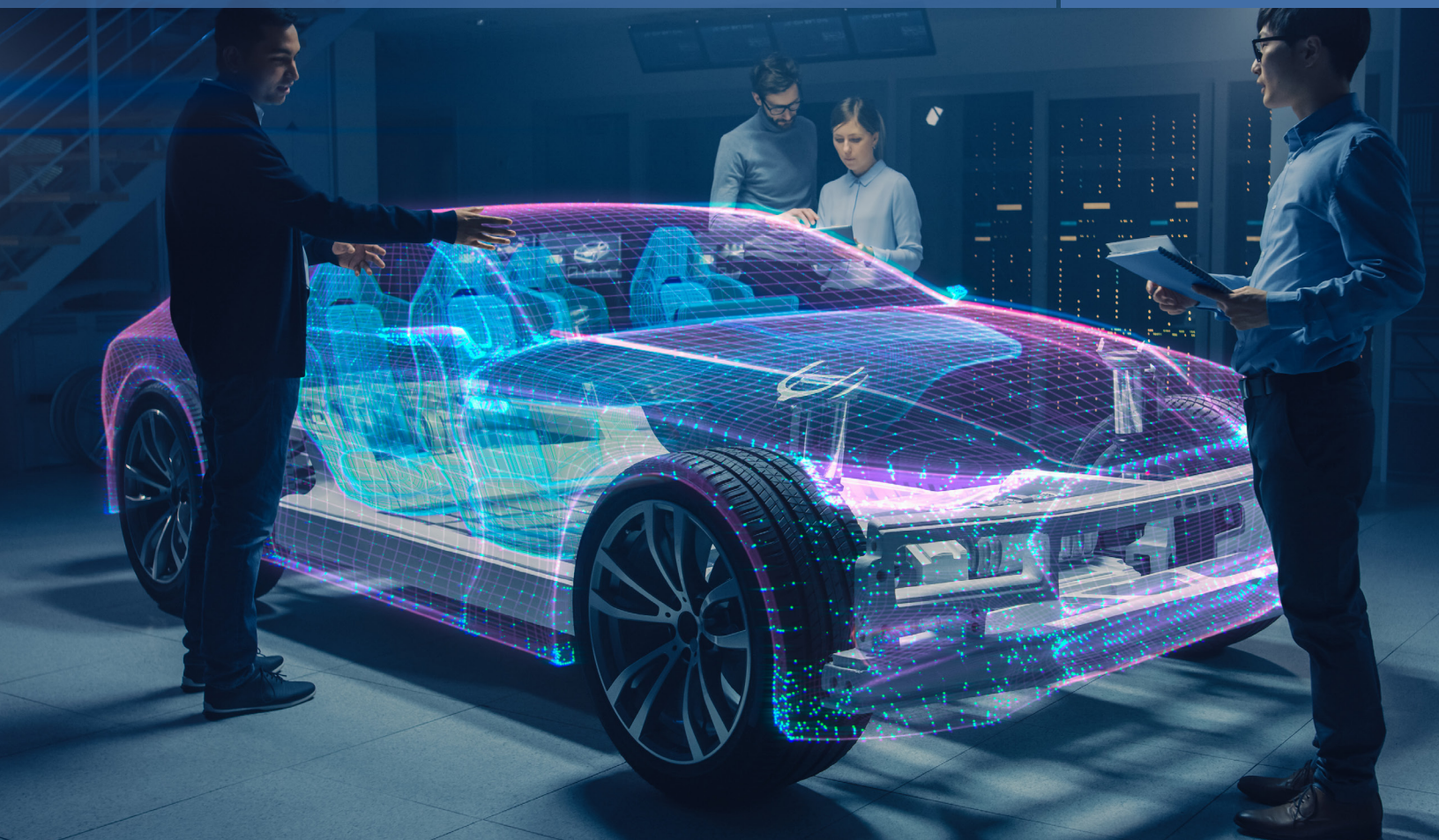




Automation for PLM and CAD Systems in the Automotive Industry

Revolutionize automotive design testing with Eggplant

Automate Testing of PLM and CAD Platforms

Keysight Eggplant is an innovative solution tailored specifically for the automotive industry's product lifecycle management (PLM) and computer-aided design (CAD) platforms. As a ground-breaking tool, Eggplant redefines test automation, empowering engineers to seamlessly automate tests for PLM and CAD applications without requiring intricate code exploration. Eggplant simplifies the automation process, enabling engineers to efficiently deliver exceptional results specifically designed to cater to the complexities of automotive design and development.

Automotive PLM and CAD environments encompass multifaceted systems involving 2D and 3D graphics, along with dynamic functions such as drag and drop, presenting significant challenges for automation engineers. However, Eggplant eliminates these challenges, offering a highly effective solution.

But with Eggplant, these obstacles become a thing of the past.

Don't let the complexities associated with non-regression testing in PLM applications hinder your progress. Eggplant's intelligent system proficiently adapts to changing HTML tag structures during version upgrades, significantly reducing maintenance efforts .

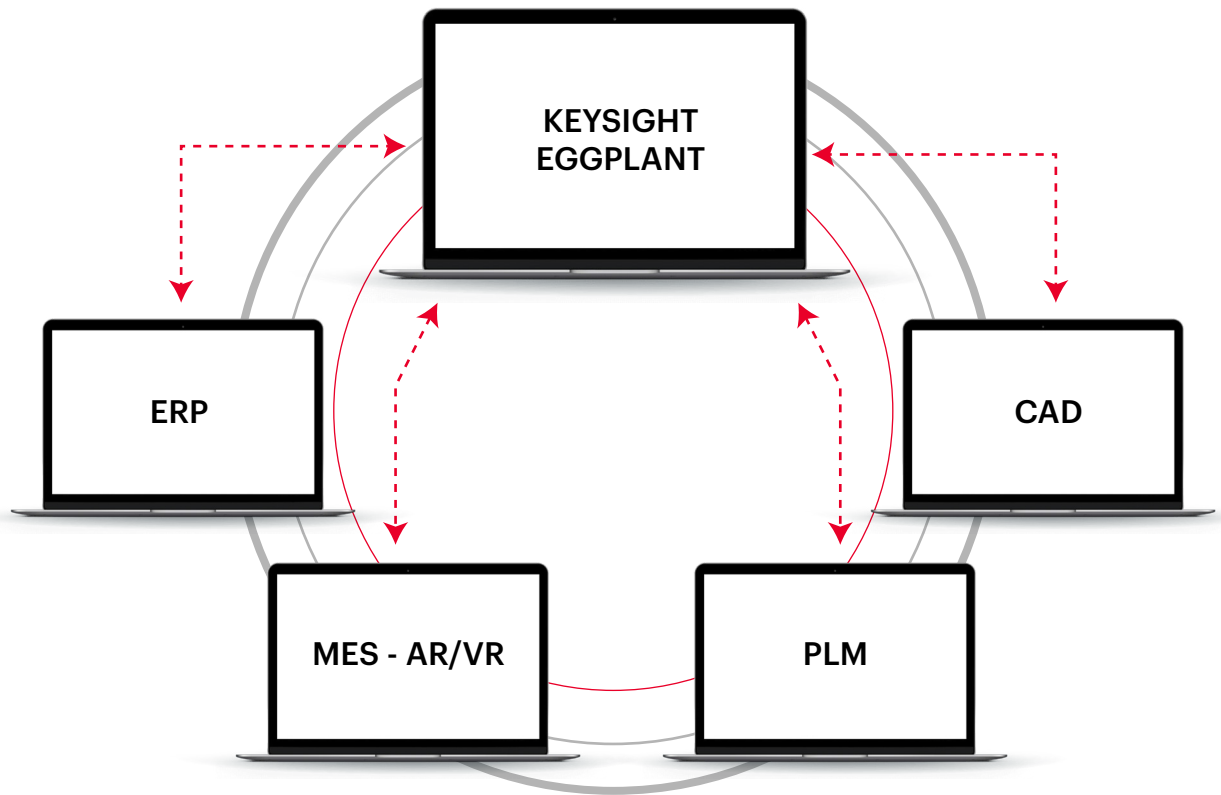


Figure 1. Eggplant enables end-to-end testing across all integrated applications

The Eggplant Solution

Eggplant uses computer vision technology based on optical character recognition (OCR) and graphic element recognition algorithms to automate testing specifically tailored for PLM and CAD systems. This approach enables the automation of non-regression testing by taking control of the keyboard / mouse and visually interpreting screen elements (text and graphics) crucial for automotive design validation and testing.

Seamless integration

Eggplant enables the testing of end-to-end scenarios, considering all integrated applications within the automotive PLM / CAD ecosystem, as well as the manufacturing execution system (MES) and enterprise resource planning (ERP) system.

Self-healing Capabilities

Eggplant's algorithms ensure script robustness and adaptability to changes in the locations and movements of graphic elements. SenseTalk, a natural language scripting language, facilitates computer vision utilization, which is especially beneficial in the automotive industry.

Image-based testing

Eggplant efficiently automates test cases for CAD applications, including assessing the integrity of moving 3D images. Eggplant easily constructs and associates parts with a bill of materials (BOM) within the PLM application for automotive design validation.

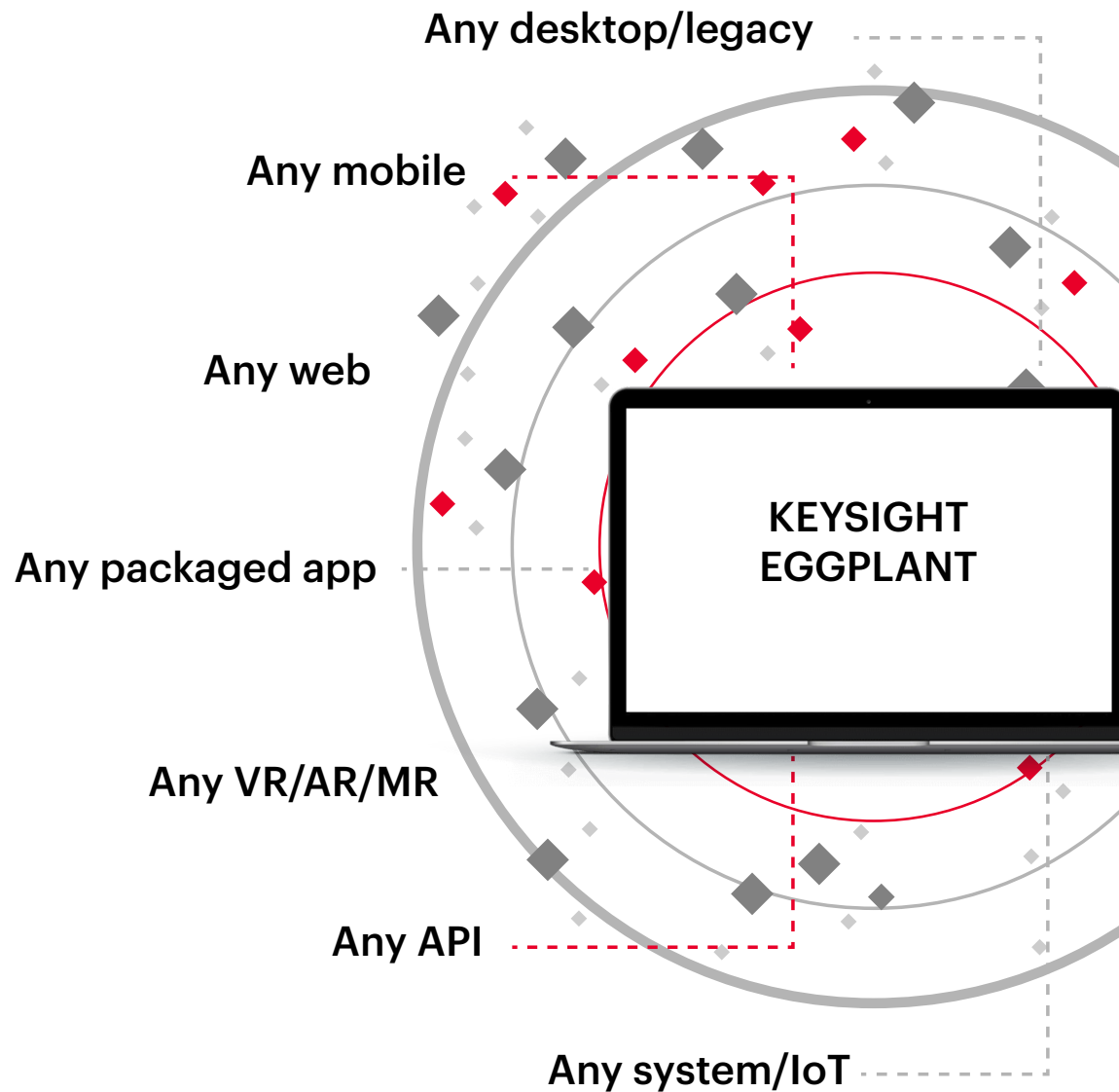


Figure 2. Eggplant is technology and platform agnostic, enabling you to test without being limited by your technical environment

Customization and Business Scenario Consideration

Eggplant accounts for all customizations within automotive PLM applications, enabling versatile testing scenarios that can involve CAD, MES, and ERP systems. Features like scrolling and drag-and-drop simplify the scripting of complex business scenarios on web applications, reducing maintenance time by eliminating tag modifications imposed by editors.

Seamless Integration into DevOps

Eggplant seamlessly integrates into DevOps environments, supporting headless mode operation and facilitating the transmission of comprehensive test results, including screenshots and videos.

Unlock the full potential of automotive PLM / CAD with Keysight Eggplant, a comprehensive automation solution designed to cater specifically to automotive PLM / CAD environments, whether they have thick or thin clients. Eggplant's state-of-the-art Computer Vision engine ensures limitless automation potential for all automotive business cases, including customizations, ultimately enhancing the automotive design and development process.

Learn more at: www.keysight.com/find/eggplant