



SUSTAINABLE BUILDING INFORMATION WORKSHOP

12. NOVEMBER 2014 - COPENHAGEN

CITA - Centre for Information Technology and Architecture // Copenhagen



DURAARK
DURABLE
ARCHITECTURAL
KNOWLEDGE





ScanCopter & ScanBot by FaroLabs



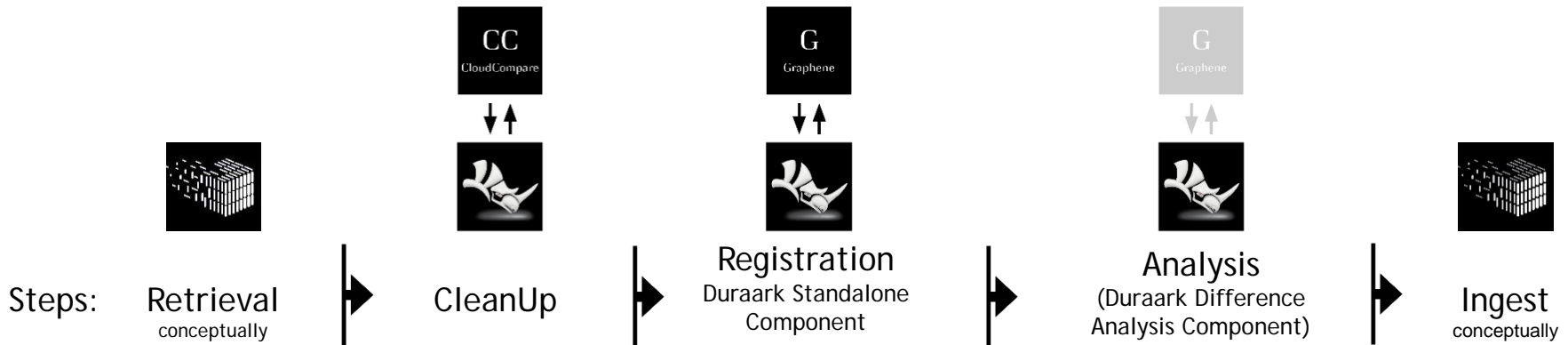
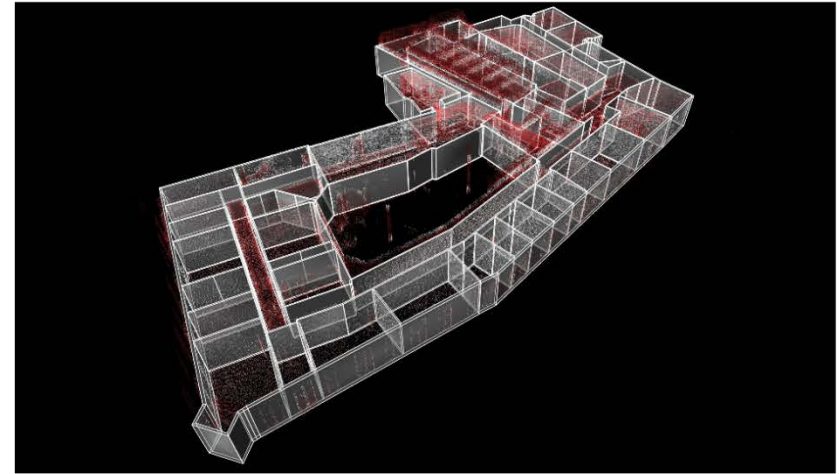
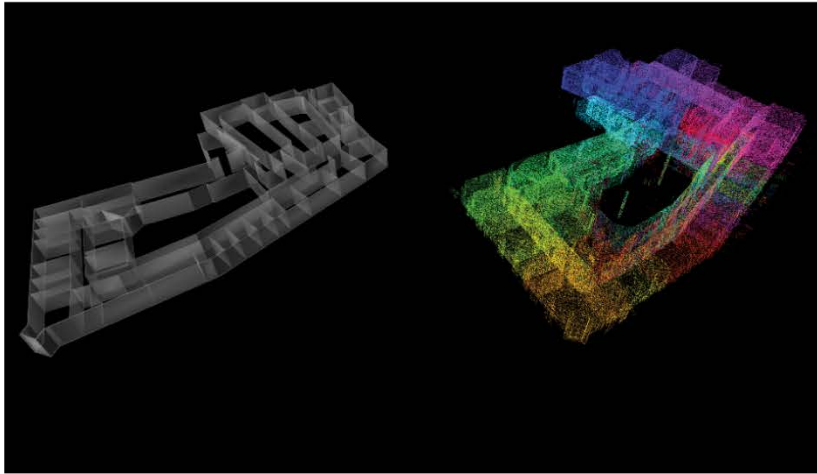
Zebedee by CSIRO

3D Registration - Automatisations and Higher Speed



Case Studies with DURAARK components

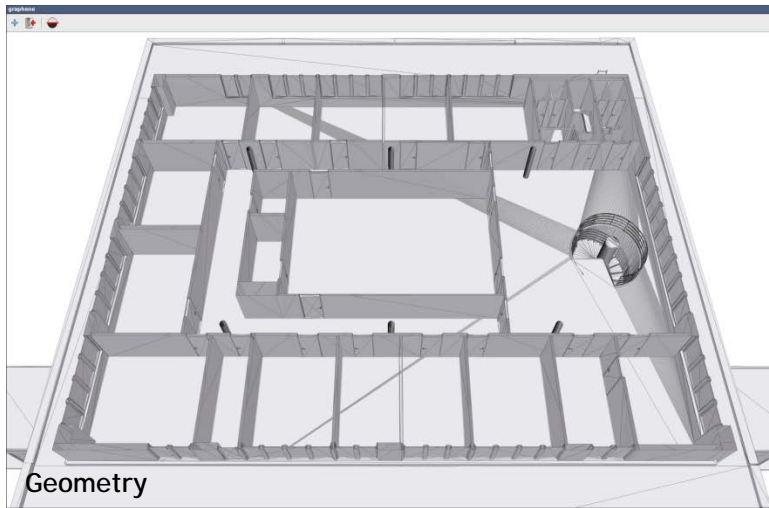
Validation of existing structures and 3d drawings



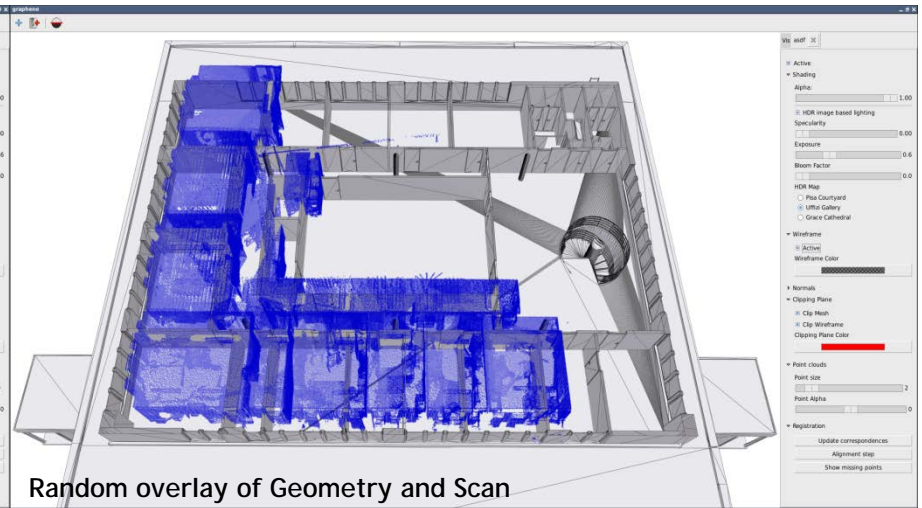
The Aim is to Show the Difference between a Point Cloud and a corresponding 3D-Model in an Architectural Work Environment

DURAARK: Use Case - Design and Retrofitting

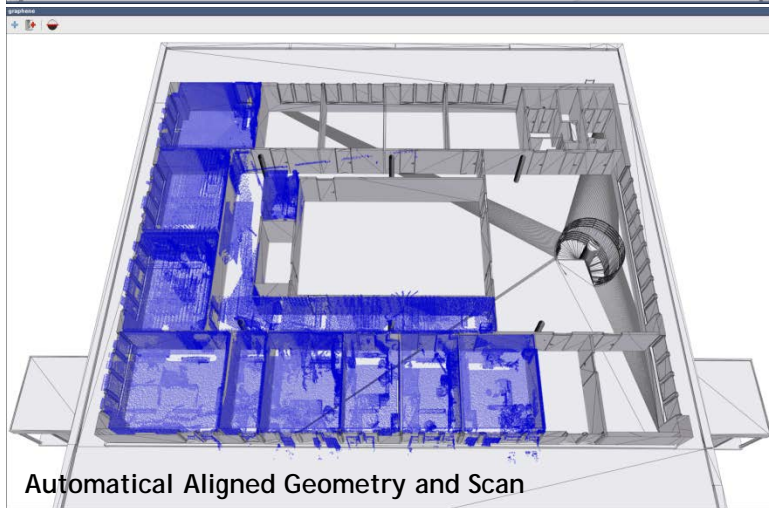
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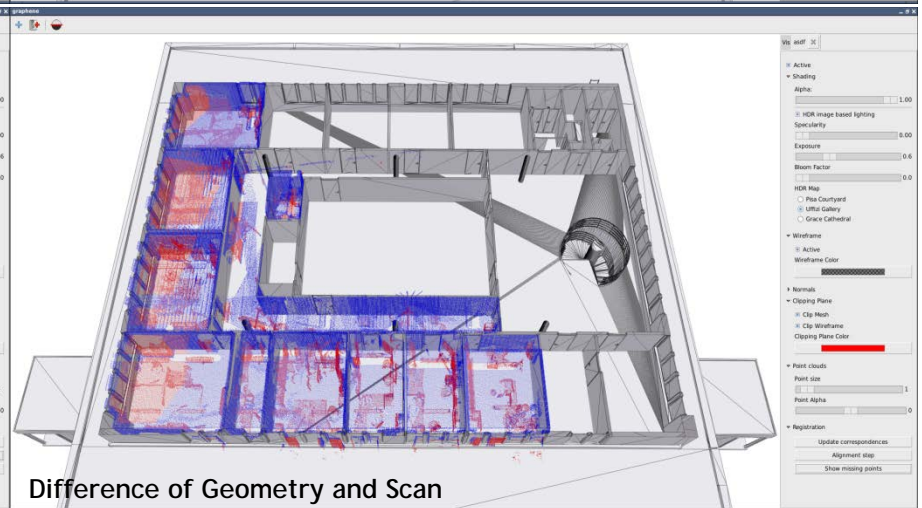
Geometry



Random overlay of Geometry and Scan



Automatic Aligned Geometry and Scan



Difference of Geometry and Scan

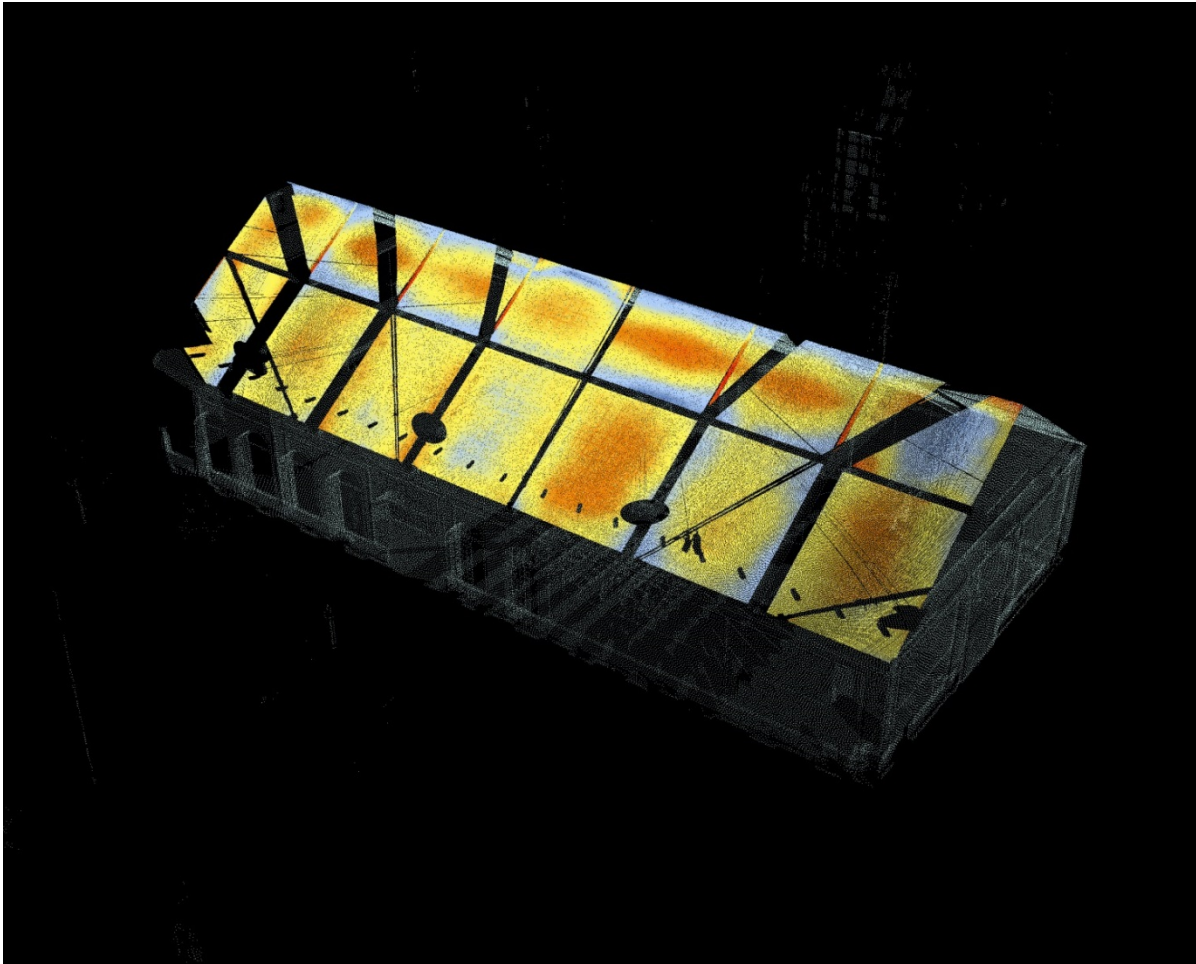
DURAARK Demo

DURAARK Components - Geometry / Scan Difference



Question:

Display of deviation in pointcloudscan from found plane
(the ceiling is sagging!)

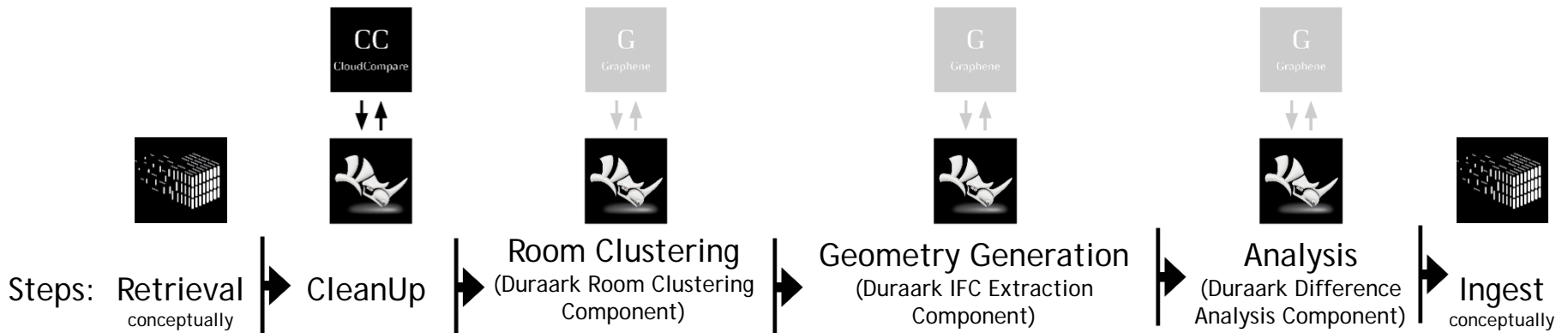
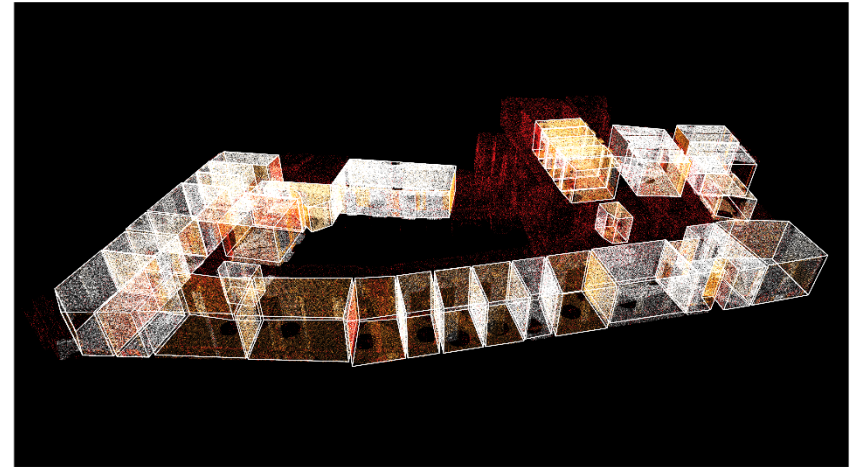
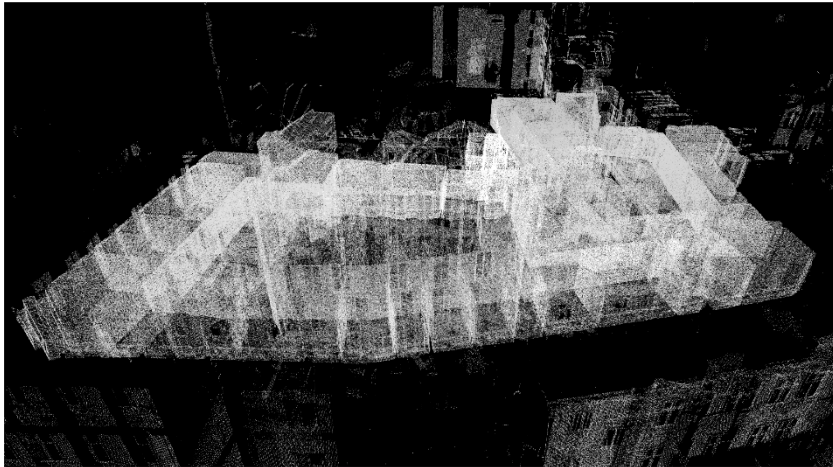


DURAARK Workflow - Geometry / Scan Difference



Case Studies with DURAARK components

Validation of existing structures and 3d drawings



The Aim is to create a Semi-Automated Workflow from Point Cloud to 3D-Model in an Architectural Work Environment

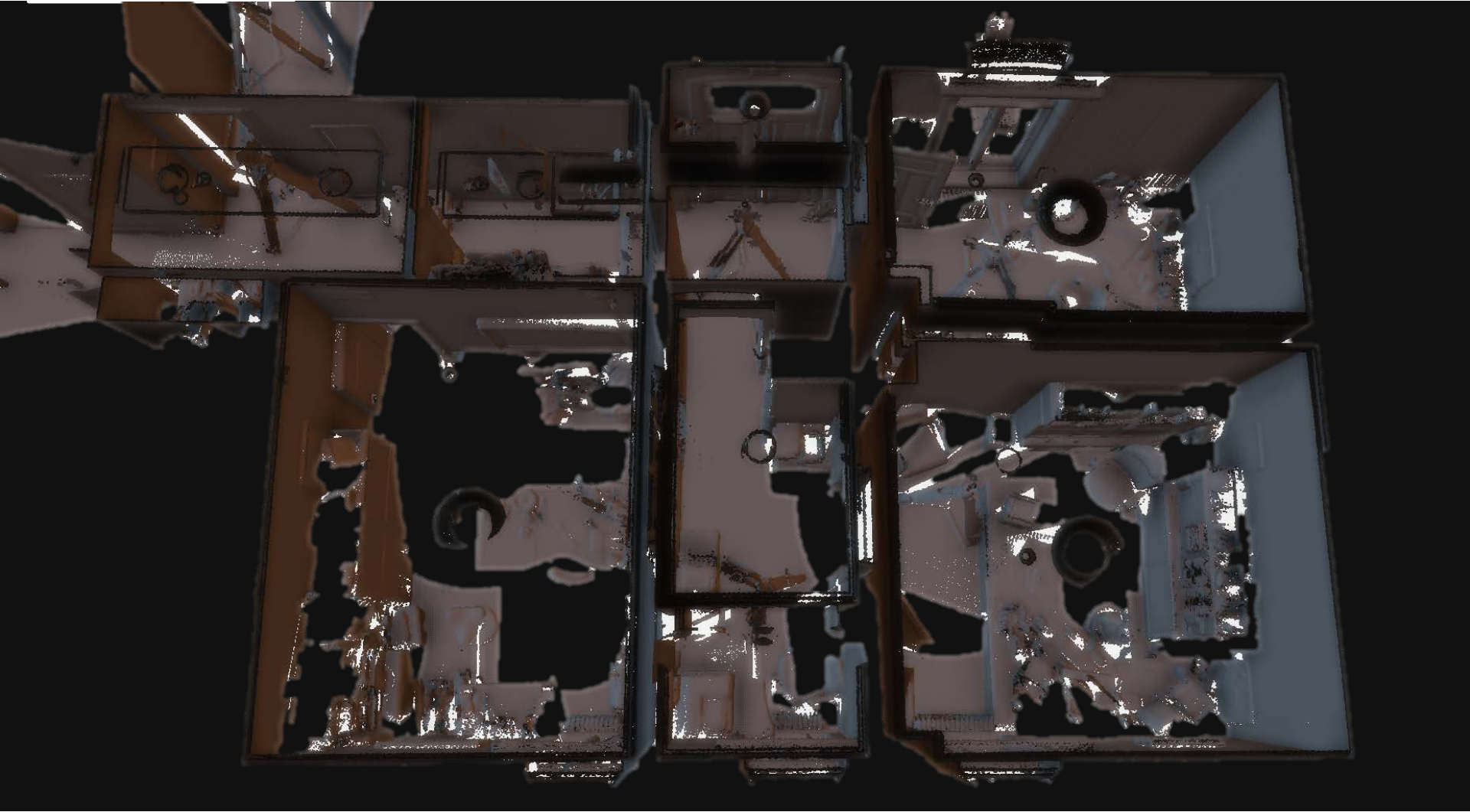
DURAARK: Use Case - Design and Retrofitting

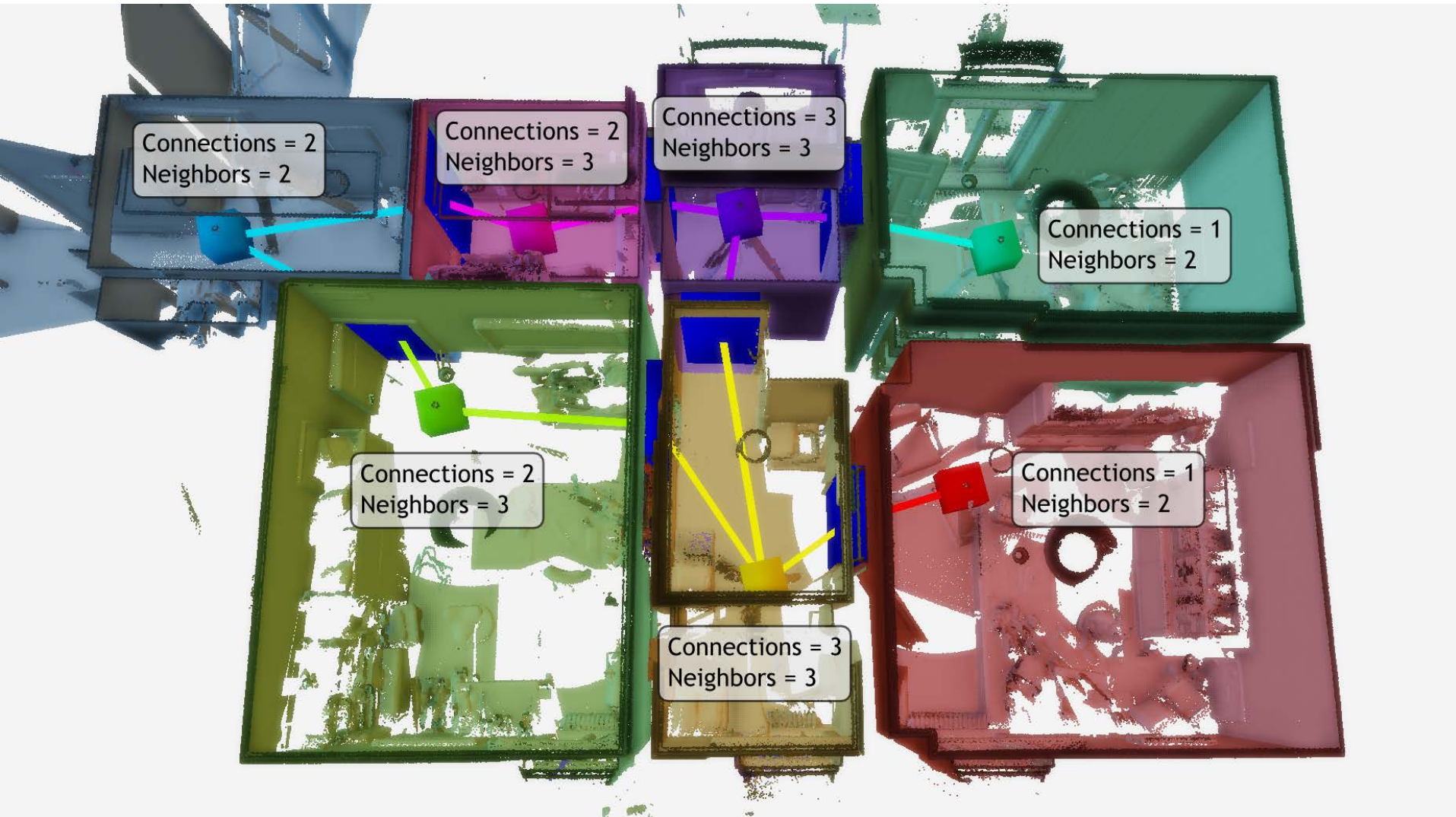
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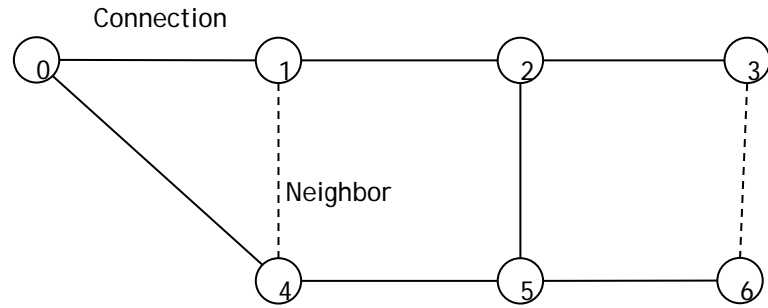
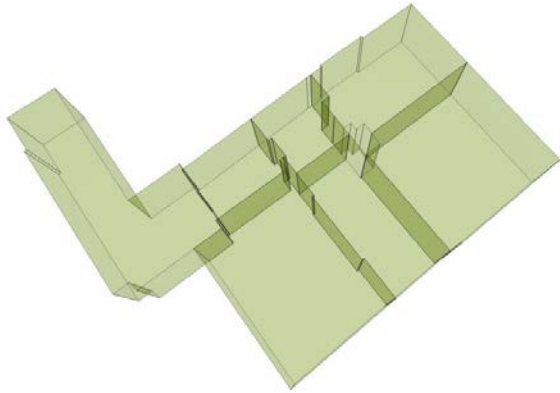
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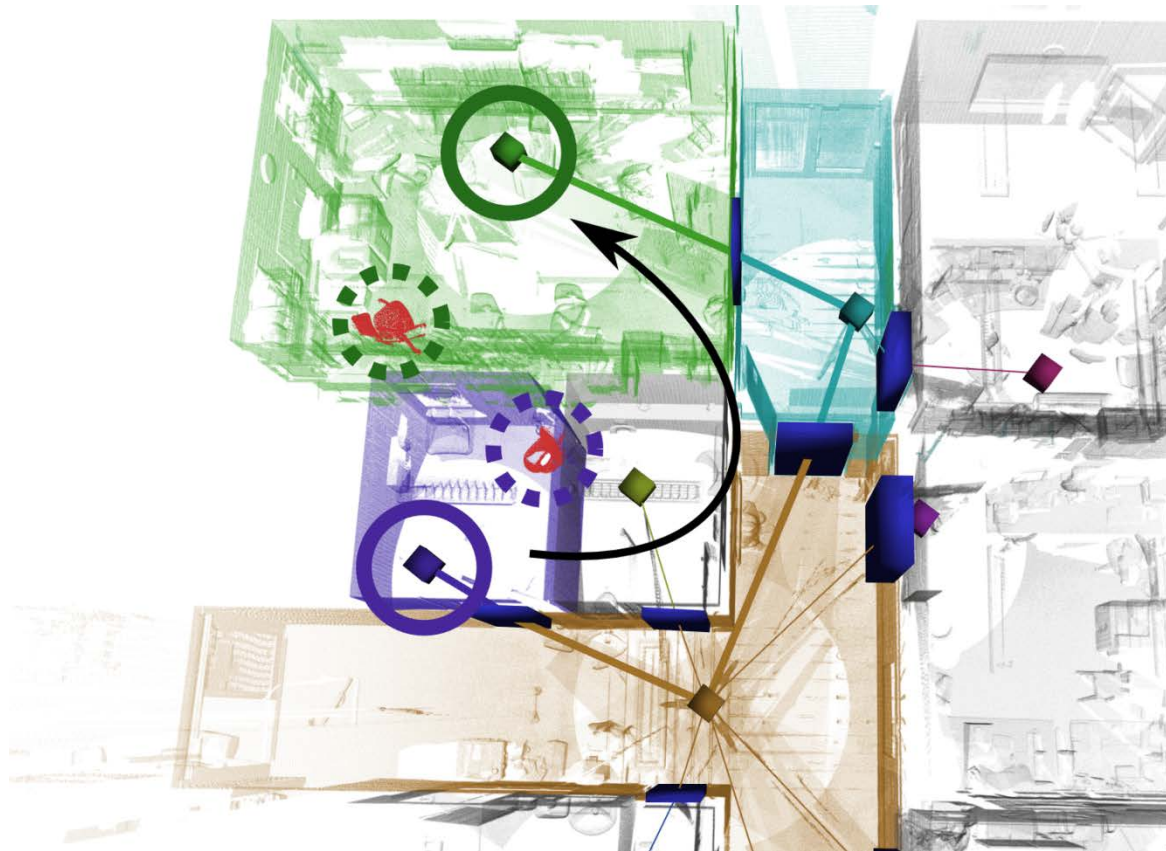
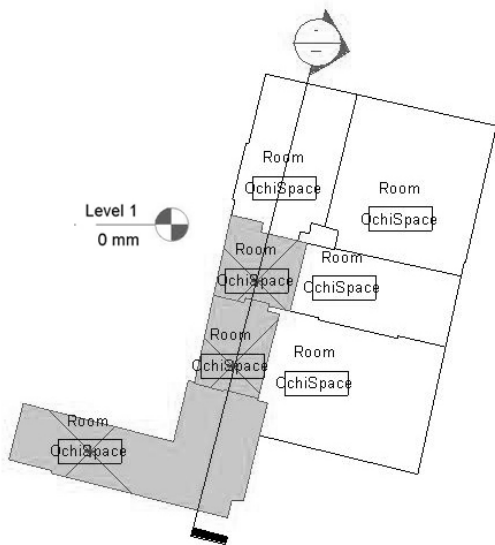




Classification - Automated Detection of Spaces



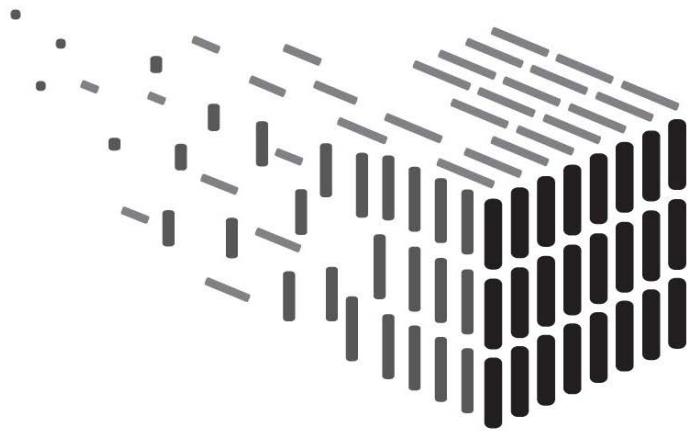
Solibri Model Checker



Autodesk Revit

IFC Export - Spaces / Room Connectivity





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