EURAMET Spring Camp on Digitalisation
25-28 March 2025, Slovak Institute of Metrology (SMU), Bratislava, Slovakia

Keynote

Building Information Management, delivering a digital solution for the built environment

Paul Oakley, Oakley CAD Services Ltd, London

Abstract

Building Information Management (BIM) is identified as utilising information-rich 3D models, through collaborative working processes, to eliminate waste and improve the quality of information provided, for the design and construction phases of built environment projects.
The British standards and publicly available specifications, identified as the UK Government BIM Mandate, have now been internationalised with process and methodologies documented within the ISO 19650 series and supported by CEN Standards.
BIM also provides the opportunity to deliver structured information, and asset information models, which can then be utilised through an agreed process to inform sustainability, circular economy, facility management, and asset management systems.
Delivering digital twins integrated with the internet of things (IOT) and artificial intelligence are all identified and demonstrable benefits of adoption. However, what is the reality, the blockers and why is the built environment sector failing to deliver this digital dream?

Paul Oakley BA(Hons) Dip Arch RIBA
Paul has over 30+ years' industry experience using information technology such as Computer Aided Design (CAD) and Building Information Modelling (BIM). He is Director of Oakley CAD services Ltd and owns BIMeLearn.com, an eLearning platform dedicated to teaching the principles of information management to improve collaborative workflows.
As an Architect Paul helped establish the principles of Avanti embodied in BS 1192:2007 and ISO 19650 as information management. Paul was previously Head of BIM at the Building Research Establishment (BRE) and Director for buildingSMART (UK and Ireland). Paul has provided training, advisory services and driven organisational change whilst travelling the world implementing the principles of ISO 19650, including Australasia, middle and far east Asia, South America, Europe and the UK. As well as British Standards and industry guidelines, Paul contributed to the authoring of the Hong Kong CIC BIM Standard (General) Version 2 and the Ireland CIF Digital Construction Pack.
Paul has a specific interest in Data Dictionaries and supports the development of Activeplans' digital solutions for Project Information Models, Data Templates, Asset information requirements and Product Data Libraries. Paul has been an Autodesk ADN Member for over twenty years and developed the Activeplan Revit Connect solution.
Paul sits on the British Standards Institute (BSI) B/555 Committee as an Industry expert. He also represents the BSI at CEN and ISO on CEN/CLC/JTC 24, CEN/TC442, ISO/TC 59/SC 13/WG 13, ISO/TC 59/SC 13/WG 6. and ISO/TC 10/SC 08/WG 18.