Construction Innovation in Housebuilding Hill Construction's BIM Journey

John Foster

BIM Business Manager, Europe

@JF_Topcon



Class summary - CS17838

This class will be delivered by Hill Construction, a U.K.-based housebuilder, supported by Topcon Corporation and Autodesk, Inc. Hill Construction will describe its Building Information Modeling (BIM) journey so far, and how the firm has applied BIM 360 tools into its workflows on a complex construction project undertaken by Hill Bespoke in Cambridge, England.

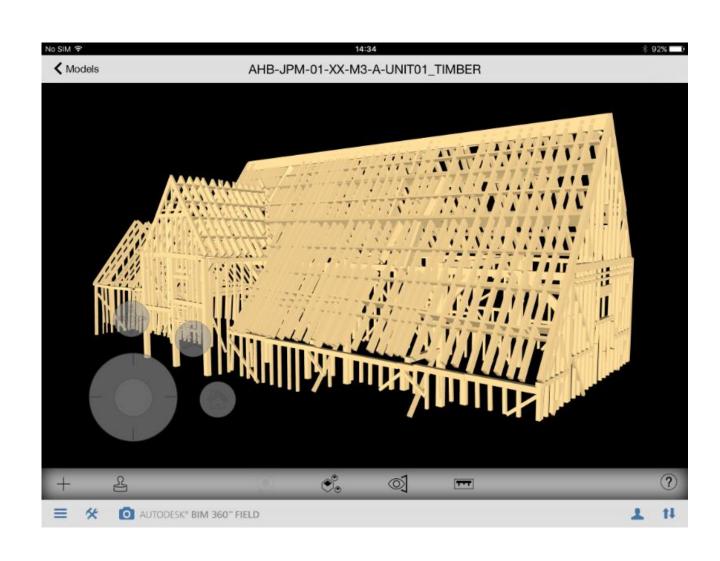


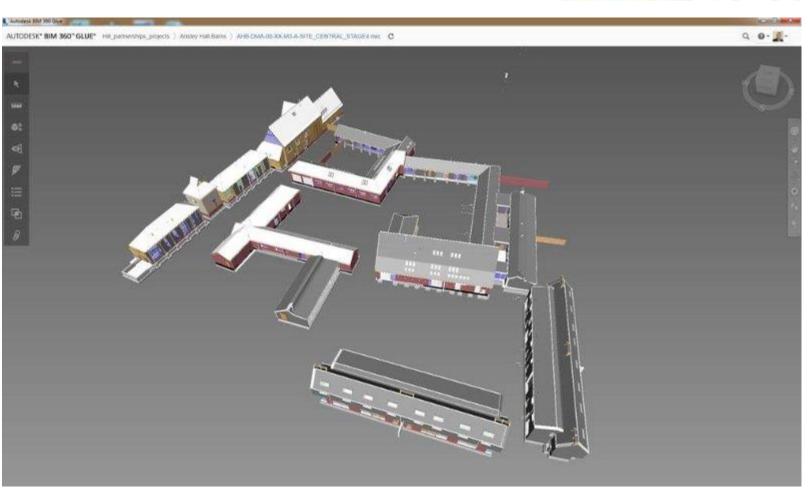
Mike Beckett
Managing Director,
Hill Bespoke



Hill Construction, UK







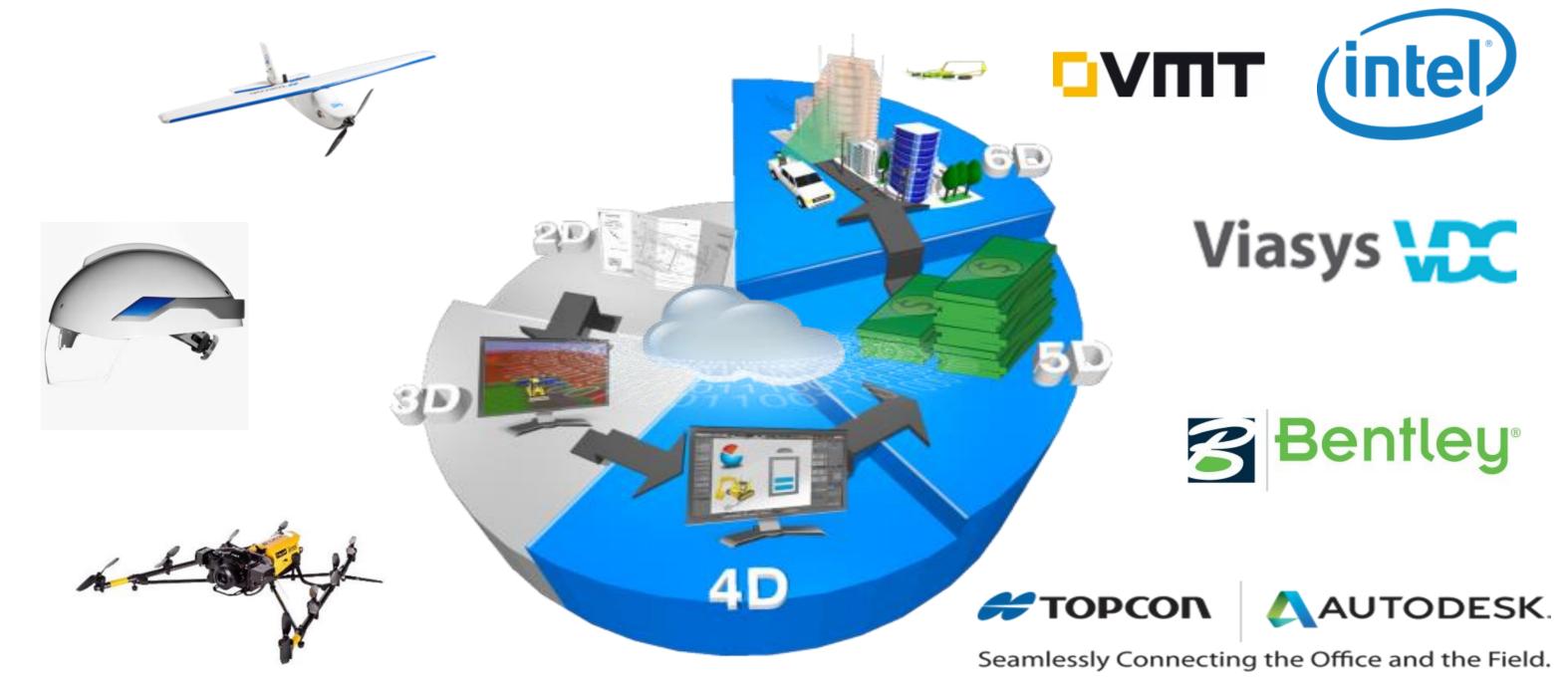
A Fully digitised approach to a complex small-scale project





Smart Partnerships







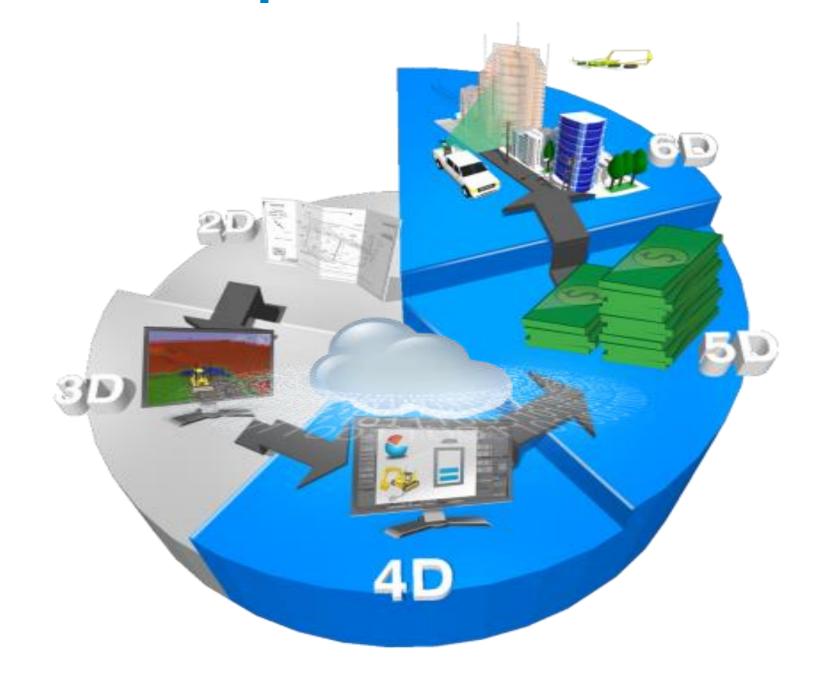


Smart Partnerships for efficient BIM processes...





Seamlessly Connecting the Office and the Field.





Our BIM Focus

Workflow optimization for:

3D Model driven Layout



Reality Capture











BIM Innovation Program Current BIM360 Layout/QC pilots in EMEA

SKANSKA





Balfour Beatty















Seamlessly Connecting the Office and the Field.

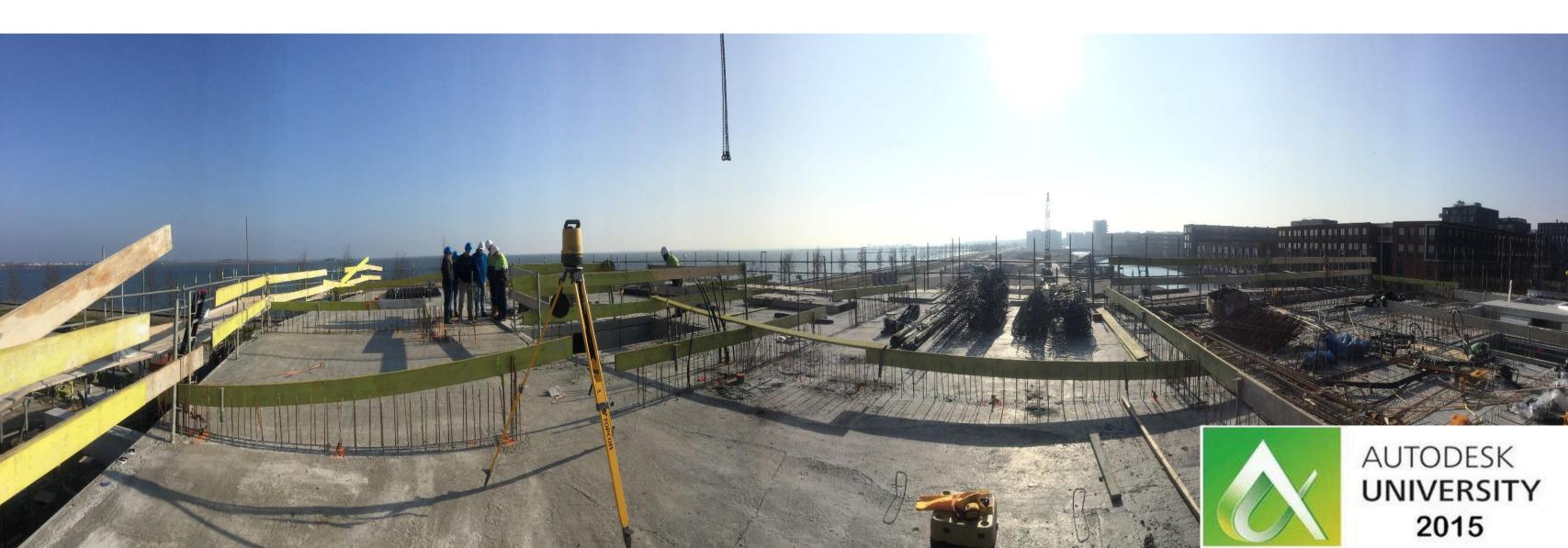




TBI enters into EBA First Dutch client working with APL / BIM360/ Topcon Layout Navigator

"We began dimensioning digitally to prevent errors and to save time"

Arjen van der Klis, TBI



JJ Rhatigan, Ireland





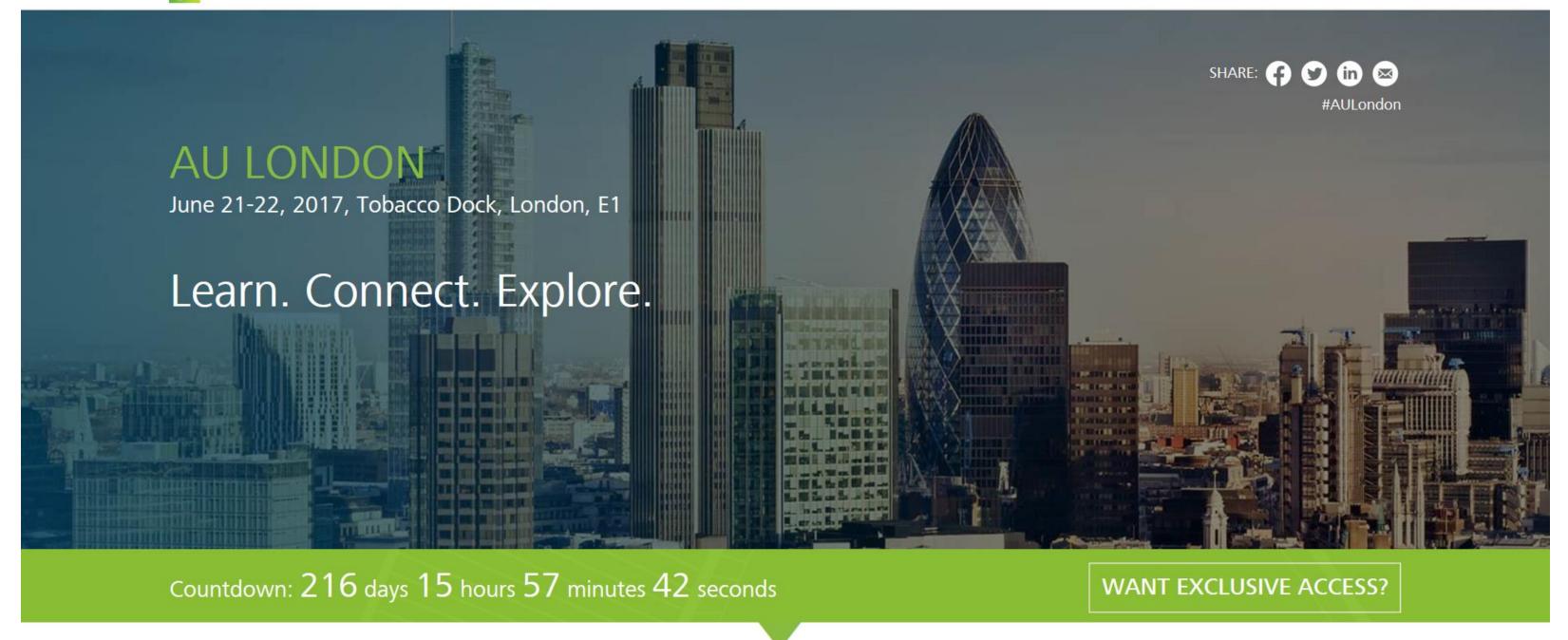
Invested in 25 DS-205i Robotic Total Stations with Autodesk and Magnet workflows

http://edition.pagesuite-professional.co.uk/Launch.aspx?PBID=8a4589fb-47e4-4bcb-9c74-5959d84dbf5e









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Cookie Consent

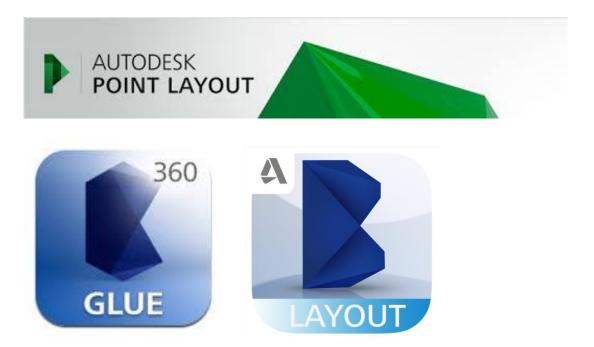


















A 360 Approach to Improving Productivity

September 2016



WhatHouse?

Housebuilder of the Year







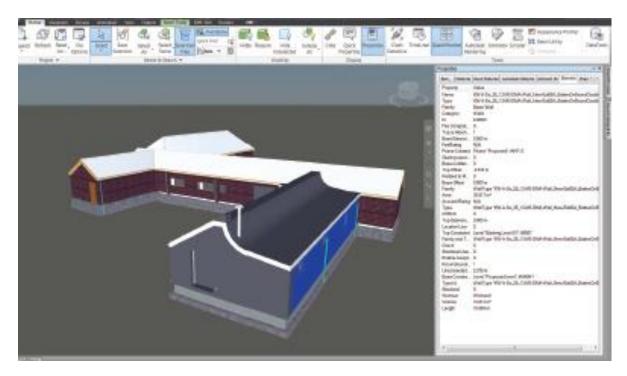


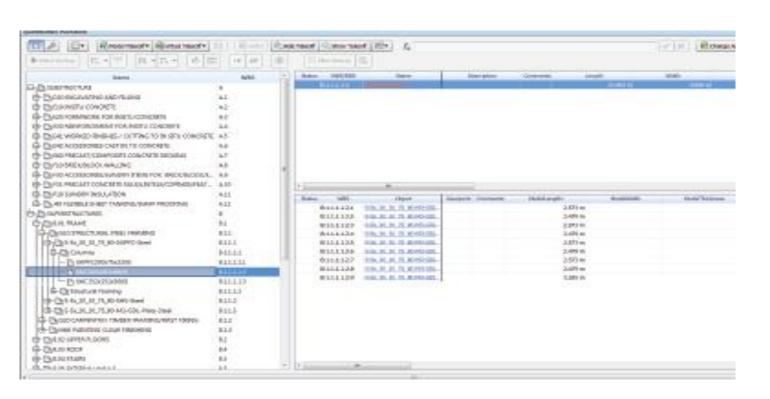


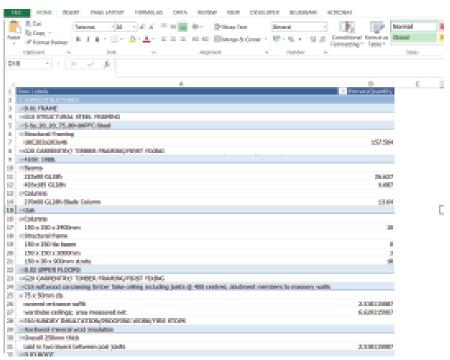




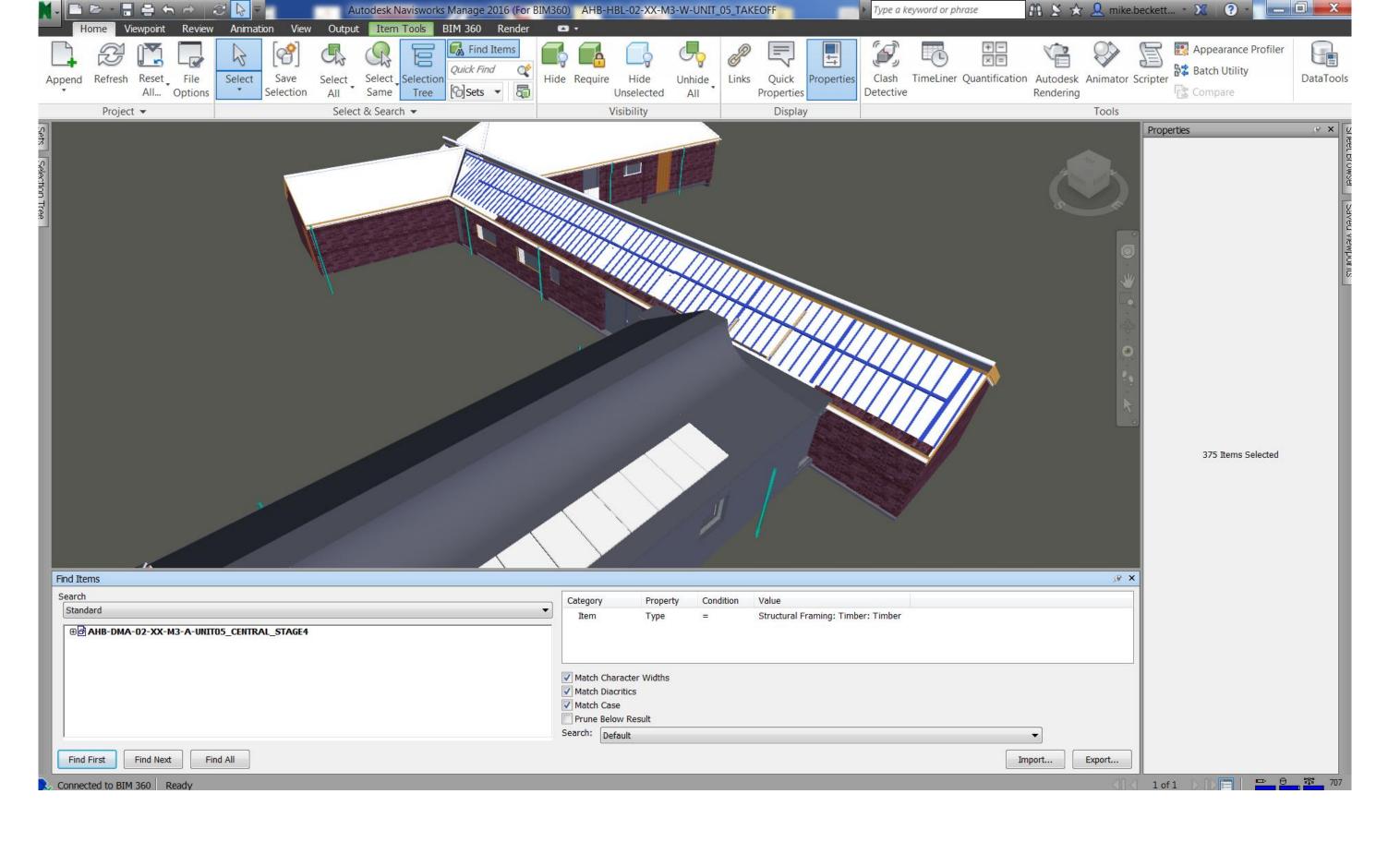




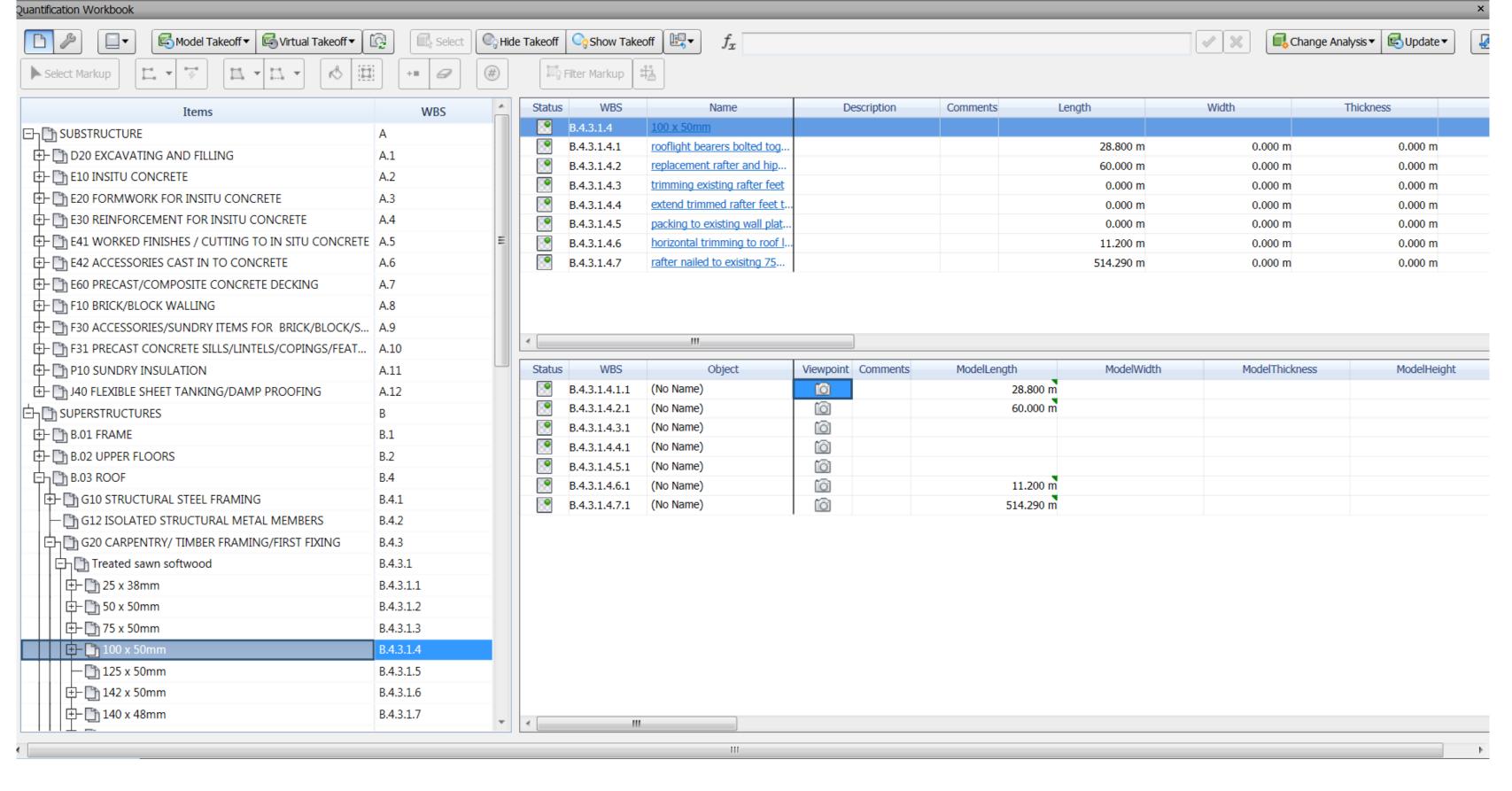




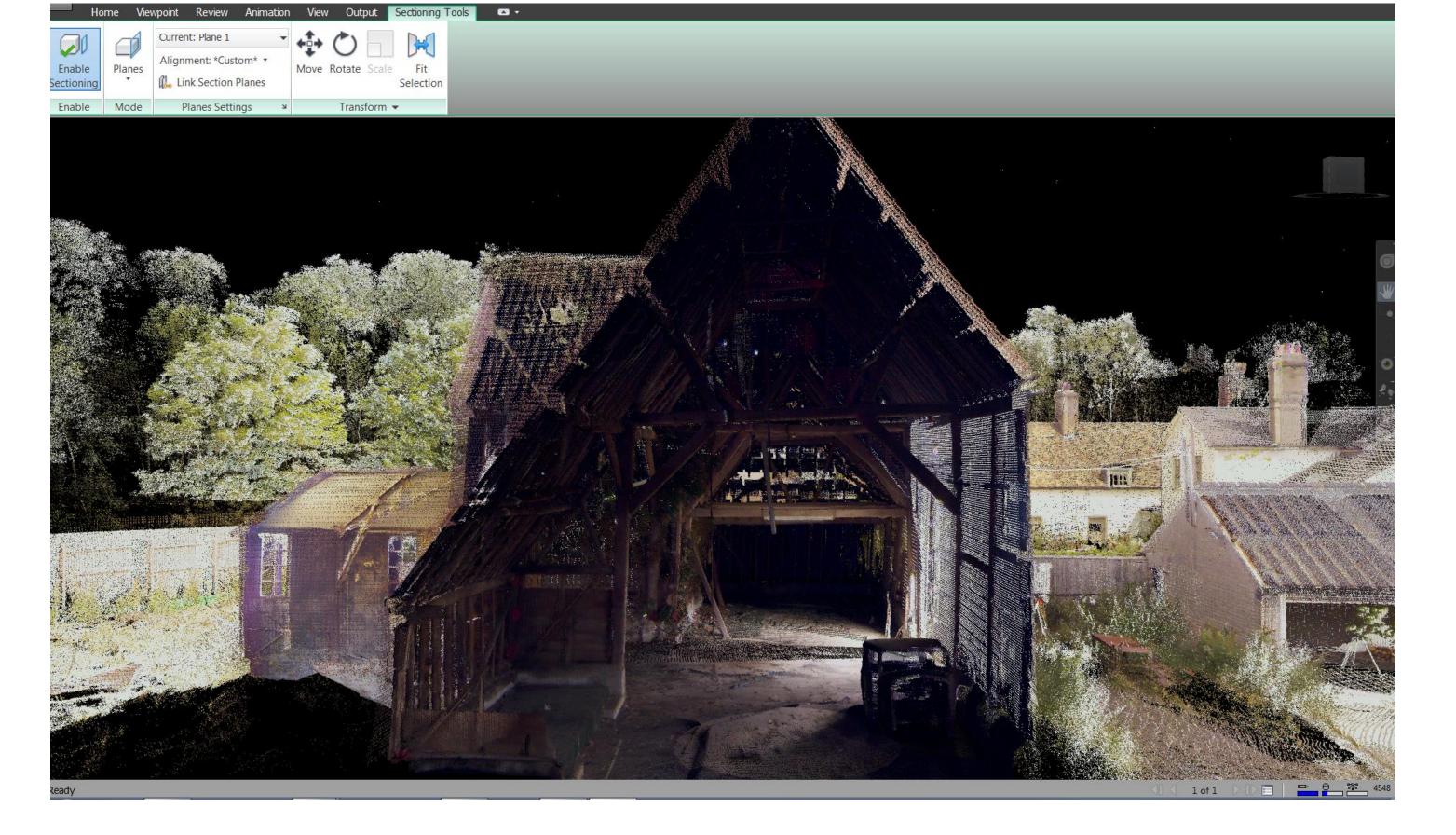
















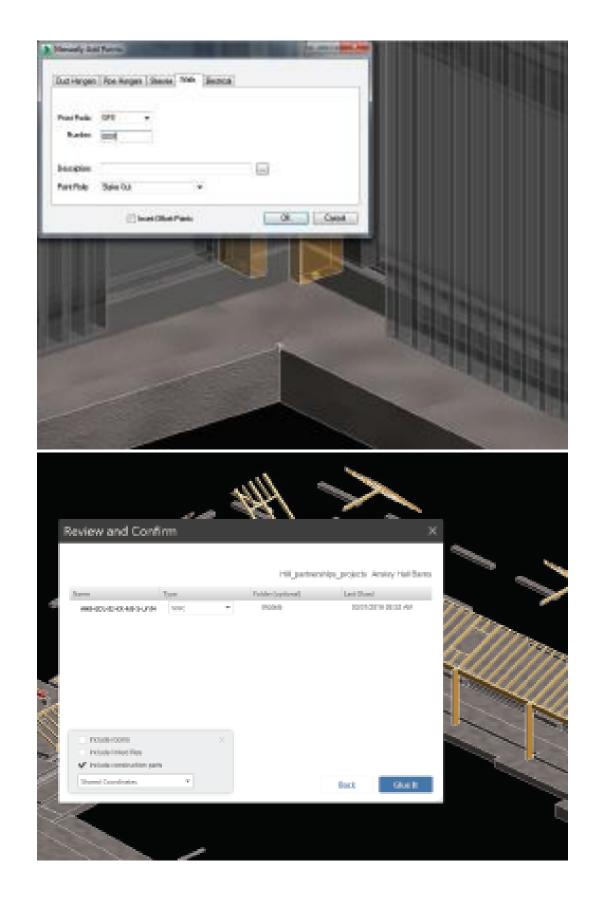


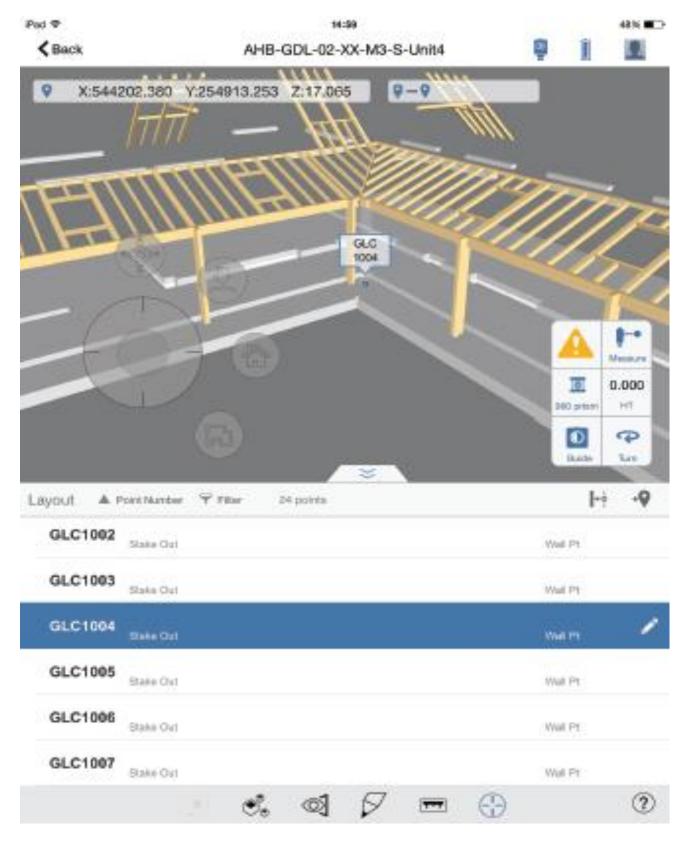














DIGITAL DESIGN & CONSTRUCTION BENEFITS



REDUCED TIME

75% REDUCTION IN TIME PRODUCING SETTING OUT INFORMATION



REDUCED COST

£25k SAVING IN COST FOR SETTING OUT GROUNDWORK - PROJECTED £50k SAVING OVERALL

£195k SAVING FROM PICKING UP STEEL CLASHES WITH EXISTING STRUCTURE IN BARN 1
WITHOUT POINT CLOUD - 4 - 6 WEEK DELAY FOR STEEL RE-DESIGN, WHICH BREAKS DOWN AS:

£168,000 IN TIME (DELAYS)

+

£20,000 IN STEEL

+

• £7,500 IN DESIGN FEES & SUBMISSION TO LPA



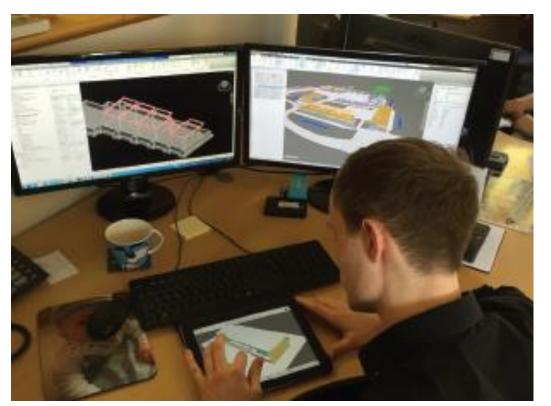
IMPROVED QUALITY

BEING MORE PRECISE ABOUT OUR RESPONSE TO THE EXISTING BUILDINGS – HAS GIVEN THE PLANNERS CONFIDENCE – BUT ALSO A BETTER RESULT FOR THE END USER.



"I am saving two hours per day by having the information to hand and not having to walk back to the office to find plans or pieces of paper" "Historically all of the changes would have been recorded on paper going back and forward to the office, this now takes 30 seconds on my iPad" Jamie Roberts, Senior Site Manager

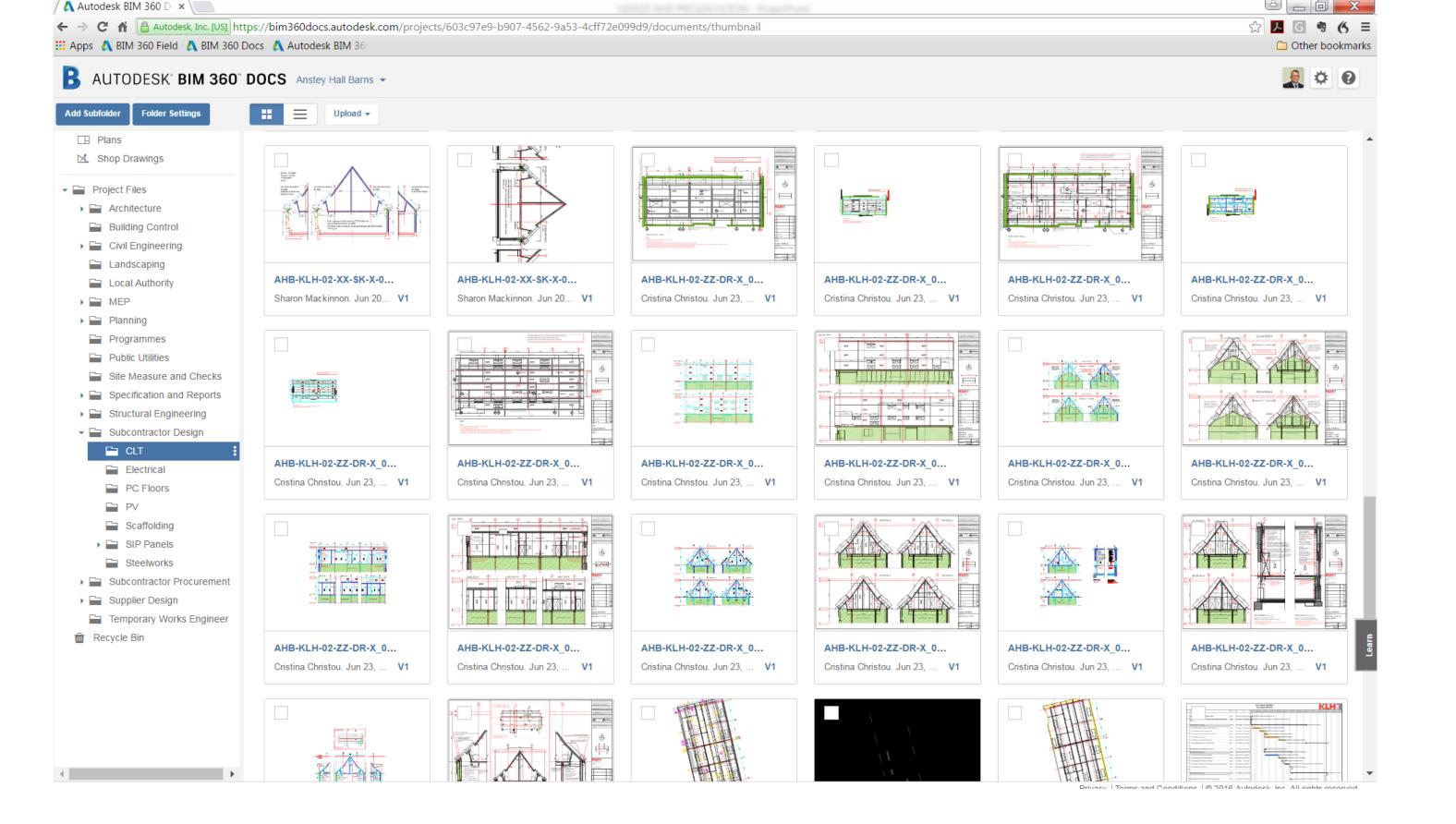




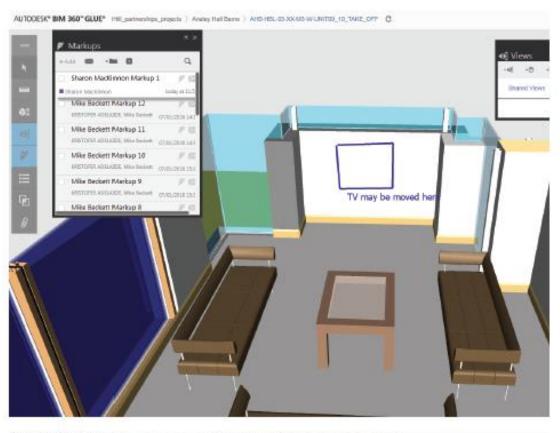


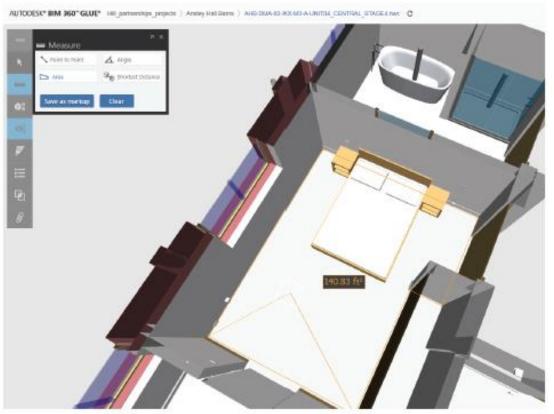








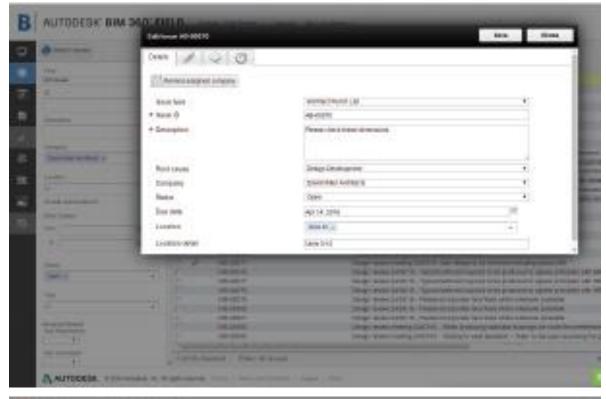


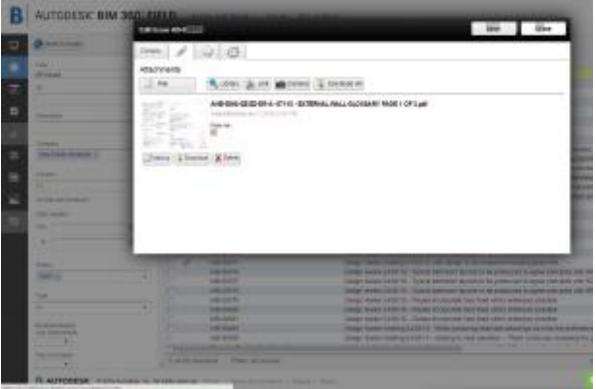


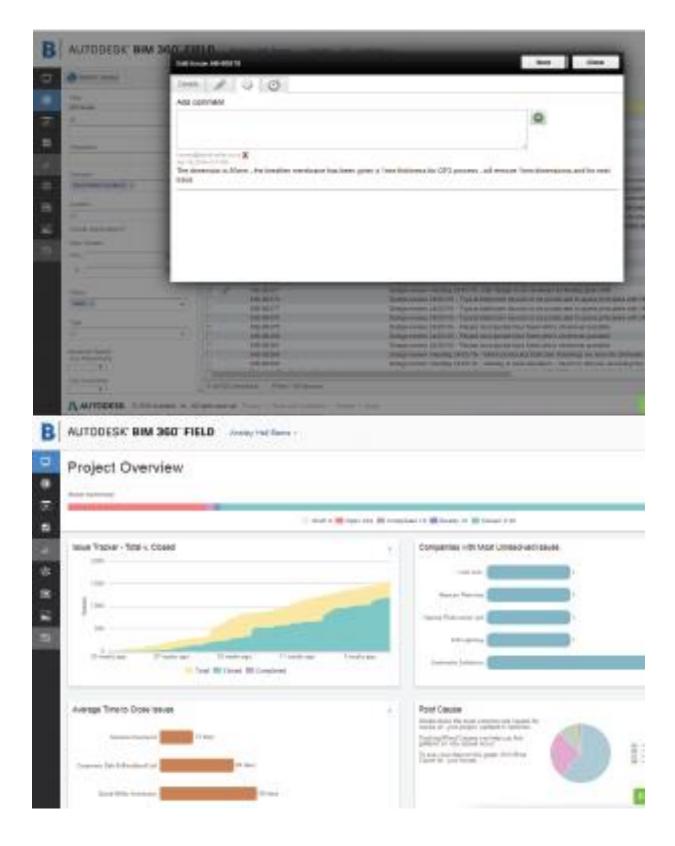




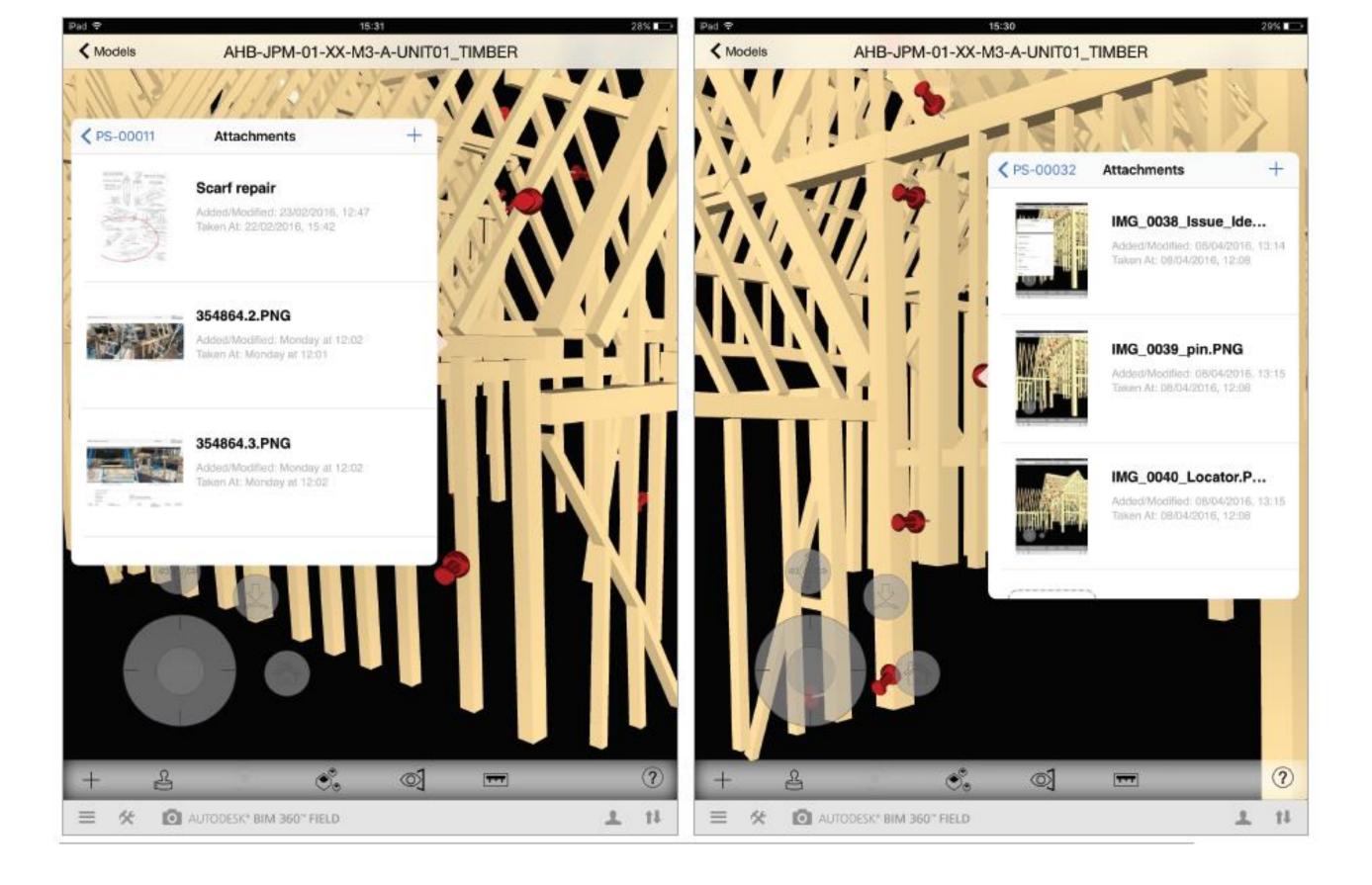




















The implementation of theses technologies will, over time, dramatically improve our productivity levels, (getting more done with less resource). This will inevitably lead to better margins and make us more competitive.

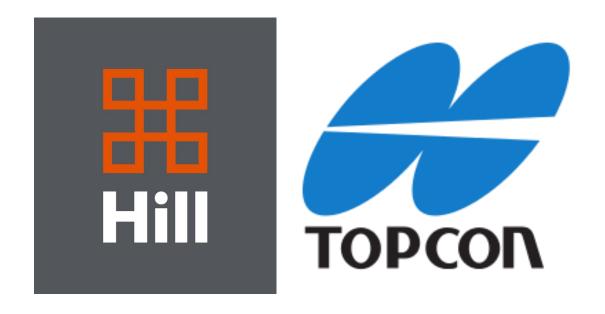


Presentation by Mike Beckett



WhatHouse?
Housebuilder of the Year





Any Questions?





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