



Instantaneous FEA, CFD and Thermal Analysis

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Your Speaker



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DEMO

Come and see us on Stand H26



Agenda

- Origin – Brief Background
- Why Simulate Earlier in Design Process?
- Current State of Simulation
- Ansys Discovery Overview
- Wrap Up & QA



Introduction



Who are Origin



Around 200 Customers



100 % Focused on
Design/Simulation for
Manufacturing



Software, Support &
Training



Official Ansys Partner

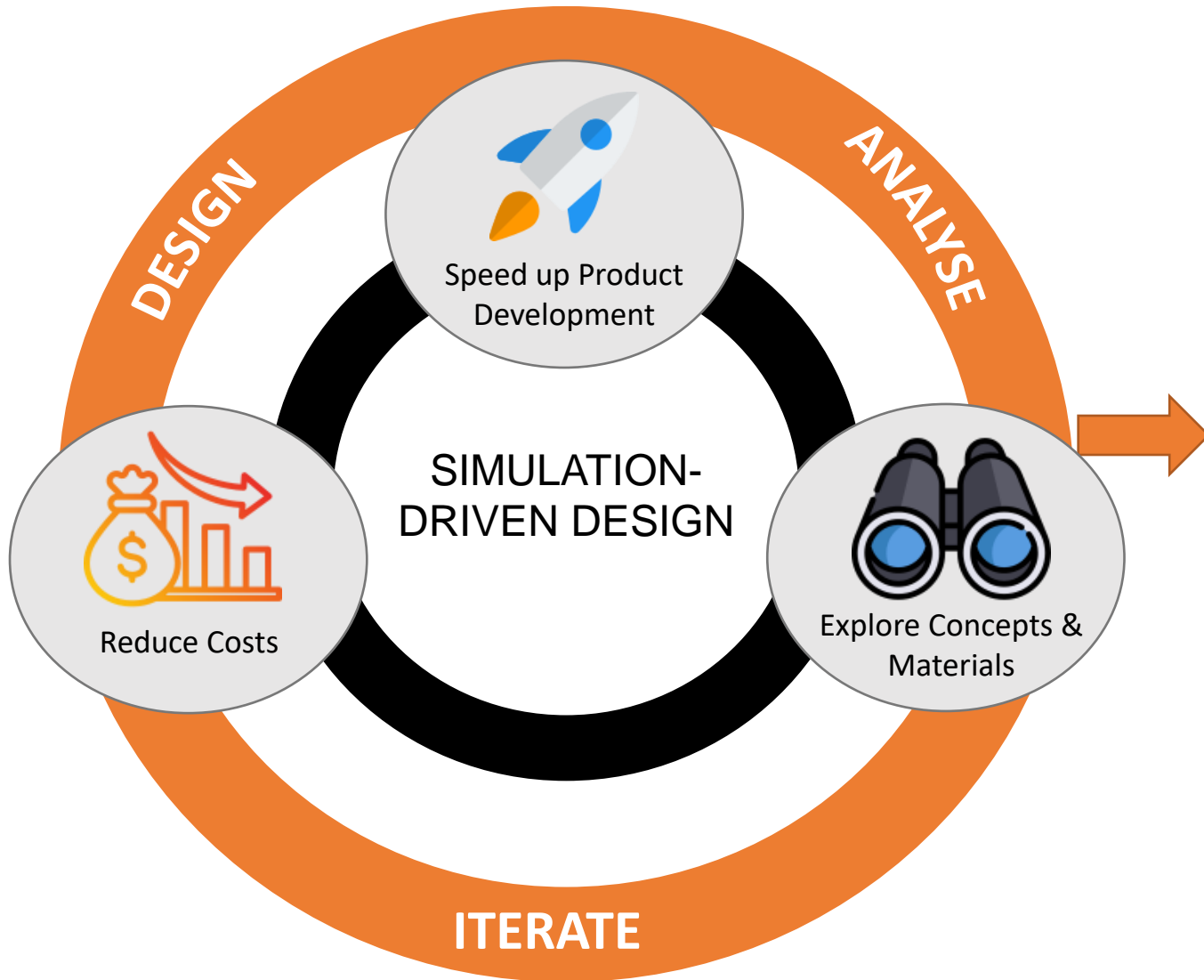


Focused on UK & Ireland



Focused on solutions with
low TCO

Advocates of Simulation Driven Design



Choose the best materials balancing cost and quality and optimise material usage

Enable Designers to make the best decisions

Reduce cost of prototypes/Physical Testing

Streamline design workflow between Design/CAE

Differentiate/Win More Business

Challenges V Opportunities



Training for New Users

Traditional simulation tools were hard to use and simulations took too long.



Bottleneck

Limited resources lead to lengthy turnaround for simulation results.



Missed Opportunity

Most of the development costs are earlier on, rework later on is more time consuming and expensive

The State of Simulation

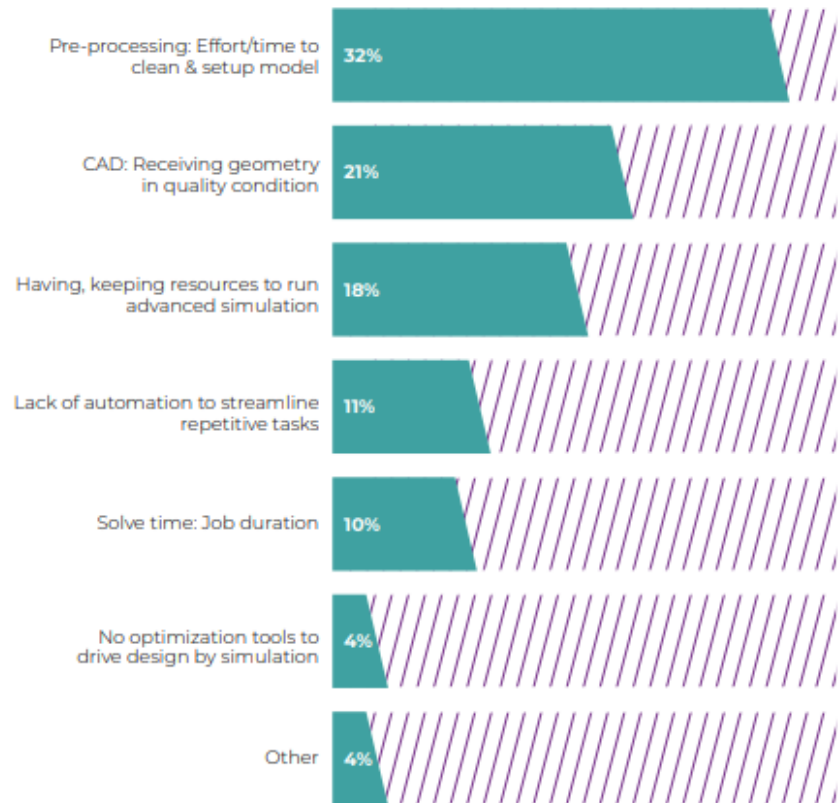
Prototyping and Validation
Engineering.com



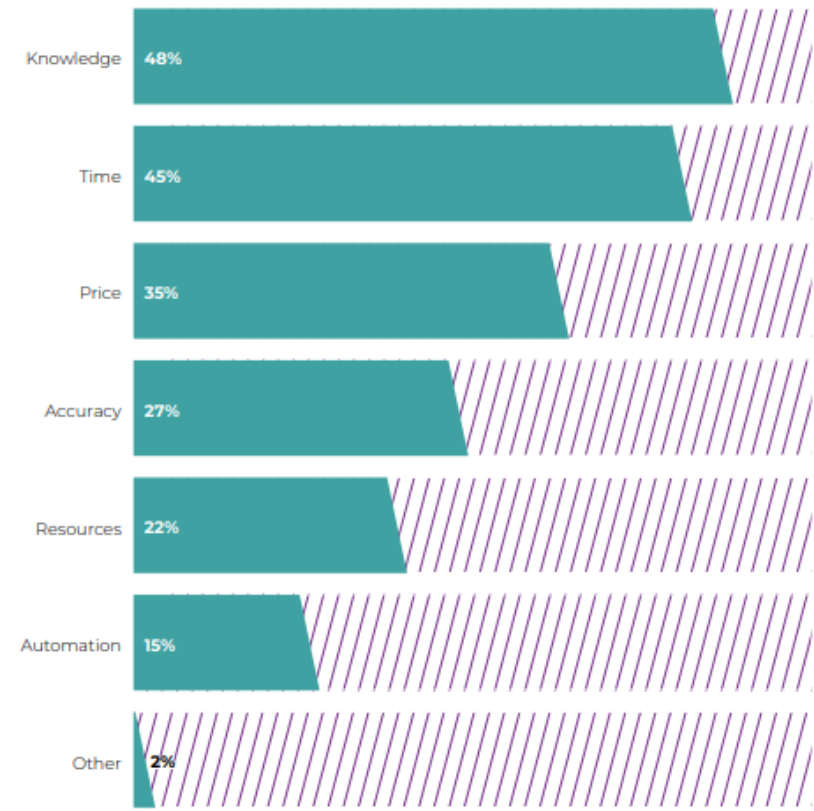


Pain Points and Obstacles to Simulation

Pain Points of Simulation



Obstacles to Simulation

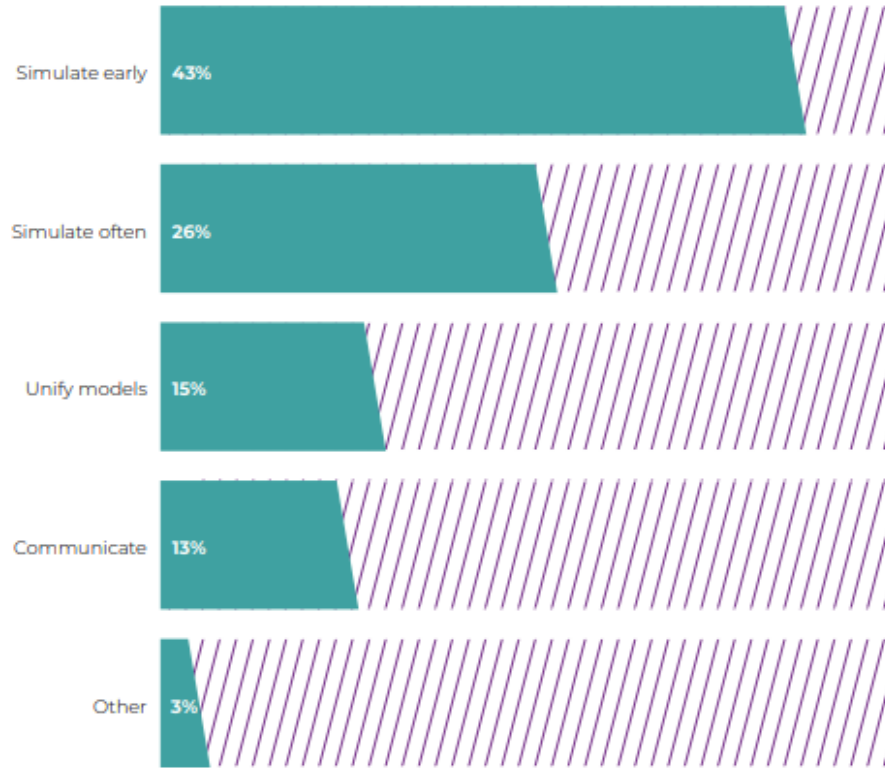


Source: Engineering.com – The state of simulation

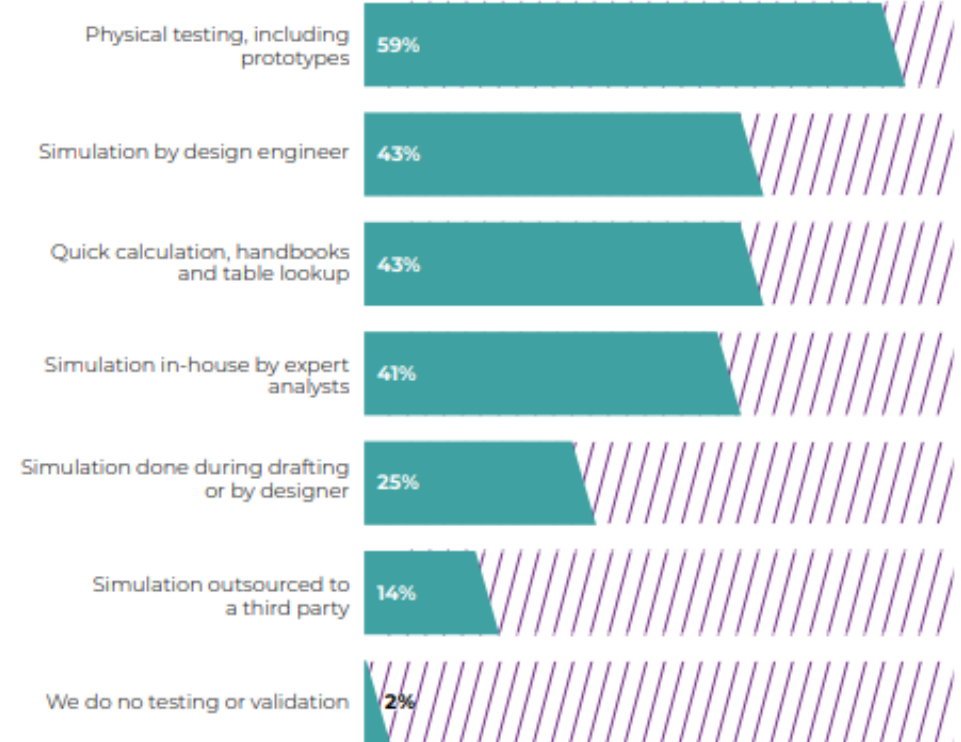
Improving and Validating Design



Improving and Streamlining Design

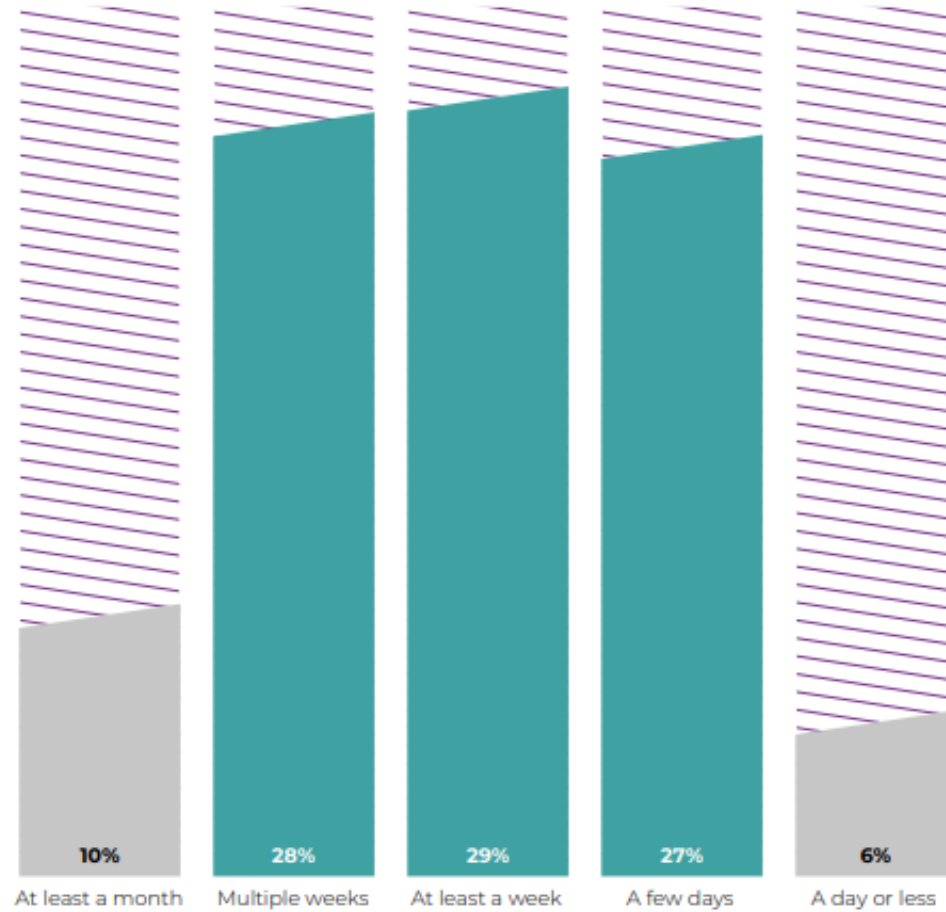


Most Popular Ways to Validate Design



Source: Engineering.com – The state of simulation

Wait Times



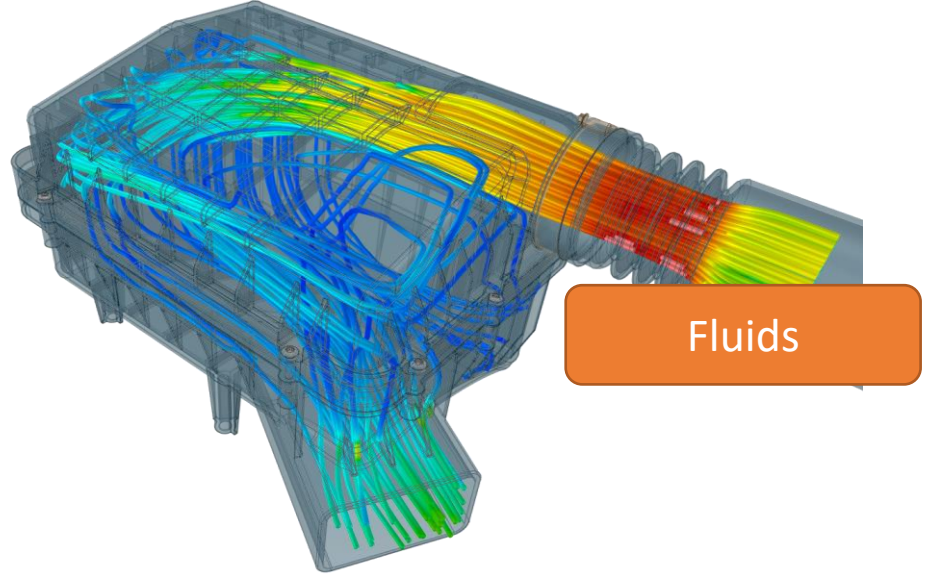
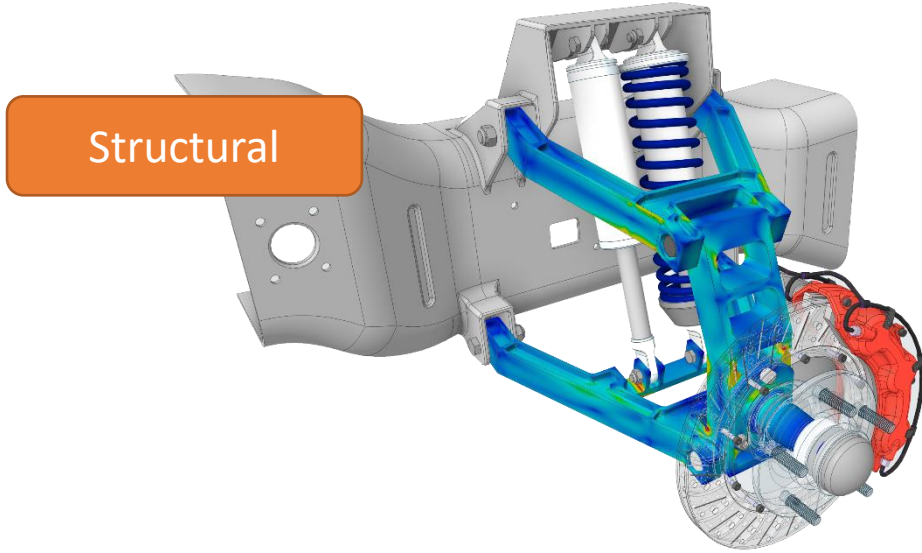
Source: Engineering.com – The state of simulation

Ansys Discovery

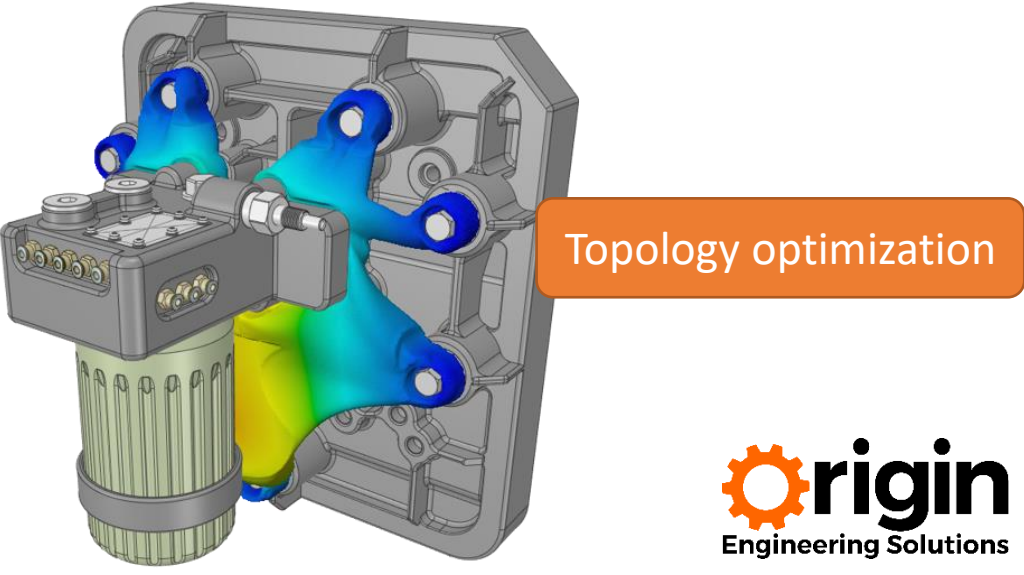
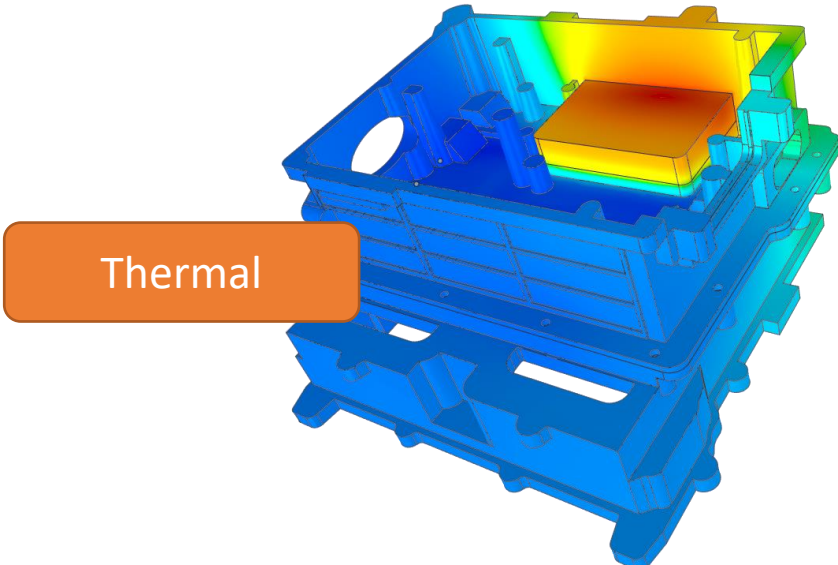
The Solution



Multiple Physics – One License – One Tool



Ansys
Discovery



The Workflow



Import or create geometry

Import almost all file types
or create geometry



Prep Geometry

Quickly amend geometry
or de-feature the model



**Set Materials and
Conditions**

Select materials, loads,
inlets/outlets etc.



**Feasibility/Design
Exploration**

Rapid simulation and
Automeshing



Full Mesh Control

Option to completely
control the mesh

Demo



Wrap Up



Summary



Suitable for all skill levels

Designers and CAE experts alike can use the simulation tool. A high level of flexibility and simulation options.



Nice looking UI

A nice looking tool makes it a pleasure to use! Irrespective of the complexity of the solvers and what's under the hood.



A complete solution

Full 2D/3D Drawing package, open native CAD filetypes, FEA, CFD and Thermal Simulation as well as Topology Optimisation

Engaging With Us – Head over to H26



Tailored Demonstration

More Detailed Demonstration using some of your own data so you can understand how simulation could benefit your business.



Free Trial and Complimentary Consultancy

All attendees are able to take a 30 day trial of the solution to validate the benefits. We will also provide 1 hour of consultancy to get you up and running.



Build Business Case

Once you have validated that the solution will meet requirements we can assist with helping to put a business case together for purchasing the solution.

Thankyou! Time for Q&A



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