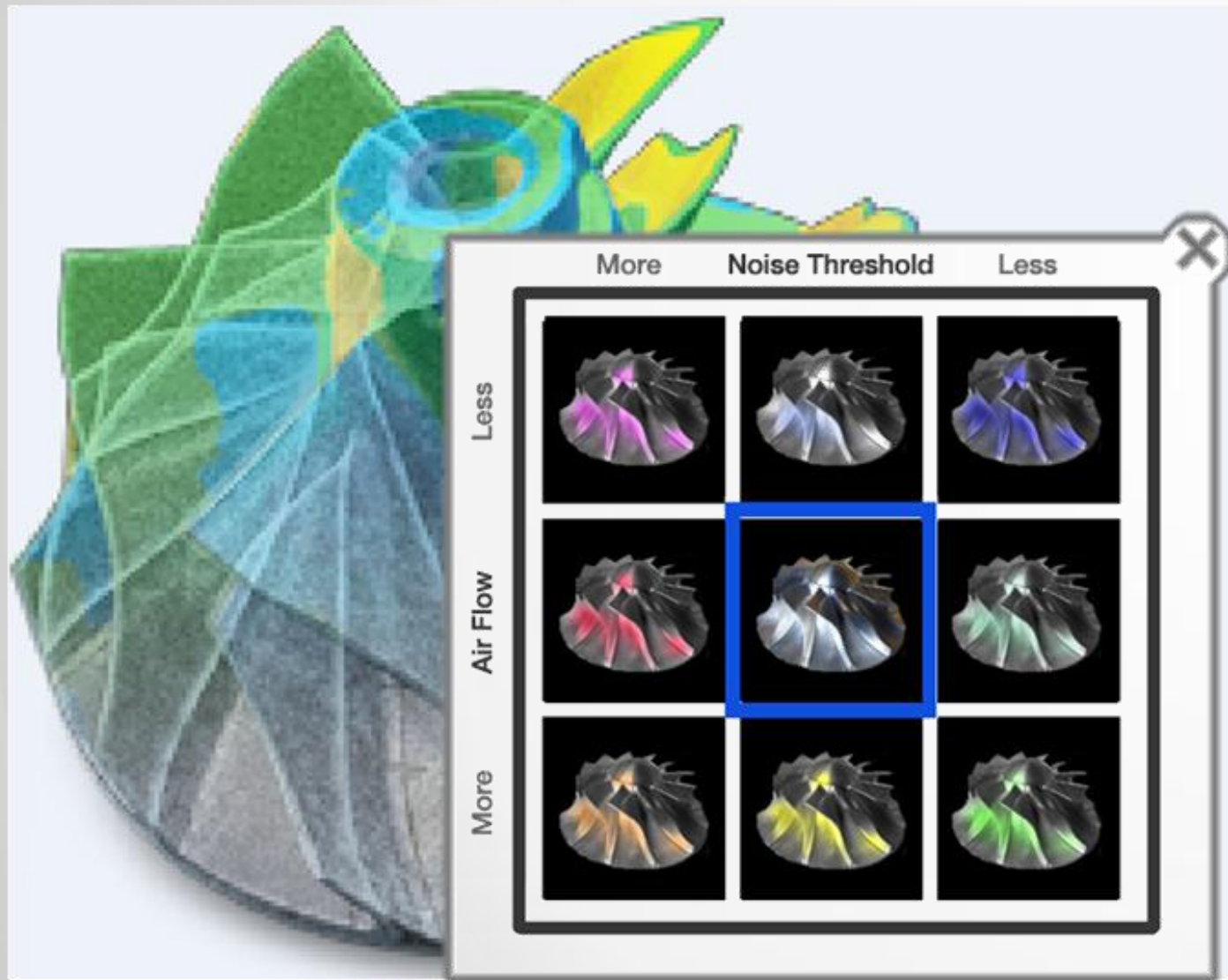
Plots and Results

- Chart Types:
 - Pareto
 - Sensitivity
 - Iterations
- Bookmark Results of Interest for Details
- Compare



Results Interpretation

Simple



Complex

