3D Repo Brings Cloud Expertise to Smart Infrastructure Project

3D Repo, a multi-award winning provider of cloud software solutions for collaborative Building Information Modelling (BIM), is applying its expertise to a UK government innovation agency funded project. Working alongside project lead Skanska and project partners Building Research Establishment (BRE), UNIT9 and CartoConsult, 3D Repo will help develop a single, integrated and accessible platform where data relating to every aspect of an infrastructure project can be visualised and analysed. The UK Innovate funded Visualise project will also allow for the sharing of information, bringing together data from BIM, Geographical Information Systems (GIS) and other asset databases.

Organisations such as Skanska are responsible for building, maintaining and managing multiple infrastructure assets on behalf of local authorities, transport operators, utility companies and other facilities such as schools and hospitals. Assets can be distributed over wide geographic areas, and the management of different assets is traditionally isolated and within 'closed' systems. Whilst geographical, asset, live monitoring and other data may be available, it is not effectively shared or used to evaluate large scale data patterns. This can mean that trends between different asset types, for example by ownership, location or other shared classification, may not always be identified.

The Visualise project will develop a data integration, visualisation and analytics solution for smart infrastructure. Providing better intelligence and functionality for asset managers, the project will enable better asset management, reduce the risk of failure and improve lifetime performance. The additional intelligence will also lead to productivity improvements, costs savings and improved business offerings to asset owners.

"Visualise will utilise a cloud based Software-as-a-Service environment, something we are specialists in, to accept data from multiple sources, bringing together the previously disparate fields of BIM, GIS and asset management, " commented Dr Jozef Dobos, CEO of 3D Repo. "By working in partnership with other specialists, such as Skanska, BRE, UNIT9 and CartoConsult, and with funding from Innovate UK, we can develop, assess and commercialise a unique collaborative solution that aligns with the requirements of the major players in the infrastructure asset design, construction and management sectors."

The Visualise project was awarded funding by Innovate UK, the UK government's innovation agency under the project theme of 'Smart, resilient, integrated infrastructure'. The commercial research project will run for 18 months from spring 2017, and will develop and demonstrate a Proof of Concept version of the Visualise solution which will be evaluated with real world project partners.

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