CitA | TECHLIVE 2022

Challenge, Change, Learn

Managing the Hybrid working model with Autodesk AEC and Naviate Tools

Sean O Dwyer – Procad | Symetri

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Managing the hybrid working model with Autodesk AEC and Naviate Tools

01. AEC Collection (Hybrid Working Model)

02. Symetri Owntech

03. Naviate Basic Features

04. EC3 Embodied Carbon

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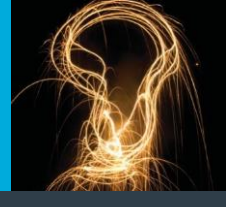

About me

Sean O Dwyer

- AEC Division Manager for Procad / Symetri with over 20 years' experience
- Expansive experience in all aspects of the construction sector from design perspective to main contractor involvement
- Specialise in BIM360 and all Cloud related offerings from Autodesk
- Elite Specialised

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@stodwyer

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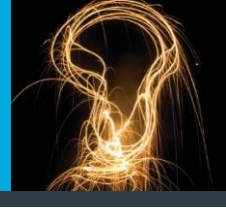
Together we will achieve more
Procad will become Symetri, operating as one from July 4th



Together we are stronger

MICRODESK

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SYMETRI
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- 2100 Employees
- € 420 M Revenue
- 3 sectors
  - Design Management
  - Process Management
  - Lifecycle Management

Symetri + Microdesk

- 750+ Employees
- 100 Developers
- 400+ Consultants
- 200K+ Users
- € 260 M Revenue

AEC Collection Tools

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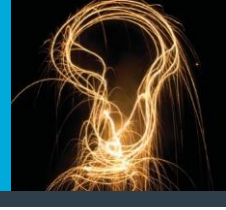


AEC Collection (Cloud Saving)

Revit - Built for BIM. Intelligent model-based software. Plan, design, construct and manage buildings and infrastructure projects.

AutoCAD - Software for 2D and 3D CAD. Work with TrustedDWG technology.

AutoCAD Architecture - Speed architectural design and drafting with an industry specific toolset that includes intelligent objects and styles. Included with AutoCAD.

AutoCAD Raster Design - Use raster design tools in a specialised toolset to edit scanned drawings and convert raster images to DWG objects. Included with AutoCAD.

Dynamo Studio - Dynamo Studio is a standalone programming environment that enables designers to create visual logic to explore parametric conceptual designs and automate tasks.

FormIt Pro - Enables architects to sketch, collaborate, analyse and share early-stage design concepts.

Navisworks Manage - Project review software empowering architecture, engineering and construction professionals to review integrated models and data, driving better outcomes.

ReCap Pro - Use ReCap reality capture to convert reality into a 3D model or 2D drawing that is ready for further design.

Autodesk Rendering - With cloud rendering, you can take advantage of virtually infinite computing power to create photorealistic and high resolution images in less time.

Revit Live - Revit Live cloud service turns Revit and Revit LT models into an immersive experience in one click, helping architects understand, explore and share their designs.

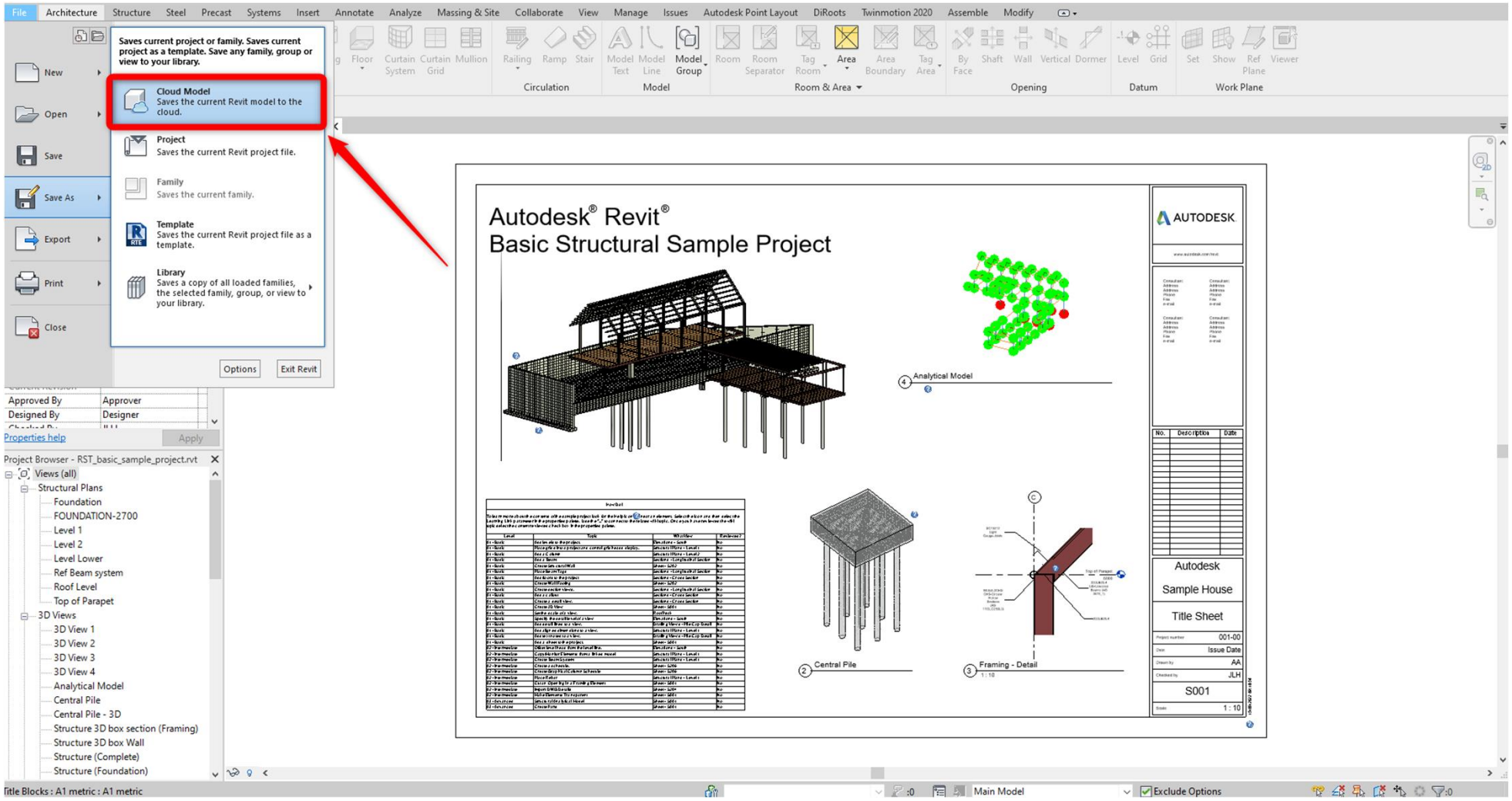
3ds Max - 3D modelling and rendering software. Create stunning scenes for design visualisation and engaging virtual reality experiences.

AutoDesk Docs/ BIM360 Docs- Ability to save and host your files in a cloud hosted environment.

AEC Collection
(Cloud Saving)

Issue
Management

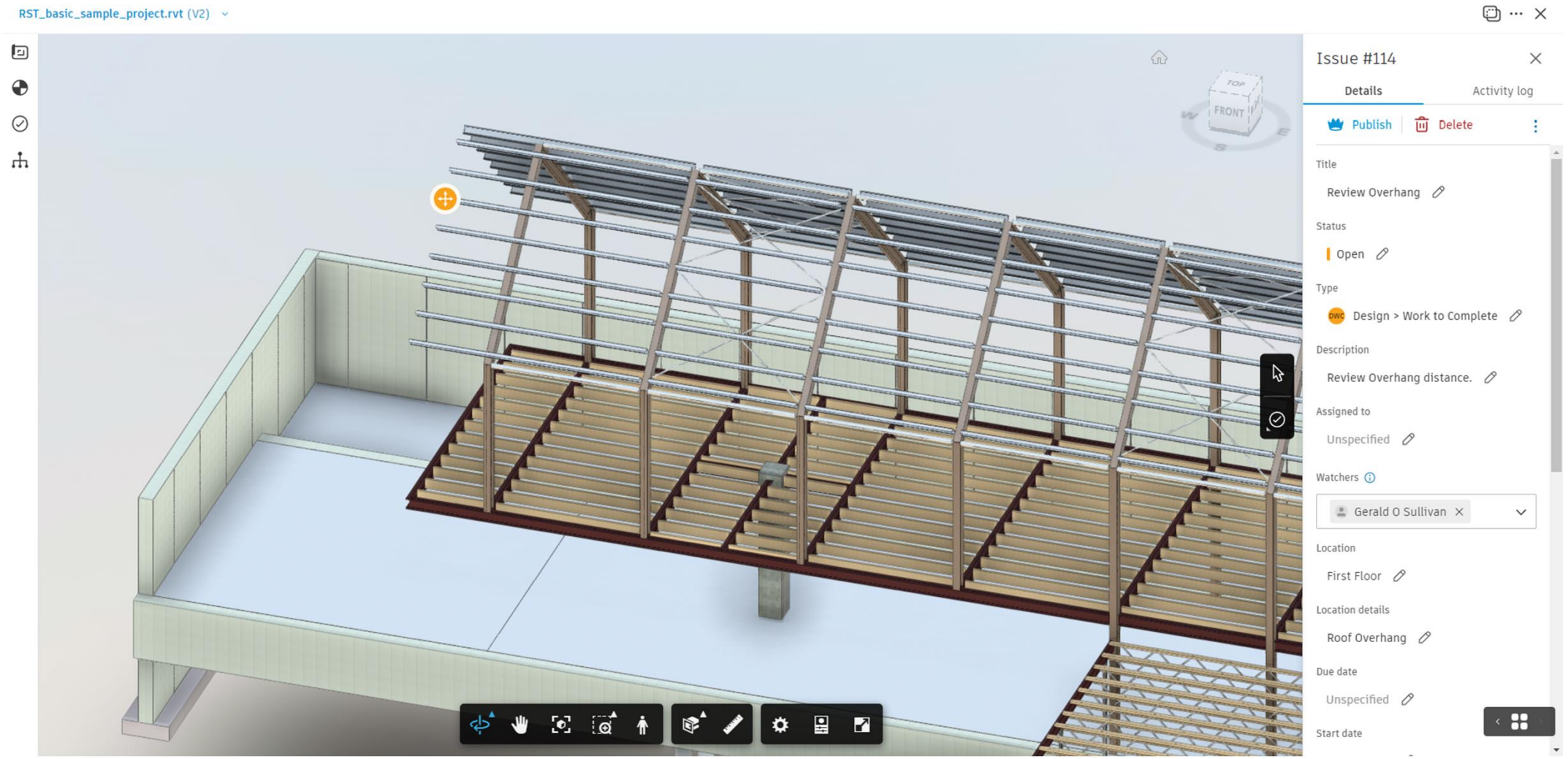
BCF
Issue Control



AEC Collection (Cloud Saving)

Issue Management

BCF Issue Control



AEC Collection
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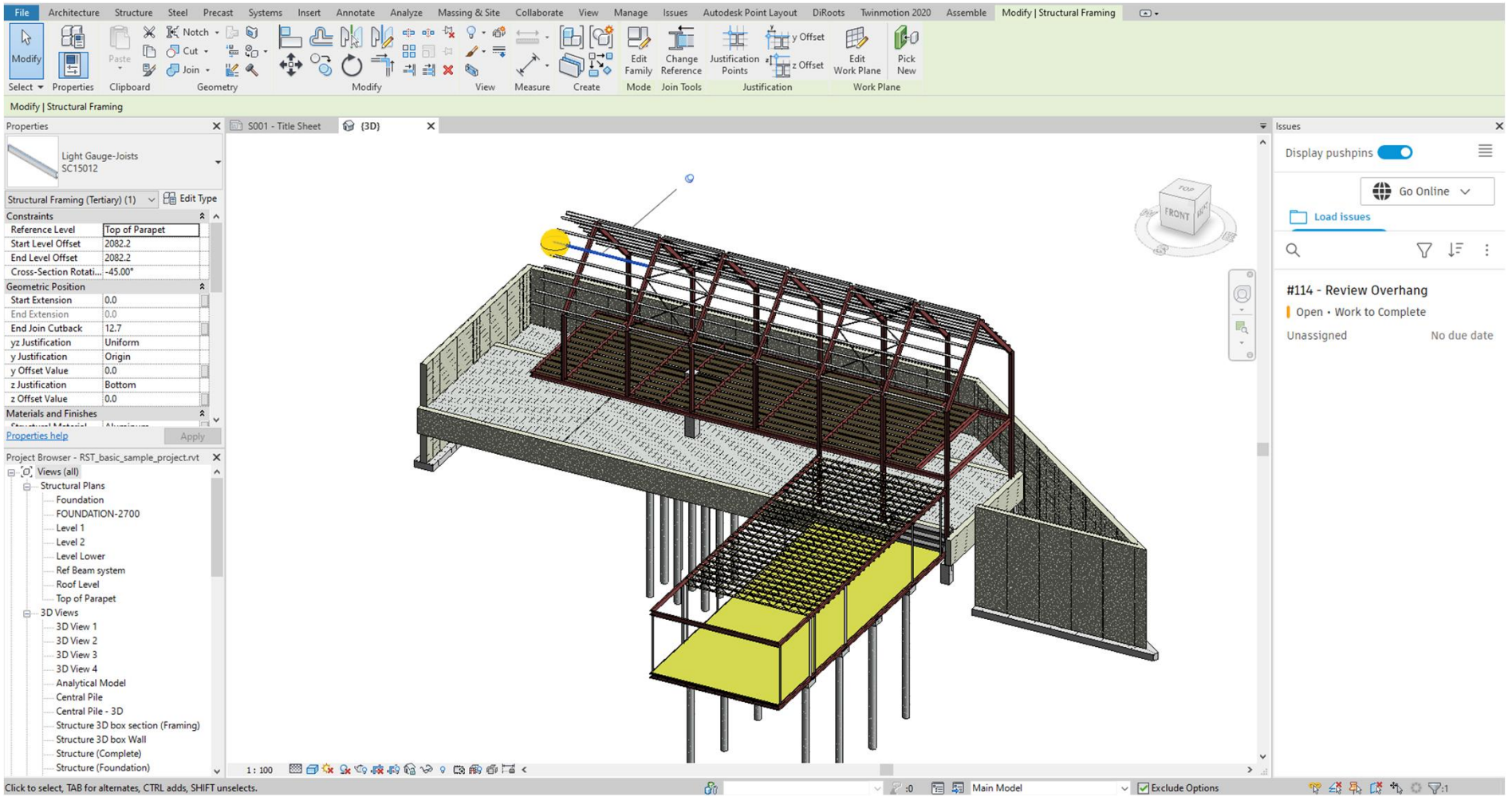

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SYMETRI OWN TECH AEC

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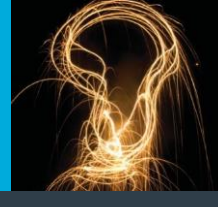
N
NAVIATE®
S
SOVELIA®
C
CQ™



Naviate® for Revit

NAVIATE ACCELERATE

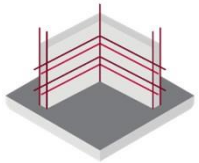
Provides all the features found across the AEC industries, from collaboration, productivity and documentation.

NAVIATE STRUCTURE

Provides you with a large library of completed object types, standard profiles and foundations.

NAVIATE REBAR EXTENSION

Automates the process of generating reinforcement for elements like beams, columns and piles.



NAVIATE DAYLIGHT

Automates daylight area ratio checking of your BIM model for optimising design decisions.

NAVIATE ELECTRICAL

Allows Electrical designs to be created simultaneously in both 3D and 2D

NAVIATE ARCHITECTURE

Adds the advantages and possibilities to make you more efficient when working with Revit and BIM.

NAVIATE SITE & LANDSCAPING

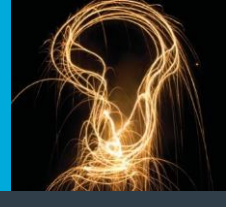
Fully customised to the needs of landscape architects – including content, tools and workflow.

NAVIATE LANDUSE

Provides tools to create a zoning plans in Revit according to regulations.

NAVIATE HVAC & PLUMBING

Provides ventilation and piping systems design in full 3D.



Naviate® for Civil 3D

NAVIATE® PIPE

Enables efficient and dynamic project design. Included in the software are templates and network parts lists that conform to industry and national standards.

NAVIATE® LANDSCAPE

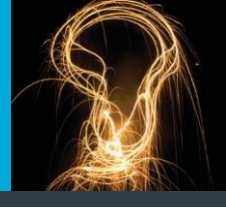
Let's you to design your surroundings more efficiently with elevation editing commands, volume calculation methods and visual styles and templates.

NAVIATE® ROAD

Provides access to templates and setting files for local standards, as well as functions that together with Civil 3D create an efficient workflow.

NAVIATE® TRAFFIC

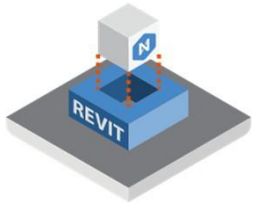
Get a large library of road signs as well as a dynamic tool to create your own signs. Dynamic road-markings are created around native Civil 3D objects.



Naviate® for Cloud

NAVIATE NEXUS for REVIT

Access classification in Autodesk Revit and your BIM model. Supports many standards and is built on CCS as the core standard..



NAVIATE NEXUS CONNECTOR

Ensures seamless communication between your desktop and the Naviate Nexus Portal project.

NAVIATE NEXUS PORTAL

Enables standardised communication platform by Naviate for the construction industry to handle building classification codes.

NAVIATE GEMINI

Enabled digital twin project handover from BIM 360 & ACC.

NAVIATE® SIMPLE BIM

Provides easy to use IFC data and workflow.

NAVIATE®

SOME BASIC FEATURES

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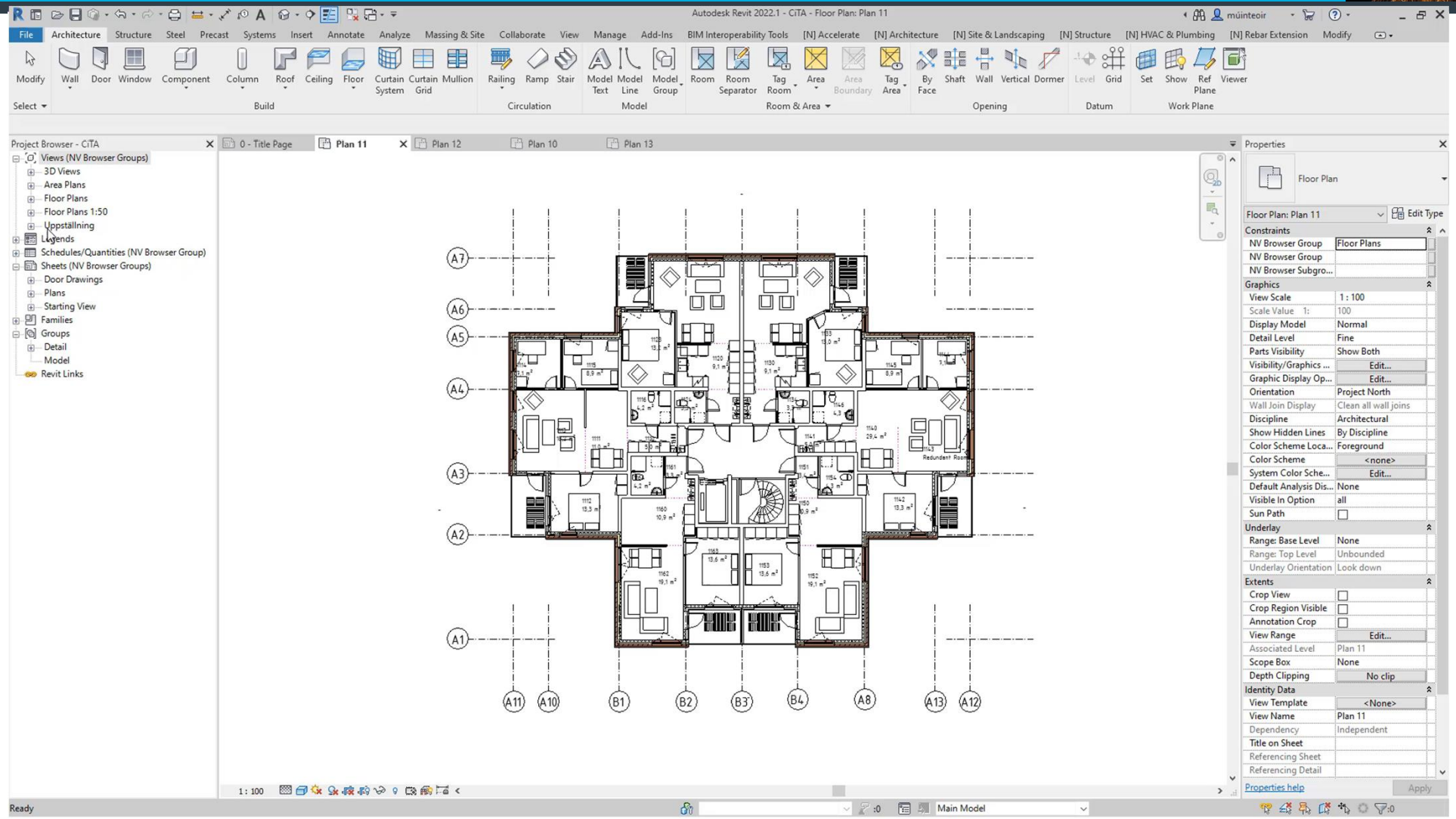
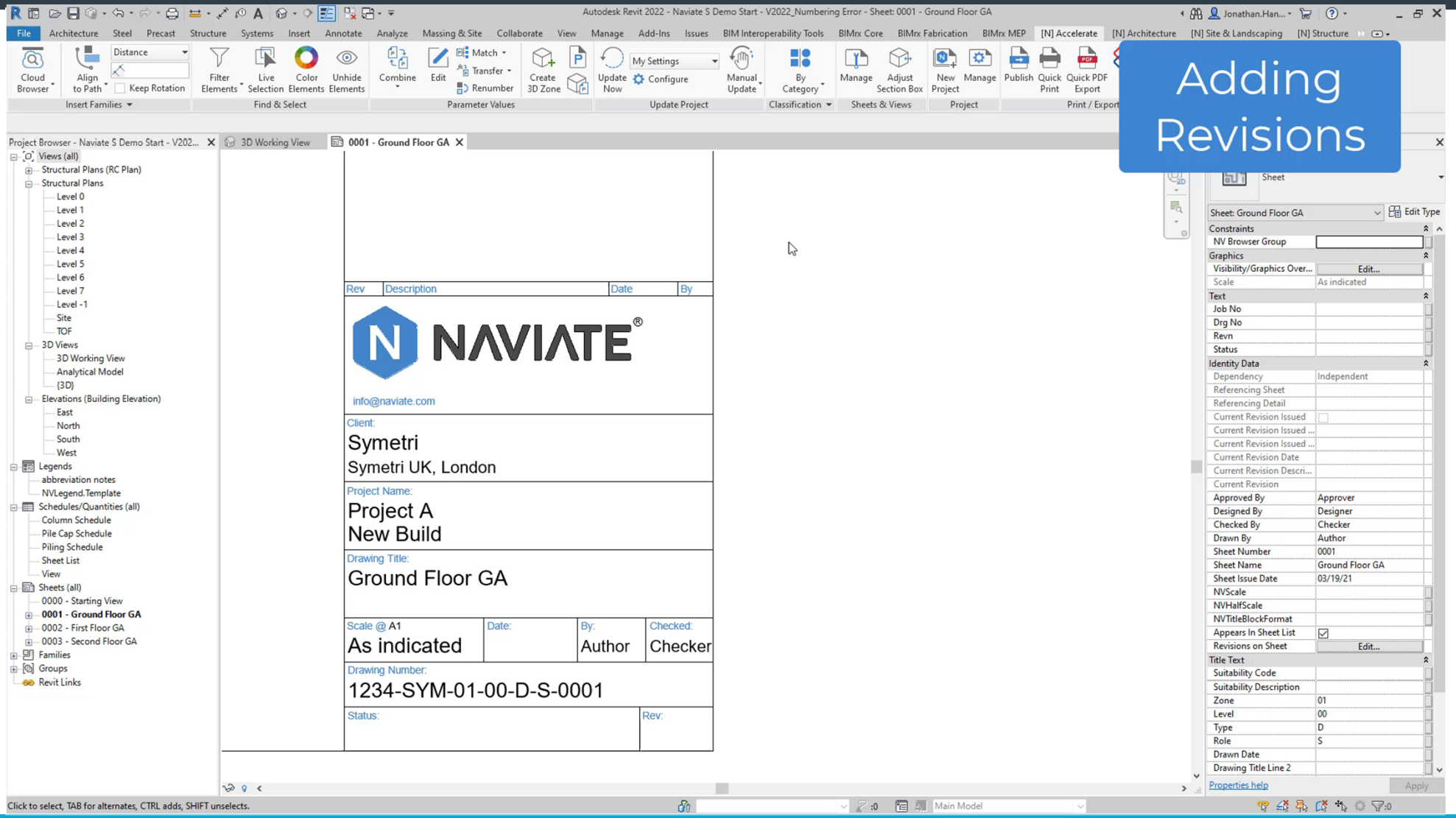
Room Data Sheets

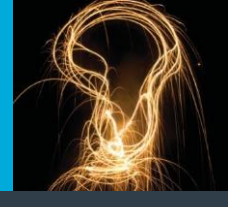
Door/Window Drawings



Adding Revisions

Publishing with ISO19650 Naming Convention.





Insert Families
Family Browser
Cloud Browser
Align to Path
Align to Path in Link
Rectangular Array
Space/Room Array

Find & Select
Filter Elements
Quick Filter
Live Selection
Color Elements
Unhide Elements

Parameter Values
Edit
Combine
Batch Combine
Match Parameter Values
Match Parameter Values from Link
Transfer
Renumber
Create 3D Zone
Write Parameters

Update Project
Update Now
Configure

Classification
Standard
By Category
By Selection

Sheets & Views
Create Dependant Views
Quick Dependent Views
Duplicate Dependent Views
Type Symbols
Apply Crop Regions
Legend Manager
Create Sheets
Create Empty Sheets
Type Drawings
Edit Sheet Parameters
Apply Revision on Sheets
Apply Revision on Sheets
Place Views on Sheets
Update Sheet Revision Information

Project
New Project
Warning Handler
Project Clean Up
CAD Tracker
View Filter Manager
Parameter Configuration
Basepoint Explorer
Basepoint Export
Add Type Images

Print & Publish
Publish to .pdf
Publish to .dwg
Publish to .ifc
Publish to .nwc
Quick Print
Quick PDF Export
Import/Export Excel

IFC
Export
Layer Standard
Create Parameters
Global IFC Class
Class by Family
Property Sets
Align

Collaboration
Provision for Voids
BCF Manager
Transfer Settings
Scope Box Sync

Naviate Accelerate

NAVIATE®

ENROLL NOW

Work Smarter With Automated Workflows in Revit

START YOUR FREE COURSE NOW

FREE REVIT ACCELERATE COURSE

#ProcadBecomesSymetri

RVTBOOSTER.COM

GET CERTIFIED

EMBODIED CARBON IN CONSTRUCTION CALCULATOR (EC3)

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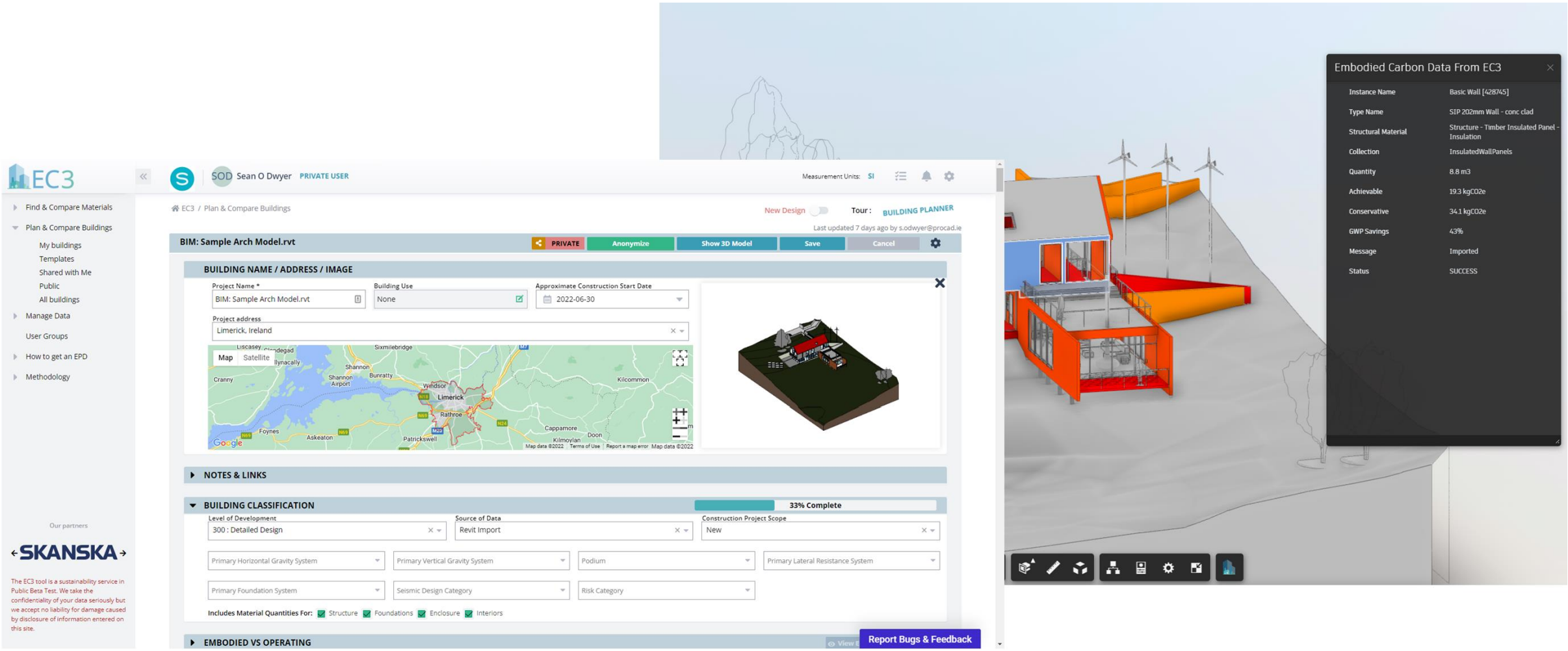
EC3
SOD Sean O Dwyer PRIVATE USER
Measurement Units: SI
Find & Compare Materials
Plan & Compare Buildings
My buildings
Templates
Shared with Me
Public
All buildings
Manage Data
User Groups
How to get an EPD
Methodology
Our partners
SKANSKA
The EC3 tool is a sustainability service in Public Beta Test. We take the confidentiality of your data seriously but we accept no liability for damage caused by disclosure of information entered on this site.
EC3 / Plan & Compare Buildings
New Design
Tour : BUILDING PLANNER
Last updated 7 days ago by s.odwyer@procad.ie
BIM: Sample Arch Model.rvt
PRIVATE
Anonymize
Show 3D Model
Save
Cancel
BUILDING NAME / ADDRESS / IMAGE
Project Name *
BIM: Sample Arch Model.rvt
Building Use
None
Approximate Construction Start Date
2022-06-30
Project address
Limerick, Ireland
Map
Satellite
NOTES & LINKS
BUILDING CLASSIFICATION
33% Complete
Level of Development
300 : Detailed Design
Source of Data
Revit Import
Construction Project Scope
New
Primary Horizontal Gravity System
Primary Vertical Gravity System
Podium
Primary Lateral Resistance System
Primary Foundation System
Seismic Design Category
Risk Category
Includes Material Quantities For: Structure Foundations Enclosure Interiors
EMBODIED VS OPERATING
Report Bugs & Feedback
Embodied Carbon Data From EC3
Instance Name Basic Wall [428745]
Type Name SIP 202mm Wall - conc clad
Structural Material Structure - Timber Insulated Panel - Insulation
Collection InsulatedWallPanels
Quantity 8.8 m3
Achievable 19.3 kgCO2e
Conservative 34.1 kgCO2e
GWP Savings 43%
Message Imported
Status SUCCESS

Thank you!