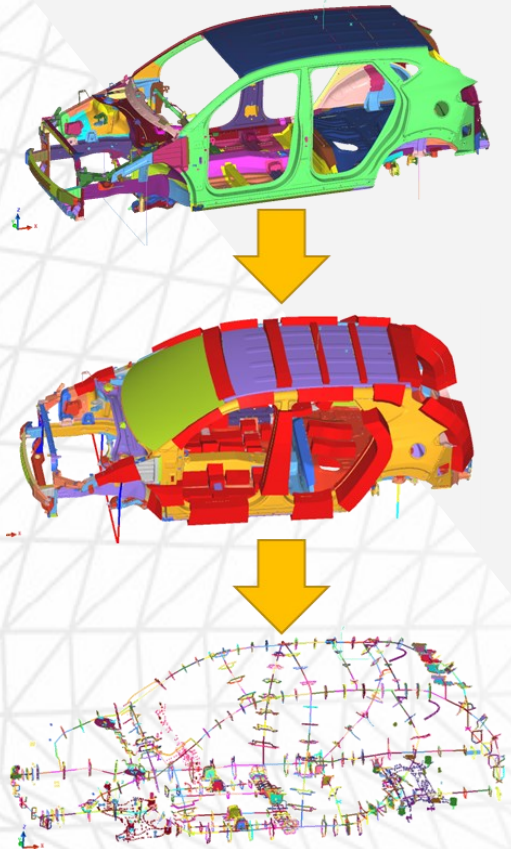
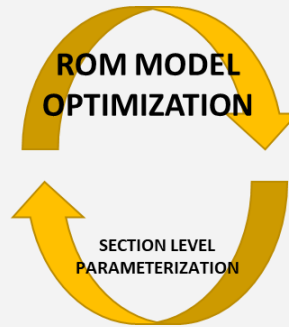
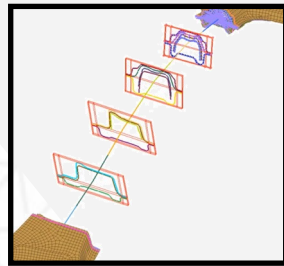


FROM 3D TO 1D



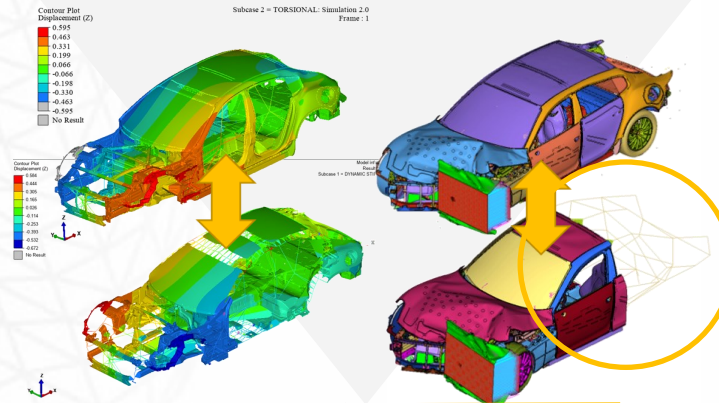
- ROM build & update duration is between 1 to 3 days based on level complexity
- At early stage of vehicle development, designer team can focus on customizing models for performance & lightweighting
- CAE team can benefit from autoperparameterization & optimization option for the complete family of ROMs & cross sections to create concept models



>90% correlation

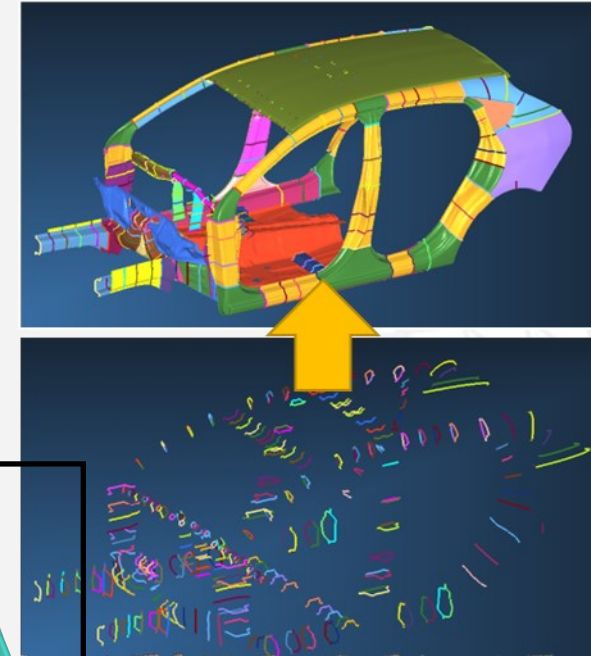
NASTRAN model reduced by ~60%

LS-DYNA model reduced by ~45%



ANALYSIS & OPTIMIZATION

FROM 1D TO 3D



- Drastic reduction of analysis run-time without compromising the detailed model build
- Lots of design iteration at rapid rate & subsequent optimization at lightening speed
- **DEP ConceptWorks** is highly automated to transform 1D optimized cross section into 3D FE model at very less efforts and reduced time
- Using **DEP ConceptWorks** capabilities, early conceptual design and development can be done without CAD data

- Highly automated 3D to 1D Beam creation tool
- Highly automated Joint creation tool
- Section synthesizers available for all 20 standard section elements to study various load cases
- Eliminates tedious design cycles of iterative model building for 3D models
- Auto parameterization of ROM models available



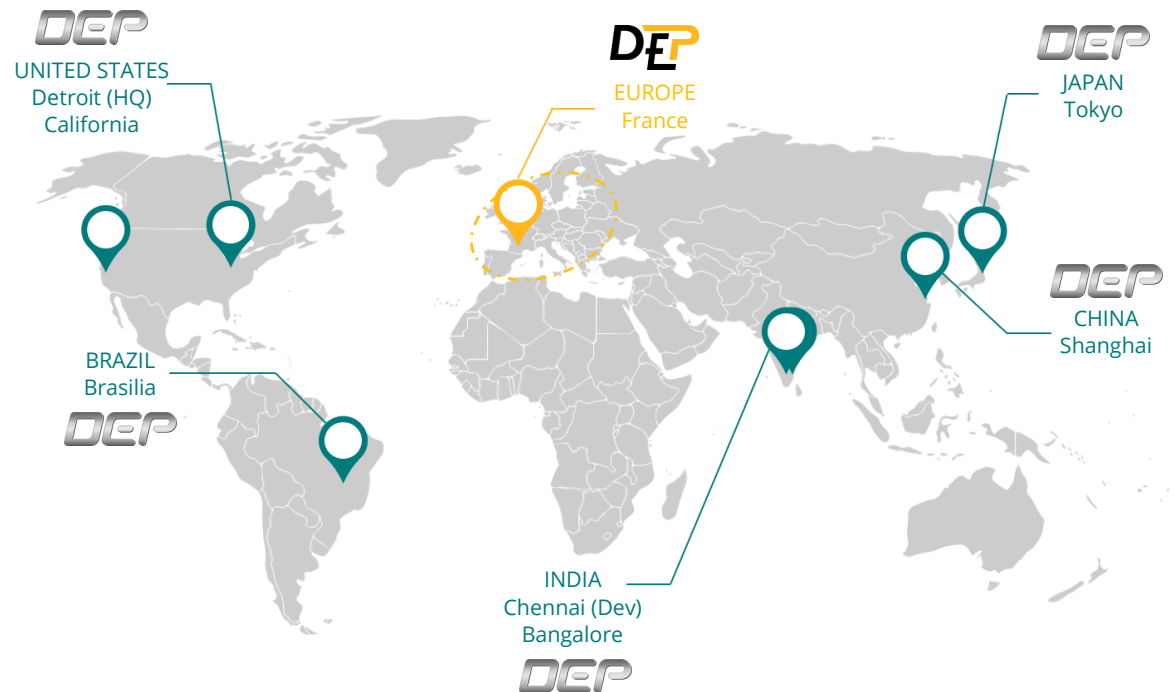
A software designed by CAE engineers for CAE engineers

DEP MeshWorks is a reference for morphing and design directly at the FE level on the market for 20 years.

DEP MeshWorks is an integrated CAE platform that accelerates the product development process. It contains a meshing engine combining performance and user-friendliness for an overall gain in productivity. It is a specialized software for rapid concept modeling, automated morphing at FE and CAD level, parameterization and optimization, involving rapid concept CAE and CAD model generation.

DEP MeshWorks is edited by Detroit Engineered Products.

More information at depeurope.com



Dynas+ Engineering Products is **DEP MeshWorks** Europe Technical Centre.

Dynas+ Group is a technical engineering group specialized in numerical modelling, which provides its customers (automotive, defense, aeronautics, space, consumer goods, etc) digital solutions to support and optimize the studies and development of their products.

Dynas+ Group choose **DEP MeshWorks** for its engineering departement, ensuring drastic time savings in all modelling workflows.

