3DEXPERIENCE®

IMMERSIVE
VISUAL EXPERIENCE

Immersive product validation at any stage
of the development process

CHALLENGES

Industrial designers, mechanical engineers, marketers, project managers, manufacturing planners and other decision makers in any industry face daily challenges during the product development process.

They now need to experience their design, with its volumes and proportions in a life-like environment which cannot be achieved in a computer-screen alone.

Virtual Reality provides an intuitive way to push the boundaries of creativity. Designers and engineers can facilitate the convergence of product aesthetics and technical requirements, while a marketer can better influence the user experience for more personal and emotional impact.

VIRTUAL IMMERSIVE REALITY

The **3D**EXPERIENCE® platform frees users to virtually design revolutionary and connected products, systems, infrastructures or even cities.

This enables the modeling of innovative ideas, and the opportunity to experience them before they even exist.

Viewing and manipulating data with very high resolution in an interactive and immersive environment improves the **3D**EXPERIENCE by putting users at the heart of the virtual product.

IMMERSIVE EXPERIENCE FOR ALL

The **Immersive Visual Experience** role provides the ability to run **3D**EXPERIENCE applications in virtual environments and on head mounted displays.

This immersive experience is available on every desktop, with support of the **HTC Vive™** head mounted display, within CATIA and on native data, without a specialized viewer and without translating data.

The truly immersive experience and natural navigation brings an enhanced spatial understanding of the product design for faster and more accurate design decisions. **CATIA** brings VR to everyone in one click.

BENEFITS

- Works directly with a wide range of VR technologies from entry-level to high-end systems: HMD, CAVE, Powerwall
- Stereoscopic rendering in real-time enables life-sized and spatial reviews of a 3D product
- Supports both passive and active stereo rendering systems
- User tracking capabilities for head and hands allow the user to interact naturally with the 3D scene

HIGHLIGHTS

- Easy evaluation of designs in realistic environments and lighting situations in real-time
- Accessible at any stage of product design to help make accurate design decisions
- Study colors, material, volume, proportions and 3D Human
- Native support for HTC Vive™
- Use multiple GPUs in a single workstation for smaller VR systems
- Cluster support with CAA Partner solution TechViz
- User tracking & navigation capabilities
- Tracking integration via VRPN

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

Dassault Systèmes, the **3D**EXPERIENCE® 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 220,000 customers of all sizes in all industries in more than 140 countries. For more information, visit **www.3ds.com**.

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