

# Virtual Reality in Engineering





With more than 35 years' experience in South Africa, iX engineers provides professional services for the design development and through-life-support of infrastructure; including airports, roads, rail, dams, water supply, water treatment, wastewater, buildings, urban infrastructure, power transmission and distribution infrastructure.

Additionally, iX engineers is able to merge technology and reality by offering Virtual Reality as an additional service.

## What is Virtual Reality?

Virtual Reality (VR)- a visualization tool allowing designers to bring their 2-dimensional drawings to life in 3-dimensional spaces, providing the team with an effective way to improve designs early in the project life cycle. By utilizing a VR head mounted device one places oneself in a 3D generated environment of a design, allowing the user a more informed and interactive approach to making design decisions.

### ► Design analysis through Virtual Reality

Interrogate designs in a real-world sense; before, during and after construction. Develop numerous alternatives avoiding rework, project delays and associated costs, improving overall project execution.

### ► Stakeholder Engagement

Stakeholders simultaneously provide input on their areas of expertise. Clients, designers, contractors and community members all explore the design in a visually impactful and realistic way, improving collaboration and better communicating design intent.

### ► VR - an efficient, accessible, safe and cost-effective tool

- Stakeholder Engagement
- Operation & Maintenance, Health & Safety Simulations
- Construction Risk Reduction
- Asset Management
- Learning and Teaching

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For more information on virtual reality, or any other services offered by iX engineers, feel free to contact us at [info@ixengineers.co.za](mailto:info@ixengineers.co.za) / 012 745 2000

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