



Evolve towards *end-to-end* optimized processes

with Autonomous Driving & Advanced Driver Assistance Systems digital continuity and collaboration platform



By 2025, about 8 million autonomous or automated vehicles are expected to travel the world's roads according to **ABi Research**. However, many OEMs and Tier1 suppliers lack the right tooling and specialized resources to meet this quickly growing market and evolving customer demands.

The industry seeks digital solutions that, as part of the development of Autonomous Driving/Advanced Driver Assistance System (AD/ADAS) solutions, enable the creation of digital continuity throughout the engineering value chain. This continuity includes a high level of end-to-end traceability across development and go-to-market activities, robust configuration management and

large-scale simulation to increase efficiency and cut costs.

That is why Capgemini and Dassault Systèmes have joined forces to offer a high-value solution that reduces costs related to the development of AD/ADAS systems. This joint solution enables you to optimize processes to tackle the complexity, from system specification through final validation.

Together we unlock value and help you to transform.

Ongoing challenges

Increased target markets per ADAS platform

Many geographic regions have different requirements regarding compliance, safety and performance, which complicate mainstream production of AD/ADAS systems.

Ever-expanding end-customer functions

Customer preferences and General Safety Regulation 2 (GSR2) requirements lead to hundreds of functions that create a myriad of system dependencies.

Emerging challenges

Growing number of vehicle variants

Body styles, bumper styles and end-customer options all contribute significantly to OEM costs.

Multi-location development

Hundreds of engineers—who may never meet in person—struggle to communicate and collaborate across multiple organizations, multiple geos and multiple ecosystem suppliers.

High quantity of prototype vehicles required for V&V

Verification and Validation (V&V) activities often require up to 100 vehicles dispersed over many locations, making it difficult to balance safety requirements against rising costs.

Dassault Systèmes

Global 3DEXPERIENCE platform to manage ADAS complexity for OEMs and their component suppliers.

Capgemini

Planning strategy, optimized engineering development cycle, skilled teams for solutions and methodology aligned to objectives to empower business transformation.

Combined value

Capgemini and Dassault Systèmes have built a comprehensive portfolio of best practice solutions and services that enables management across the entire ADAS lifecycle of design, build and operate.

Our vision: fine tune your processes and transform your business.



Boost traceability

Unique, optimized, and secure platform ensures traceability, variant management, and task automation.



Meet safety and homologation constraints

Reduce rework by up to 80% through automated validation plans, virtual scenarios, and software validation.



Accelerate the development cycle

Go to market up to 20% faster.



Enhance operations execution and stakeholder coordination

Collaboration management is a multiplier force for input from multiple players.



Reduce cost

Automation and digital connectivity lowers development costs by up to 30%.

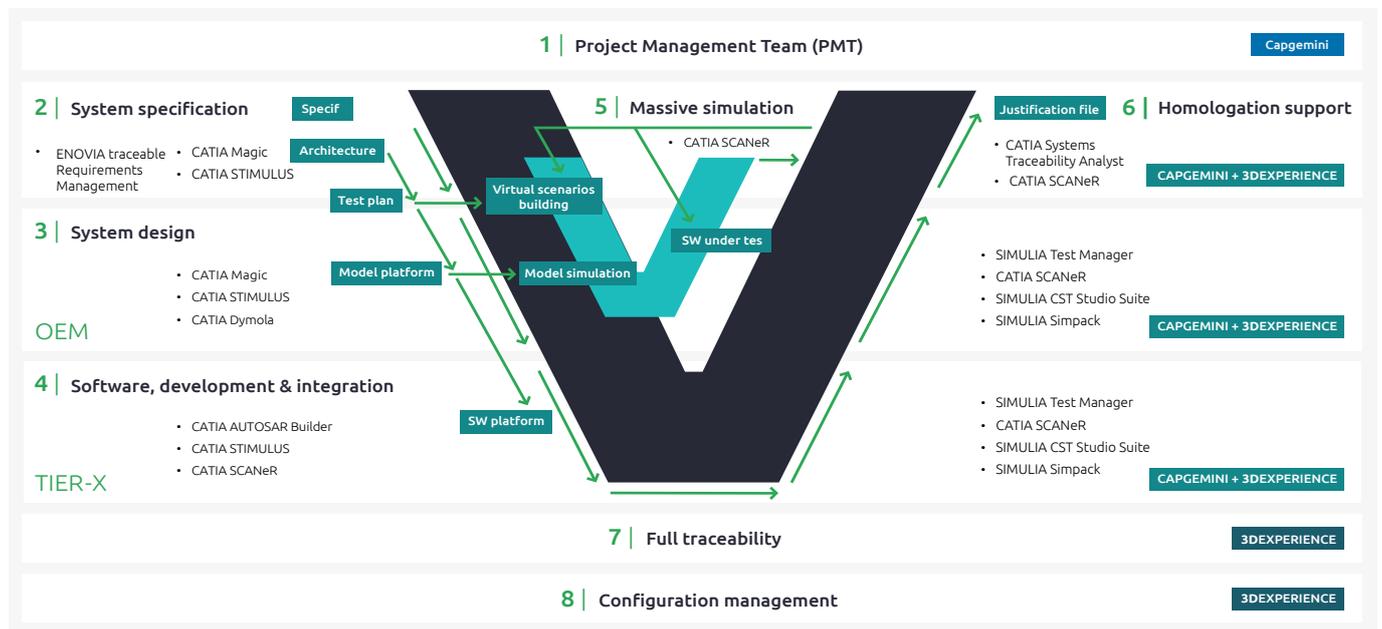


Embrace scalability

Agile at scale methodology breaks down silos and increases business resiliency.

Better together: Dassault Systèmes' 3DEXPERIENCE platform and Capgemini's optimized processes across the entire ADAS lifecycle.

Capgemini and Dassault Systèmes' solutions transform the development process to optimize go-to-market, traceability, configuration management and large-scale simulation – all in the 3DEXPERIENCE platform, enriched by Capgemini accelerators.



Capgemini support and assets



The joint offering provides a **common working environment** adapted to an extended **R&D footprint** for both **OEM development and validation organizations and their Tier1s**. This end-to-end portfolio delivers an **ADAS virtual twin experience** using real data capture and simulation for test and validation.



A closer look at the AD/ADAS digital continuity and collaboration platform.

Project Management Team (PMT) transformation Support:

We support our clients to build an optimized process adapted to their Go-To-Market constraints at scale and provide the dedicated platform and tools.

System specification:

We provide system specification tools and generate a validation plan description to ensure coverage of the Operational Domain Design of the AD/ADAS system.

System design:

We design an AD/ADAS system to accelerate the development cycle thanks to model-based-design approaches and Agile iterative loops.

Software development and integration:

We support the development and validation of software based on a virtual environment and digital/virtual twins.

Massive simulation:

We enable simulation across services, functions, testing and system design and validation to strengthen the development cycle.

Homologation support:

To accelerate Go-To-Market, we help create justification files from different validation platforms compliant with regulation expectations.

Full traceability:

Because system specification, design and software development is a complex and iterative process, we propose a dedicated solution that helps ensure traceability to guarantee robustness for all stakeholder activities.

Configuration management:

We offer dedicated tools and services to manage the diversity of SW/HW and vehicle platforms.

Why choose Capgemini and Dassault Systèmes?

Long-time partners

Innovating together for 25 years to help enterprises with their digital transformation.

Customized industry solutions

Both companies have deep domain industry knowledge to help create what customers need.

One platform, endless possibilities

The 3DEXPERIENCE platform plus Capgemini consulting services combines a diversity of talents and breaks up the traditional silos.

To stay competitive in the fast-growing ADAS market — which is predicted to grow from US\$ 31.78 billion in 2022 to US\$ 131 billion by 2032, according to **Future Market Insights**. —OEMs and Tier1 suppliers must adopt digital technologies and harness the power of data. Deploying the AD/ADAS Digital Continuity and Collaboration platform sets the stage for this transformation.

About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2023 global revenues of €22.5 billion.

Get the future you want | www.capgemini.com

Ready to take the next step in your journey?

For more information, please contact our experts at
PartneringWithDassault@Capgemini.com

