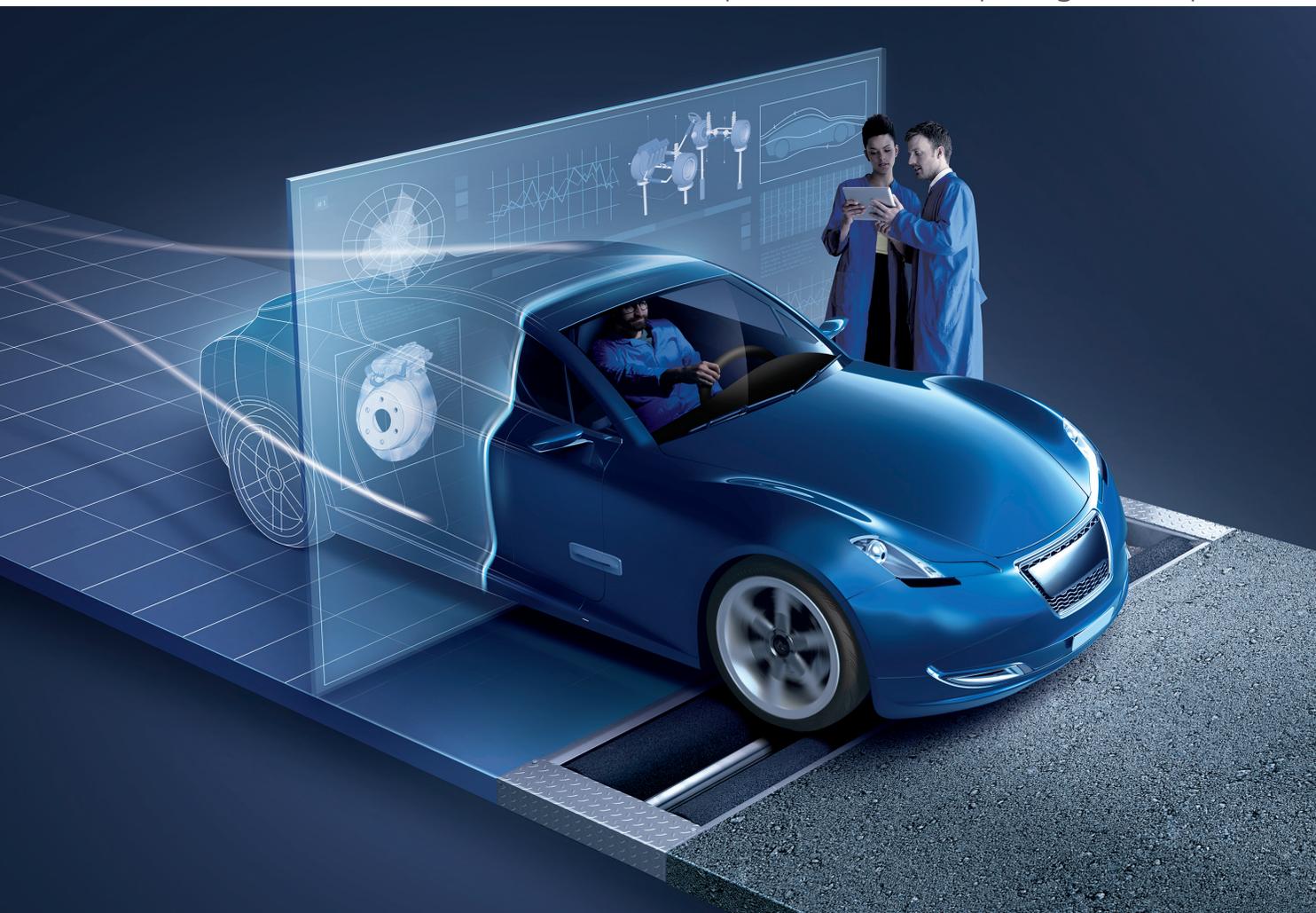




3DEXPERIENCE®

TRANSPORTATION & MOBILITY **GLOBAL VALIDATION, PROVEN PERFORMANCE**

Unify virtual and physical testing
to optimize vehicle quality and experience



AS YOUR BUSINESS SEEKS TO REDUCE RISK, WARRANTY COSTS AND FULFILL INDUSTRY REQUIREMENTS, WILL YOUR PRODUCTS PASS CRITICAL TESTS?

Progressively more sophisticated customer and industry demands have pushed vehicle performance and quality expectations ever higher. Simultaneously, advancing global competition requires the optimization of costs, acceleration of cycle time, and successful management of product quality, warranty claims and recall risks.

Global Validation, Proven Performance **3DEXPERIENCE®** solutions can enhance quality, save cycle time and reduce development costs by improving both your physical and virtual testing and validation. Reduce warranty claims and recall risks by leveraging holistic, integrated testing and validation capabilities, to ensure that all industry and customer requirements are successfully fulfilled.

UNIFY VIRTUAL AND PHYSICAL TESTING TO OPTIMIZE VEHICLE QUALITY AND EXPERIENCE



Define performance targets and ensure fulfillment

As customer and industry requirements become progressively more sophisticated so too must global teams, and their support systems focused on fulfilling them, be better equipped for the challenge. Global Validation, Proven Performance (GVPP) 3DEXPERIENCE solutions provide industry-proven capabilities to accurately define vehicle, system, and sub-system performance targets with analytics and reliable traceability. A centralized 'single source of truth' database ensures digital continuity, from concept development and testing, to final validation and production.

Mitigate risk of recalls, and enable cost savings

Ensuring vehicle quality, reliability and optimal performance requires the agile execution of test strategy, including the necessary and sufficient tests to validate the complete vehicle, critical systems, detailed functions and manufacturing processes. GVPP applications enable teams to best rationalize the quantity of tests required, while balancing quality standards and risk for recall, and execution of virtual versus physical testing to yield optimal results. Cost savings is supported via integrated budget estimation, allocation and monitoring resources.

Enable prototype traceability and improve quality

Another critical success factor is the ability to define, build, and maintain the optimal and necessary prototypes for testing execution. GVPP solutions provide sophisticated tools to manage prototype production and evolution, minimize physical quantity and cost, and assure integration and traceability between multiple systems and synthesis levels. Integrated prototype Bill Of Materials (BOM) management helps ensure optimal product/systems quality, production and service.

Verify, validate test plan execution, minimize risks

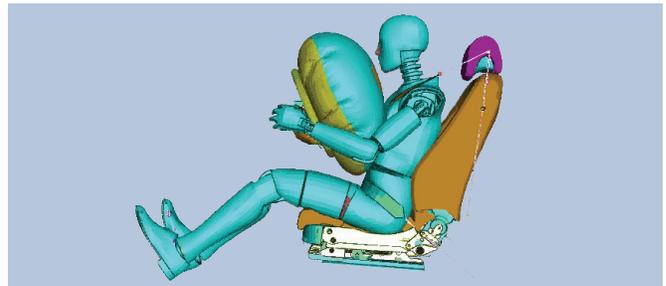
No testing/validation solution is complete without capabilities to prepare, execute, monitor and analyze all tests planned. Validation of vehicle requirements, from component to synthesis levels, can be completed based upon available global resources. Real-time task execution status reporting, plus early risk identification and integrated change management, can minimize risks of schedule delays.

Execute lean construction, certification and approval

As industry innovation advances, so do associated global regulations and certification requirements. Critical vehicle compliance details must be carefully managed to minimize risk of fines and penalties. GVPP helps you monitor factors such as safety, crashworthiness, and environmental sustainability, while providing an enterprise digital record and certification solution for managing certification processes, and long term data archiving and retrieval for audit purposes.

Optimize performance leveraging realistic simulation

Early virtual simulation in the development process can save the costs, time and resources associated with physical testing on expensive prototypes later. The 3DEXPERIENCE platform integrates industry-leading realistic simulation and analysis capabilities to validate and optimize design exploration, and extensive functionalities to address various workflows, multi-physics and open co-simulations.



GLOBAL VALIDATION, PROVEN PERFORMANCE BENEFITS:

- Define, optimize and validate plans across global organizations
- Reduce risk of recalls and warranty costs, while improving reliability
- Ensure data/process traceability from requirement to certification
- Virtually define, evaluate and improve overall vehicle performance
- Provide collaborative validation platform between OEM and suppliers
- Optimize global manufacturing resources and processes

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more details regarding **GLOBAL VALIDATION, PROVEN PERFORMANCE** industry solutions, go to www.3DS.COM/TRANSPORTATION



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