

# Cita

BIM GATHERING 2019



**4th Cita BIM Gathering** 26th September 2019, Galway, Ireland.

Delivering **better outcomes**  
for Irish Construction

**CiTA**  
BIM GATHERING 2019



diatec



**C-CAD  
COMPUTING**



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# Automating Digital Technologies: Monitoring Site Progress on BIM-Enabled Projects

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## The Challenges:

- To verify site conditions match the design
- To quantify issues and assign team members
- To clearly communicate with all stakeholders
- Change management and tracking



## Verify site conditions match the design

- Tapes, As Built Survey
- 3D Laser Scanning
- Photography
- Photogrammetry



## Quantify issues and assign team members

- CAD – Points/Lines, Topo Overlay
- CAD/BIM – Scan Data Analysed Against Models
- Online Resources - Timelines
- Clash Detection



## Clearly communicate with all stakeholders

- Email/Memos
- Filesharing
- Manual Processes
- Online Platforms, BIM 360



## Change management and tracking

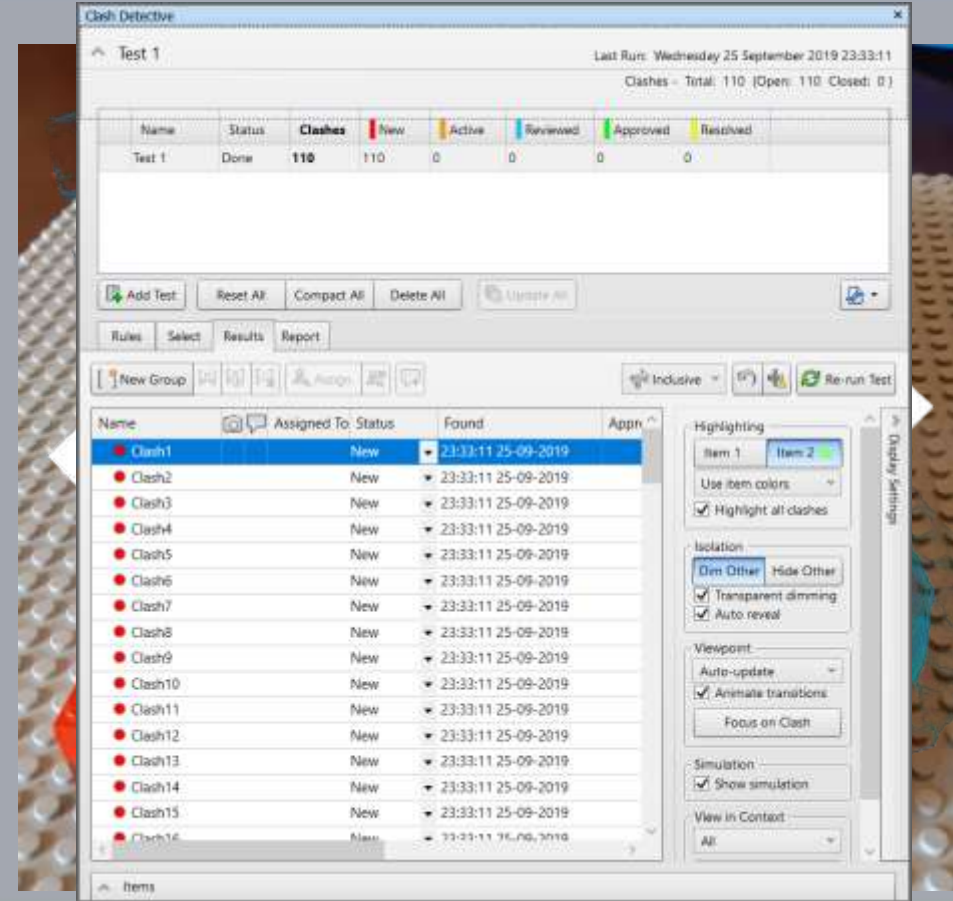
- Verify actions lists are complete
- Monitor active actions
- Adjust timeframes/deliverables accordingly
- Complete lists prior to handover





Here's one I made earlier 😊

- Lego REVIT model
- Lego model built...with Lego
- Point cloud created
- Both “Models” clash detected





## Site v Design

- Near-real time progress reports
- Reports created at regular intervals
- All stakeholders read accessible data on tablets
- Actions are now live and accountable



## Options

- BIM 360 Platform Apps
- 360°/Panoramic Imagery
- Autoclassification of Point Clouds
- Photogrammetric Meshes



## What next?

- For both large and small projects
- Photogrammetric Meshes
- Automate entire process
- Efficient sharing of data



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Thank you – Any questions?