

Shell ACE VR centre, Lutong, Malaysia

Simultaneous display of multiple mono and stereo sources

“There is now much less time needed in getting the project data displayed, and more time spent collaborating as everyone can now visualize multiple datasets from different IT platforms at the same time.”

Louis Po, ACE VR coordinator



The upgrades of the Shell ACE VR centre in Lutong (Sarawak-Malaysia) definitely create a WOW effect among Shell's oil & gas experts. Seeing multiple mono and 3D stereo sources simultaneously on the curved immersive screen makes cross analysis of data very easy. All 3D stereo windows are synchronized and experts wearing comfortable lightweight Infitec glasses enjoy excellent stereo depth perception. No other system in the industry can do this yet.

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Sources and stored window layouts are identified by icons on the screen and can easily be accessed by using mouse and keyboard.

By seeing and analyzing several sources at once cross-analysis between data becomes much easier.

Simultaneous display of multiple sources in mono and 3D stereo windows

The most impressive innovation for the Shell ACE VR Center is the first use at Shell of a Barco XDS-1000 display management system. Barco's XDS-1000 enables simultaneous display of inputs from mono and stereo sources in native resolution in multiple windows on a multi-channel display wall.

"The ACE VR centre allows displaying software used by the subsurface and surface community; projecting both LINUX and Windows platforms on the same screen gives a better perspective and a real sense of scale" says Anura Dason, seismic interpreter.

Users easily access all sources via the familiar Windows GUI

"The desktop of the XDS control center is identical to that of all other Barco systems used at Shell and functions the same way as a user workstation. The ability to easily switch from one data source to another is crucial to the success of the Shell Lutong-ACE VR centre at Sarawak Shell Berhad. You don't want people to have to run back to their workplace to retrieve their data. By seeing and analyzing several sources at once, mono and stereo-images, cross analysis between data becomes much easier." – Louis Po

Via a familiar Windows GUI, software developed by Barco gives users direct access to multiple sources including GID-PC 3D stereo Windows, a high end Linux 9400 workstation, a High Resolution PC and 3 laptops, XGA video conferencing and DVD video, 3 additional external sources and a 3 channel from the real time operation centre (RTOC). Sources and stored window layouts are identified by icons on the screen and can be easily

accessed by using mouse and keyboard. Each source is displayed in its own native resolution, without loss of frame rates and all stereo windows are synchronized for simultaneous viewing. Windows can be sized, moved, minimized and recalled for optimal meeting efficiency. Room lighting and the audio system, including microphones on the V-desk and the console desk, are controlled through a wireless touch control screen.

Easy switching from passive to active stereo or mono mode

As the 3 channel display system is powered by three Barco Galaxy 7+ projectors with built in motorized color corrected Active Infitec+ stereo filters, the system can easily be switched from Infitec to active stereo or mono mode on the wireless touch panel.

Full transparency to all relevant teams - Fully integrated planning

"The ACE room not only gives the seismic interpreter rapid and smooth access to manage large data sizes, also other specialists such as well engineers, production geologists, geophysicists and reservoir engineers, can easily manipulate the data and juxtapose windows with own datasets, allowing everyone to visualize and challenge the model. The power of the ACE room lies in its ability to show the technical work in full transparency to all relevant teams, allowing them to make informed decisions based on collective judgment and resulting in a fully integrated planning" concludes Andrew Chan, seismic interpreter/exploration geologist.

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