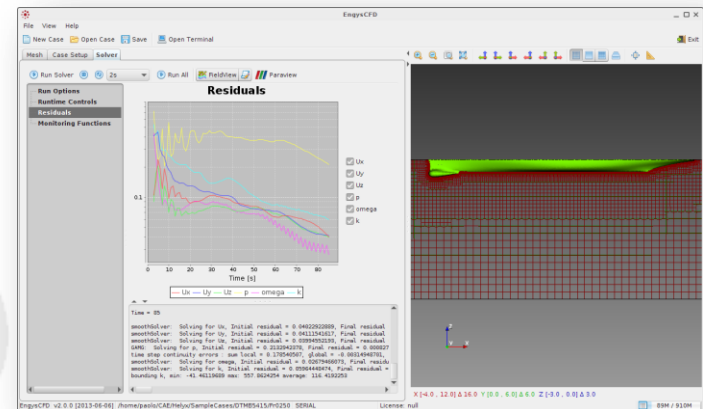


Introducing HELYX, a complete Open Source based CFD solution for Industry

Francisco Campos
OpenCAE Seminar
Japan - 21 June 2013

Helix



Engys' Products



Comprehensive CFD Software Solution

- Native GUI
- Engys' own enhanced Open Source code
- Modular architecture
- Expert user support
- Code maintenance
- Extensive written documentation
- Linux and Windows



Open Source Native GUI for OPENFOAM®

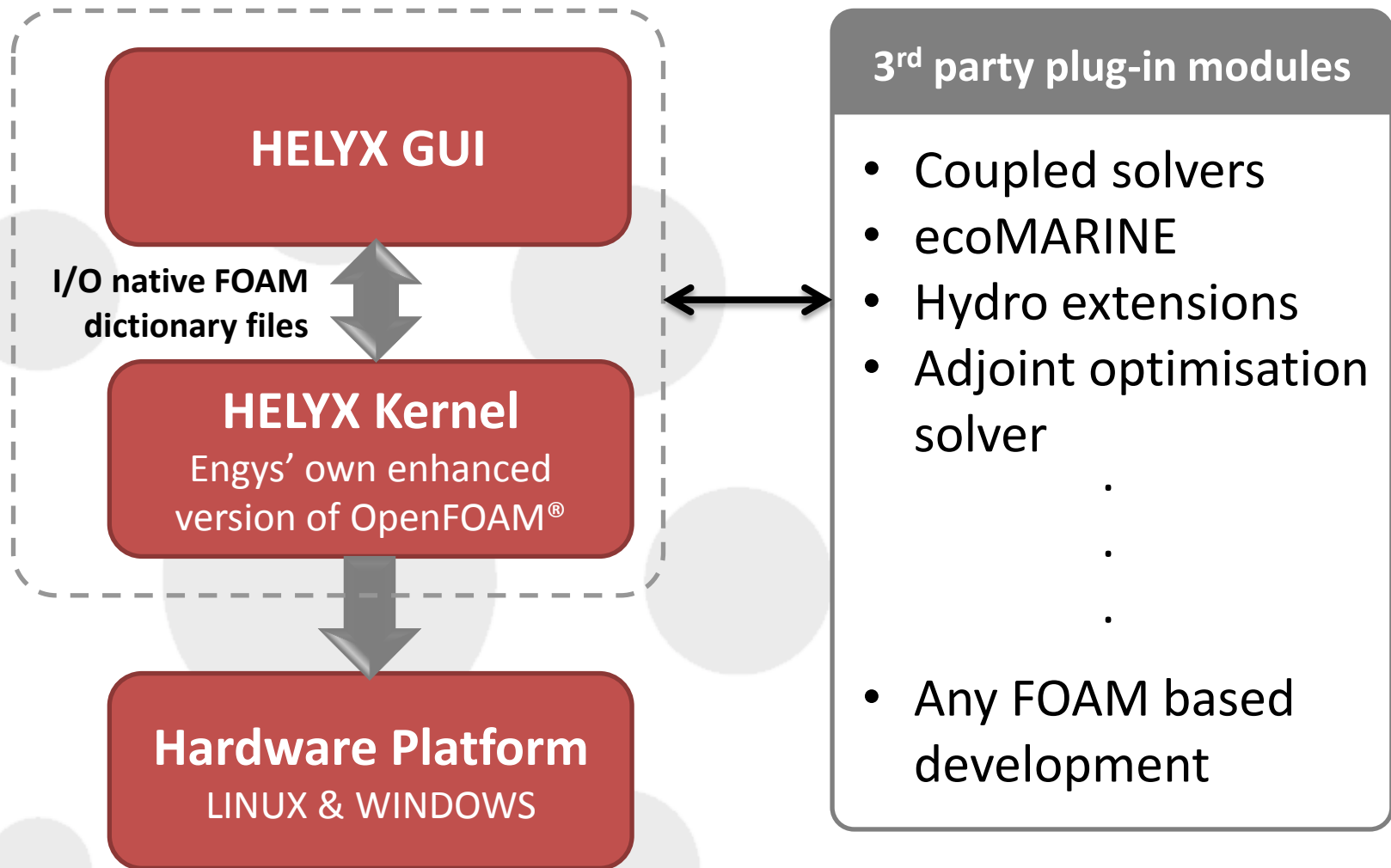
- Designed to work with OpenFOAM® 2.2
- Free to download via SourceForge
- Optional user Support and Documentation for paying customers



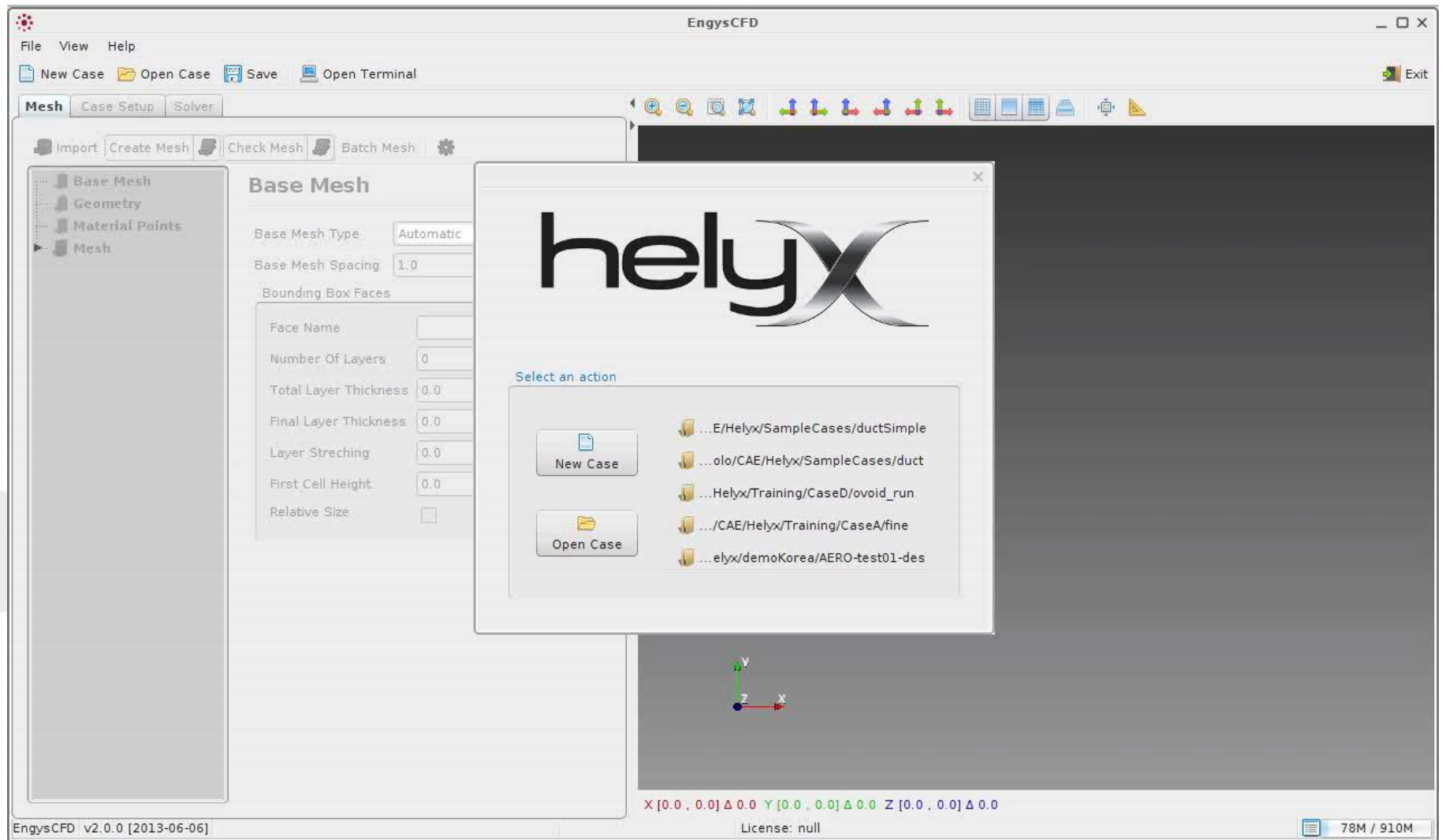
Advanced CAE Tool for Vehicle Design

- Developed by Engys and ARC (USA)
- Powered by HELYX®
- Embedded modelling best practices
- Fully validated (+100 wind tunnel tests)
- Full suite → CFD, design & visualisation

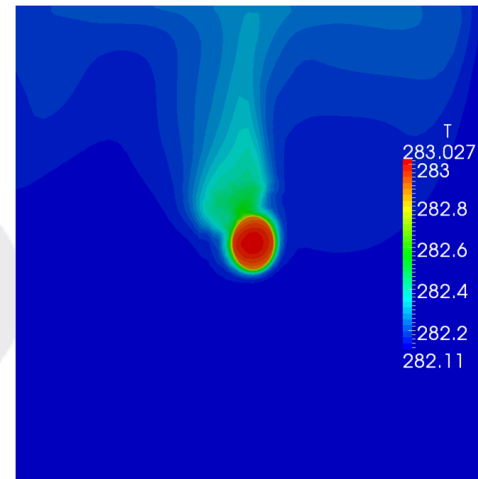
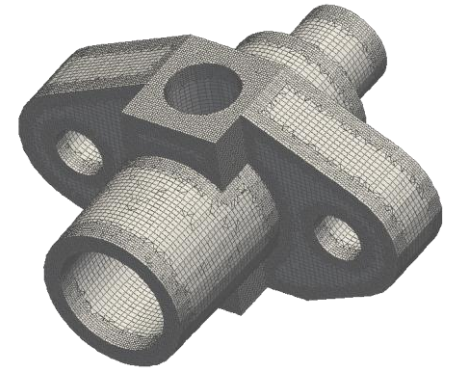
Helyx | Software Overview



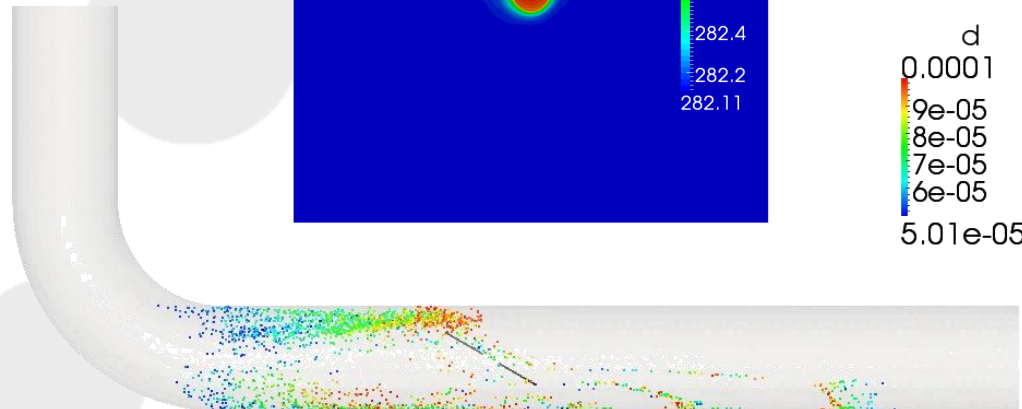
Helyx | Demonstration v2.0.0





- Meshing:
 - Improved feature edge handling
 - Distance-based edge refinement
- Modelling:
 - AMI / Dynamic grids
 - Coupled solvers
 - Multiphase flows
 - CHT support



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Helyx | Main Advantages

- First class user support (GUI + OS solvers)
 - Local Japan resellers / support  
- Maintained by FOAM/OpenFOAM® experts (developing FOAM since 1999)
- Linux and Windows execution (GUI + OS solvers)
- Fully validated methods
- Provided with extensive written documentation
- Highly scalable (no HPC licenses)
- Open to 3rd party developers (plug-ins)
- Great value for money!

Questions?

THANK YOU!