

VR and AR: A safe landing on the plant floor

VR and AR empower manufacturers to gain insights into their equipment health and product models. This leads to operation and process efficiencies, which in turn enhances product quality and reduces time to market.

These technologies leverage sensors, cameras, smart devices and wearables, and other Industrial Internet of Things (IIoT) tools.

Training becomes easier, as workers are given a visual, hands-on experience in front of the machines, and this leads to improved assembly, and maintenance.





Manufacturers can leverage AR/VR functionalities for multiple operational activities on the factory floor, including:

- Virtual Plant Tour
- VR Machinery Operation Training
- AR Enhanced Technical Manuals

Virtual Plant Tour

Using VR, a customer can walk-through the factory and see remotely exactly what the factory looks like.

This experience is multi-user and both the guide and the customer could go into the experience and see what the factory and infrastructure looks like, while the guide could explain the processes to the customer while both are inside the experience

The High-end VR experience can be used for training staff as well.





VR Machinery Operation Training

The main benefit of heavy equipment training in VR is the opportunity to support machine operators' professional growth. In most countries, the only legal requirement for heavy equipment operators is to pass the official exam and hold a proper licence. The licence however is not always the best indicator of the operator's manual skills.

In an environment where even a tiny mistake might prove extremely costly, it's in the best interest of the company to invest in machine operators' manual skill growth.

That's why a VR training simulator is such a great solution. Studies show that VR training systems are just as effective as the traditional ones. Furthermore, over 80% of users find VR training to be the best learning method.

Considering the fact that VR training is cheaper and safer than the traditional one, it is no surprise that more and more companies are investing in training programs based on VR.

AR Enhanced Technical Manuals

AR can be used to greatly enhance existing Technical Manuals. Instead of browsing pages and pages of boring technical details, operators can scan the diagram of an equipment using a mobile phone/Tablet and a highly detailed 3D model of the equipment can pop into view.

The operator can then explore the functionality of the equipment by interacting with the phone. This leads to much better understanding and retention of the operation of the equipment than diagrams alone.





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