

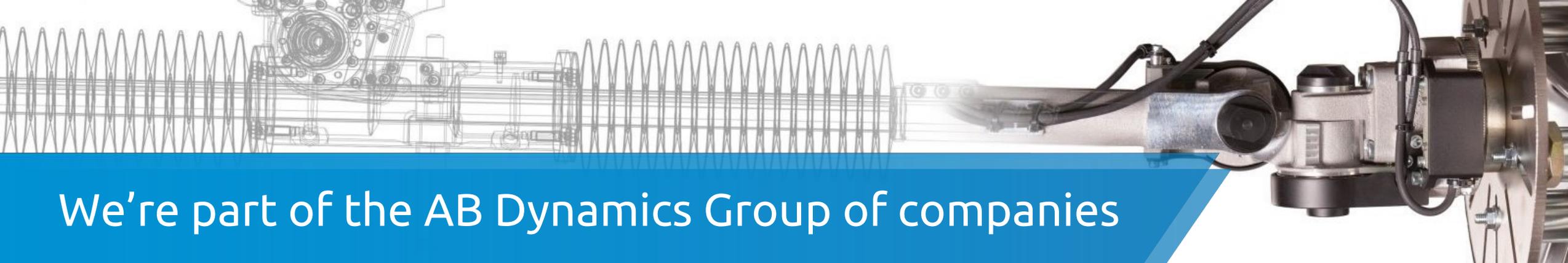
AB
Dynamics



AUTONOMOUS

SAFE
1G-2 +
TO PHASE 1

Powerful development solutions
for the global automotive industry



We're part of the AB Dynamics Group of companies

Providing an extensive range of vehicle autonomy, simulation and testing solutions, with unrivalled synergy across the Group



Automotive testing, verification and validation solutions encompassing dynamics, suspension and steering characterisation, durability, driver assistance systems and autonomy



Retrofit solutions that automate conventional vehicle fleets, focusing on materials handling, defence, mining and agricultural applications



Full-scale track testing services plus R&D services and consultancy in the areas of dynamics, human-machine interaction, ergonomics, driver assistance, and autonomy



Simulation software and digital twins used to accelerate vehicle development including testing and validation of assistance systems, autonomy and vehicle dynamics



Pre-production and production quality assurance testing including comprehensive vehicle, component and function testing on public roads and closed test tracks

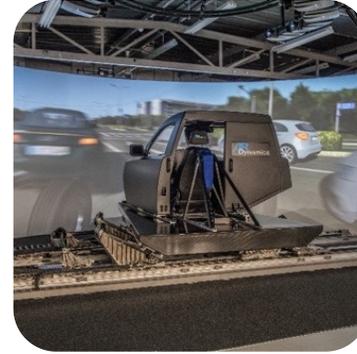
The Group enables the development of vehicles in laboratory and virtual environments, validation on the track and then evaluation on public roads



Simulation software solutions



Laboratory testing solutions



Driving simulator solutions



Track testing solutions



Public road testing solutions



Retrofit autonomy solutions

On one has more experience



35+
years' experience
delivering vehicle testing
and simulation solutions



100%
of the world's top
vehicle manufacturers
use our solutions



100+
vehicle models
developed using our
technology



450
talented people
employed across
the group



1,000+
driving robot solutions
supplied globally



\$700m
of approximate market
capitalisation within this
publicly listed business



We are a truly global operation



We have **offices in 7 strategic locations**, within easy reach of the key players in today's automotive industry



We have **distribution partners in 13 countries**: Australia, Brazil, China, India, Israel, Italy, Malaysia, Mexico, Russia, South Korea, Taiwan, Turkey

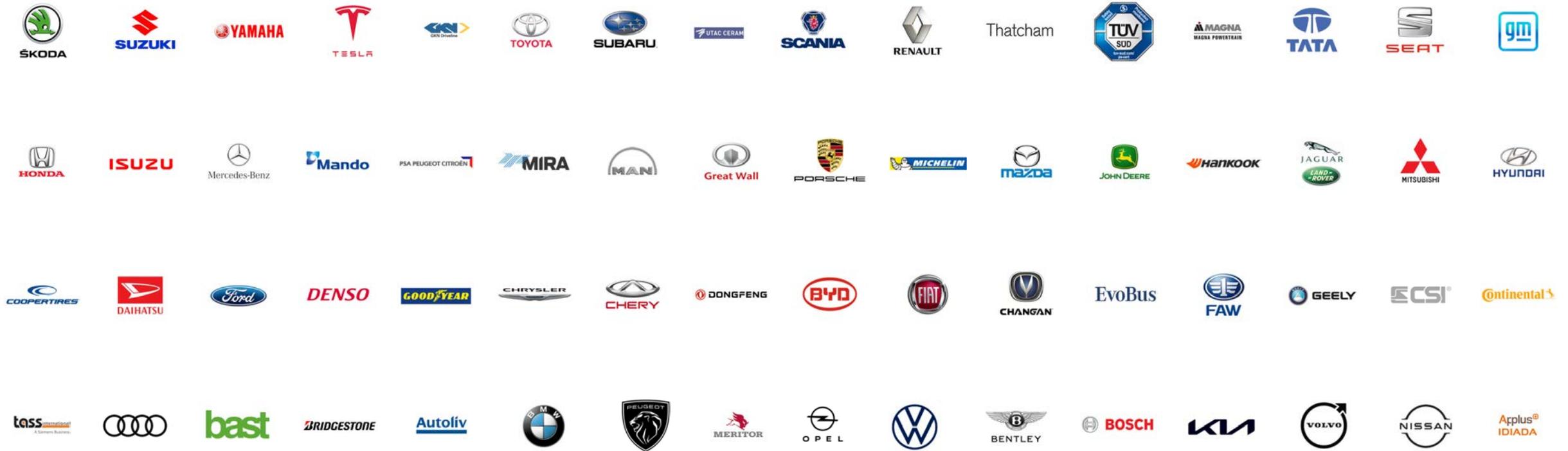




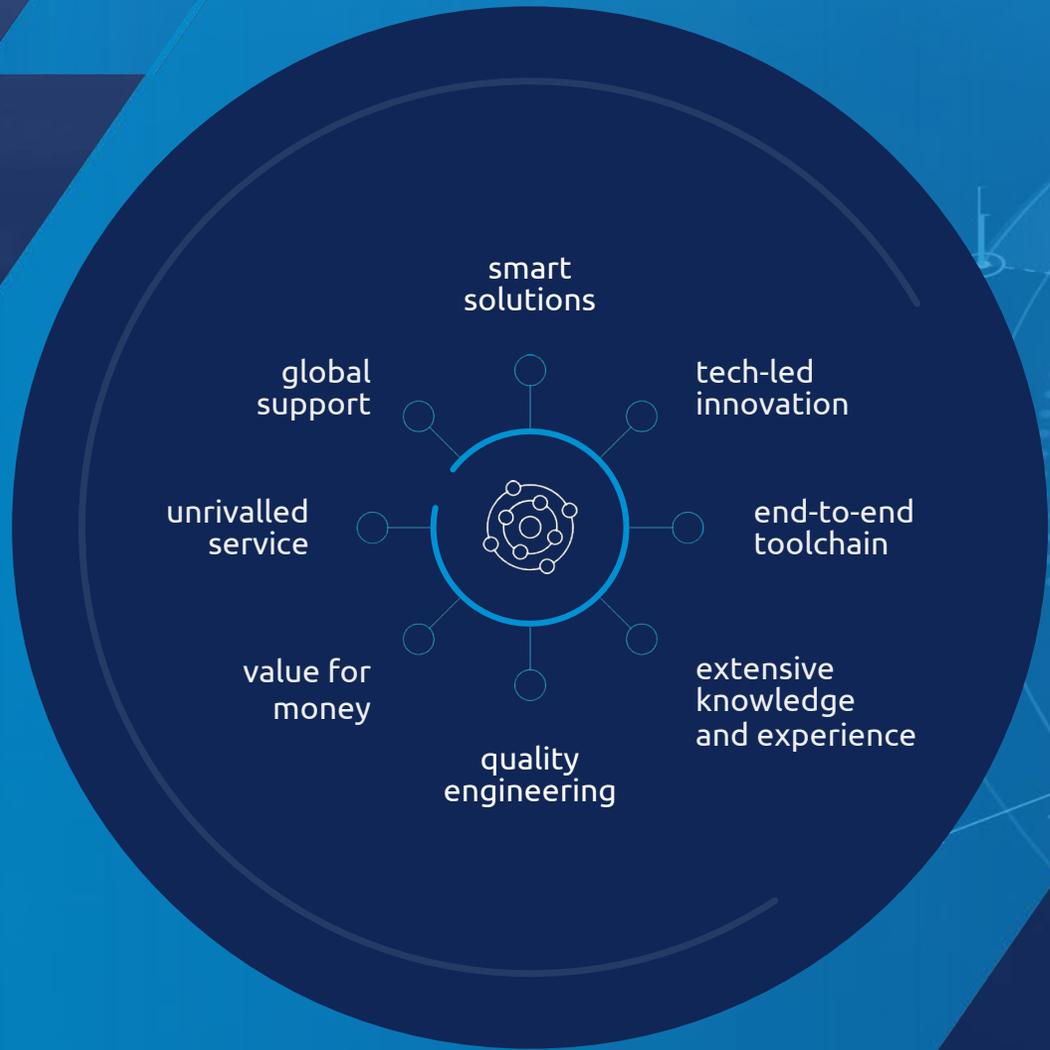
Our customers include the world's top vehicle manufacturers, Tier 1 suppliers, test facilities and AV developers

They all use AB Dynamics to accelerate development schedules, reduce development costs and bring better vehicles to market

Our customers are winners in their field



We support them with AB Dynamics':



Our areas of expertise



**Driving
Simulators**



**Laboratory
Testing**



**Track
Testing**



Immersive simulators to enable virtual vehicle development for general automotive and motorsport, including ADAS, vehicle dynamics and HMI



Dynamic Driving Simulator

Our most immersive simulator, combining a high-performance motion platform and high-spec audio and visual hardware



Static Driving Simulator

A static simulator with display options that include an augmented reality headset. Features steering and brake haptic feedback systems



Desktop Driving Simulator

A high-powered PC workstation with Driver-in-the-Loop throttle, brake and steering inputs



Workstation Simulation Solution

A high-powered PC workstation solution running high fidelity simulation models

Laboratory-based solutions for suspension, kinematics and compliance and steering system characterisation

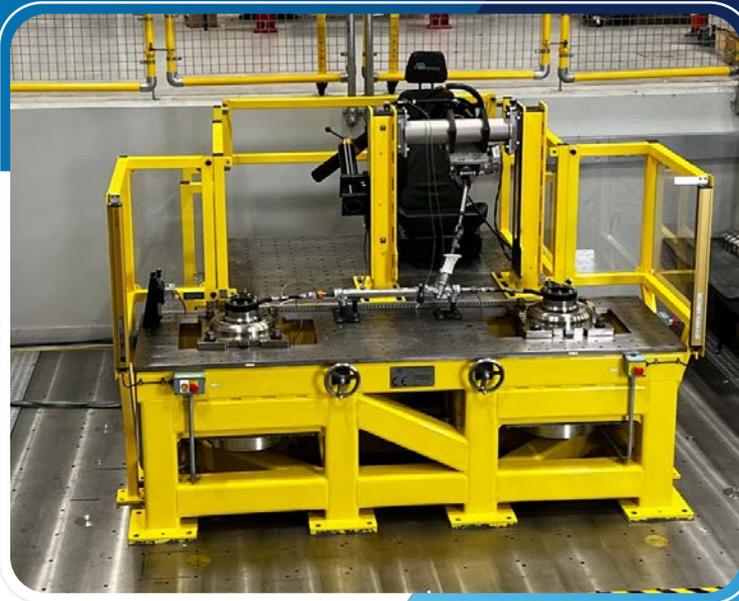
Suspension System NVH Measurement

ANVH 250 - Measurement and analysis of suspension system NVH from early in the development process



Steering System Characterisation

SSTM - applies a varied range of forces and displacements to a steering system and measures subsequent feedback





Kinematics & Compliance Measurement

SPMM - simulates on-road vehicle braking, accelerating and cornering for suspension evaluation, design and tuning



Deflection Measurement System

SPMM option - provides precision camera measurement of vehicle body and component deflections



Centre of Gravity and Moment of Inertia Measurement

SPMM option - precisely determines centre of gravity and moment of inertia

Solutions for the development and testing of ADAS, AV technology, and vehicle dynamics on test tracks

Driving Robots

Steering, pedal and gearshift robots can be installed in almost any vehicle for repeatable and accurate control during vehicle testing procedures



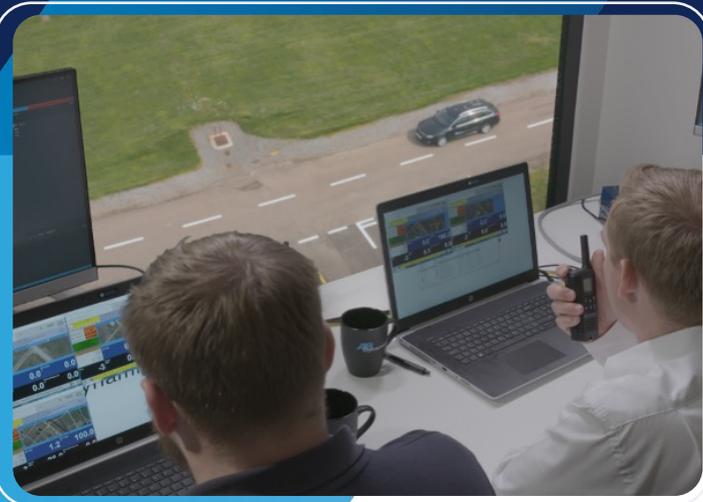
Driverless Test Systems

Retrofit driving robot and CAN bus solutions for operating vehicles without a driver, ideal for testing where there would be a risk to the test driver's safety



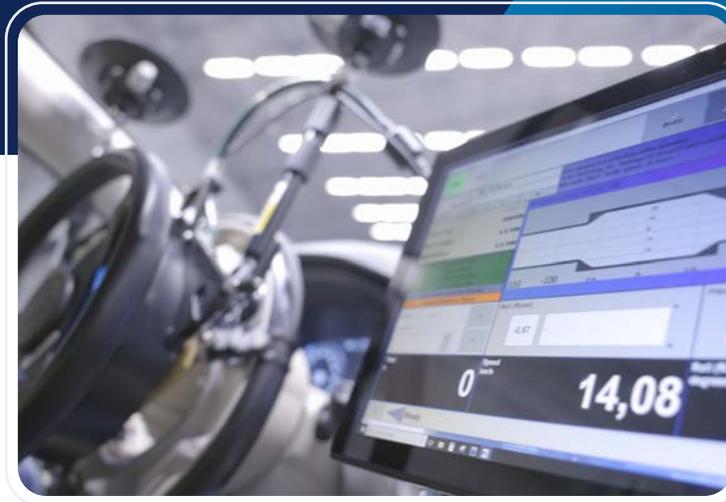
Ground Traffic Control (GTC) Software

A solution for the centralised management of proving ground traffic – including vehicles, targets and track infrastructure – for improved efficiency and safety



Robot Controller Software

Powerful software that enables customers to conduct complex, multi-object test scenarios using driving robots, by-wire and ADAS test platforms



Synchro Software

A software system for managing the synchronised movement of vehicles and targets so that they repeatably interact and intersect at the same time



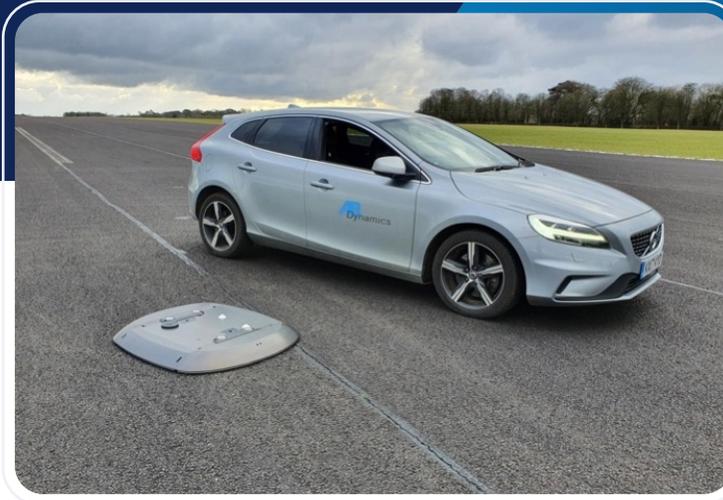
Vehicle ADAS Test Platforms

Drive-over, self-propelled test platforms that carry impactable soft vehicle targets at up to 120 km/h



VRU ADAS Test Platforms

Pilotable test platforms for carrying VRU targets for including pedestrian, cyclist, moped and motorcycle dummies



Soft Targets

Impactable dummy vehicle and VRU targets that appear as real objects to vehicle safety systems



“

We highly recommend the company and products they create. Eager to help and satisfy the customer needs, AB Dynamics is truly a customer oriented company that will go the extra mile.

**- George Van Kaam, Senior Technician
Toyota Technical Center, USA**”

We would love to discuss how AB Dynamics can support your vehicle development programme



www.abdynamics.com