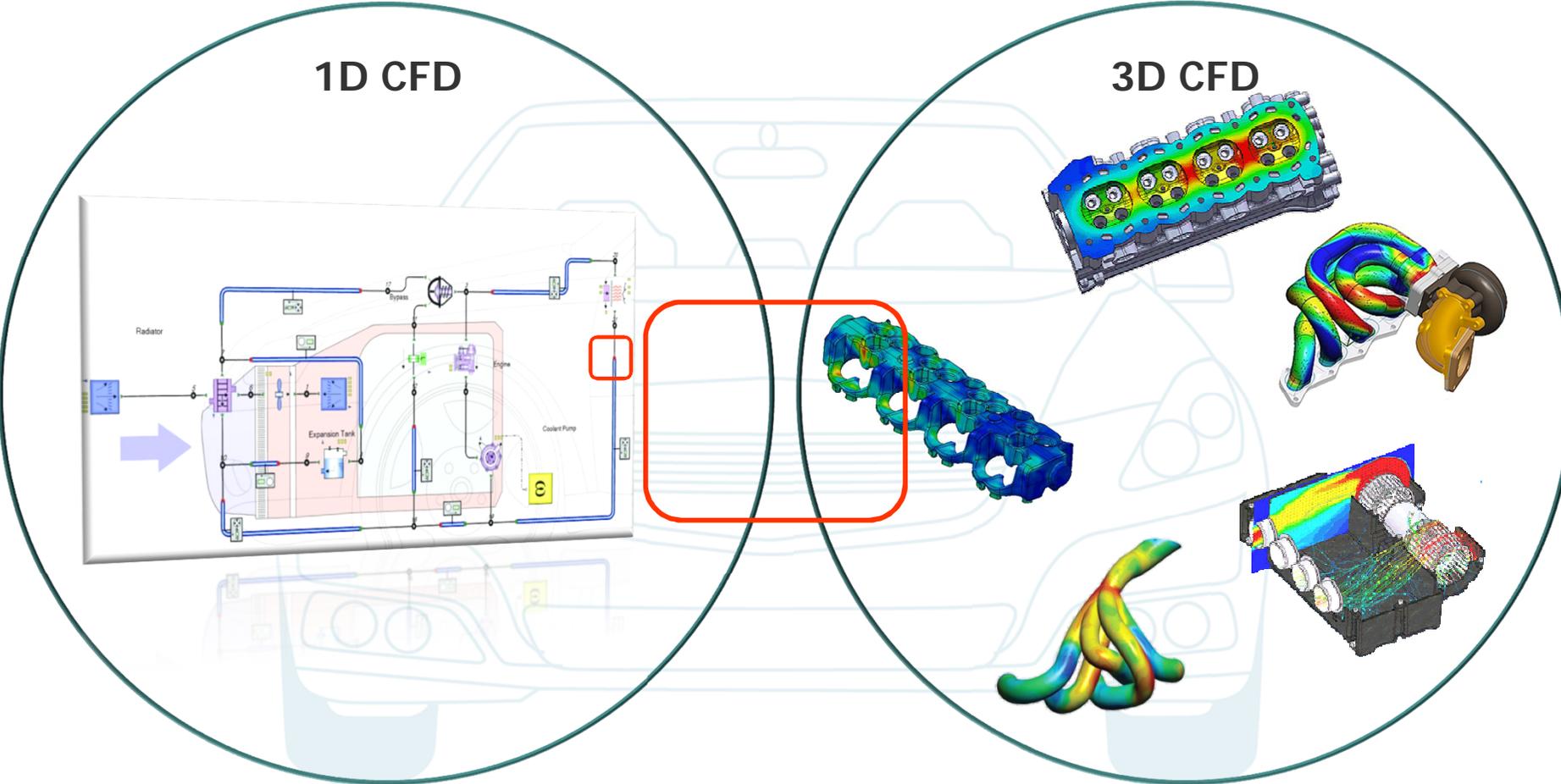
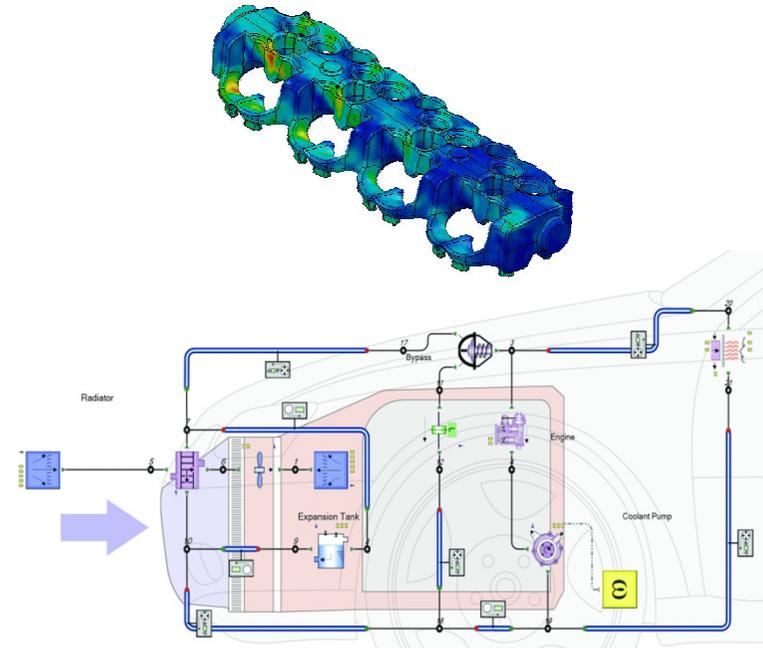


Industry's *First Ever* Commercially Available General Purpose 1D-3D Native CFD Solution



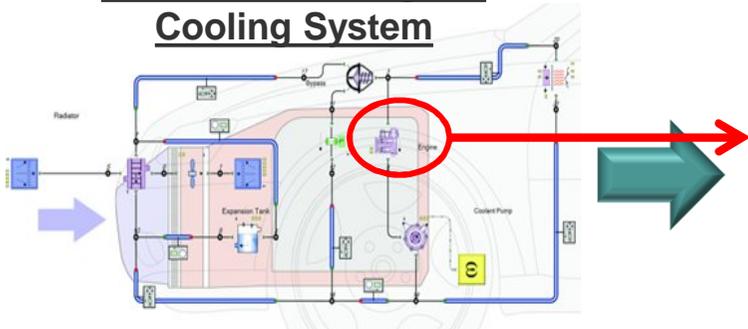
Facilitating Upfront Engineering

- FloEFD Concurrent CFD
 - Truly embedded in major MCAD packages
 - Always in tune with design
- Integrated 1D-3D Native Solution
 - No third party middleware
 - No configuration or customization
 - No compatibility issues
- Reusable
 - Characterization securely stored in Flowmaster's relational database
 - Can be reused in future models

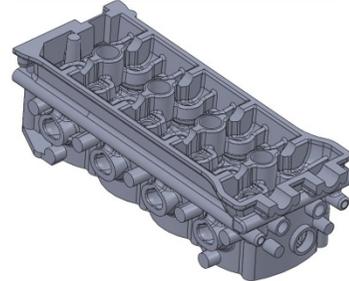


Powerful Upfront 1D-3D CFD Solution Enables Rapid Accuracy Improvements

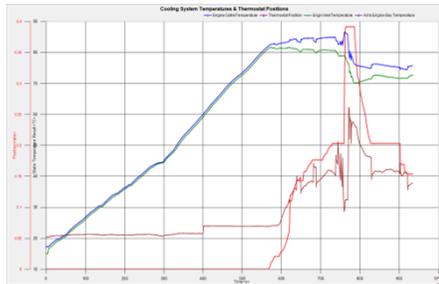
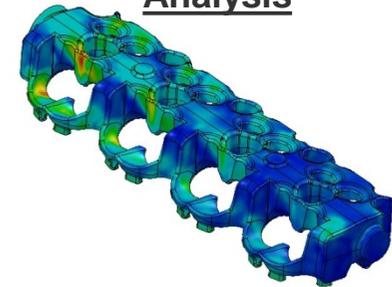
Flowmaster Design of Cooling System



3D Water Jacket Component Model

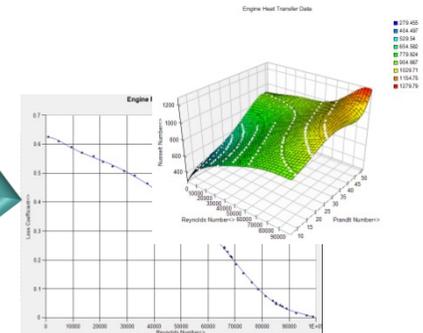


FloEFD Component Analysis



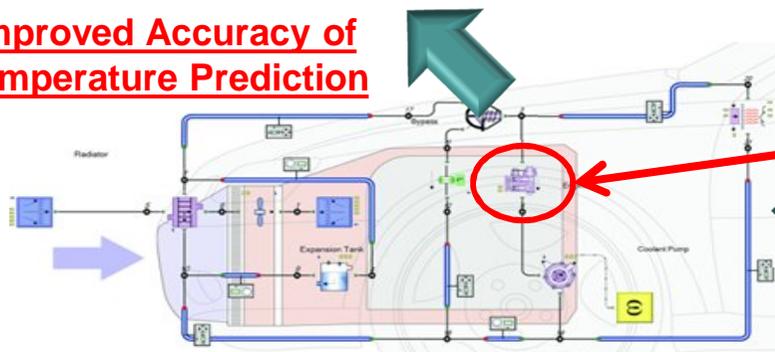
FloEFD Performance Based Engine Model

The FloEFD Performance Based Engine Model interface. It features a 3D engine model and a "Component Customisation Form" with a list of parameters: Engine, Identification, Solid Type, Mass, Initial Inside Temperature, Heat Flow Rate, Cross Sectional Area, Loss Coefficient, Contact Area, Use Dittus Boelter, Dittus Boelter Coefficients, Hydraulic Diameter, Thermal Capacity (Volume), and Pressure Loss v Velocity.



Characterization Results for System Analysis

Improved Accuracy of Temperature Prediction



Flowmaster Cooling System Analysis