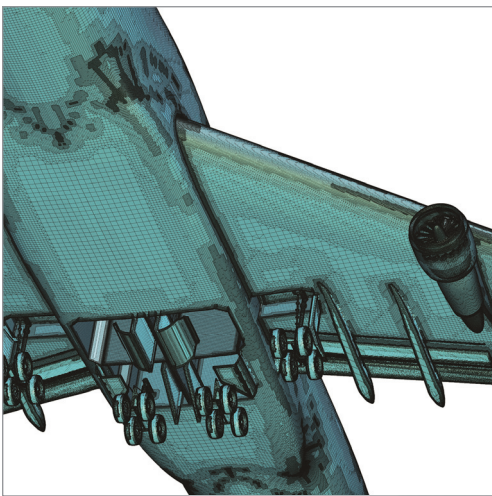# CFS

Cambridge Flow Solutions Ltd offers advanced software and solutions for complex CAE applications. With an extensive, specialised background in aerodynamics, combustion and turbomachinery we have developed significant domain knowledge covering aerospace and the automotive, energy and environment sectors.
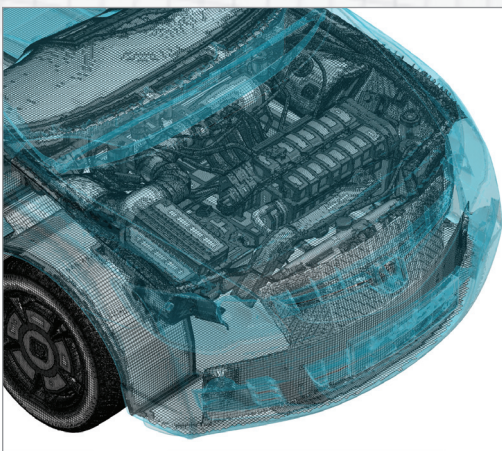

Philosophy

Our core business has always been to add value to our clients' CFD/CAE process chain and to augment their capabilities. Building on our deep technical knowledge and experience, our approach centres on addressing the key aspects that condition the simulation process:

- **Removal of bottlenecks:** to overcome the constraints that prevent rapid and effective simulation within industrial design and analysis environments.

- **Integration:** to create highly automated software within integrated workflows which promotes efficient, multidisciplinary simulation across all business areas.

- **Parallelism:** to offer products and solutions based on fully parallelised and scalable software for rapid turnaround.

- **Robustness and quality:** to deliver high-quality and robust simulation workflow on geometries of arbitrary size and complexity.

Product

Our philosophy is reflected in our software products. BOXERMesh is an advanced, highly automated unstructured mesher with robust CAD import, that delivers multi-million cell meshes in minutes on geometries of arbitrary complexity and detail. By removing the bottlenecks in the CAD to solution process, BOXERMesh provides a step change in simulation capability and productivity.
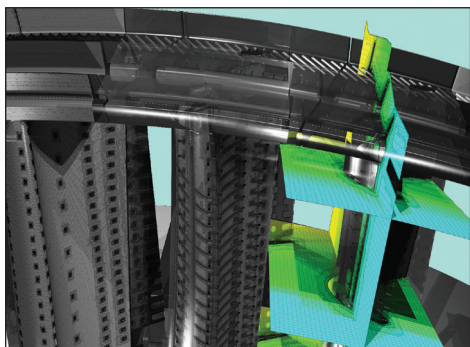

BOXERMesh

- Fully parallelised and scalable
- High speed meshing
- Highly automated
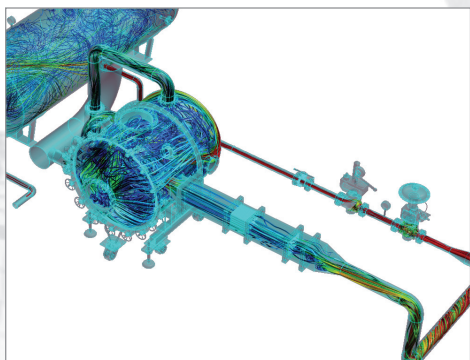- Quality assured
- Robust CAD import

Partnerships

Whether it is our software products, a consultancy requirement or a more intense collaboration, CFS has an approach to satisfy your specific objectives. We provide this through various levels of partnerships, tailored to your needs. Through these partnerships, your organisation gains access to the latest CFS technical products and to CFS's turnkey development resources, providing a significant advantage over generic COTS software.
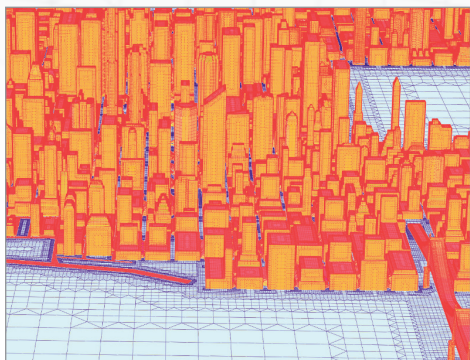
Development Partnership

An intense collaboration, with full engagement of CFS personnel with your organisation, sharing common objectives. Typical funding horizons of several years are set against an evolving strategic plan. Benefits include full access to source code and unlimited user/seat/site licensing within your own immediate organisation.

Application Partnership

An intermediate level of engagement, providing your organisation with access to customised source code specifically developed to your requirements, with CFS core software provided via binaries. Funding for this interactive partnership is typically on the scale of 1 to 2 years. Application partners benefit from access to free binary software for the duration of the partnership – and a 50% discount for two years beyond.

Geometry courtesy of Dr Qiang Zhang of University of Michigan - Shangai Jiao Tong University Joint Institute

Licensing Partnership

A simplified level of engagement, in which our products are licensed to your organisation on an annual basis. This includes full support and the opportunity to feedback into CFS development plans. Recognising the reality of PC clusters and multi-core CPUs, our licensing structure is particularly favourable to large parallel computing resources.