



SIMULATION SOLUTIONS



OPTIMISED ENGINEERING DESIGN CONFERENCE

Solihull - The National Motorcycle Museum



TRIMECH GROUP

TODAY'S AGENDA

09:30	Opening Remarks	Martin Gambling – TSS
09:40	OED 2025 – Conference Introduction	Oliver Tomlin – TSS
10:00	Engineering for the Neutral Body Position while meeting Seat Performance and Comfort	Dave Withey – Jaguar Land Rover
10:30	Insights into the Role of Structural Simulation in F1™ Engineering	Pedro Sousa – Vast Leap Engineering
11:00	Coffee Break	
11:30	New Features and Development Preview of SIMULIA & TriMech Software	Martin Gambling –TSS
12:00	Developing a Composite EV Formula Student Race Car	Sean Mitchell, Coltrane Kamikura, Sam Mussett – Oxford Brookes University
12:30	Lunch and Museum Tours	
13:45	Go-Kart Agility: Driving Decisions from a Unified Information Hub	Richard Earley – TES
14:15	Maximising the Efficiency of the Novel Shield Blade Compressor, through Simulation & Engineering	Chris Burton – Shield Manufacturing Technologies
14:45	Coffee Break	
15:00	Engineering Survival: The Role of Simulation in Defence Vehicle Protection	Lee Palmer – NP Aerospace
15:30	Multi-Functional Property Optimisation of an Adidas Football Boot using SIMULIA Abaqus & TOSCA	Jeong Ro Lee – TSS
16:00	Conference Concludes	





OPTIMISED
ENGINEERING
DESIGN

SOLIDSOLUTIONS

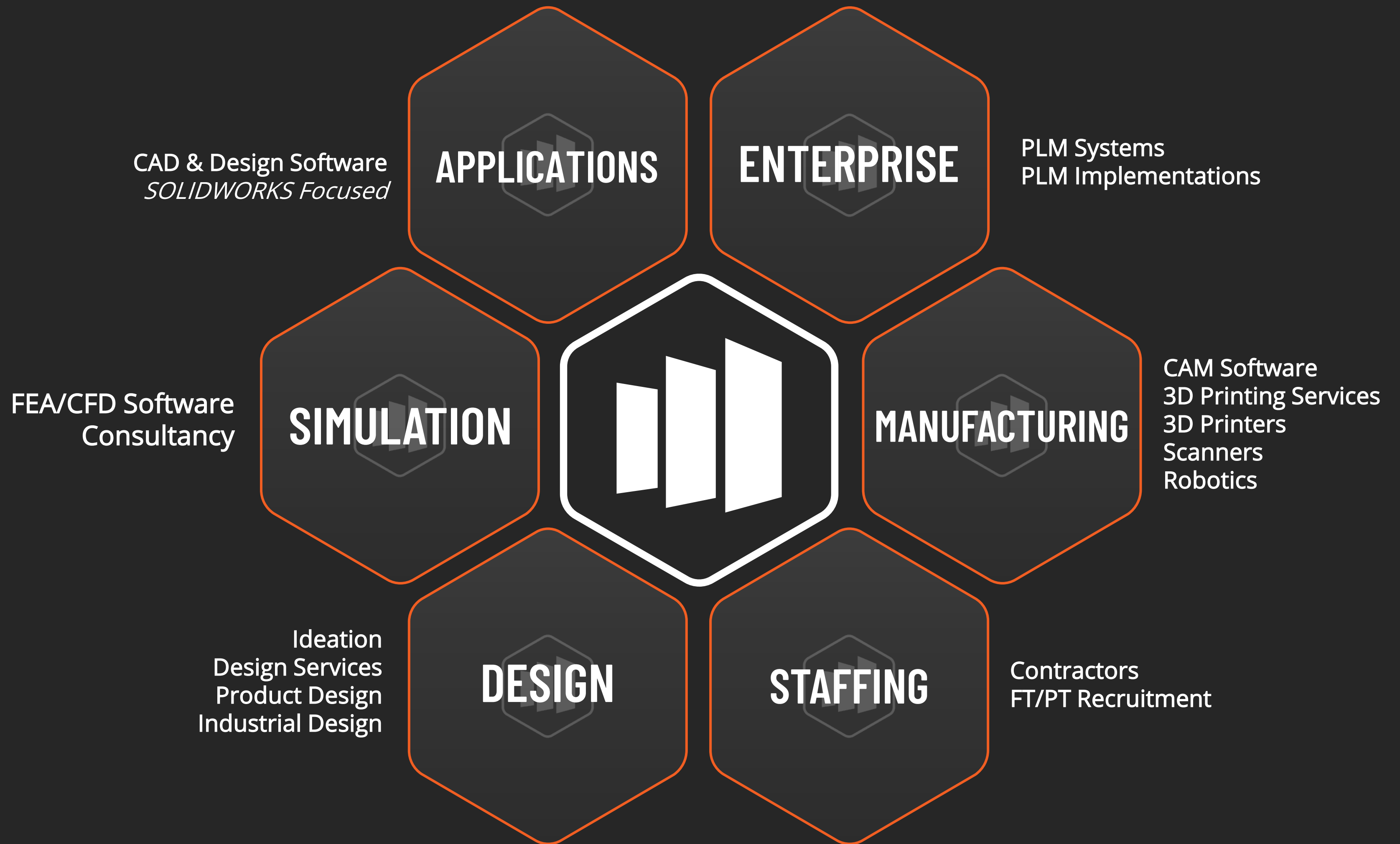


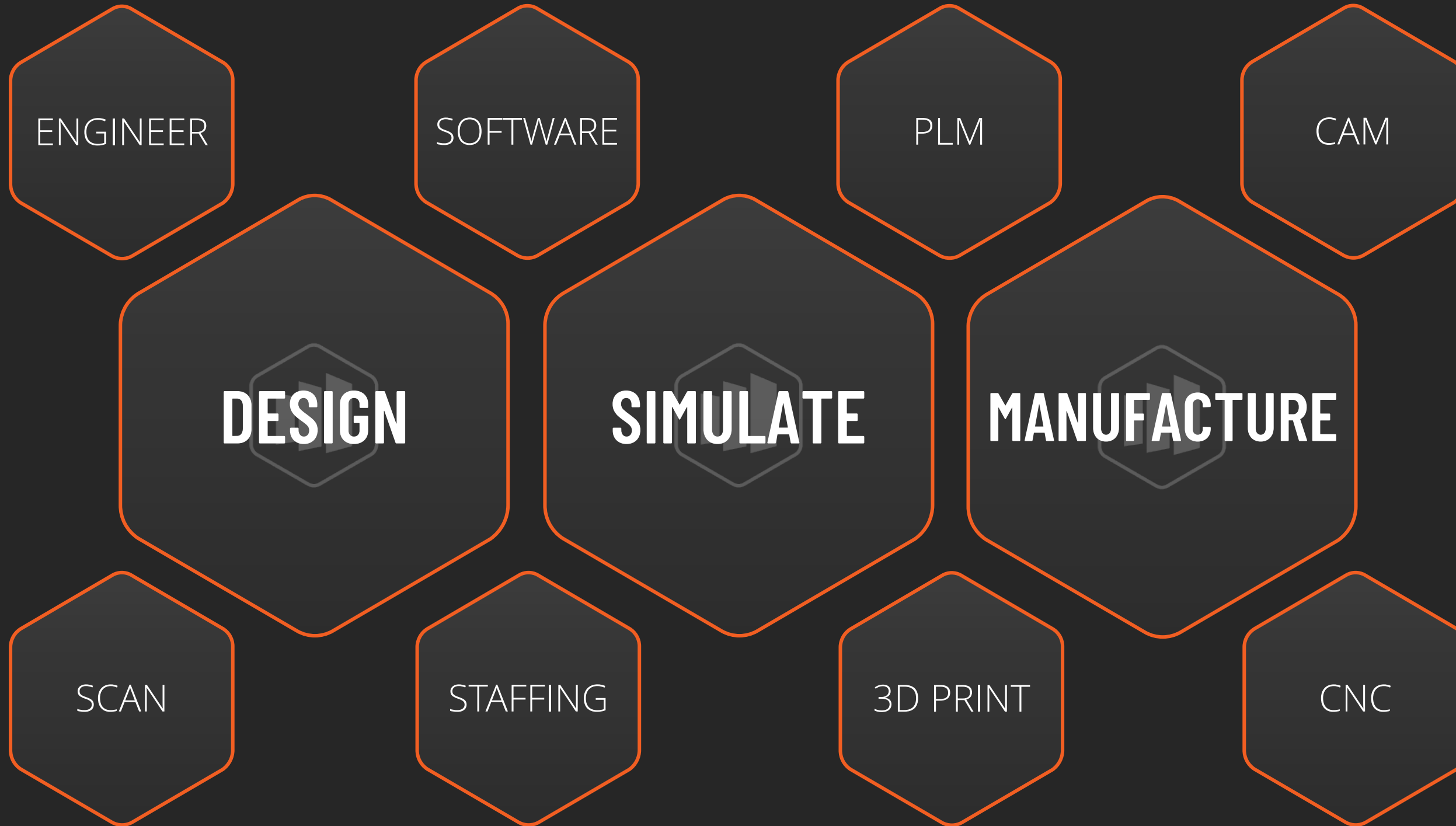


SIMULATION SOLUTIONS









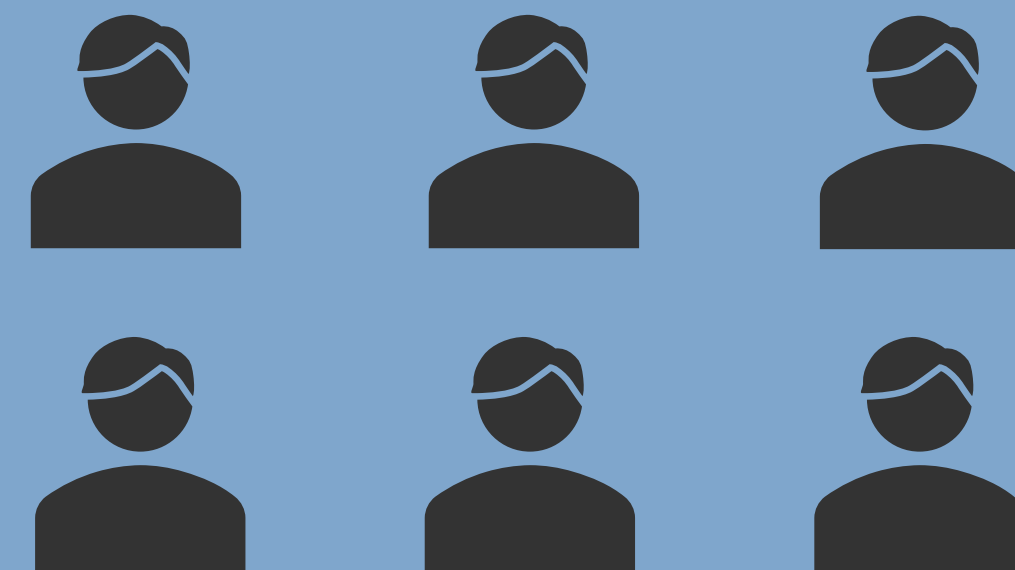
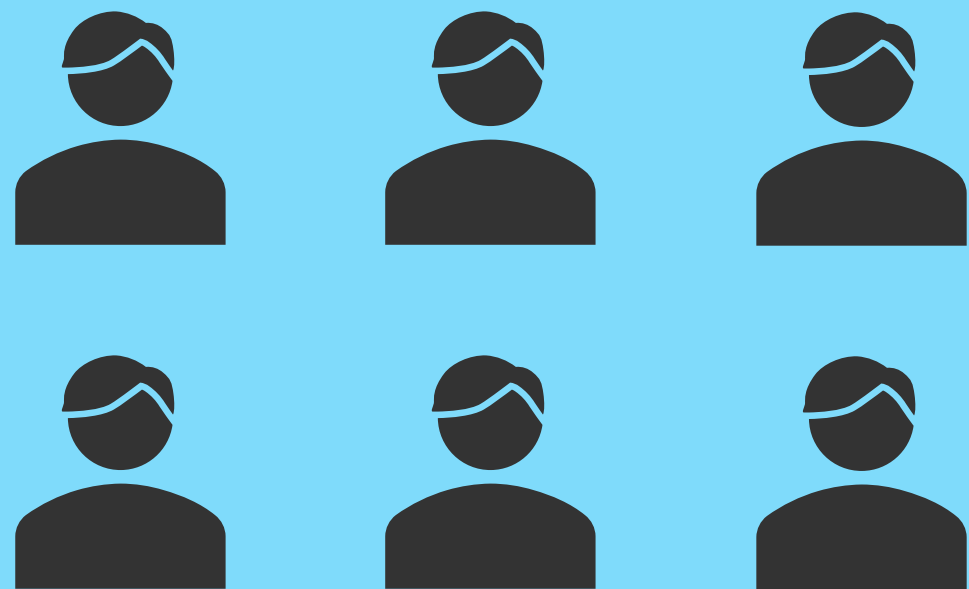


SIMULATION SOLUTIONS

Buy Software

Engage Service

Open-book
Consultancy





SIMULATION SOLUTIONS



SOFTWARE SALES

SIMULATION SERVICES



SOFTWARE SALES



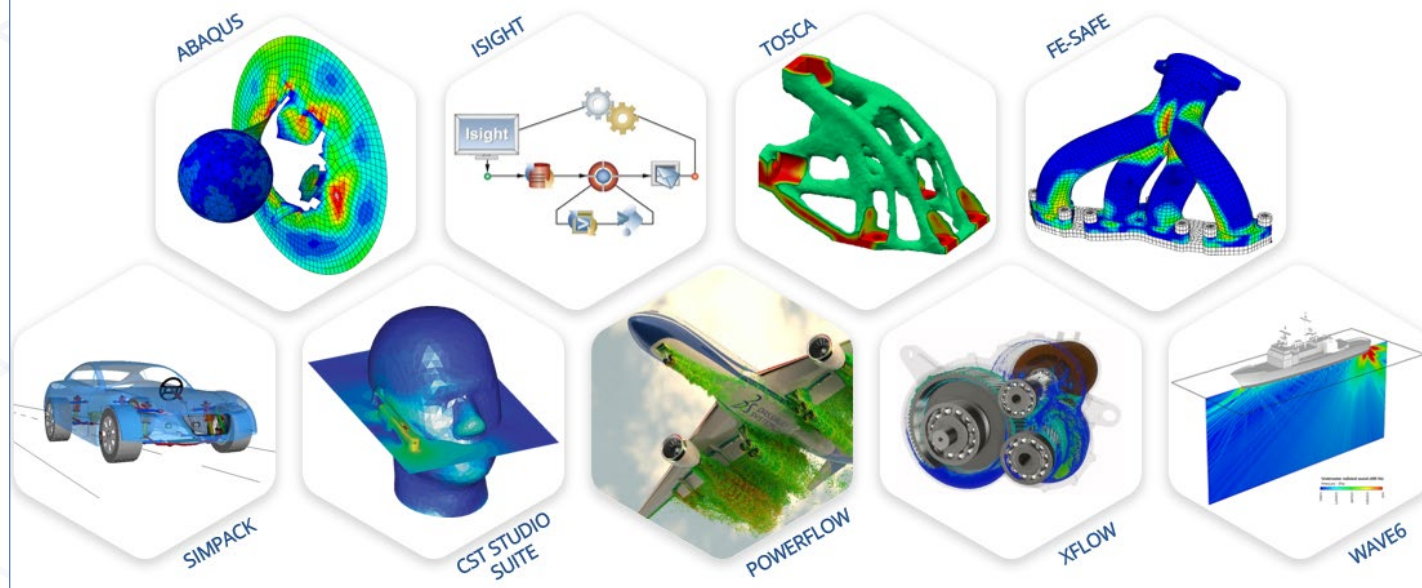
**SIMULATION
SOLUTIONS**

- Software Development & Sales
- Technical Support & Bespoke Training
- Depth of Experience in SIMULIA
- Solutions for every customer requirement.

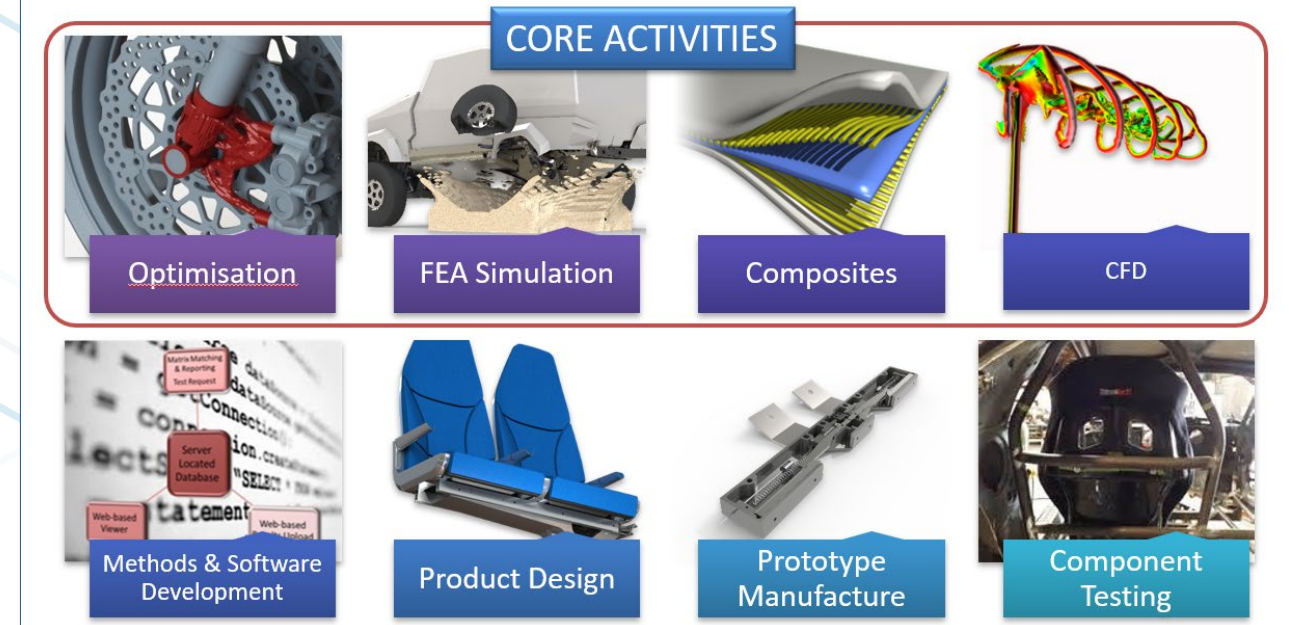
SIMULATION SERVICES

- Design Engineering by Optimisation
- CAE, CFD and EMag
- Composite Materials
- Depth of product knowledge and engineering experience.

SIMULIA TECHNOLOGY PORTFOLIO



SERVICES KEY DISCIPLINES



SIMULATION SOLUTIONS



Martin Gambling



Frank Claydon



Alex Hall



Andy Woodward



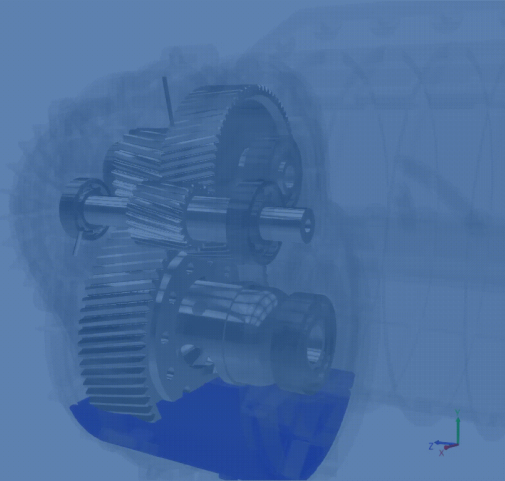




Services Key Technologies

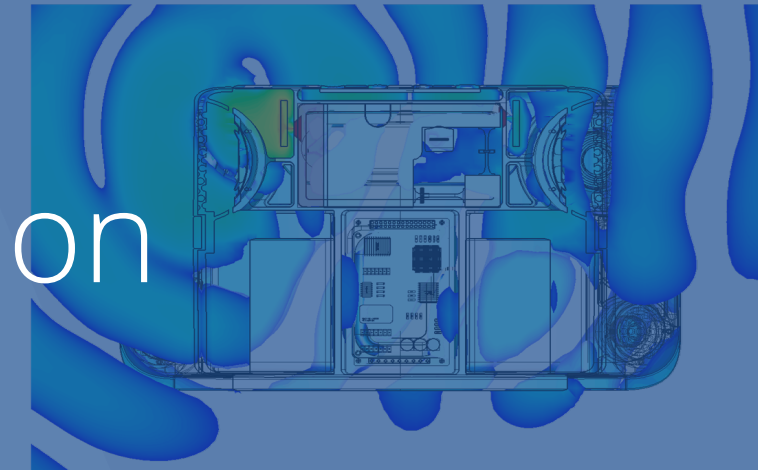
Computational Fluid Dynamics (CFD)

- Steady State
- Turbulent Flow
- Moving Bodies
- Fluid Structure Interaction



ElectroMagnetics (EM)

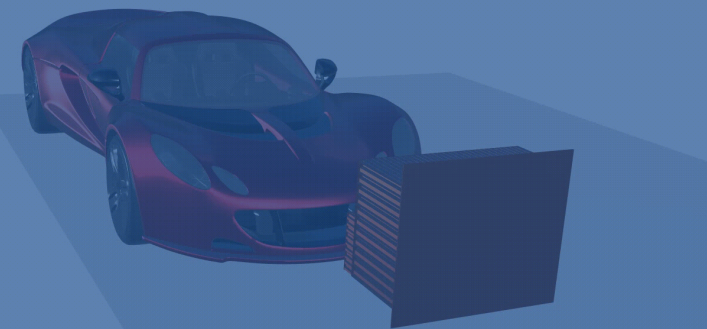
- EMC (Electromagnetic compatibility)
- EDA (Electronic Design Automation)
- Low Frequency, High Frequency
- Thermal and Mechanical Interaction



Multi-Factor and Multi-Physics Optimisation

Finite Element Analysis (FEA)

- Linear Statics
- Frequency – Modal and Forced
- Non-linear damage and composites
- Highly Non-linear, Dynamic & Contact



SOLAR POWER



Be the  planet's turning point

- Signature 172 of 561 to The Climate Pledge
- 2021 – roof insulated
- 2022 – 33kW of solar panels installed
- 2025 – 42kW of batteries now installed
- CO2 reduced from 8 tonnes per annum, to 2 tonnes per annum and potentially zero



ACCREDITATIONS

ISO 9001 (5 years) and now ISO 27001

British Assessment Bureau



8289

ISO 9001
QUALITY MANAGEMENT

British Assessment Bureau



8289

ISO 27001
INFORMATION SECURITY
MANAGEMENT



