



TECOSIM
A Hinduja Tech Company

Company Presentation

Engineering better living

The TECOSIM Group



Leading partner in innovative product development – part of Hinduja Tech Ltd.



Market leader in Computer Aided Engineering (CAE)



Methods for virtual Benchmarking



Placement of skilled workers for temporary or permanent employment

Fast Facts

AT A
GLANCE



320
Employees



30
Nationalities



7,500
Years experience



15
Locations in 6 countries



43
Millions euro turnover



37
Years average age



300
Customers

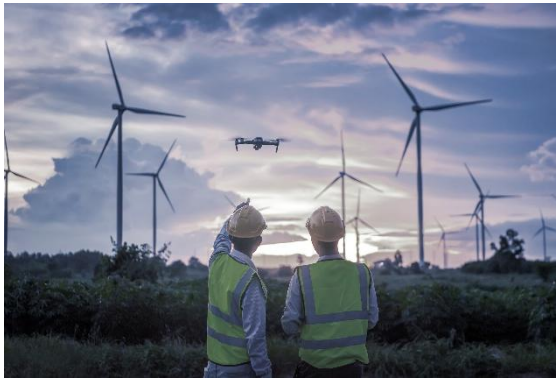
Business Fields

Transport



- Automotive
- Commercial vehicles
- E-Bikes
- Aerospace industry
- Rail equipment

Energy



- Wind energy
- Solar energy
- Hydraulic energy

Industry



- Machine engineering
- Construction machinery
- Agricultural engineering
- Consumer products
- Chemical industry

Health



- Pharmaceuticals
- Medical technology
- Fitness

Vision & Mission

Our vision – where we aim to be:

We empower businesses with innovative solutions and advanced technologies to shape a sustainable future. Implemented by a team dedicated to exceeding engineering expectations and building enduring collaborations. Together, we will deliver visionary solutions that make a lasting impact on the world.

Our mission – what we do:

We redefine engineering with a blend of computer-aided passion and global excellence, ensuring creativity and reliability from sketch to the product in the consumer's hand.

With its products and services, TECOSIM helps to improve people's lives and preserve the environment. Engineering better living.

Corporate Values

EXCELLENCE



We value excellence above all else. We maintain the highest standards of quality and set the bar high. We continually offer exceptional engineering services, creative solutions, and unwavering client satisfaction by drawing on our deep expertise and technical competence.

PROACTIVE



We actively cultivate a proactive approach, anticipating and addressing potential obstacles before they arise. Enabling us to provide engineering services and solutions that address customer challenges and set them up for success.

GROWTH & EMPOWERMENT



We are committed to empowering our employees and fostering a forward-thinking environment that promotes individual growth, continuous learning, and creative problem solving. We acknowledge and appreciate the contributions of every team member because we know that by utilising their full potential, we can benefit our clients and our company's ongoing growth.

COLLABORATION



We promote a culture of unity and collective collaboration that extends beyond our organisation, actively engaging with customers and harnessing our global expertise to co-create innovative engineering solutions, cultivate enduring partnerships, and drive cohesion-driven success across industries.

FLEXIBLE



We embrace flexibility as a core value, empowering our employees and customers to adapt and thrive in a rapidly changing environment. By providing flexible solutions and approaches, we cater to individual needs, foster innovation, and build strong partnerships.

On a growth path ...

... by:

Innovation leadership in
all fields of activity

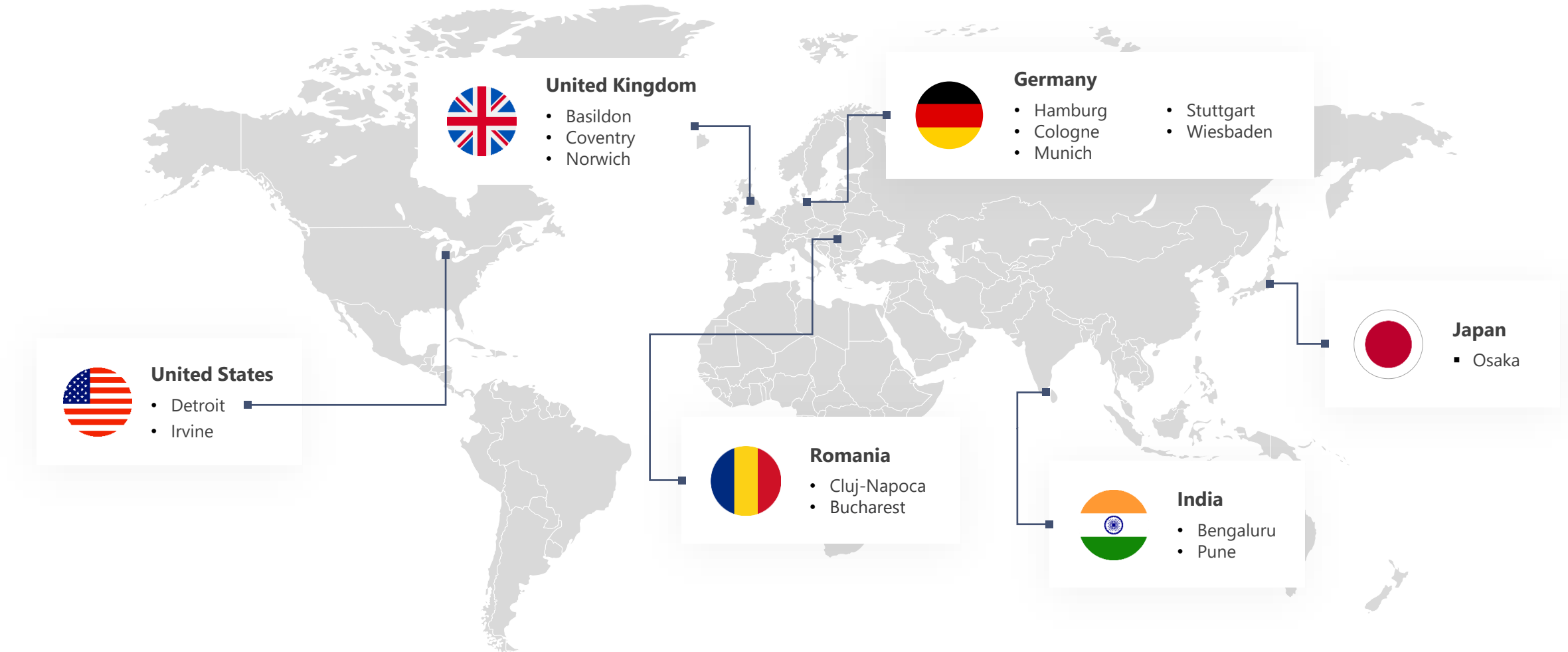
Geographical
expansion

Strengthening of the
brand

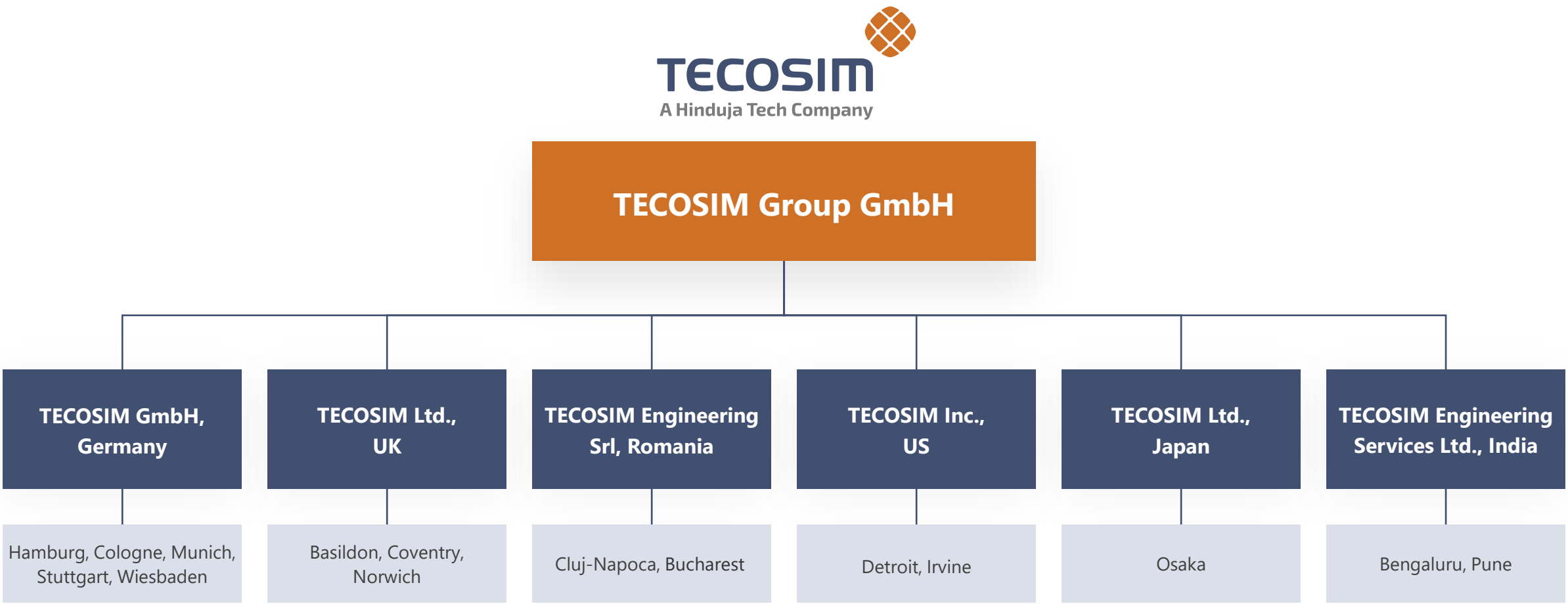
Expansion of
business fields

Best-Price-
Strategy

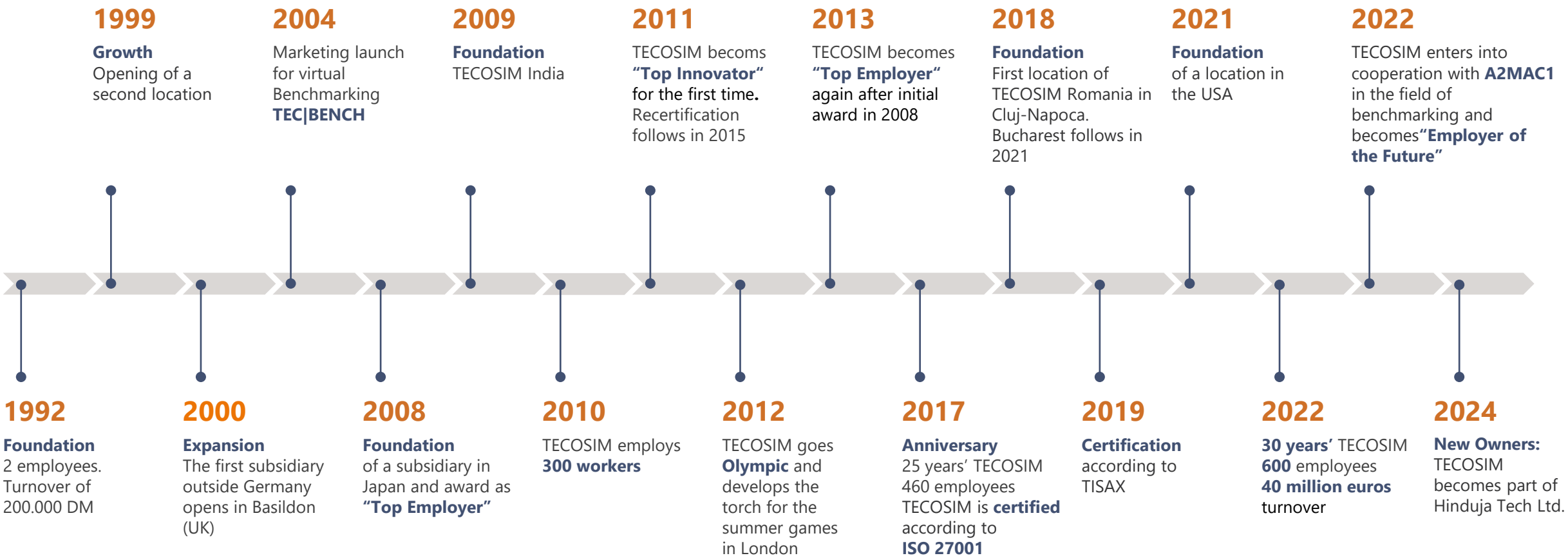
Globally active – locally based: The best of the worlds



Company Group Structure



Milestones



Certifications



Management
System
ISO 9001:2015
ISO/IEC 27001:2022

www.tuv.com
ID 9108645536

ISO 9001:2015

All offices in Germany, UK and India are certified



ISO 27001:2022

All offices in Germany, UK, Romania and India are certified



TISAX

All offices in Germany, Romania and India are certified with assessment level "very high"



TECOSIM
A Hinduja Tech Company

Our Service Portfolio

Engineering better living

Engineering Services



Engineering Services

Component, Sub-System & System Design

- Creating accurate and functional models that conform to engineering & manufacturing requirements
- The integration of mechanical and electronic systems

Project, Integration, and Quality Management

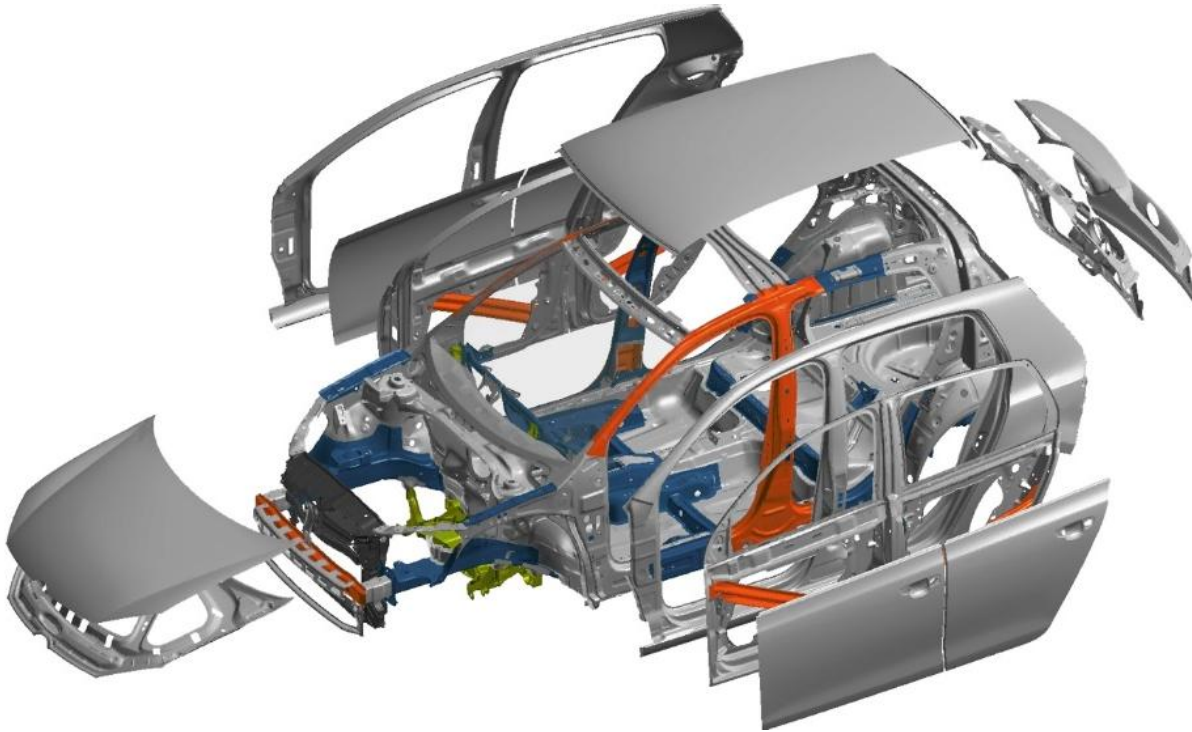
- Excellence is assured from fundamental concept to final product delivery

Software & Electronics Development

- Design and development of cutting-edge electronic systems
- Developing innovative software solutions to streamline and complement our engineering project delivery

Prototypes & Testing

- Rapid prototyping and workshop facilities
- Integrated Test Rig development, manufacture and testing management to ensure dependability and performance



CAD

Innovative CAD Expertise

- We incorporate engineering attributes into the design process from the start, with tailored CAD engineering services.

Automotive Interiors & Exteriors

- Comprehensive design and engineering for IP/Cockpit, Centre Console, Door Trims, Bumpers and Grilles.
- **Innovative Design:** Cutting-edge design solutions for both interior and exterior components.
- **Ergonomic Design:** Human-centered design for enhanced comfort and usability.
- **Aesthetic Integration:** Harmonious integration of interior and exterior design elements.
- **Regulatory Compliance:** Ensuring all components comply with industry regulations and standards.

PRODUCT DESIGN SERVICES



Machinery & Equipment

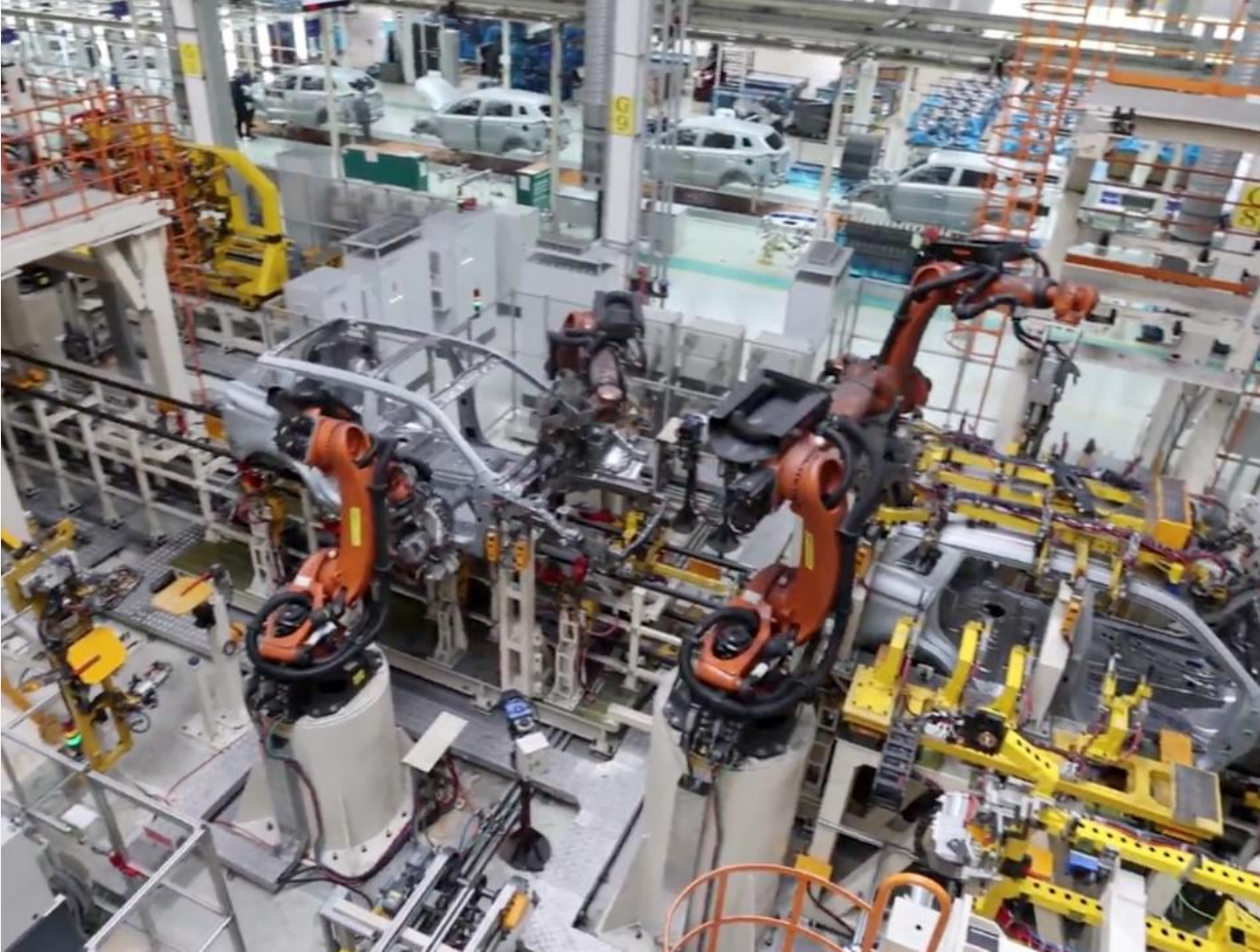
Agricultural Machinery Design & Analysis

- **Concept Design:** Developing inno. ideas for new machinery.
- **Feasibility Studies:** Assessing the practicality and potential impact of proposed concepts.
- **Detailed Engineering:** Comprehensive engineering design covering all aspects of the machinery including analysis.
- **Safety Analysis:** Comprehensive safety evaluations to meet industry standards and regulations.

SPMs Design and Analysis

- **3D Modelling:** Advanced 3D modelling to visualize, refine, and optimize designs.
- **System Integration:** Ensuring seamless integration of mechanical, electrical, and control systems.
- **Motion Analysis:** Detailed analysis of moving parts to optimize performance and longevity.

MANUFACTURING ENGINEERING SERVICES

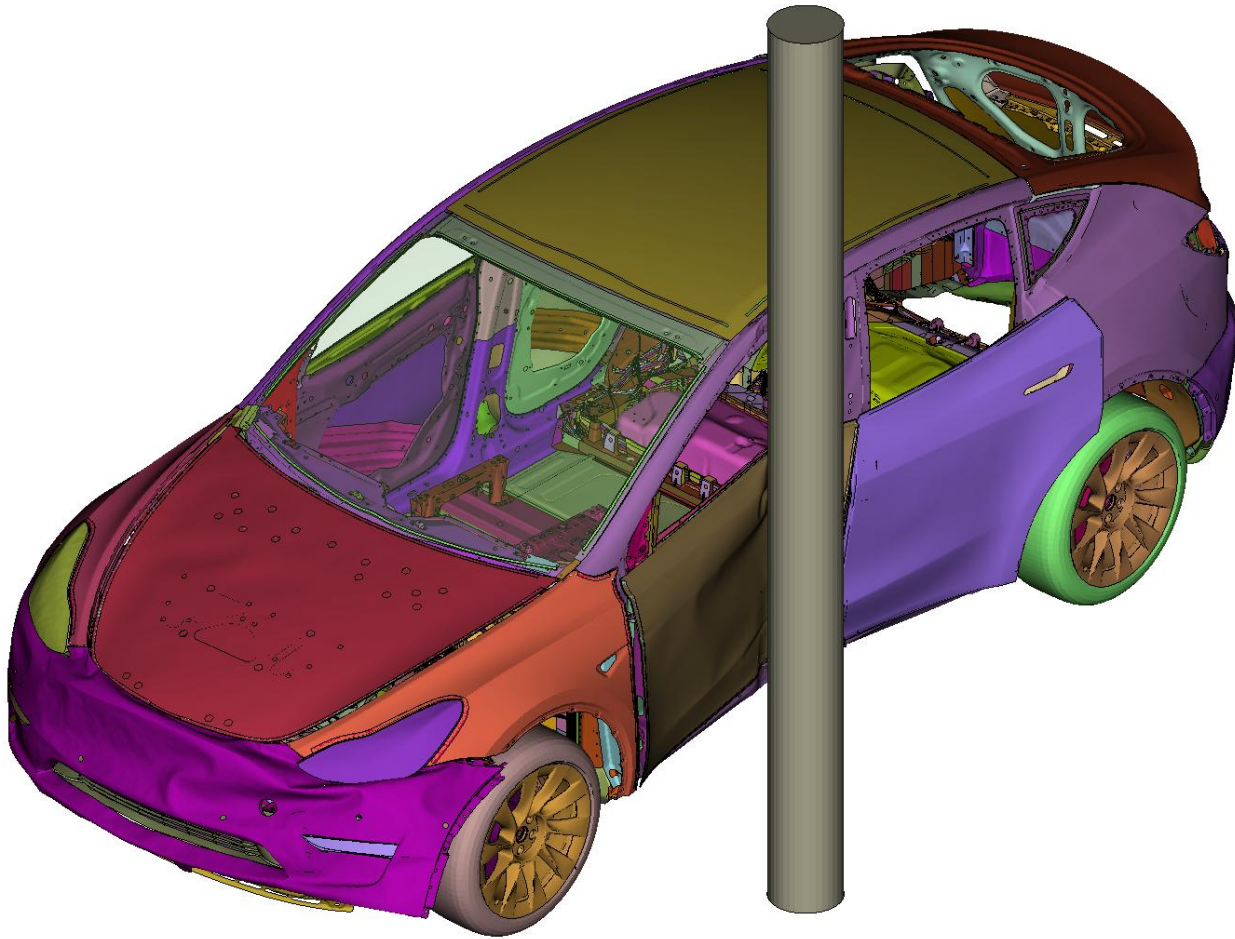


Automotive & Aerospace Tooling

Our services streamline manufacturing from planning to simulation, ensuring efficient workflows, innovative designs, and optimized processes for greater efficiency

- **Process planning:** Our process planning services encompass all aspects of your manufacturing workflow, developing panel build sequences, calculating cycle times, creating clamping plans, Station BOM, designing layouts.
- **Concept Design:** Our concept design services include BiW and CiW lines, Powertrain and Marriage lines, all types of joining processes, fixtures & grippers, material handling solutions, SPMs and checking/measuring systems
- **Robotic Simulation:** Our robotic simulation services encompass process and tool validation, work cell building, integration of robots and weld guns, path planning, and analysis of attributes and kinematics to ensure optimal performance and efficiency.

CAE SERVICES - Structure Simulation



Structure Simulation

- Crash/safety
- Stiffness
- Durability
- Fatigue
- Noise, vibration & harshness (NVH)

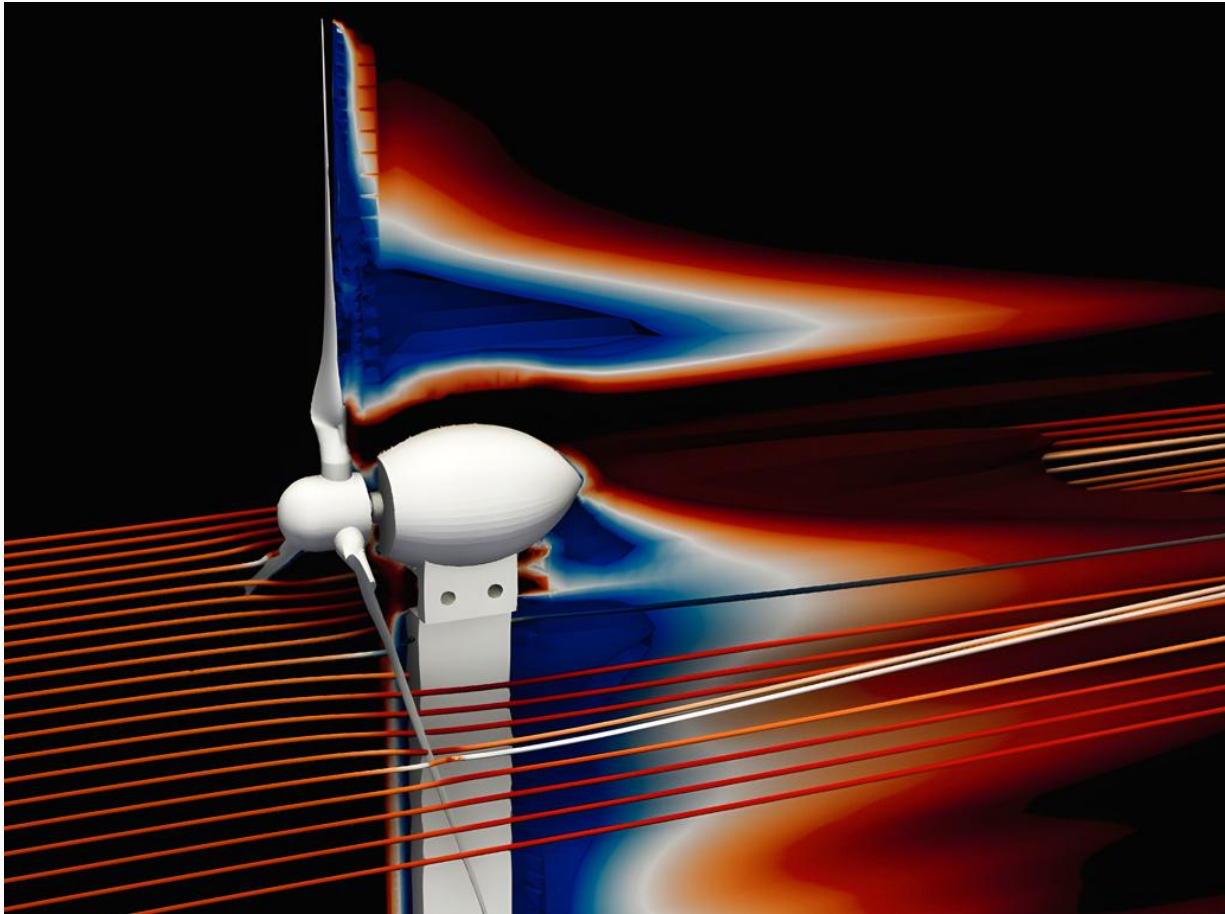
CAE SERVICES - Optimisation



Optimisation

- Optimisation of model parameters
- Thickness optimisation of sheet and casting parts
- Topology, bead and morph parameter optimisation
- Multidisciplinary and multi-objective optimisation
- Lightweight-driven optimisation
- Machine learning and AI

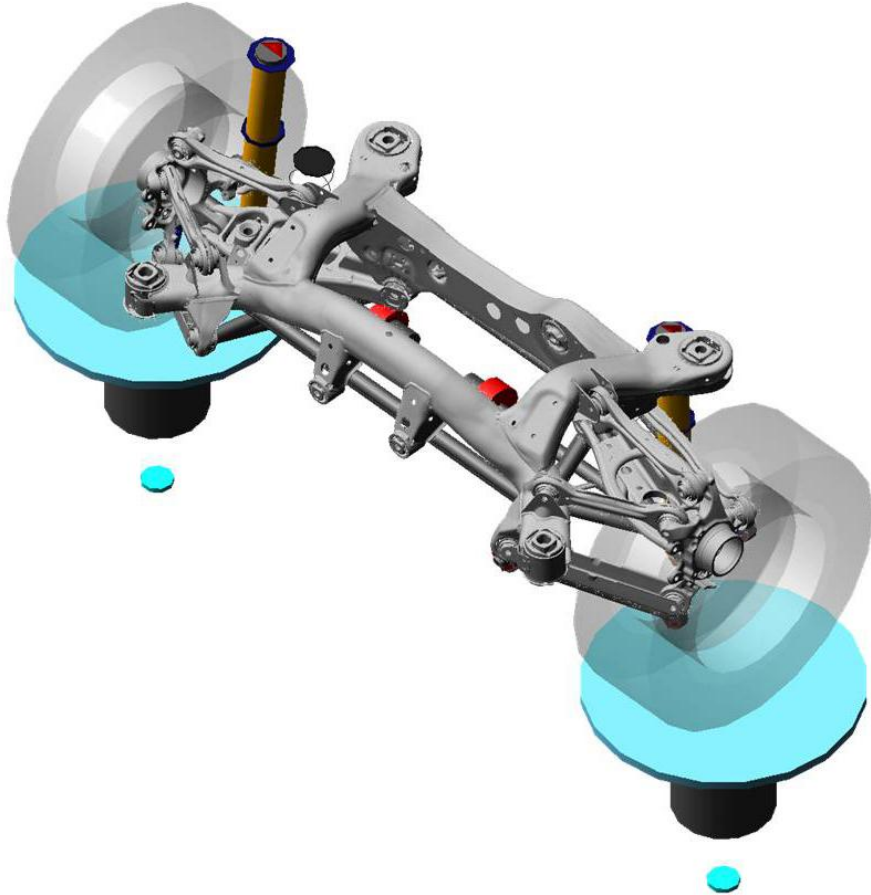
CAE SERVICES - Computational Fluid Dynamics



Computational fluid dynamics

- One-dimensional fluid dynamics calculations
- Multi-dimensional fluid dynamics calculations
- Thermal calculations
- Fluid-structure interaction

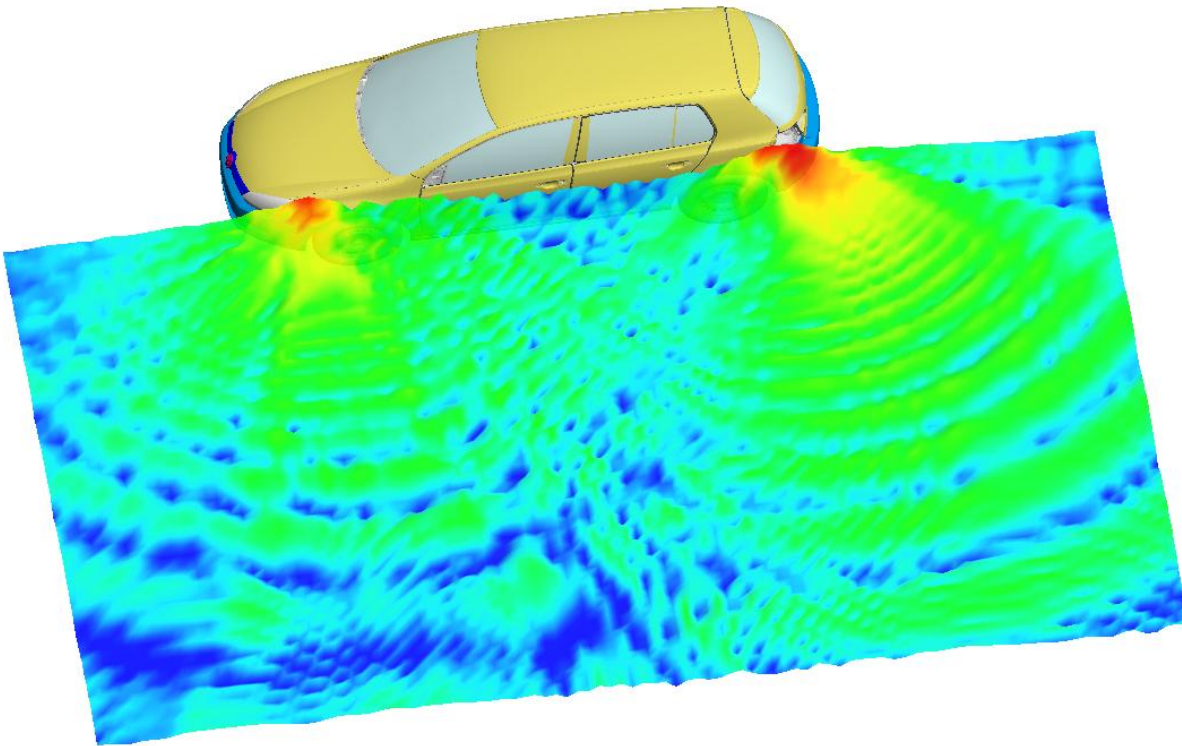
CAE SERVICES - Multi-Body Simulation



Multi-Body Simulation

- Powertrain components and modules
- Chassis components
- Vehicle dynamics
- Vehicle sections (e.g. convertible roof)
- Occupant safety
- Kinematics

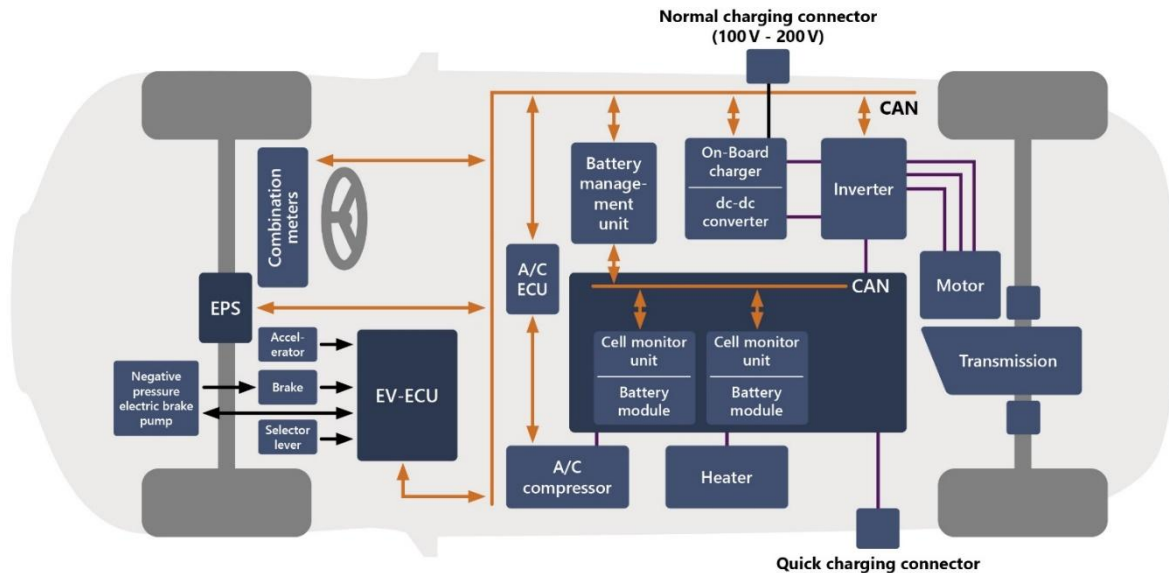
CAE SERVICES - Electromagnetic Simulation



Electromagnetic Simulation

- 3D full waves
- Antennas and sensors
(5G, FM, DAB, WLAN, Bluetooth, GPS, radar)
- HF-components
- EMC

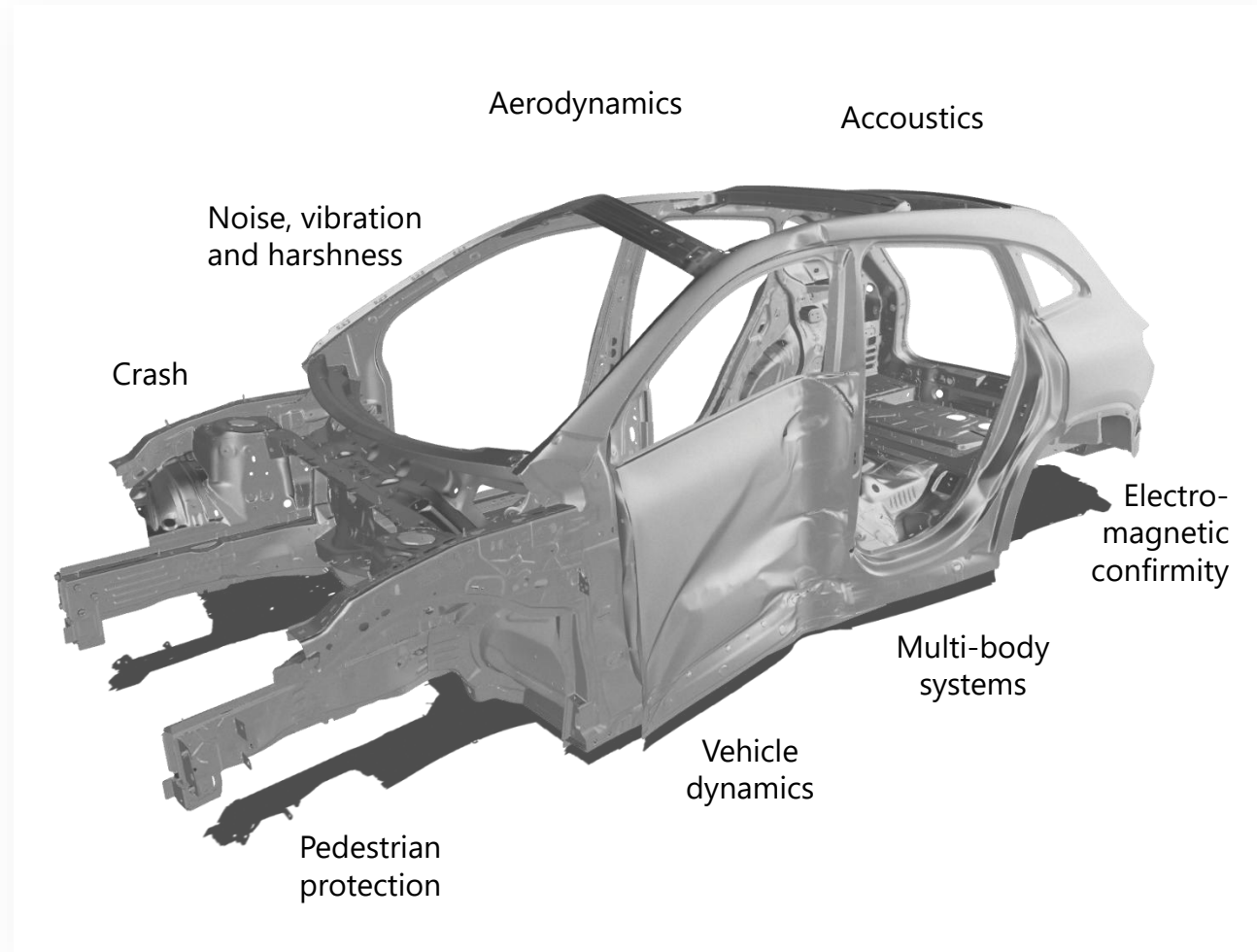
CAE SERVICES - System Simulation



System Simulation

- Drive performance and efficiency
- Battery heat management
- Brake systems
- Fluid cooling systems

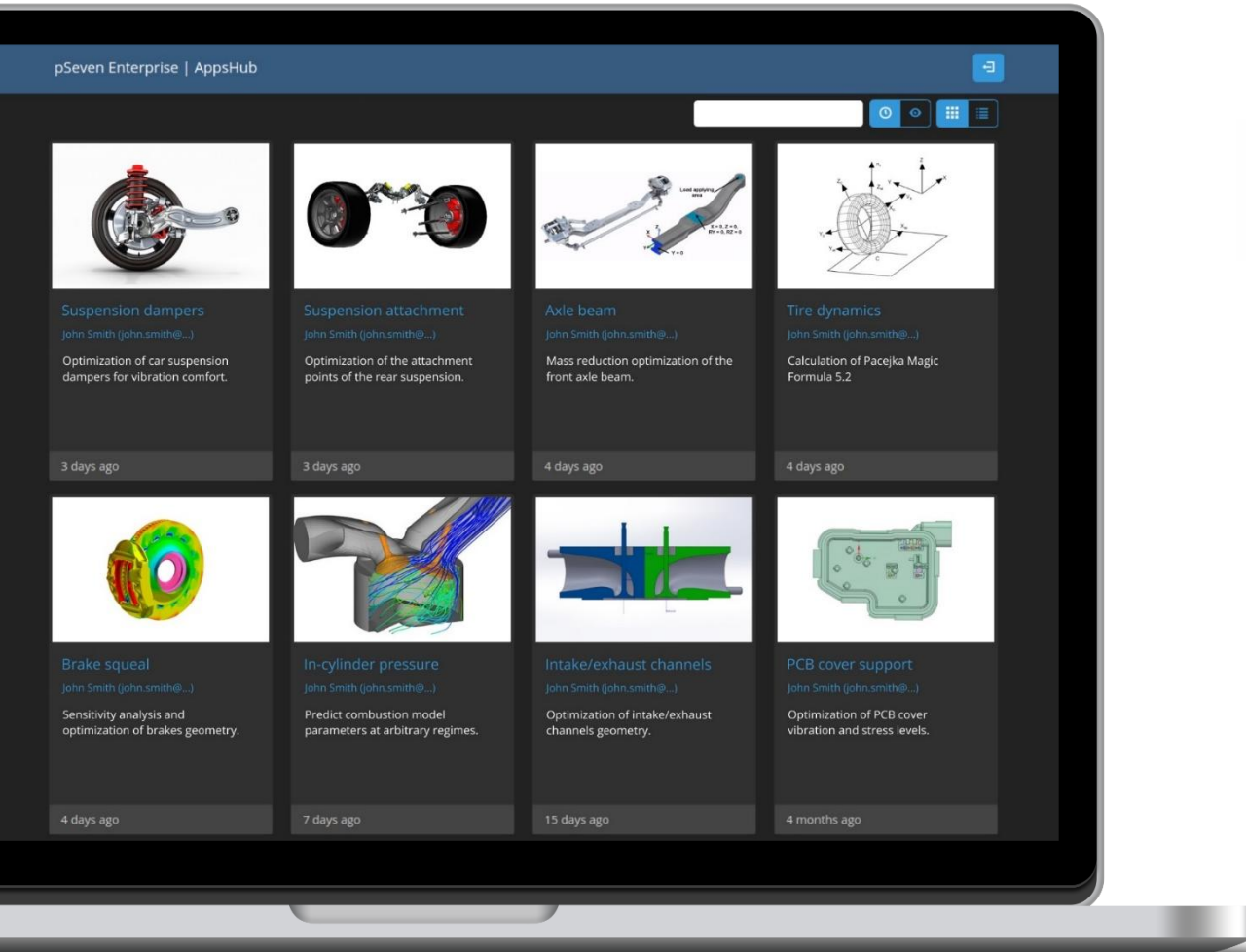
Leading the way through knowledge: Virtual Benchmarking



Virtual Benchmarking

- Deep analysis of competitor products using digital twins
- Always-accessible benchmarking information directly in the engineers' virtual development environment
- Time and cost savings
- Integrates optimally into the early development phase

Software Distribution



TECOSIM is the official reseller for the software solutions pSeven Desktop and pSeven Enterprise in Austria, Germany und Switzerland.

pSeven Desktop is an application for integration and automation of various CAD/CAE and other engineering tools, design optimisation and predictive modeling.

pSeven Enterprise is a cloud-native low-code platform developed to automate engineering processes at scale.

Features at a Glance

- Integration and Automation
- Predictive Modeling
- Design Optimisation
- SmartSelection

Software Distribution



eDCV **TECOSIM** is an official reseller for Amazon DCV in the Americas, India and EMEA (Europe, the Middle East and Africa) region.

This software provides high-resolution remote visualisation and control for graphically intensive applications in real time. Amazon DCV is utilised in engineering, media production, healthcare systems and financial services to process large data volumes and control graphic-intensive applications efficiently.

Advantages at a Glance

- Real-time visualisation
- Remote access
- Efficient use of resources
- Secure data access

Software Distribution



TECOSIM is a distribution partner for standard software solutions by PD Tec.

PD Tec supplies modular standard software based on the open PD Tec Engineering Platform for process and data management (SPDM), enterprise integration (data exchange and supplier integration), engineering collaboration (product data management) and technology data management (functions and parameter data).

Your benefits: everything from a single supplier

- Personal consultation to select and integrate the right PD Tec modules
- Implementation and support provided by experienced specialists
- Sector-specific solutions for OEMs, suppliers and SMEs

Personnel Services



The **Talent Acquisition** team specializes in the search for specialists in engineering and supports clients in filling their vacant positions - both within the core competence area of TECOSIM and beyond.



Confident cooperation, stability, feedback as well as an individual implementation of the customer- and candidate journey are the focus.

Personnel Services

Talent Acquisition via TECOSIM – the benefits



1. Stability

We occupy long-term positions throughout Germany with national/international talents.



2. Flexibility

We support both in the hiring of employees as well as in the direct placement of positions.



3. Quality

We select our talents intensively for the requirements of our customers.



4. Customer Journey

An individual process tailored to our customers as well as a long-term TECOSIM contact person.



5. Expertise

As an engineering service provider and CAE market leader, we know the market and understand the requirements of our customers.



6. Feedback

It is important for us to continuously optimize the cooperation with our customers.



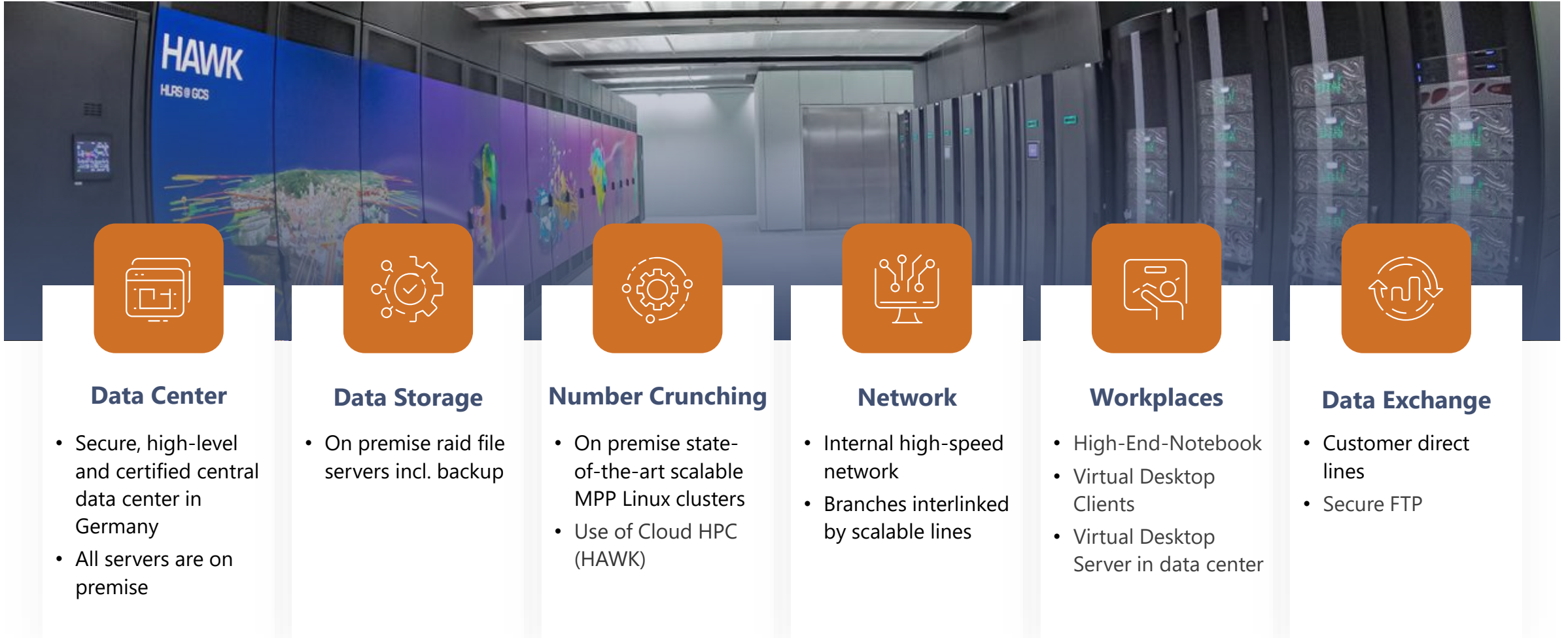
7. Range

We have an internal and external network of qualified talents tailored to the needs of our customers.

TECOSIM – Clients (selection)

Mobility - Road	Mobility - Air	Industry	Energy
• Adient • Arrival • Aston Martin • BMW • Bosch • Bosch eBike Systems • CEER • Charge Cars • Daihatsu • Ford • Gordon Murray Design • Jaguar Land Rover • Yazaki • LEVC – London Taxi • LOTUS	• Lucid • MAGNA • Marelli • McLaren • Mercedes-Benz • Mercedes-AMG • Morgan Motor Company • Next e.Go • Porsche • Rivian • TEVVA • VW • ZF • Zoox	• Ariane Group • Diehl Aviation • E.I.S. Aircraft • Fuchs Aircraft Interior • L5 Interiors • MTU • MT Aerospace	• Bayer • Bosch • Danfoss • EBZ • FFT Fertigungstechnik • Fixture Tech Solutions • Fritz Winter • Hilti • Linde • Mtex • Redwood • Strickland Tracks • Schott • Witte
			Health
			• Ivoclar • Henkel • MUOV – Tilt bike

IT Infrastructure



Software

Altair

- HyperWorks Suite
- Mechanical Solvers
- CFD Solvers
- FEKO
- FLUX
- SimSolid
- SimLab

ANSYS

- LS-Dyna
- ANSYS Workbench
- ANSYS Mechanical
- ANSYS Fluent
- ANSYS Electromagnetics

BETA-CAE

- ANSA
- META
- CAD Translators

Dassault

- ABAQUS
- SimPack
- CATIA V5

HEXAGON

- MasterKey
- NASTRAN
- Adams

ESI

- Pam-Crash

GNS

- Animator
- Generator

Siemens

- StarCCM Suite
- StarCCM Solver

T-Systems

- Medina

OASYS

- Primer
- Suite

Scale

- LoCo

MAGNA

- FEMFAT
- HARMONIC

pSeven

- pSeven Desktop
- pSeven Enterprise

MathWorks

- Matlab

Various CAE Models

- of barriers, impactors and dummies

Additional Applications

- Upon request

Many good reasons for choosing TECOSIM



Increasing efficiency

Time and cost savings



Reliable

High planning and cost reliability, error-free order fulfilment and on-time delivery



Customer proximity

Our employees work either on your premises or in one of our branches in your area



Best solutions

With our innovative solutions, we will help you to get ahead of the competition



Flexibility

We respond quickly and flexibly while providing optimum quality



Quality + Information security

Certified to DIN ISO 9001:2015, DIN ISO 27001:2013, TISAX

More about TECOSIM

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www.tecosim.com

Career

In the career section of our webpage you can find how we work at TECOSIM and which jobs are waiting for you.



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