

Reduction and Containment of Scope Changes, Rework and Errors in Infrastructure Projects: The Enabling Role of Building Information Modeling

Construction and engineering infrastructure projects often experience cost and schedule growth. Major contributors to cost and schedule growth are changes in project scope, design errors and rework. In this paper we use case examples to demonstrate how Building Information Modeling can be used to significantly improve the performance and productivity of infrastructure projects for asset owners and clients.

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Dr. Peter Love is a John Curtin Distinguished Professor at Curtin University and CSI Global Services Chair in Building Information Modelling. He is a Fellow of the Royal Institute of Chartered Surveyors (FRICS) and recipient of 2010 Scopus Young Australian Researcher of the Year Award (Humanities and Social Science) and was a member of the Australian Research Council's Engineering and Environmental Science Panel for the 2010 Excellence in Australian Research Exercise. Dr. Love has published more than 500 peer reviewed research papers and multi-disciplinary background. His current research focuses on improving the performance and productivity of construction and offshore projects.

Ian Simpson



Ian Simpson has over 20 years' experience within the construction industry with multiple disciplines (Subcontractors, Builder, Estimating & Design technology) he is currently the Asia Pacific Consulting Managers for CSI and manages a team of experienced BIM Managers that are deployed throughout the globe to deliver BIM projects. AEC Systems are engaged by Asset Owners/Construction companies at the beginning of a project to integrate BIM processes throughout the Design and Construction phases so the intelligent information can be captured early and utilized to improve the management of the Asset Owners facilities throughout the life of the facility.