



Applus IDIADA

As a **global partner to the automotive industry worldwide** we support our clients in their product development activities by **providing design, engineering, testing and homologation services** to fit their needs.

Our success in product development is built on the combination of highly-experienced and motivated engineers

and best-in-class test and development facilities, client focus and the constant drive towards innovation.

A large team of more than **3.000 professionals**, as well as an international network of subsidiaries and branch offices in **22 countries** ensure clients are given fast and customized service.

COMPLETE DEVELOPMENT PROJECTS

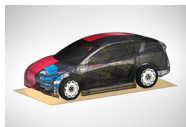
Comprehensive engineering capabilities for turnkey vehicle development projects. Concept, CAD, CAE and testing of all major vehicle functionalities with unique **in-house state-of-the-art facilities**.



Concept finding & Benchmarking



Styling & Feasibility



Package & Surfacing



Product Engineering Design (CAD)



Product Engineering Simulation (CAE)



Development Test



Validation



Development led by vehicle functionalities and performance

ENGINEERING SERVICES

BODY DEVELOPMENT

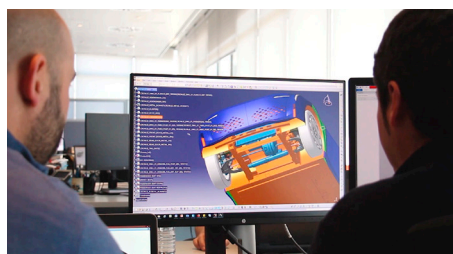
- Body & Closures
- Interior & Exterior trimmings
- Styling & Surfacing
- CAE
- Body performance

PASSIVE SAFETY

- Structural analysis
- Restraint system integration
- Occupant protection
- Pedestrian protection
- Accident reconstruction

CHASSIS DEVELOPMENT

- Tyre development
- Braking systems development
- Vehicle dynamics performance
- Electronic chassis control systems
- Driving simulator
- Virtual Proving Ground



POWERTRAIN

- Integration
- Battery Systems
- e-Motor
- FCEV
- Heavy duty
- Fuel systems and evaporative emissions
- Driving performance
- Advanced powertrain benchmarking



ELECTRONICS

- E/E architecture
- Vehicle-in-the-loop
- Functional safety (ISO 26262)
- Cybersecurity
- Cooperative Intelligent Transport Systems (C-ITS)
- Connected vehicles



ADAS & CAV

- Automated driving
- Connected vehicles
- System development
- Human factors



NVH

- NVH concept and target definition
- NVH target validation
- Tyre / brake / wind noise
- Powertrain / Interior noise and vibration



HVAC

- HVAC system development and validation
- Thermal comfort



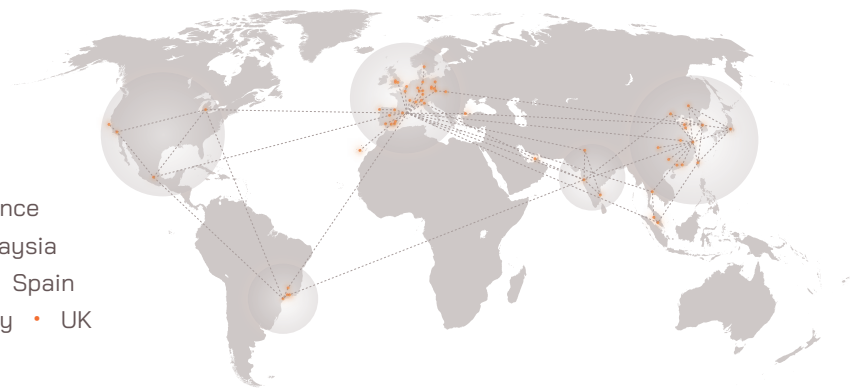
DURABILITY AND RELIABILITY

- Structural, Powertrain and general vehicle durability
- Market driver assessment, road characterization and fleet validation



INTERNATIONAL PRESENCE

Belgium • Brazil • China • Czech Republic • France
Germany • India • Italy • Japan • Malaysia
Mexico • Poland • Slovakia • South Korea • Spain
Sweden • China Taiwan • Thailand • Turkey • UK
United Arab Emirates • USA



MAIN STRENGTHS AND ADVANTAGES

- Development integration
- Project management
- Integration of CAD, CAE and testing
- Design led by functionality
- Thorough knowledge of all major vehicle functionalities
- Strong international presence

CONTACT INFORMATION

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