

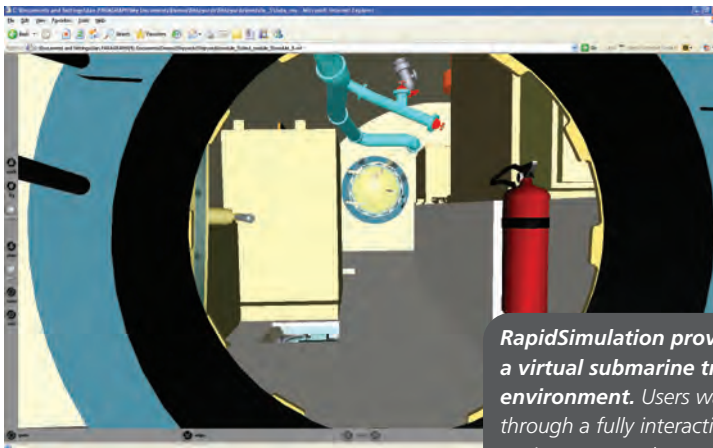
BRIDGE THE KNOWLEDGE GAP

Whether you're preparing astronauts for space or new recruits at an electronics factory, **3D simulations help bridge the knowledge gap**. Online 3D simulations offer a realistic, inexpensive alternative to physical mockups for training employees in equipment orientation, in a realistic mockup environment before exposing them to potentially dangerous situations.

Cortona 3D RapidSimulation is the first 'out of the box' toolkit for producing interactive 3D environments that lets users 'experience the machine' and fully understand how complex equipment really behaves. This fully immersive training environment enables users to interact within a 3D scene and change the state of objects, simulating real-world equipment. The user walks through an interactive 3D environment choosing, for instance, to walk into a room and turn on the light. This action triggers a state change in the server and a corresponding change in the training environment. 3D simulation is a key learning tool for operational training on complex procedures in high risk, potentially hostile environments.

CREATE 3D IMMERSIVE ENVIRONMENTS IN MINUTES

1. Create a library of 'smart' interactive objects using predefined logic templates for 3D training environment
2. Associate required animations with smart objects, ie: dial being turned
3. Assemble the scene within the training environment -both static and smart objects
4. Associate the 3D environment with back-end server logic
5. Create 3D training environment by publishing the scene



RapidSimulation providing a virtual submarine training environment. Users walk through a fully interactive 3D environment and 'experience the machine'.

THE IMPACT IS POWERFUL!

A wide variety of scenarios can be identified where people in remote locations can 'experience the machine' without the cost and inconvenience of physical mockup training.

BENEFITS AT A GLANCE

- **Trains employees in a safe, virtual 3D mockup environment.**
- **Accelerates training timelines** by rapidly producing high-quality, interactive 3D training simulations and reducing time spent in hands-on training with actual machinery.
- **Produces better, more accurate training** with real-world simulations generated directly from CAD design data.
- **Cuts physical mockup costs** by replacing mockups with interactive 3D models.
- **Heightens product awareness** by widely sharing accurate, high quality and innovative support data.

WHO USES OUR PRODUCTS?

- L3
- Boeing
- Ford
- ESA
- Airbus
- NASA
- Pfizer
- General Atomics
- Volkswagen

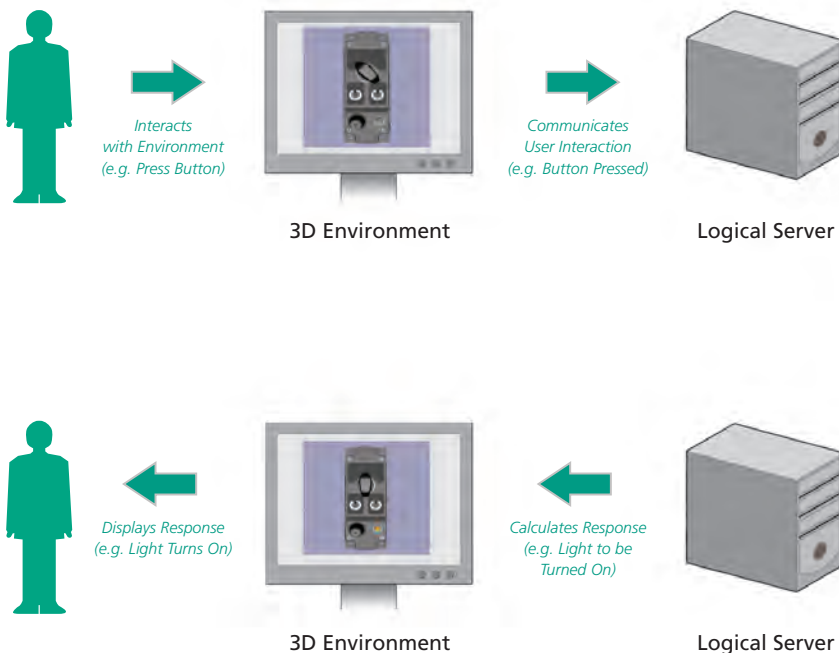
What's the result? If a picture is worth a thousand words, then a fully interactive 3D model tells the complete story. By moving around the environment and interacting with it, users quickly and intuitively explore and understand full functionality.

RapidSimulation provides a 3D environment interface to a server, which determines the logical results of the user's actions.

HOW IT WORKS

'Visual Know-How' Shows Users the Complete Environment

- User interacts with a 'smart' object within a scene in the 3D environment.
- 3D environment responds to user action. For example, it plays an animation of a button being pressed.
- Environment communicates the user action to the server.
- The server determines the result and communicates with the effected smart objects.
- 3D environment reacts. For example, the light gets turned on.



ESA & EFFECTIVE PLANNING

The European Space Agency uses Cortona3D for effective planning and maintenance of cargo storage in the Automated Transfer Vehicle, a space vessel for shuttling cargo to and from the International Space Station.

The ATV Intravehicular Configuration Tool is a 3D editing tool powered by Cortona 3D that enables the effective planning and maintenance of cargo storage for the ATV.

With ATV ICT, the personnel responsible for logistic operations on ground at the ATV Control Center can easily try different storage and tools layout configurations and select an optimal one before the real operations start. This is a really time-saving and error-reducing solution.



FEATURES

- No 3D or CAD expertise required
- ISO open standard enables seamless integration with other applications
- Lightweight format for delivery over the Web, or intranet using laptop
- Intellectual Property is protected as optimized CAD data cannot be re-engineered
- Integrates into existing work processes
- 'Dynamic update' ensures that changes are easy to upload and reflected in all materials

SYSTEM RECOMMENDATIONS

- 1.5 GHz microprocessor or higher RAM: 512 MB
- Windows 2000 SP2 or Windows XP, Internet Explorer v. 6.0 and DirectX 7
- Additional software: Microsoft XML Core Services (MSXML) 4.0