

## Keynote speech presented by US lawyer James Salmon

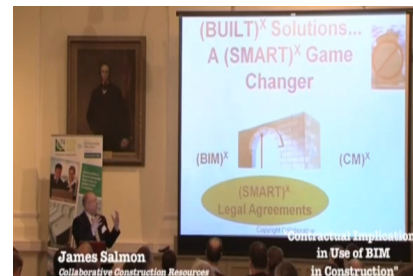
James L. Salmon, of Collaborative Construction delivered the keynote address at CITA's October Building Information Modeling (BIM) Workshop. The presentation addressed the Legal Implications of IPD and BIM, and, the business opportunities they enable. Ireland's building industry, like others, is seeking to leverage Information Age advances to increase productivity and profitability. Switching from Computer Aided Design (CAD) to BIM is one mechanism by which those advances can be leveraged.

James noted benefits from BIM and related collaborative processes increase efficiency of operations and maintenance in built environments. He advocates improved collaboration through proven web-based tool sets to create meaningful BIM. These models help achieve many different goals and BIM can mean many things. BIM can mean Building Information Management; Business Information Modeling; Business Innovation Modeling; Business Information Management and more. James uses the term “(BIM)X” to indicate the complexity of the topic. Similarly, James raises “CM” to the X power as it means Construction Management, Change Management, Cultural Management and more. He argued the Irish built industry is well positioned to take advantage of recent innovations, including BIM and integrated project delivery (IPD) which many characterize as (SMART)X Game Changers. James defined (SMART)X Game Changers as simple, scalable, meaningful, actionable, relational and transformational innovations.

Each built industry stakeholder James presented to expressed different concerns. The OPW expressed frustration with the the lack of flexibility in the new agreements authored by the Government Construction Contracts Committee. The OPW, the Irish government, the Irish economy and the built industry in Ireland may benefit from the successful completion of a series of pilot projects utilizing an integrated procurement program in the request for proposal (RFP) and request for qualifications (RFQ) phase, integrated project delivery

(IPD) in the design and construction phase and integrated operations and maintenance (IOM) during the operations and maintenance phase.

James' presentation to ACEI focused on BIM as the new standard of care for built professionals and the use of Forensic BIM to investigate project failures of all kinds. ACEI's concerns generally mirrored those of the OPW staff, though there was a greater focus, during the ACEI meeting, on insurance and construction claims. The presentation to the Society of Chartered Surveyors of Ireland focused on interoperability and the importance of NOT delivering Humpty-Dumpty BIM to an owner. Members of the Construction Industry Foundation expressed serious concerns and reservations regarding



the continued use of the agreements published by the GCCC. James explained how carefully tailored legal agreements associated with (BUILT)X

Solutions, (BIM)X and (CM)X support and enable the process. James presentation to the Royal Institute of Architects of Ireland focused on the role architects play not only in delivering BIM during the planning, design and construction phase, but also in delivering an integrated (BIM)X owners can leverage to increase efficiency during operations and maintenance. Members of the Law Society conveyed concerns, both from their own perspective and the perspective of their clients, regarding the public agreements published by the GCCC and in use throughout Ireland.

The discussion of (SMART)X Game Changers for the built industry in Ireland with stakeholders in that industry proved intellectually stimulating. Ireland faces numerous challenges in rejuvenating its economy, but viewed through the lens of innovation many of those challenges actually represent opportunities.