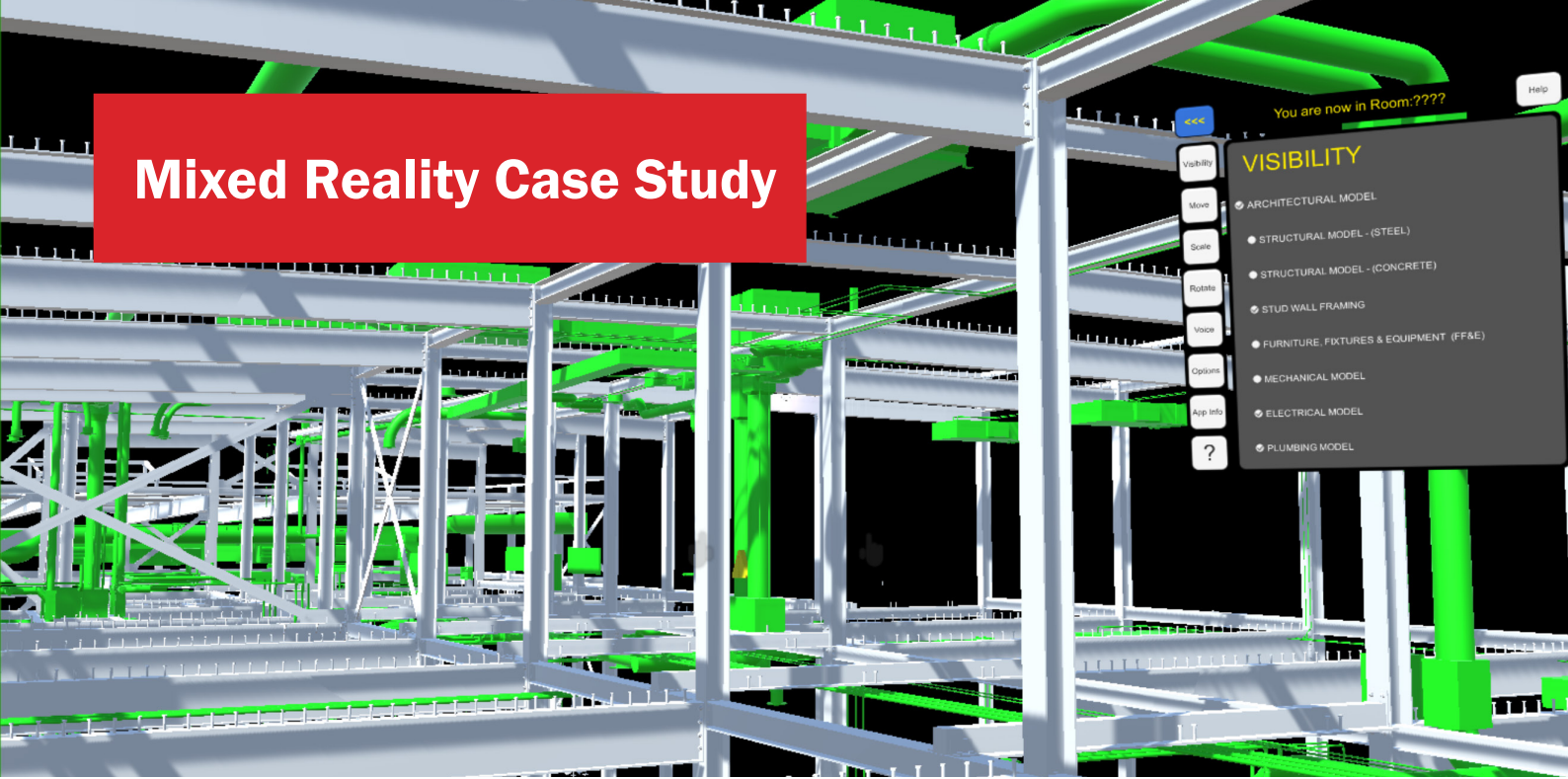


Mixed Reality Case Study



The Challenge

To allow site staff to view design information overlaid onto the physical structure and interact with elements to improve productivity and quality. This involved Kier working alongside Mark Danso from the University of Portsmouth to provide industry knowledge and requirements for the system.

Actions

- Mark Danso developed an application that allows users to view and manipulate objects from 3D design models within the Microsoft HoloLens environment
- Kier gave feedback on what features they require, for example; H&S warning signs and noises where risks are known, ability to view drawings, videos and images on flat surfaces, view underground services
- Perform a demonstration to Kier staff at a live construction site

Benefits

The ability to overlay design information over a partially built structure gave many potential benefits such as:

- Quality control/snagging
- Opening drawings onto flat surfaces such as floors or walls
- Setting out sense checking
- Avoiding known SHE hazards
- More effective communication of design decisions on site

The Future

Key areas of future development will focus on the following:

- Improved geolocating and spatial mapping
- Workflow to allow components to show data
- Integrating with buried services GIS map

Client

Oxfordshire County Council

Location

Didcot, Oxfordshire

Project type

Design & Build Primary School

Value

£5.7m

Start Date

30 May 2017

