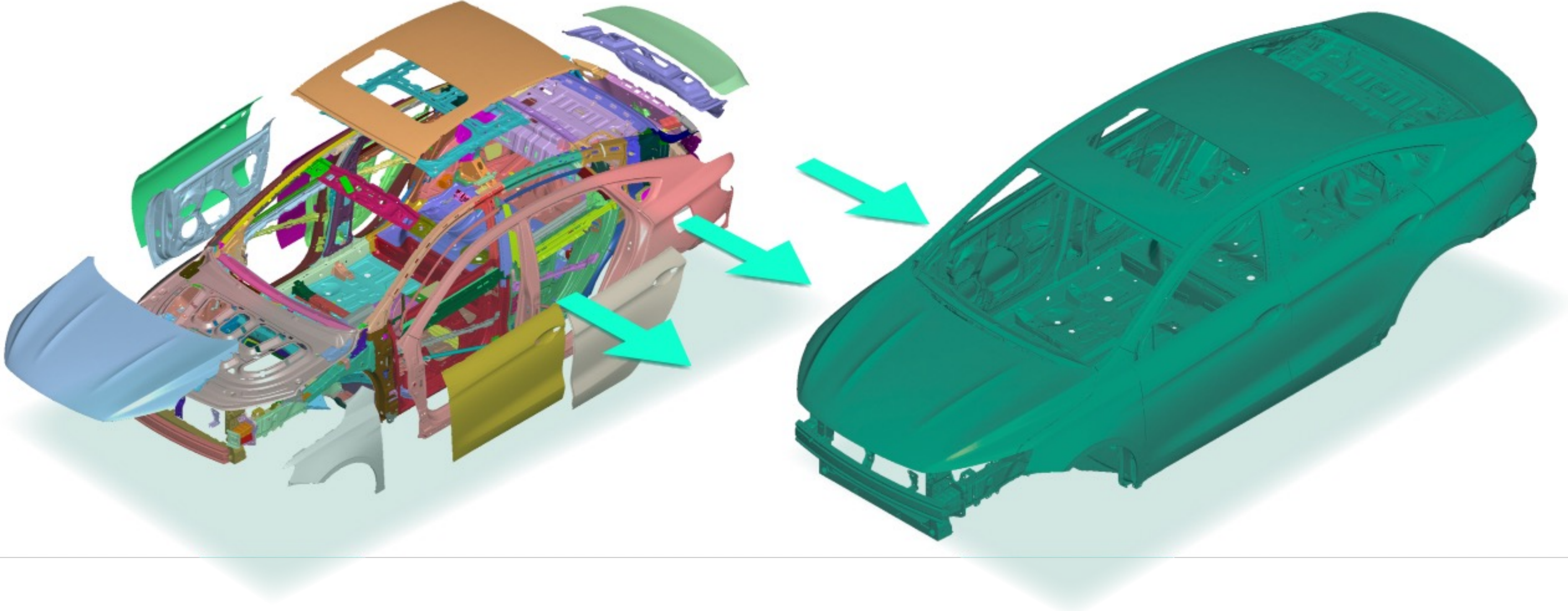


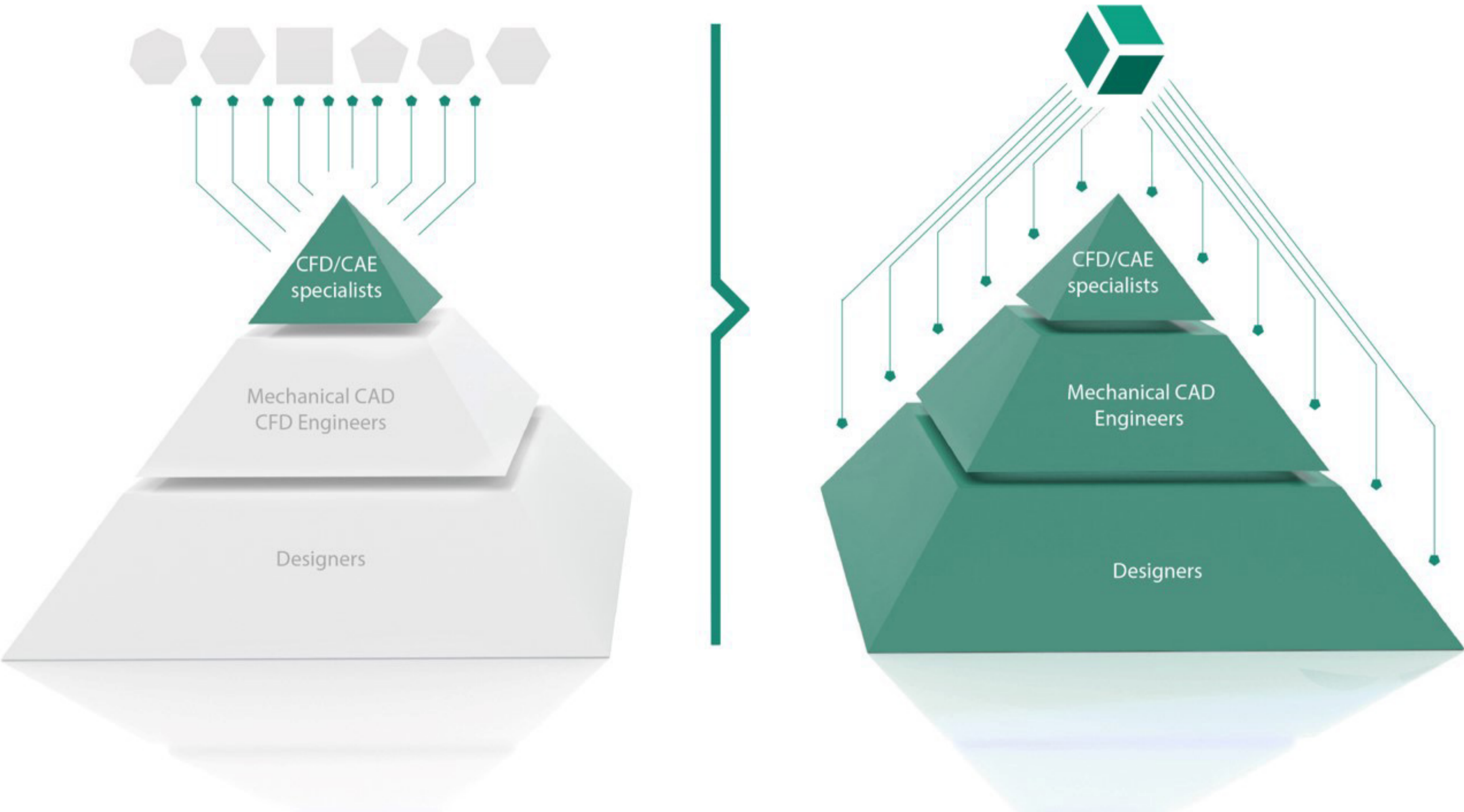
 alsim
Data Cleaning

Bridge **CAD & Simulation**
autonomously

NEXT GEN SOFTWARE SOLUTION FOR MESH PREPARATION



Introducing Alsim Vision: Democratize the simulation – CFD for SMEs



Main reasons for getting alsim Data Cleaning

Fully automatic
CAD data preparation

Watertight geometries
ready for simulations

Delivering optimized data
Autonomously with no need
Of deep knowledge of 3D software

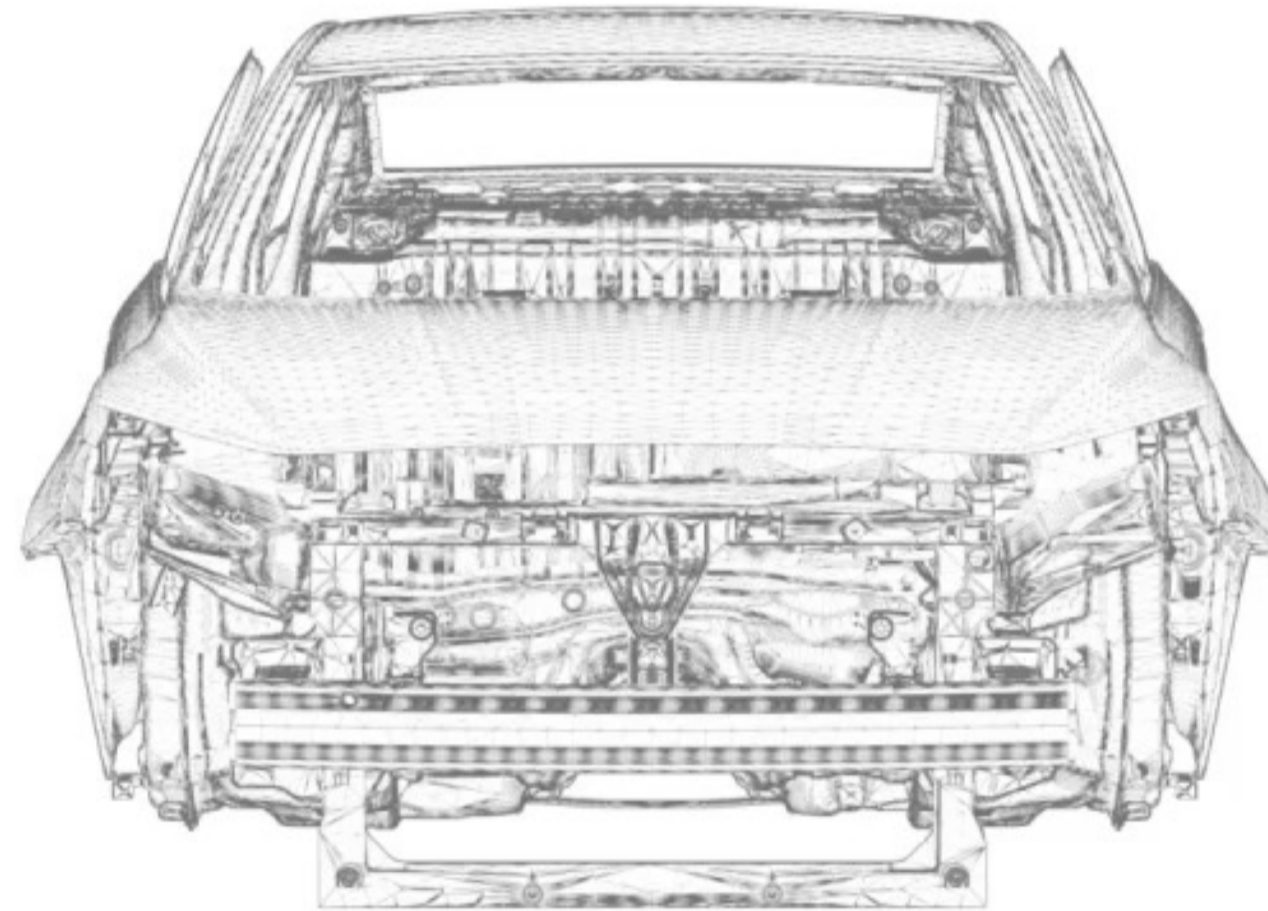
Manual Steps to prepare data for simulations can be tedious



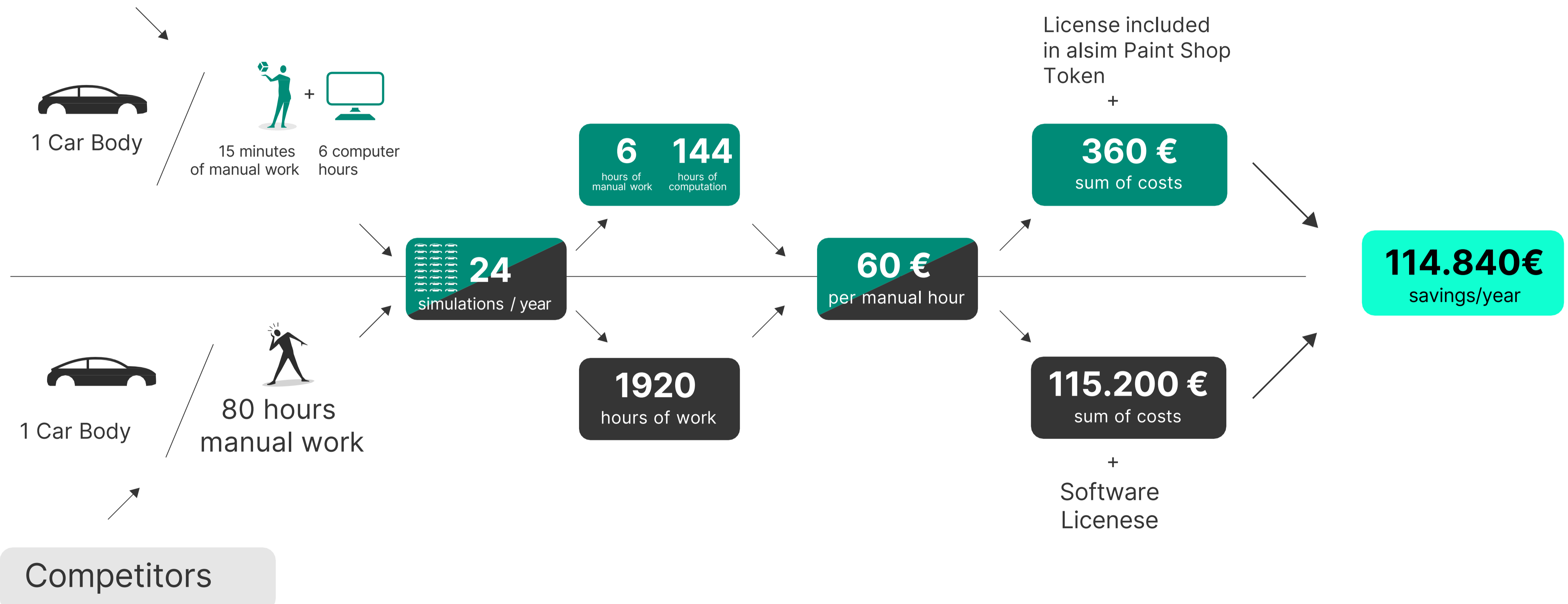
Alsim Data Cleaning offers fully automatic approach



The software was developed to optimize data for simulation.
It is impossible to reach such results by manual efforts.



Return of Investment



Competitors

Main reasons to use alsim Data Cleaning

Unique

Only autonomous **data cleaning** and **pre-processing** software world-wide

Functional

Makes **CAD** or mesh **ready** for **simulation**

Fast

Connects **complex mesh** **extremely quickly**

(e.g. body in white in about 6 hours)

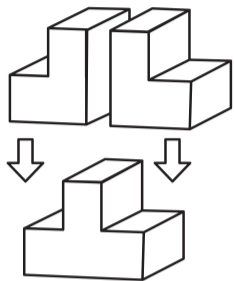
Versatile

A **wide range** of supported **formats**

(CATIA, NX, NASTRAN, FLUENT, STAR CCM+, OPENFOAM)

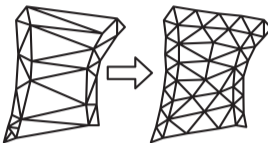
User friendly

A powerful command line with a **user-friendly GUI**



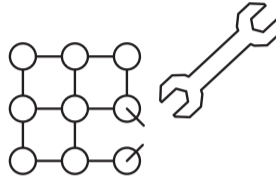
Merge

Merge different parts of the mesh to become one object



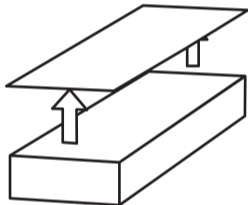
Remesh

Create a more efficient and smoother mesh



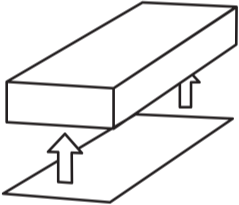
Repair

Repair broken parts of your mesh to ensure a valid outcome



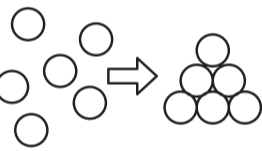
Sheet to Solid

Transform plane objects to solid ones



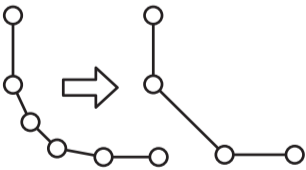
Solid to Sheet

Transform solid objects to plane ones



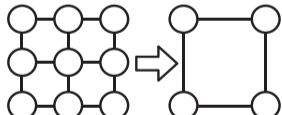
Prepare

Prepare your mesh for Simulation, printing etc.



De-feature

De-feature your mesh



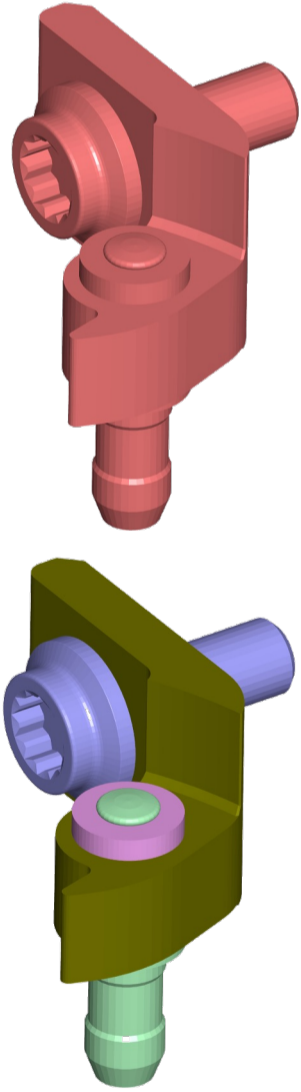
Reduce

Reduce your mesh to increase performance

Automatically performed operations of alsim Data Cleaning step by step

1

Split Parts



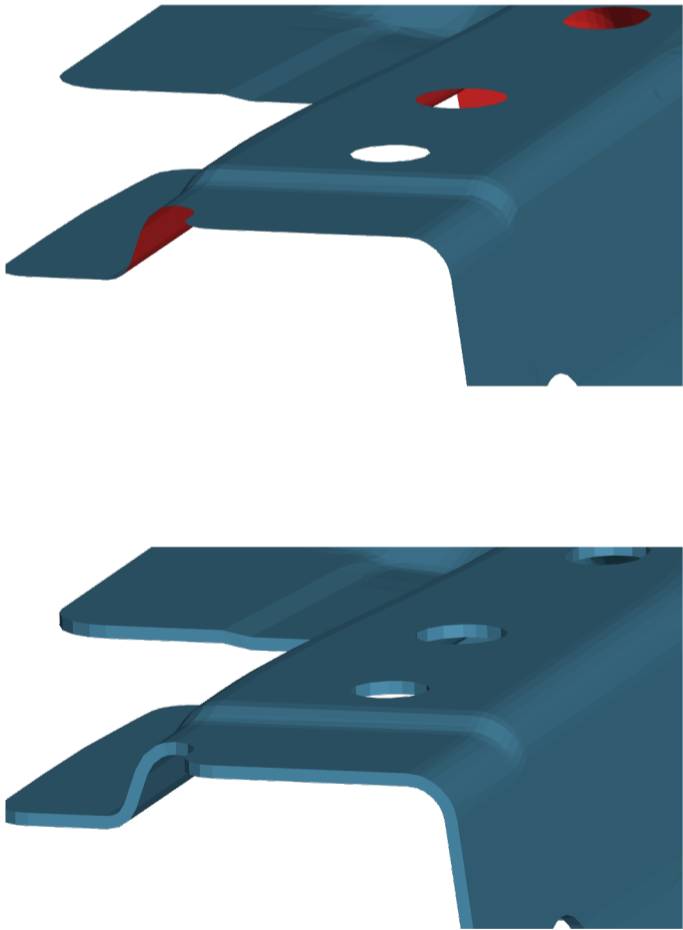
2

Remove Duplicates



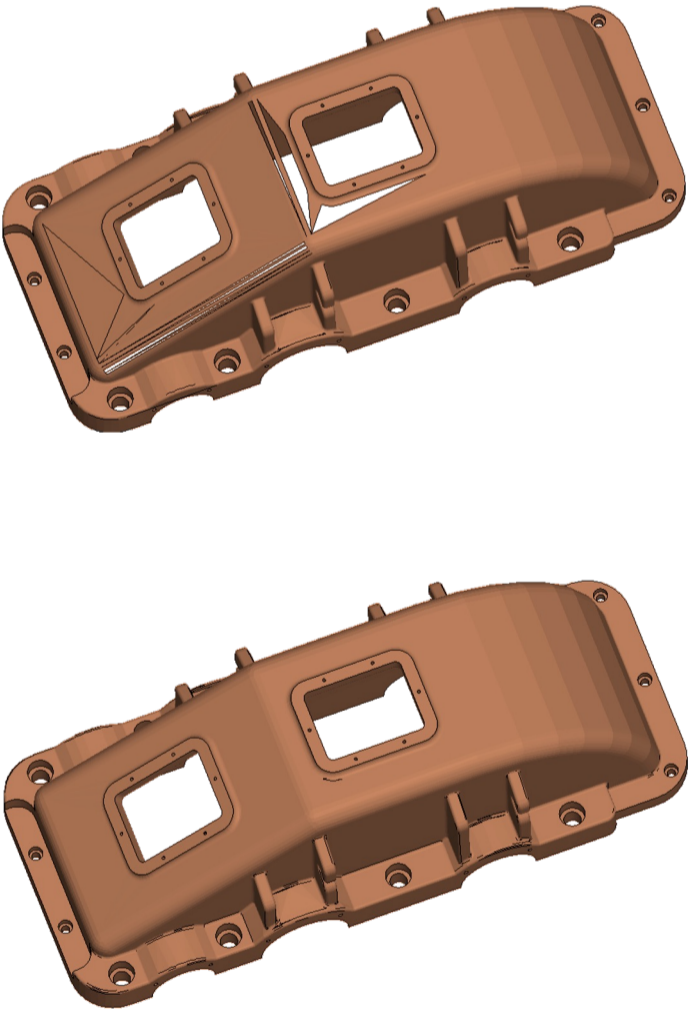
3

Sheet to Solids



4

Repair Solids



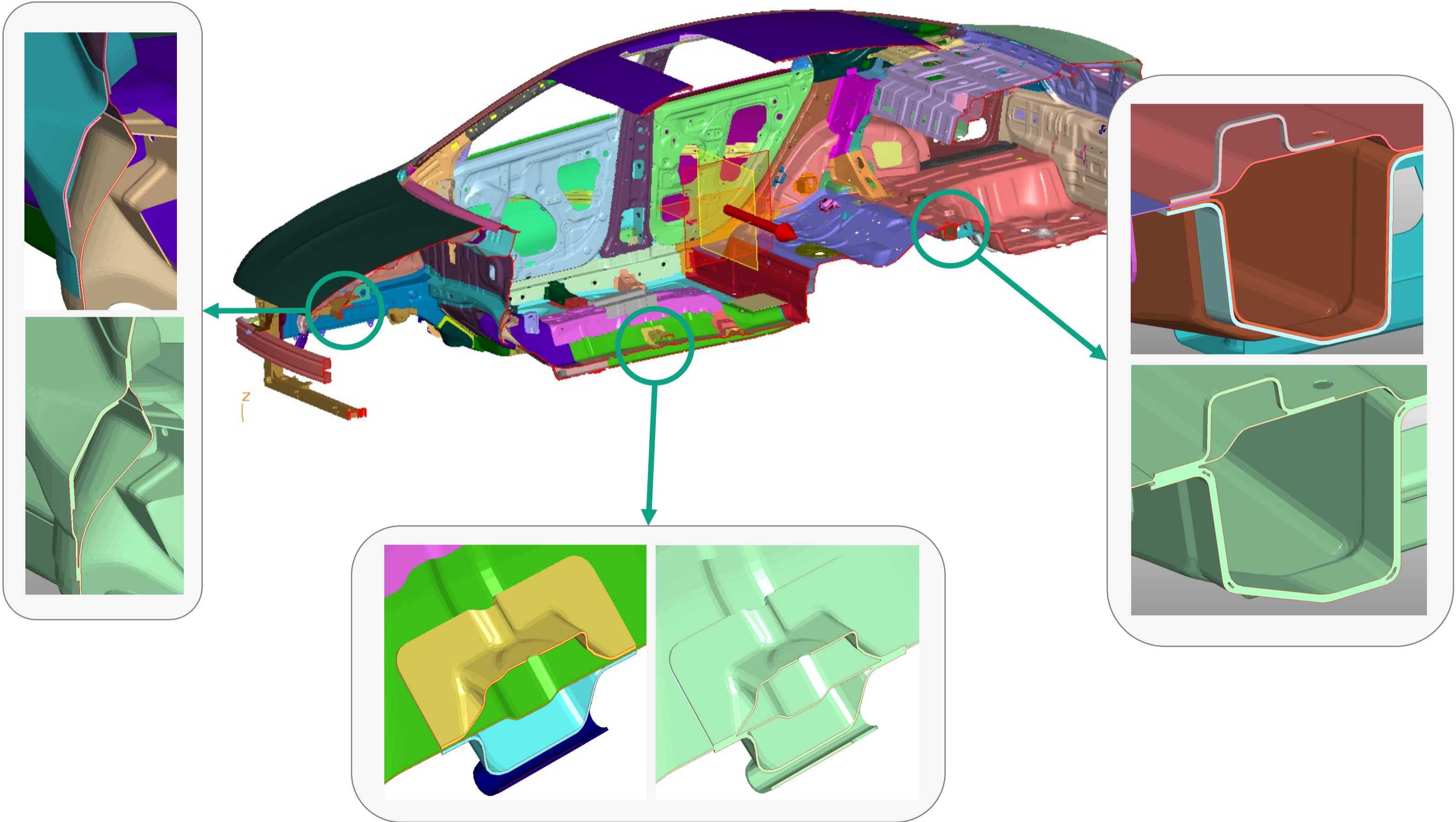
5

Merge Parts



Showcase: BIW Mesh for CFD in 6 hours automatically!

30 mins	Split
15 mins	Remove Duplicates
15 mins	Sheets to Solids
3 hrs	Repair
2 hrs	Connect
6 hours calculation time	



Thank you



Let's Work Together



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