

Gathering21

Construction Innovations
for Future Generations

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to virtually, the most important conference
in Irish Construction this year



5th CitA BIM Gathering Virtual Conference
21 - 23 September 2021

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Day Three

Thursday 23rd September 2021

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Keynote
Speaker

Herman van Eeden

Senior Consultant



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BIM Revisions: Bringing Cost Plans to Life



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What is Scope Creep?

Scope 'creep', a progressive growth of project quantum and quality over that provided in the project cost budget, is a major cause of cost-overruns

Changes to the building function, quantum and quality, which occur regularly throughout the design process, having a direct impact on the project cost budget





Traditional Process

Limited communication between the parties

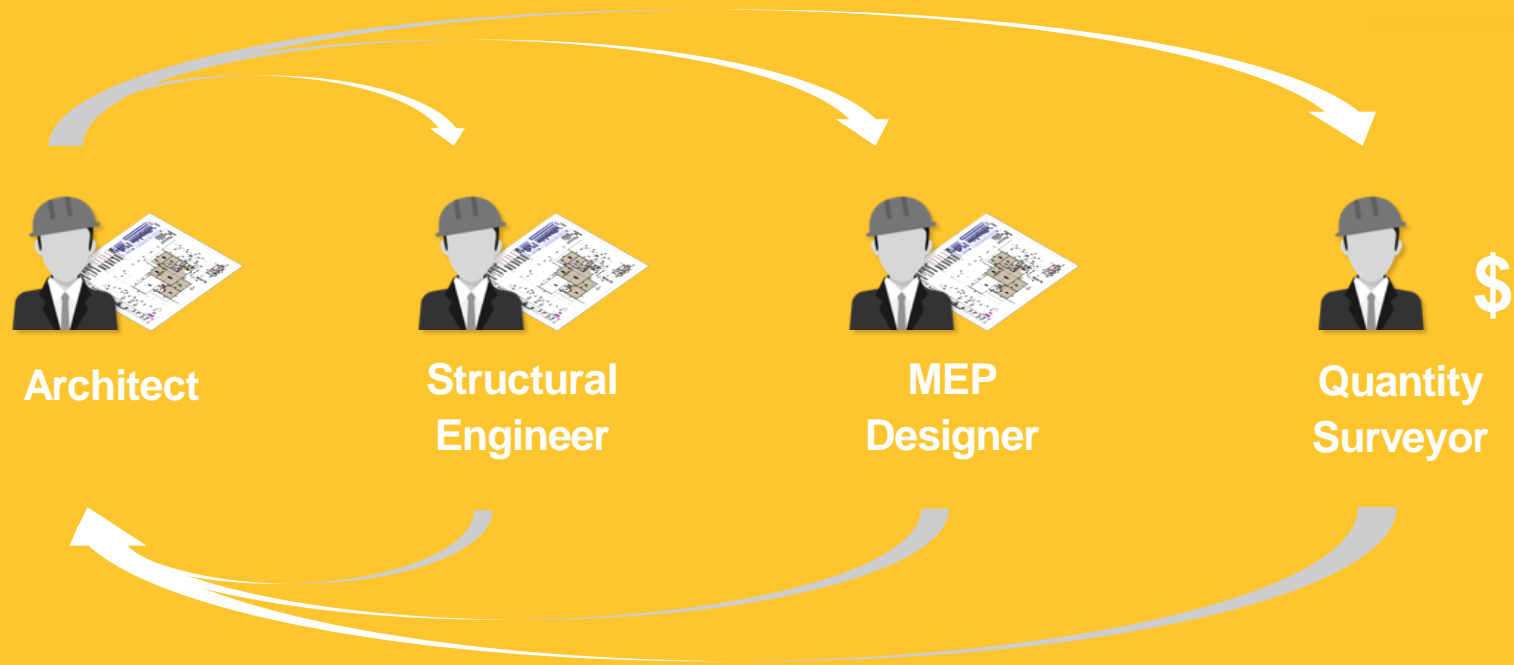
- Assumptions
- Restrictions from inherited design imposed on subsequent design parties

Separate designs at staggered issue

- Co-ordination issues
- Effects of change by one party not readily apparent to the others



Traditional Process





Benefits of BIM

- Simulate & analyse appearance, cost & long-term performance of the building
- Quickly & easily create detailed design information
- Test & prove design before work starts on site
- BIM allows all team members to contribute to the creation of better buildings, delivered faster and with reduced environmental impact





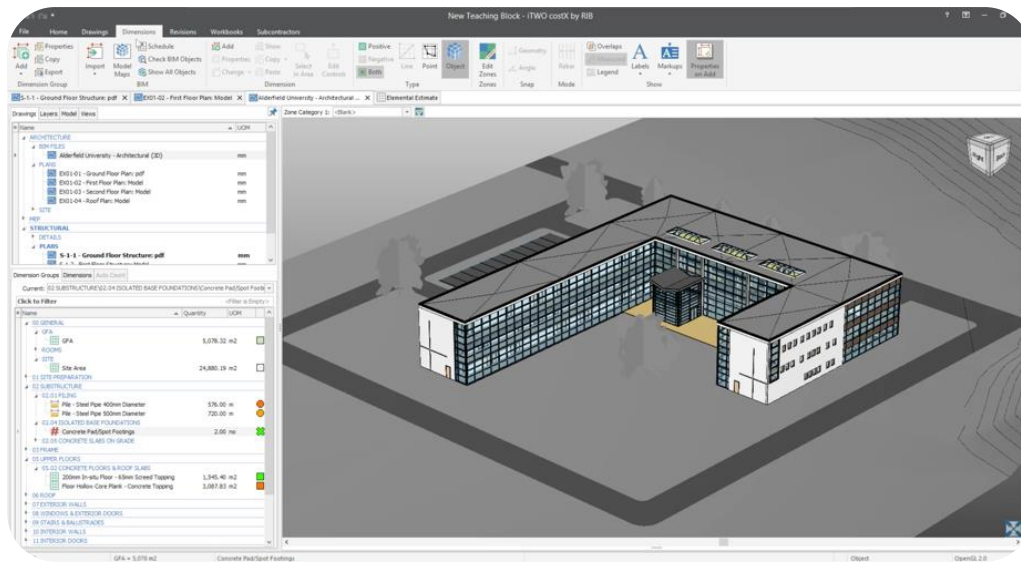
BIM Revisions & Complications

- With the advent of BIM however, there is an increasing complexity of buildings themselves driven by ever more dramatic building forms
- Interpreting and accurately quantifying these forms from two-dimensional representations can prove difficult and time-consuming
- Invokes a heightened aspect of risk for the estimator in accurately assessing the associated quantities and costs



The next step...

Specialized estimating software enables the user to use the inherent object properties in the model to be extracted as opposed to measured, engendering huge time savings and improved accuracy in quantity take-off





BIM Revisions

Enables a rapid analysis of comparative designs

- What if scenarios?
- Whole project cost and time savings (design – FM)?

Increased accuracy

- Greater certainty of cost – Live links

Quicker feedback of cost to design team at an earlier stage

- More collaboration on design involving the QS



In Summary

BIM can be employed to quickly measure and analyze the alternative costs of 'what if?' scenarios, enabling swift feedback to designers & clients

Implementation of iTWO costX to facilitate a collaborative BIM workflow will enable its users to deliver improved building design, efficiency & performance