

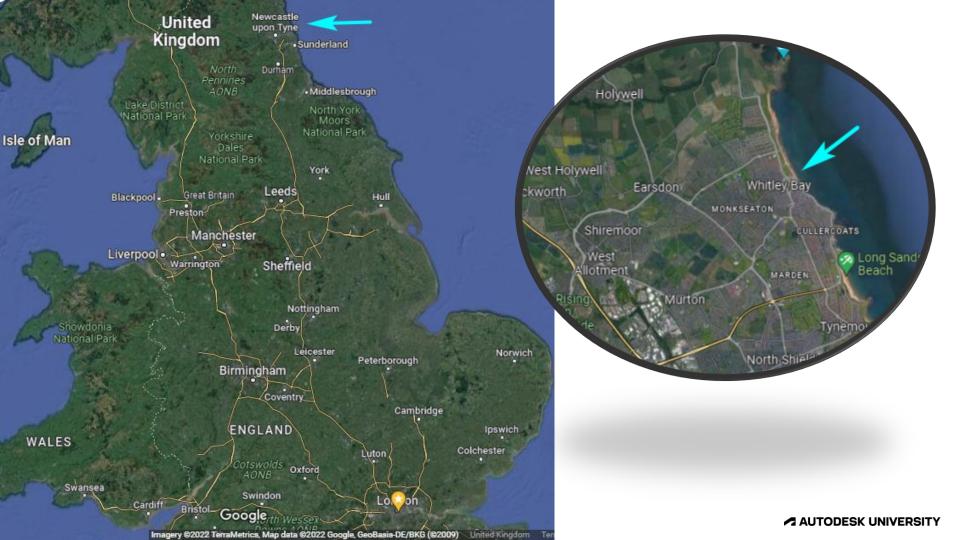
# **Learning Objectives**

- Learn how best to manage assets in Autodesk Construction Cloud.
- See workflows between Revit, Autodesk Construction Cloud, and Power BI.
- See how 360 photo capture can be linked to the Autodesk Construction Cloud platform.
- Learn about site management using Autodesk Construction Cloud Assets.



### **Johnathan Ward**

- Autodesk channel for 22 years
  - Manufacturing
  - Document management
  - AEC space
- 12 years in Industry
  - Construction
  - Manufacturing
  - $\circ$  IT





# **Bouldering Fanatic**

I'd like to be as good as the guy in the picture!!!

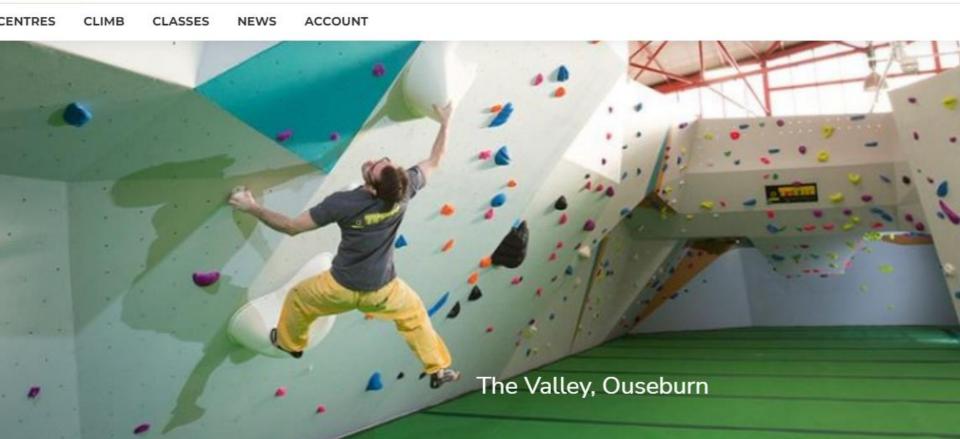








0191 276 2174 / info@climbnewcastle.com







arties

E Vouch













BOOK NOW







# Together we are stronger

#### Addnode

- 2100 Employees
- \$ 500 M Revenue
- 3 sectors
  - Design Management
  - Process Management
  - Lifecycle Management

#### Symetri + Microdesk

- 750+ Employees
- 100 Developers
- 400+ Consultants
- 200K+ Users
- \$ 300 M Revenue





### **Drivers**

#### Why are doing this?

- Client Requirements
  - Maintainable Asset data
  - As Constructed asset model
  - COBie

- Building Safety Act 2022
  - o BS 8644-1:2022 digital management of fire safety information
  - The Golden Thread
  - FIREie

# **Asset Model**

**As Constructed** 



# **Information Capture COBie**



# Grenfell

14th of June 2017

Dec 2018 – Hackitt Report

April 2021 – A New Safety Act

Updated Building Safety Bill

July 2021- Golden Thread Report

BS8644-1 'Digital management of fire safety information' (Published 17th July 2022)

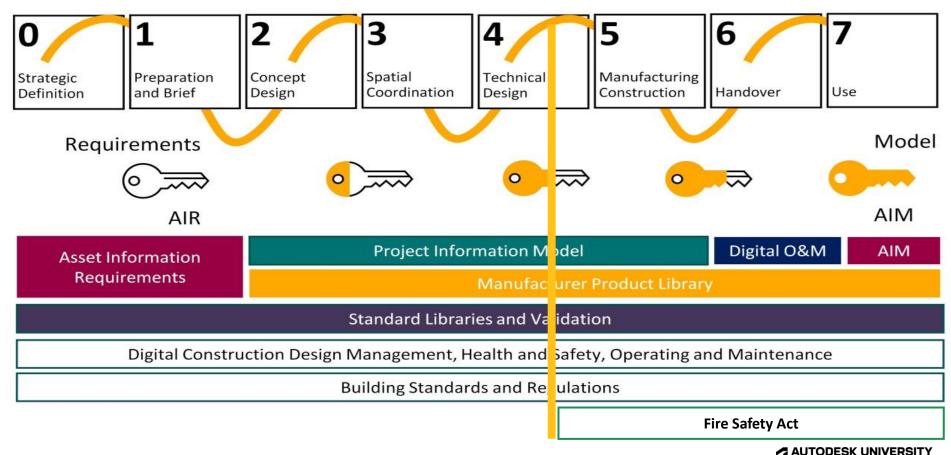


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# Information Capture COBie and FIREie

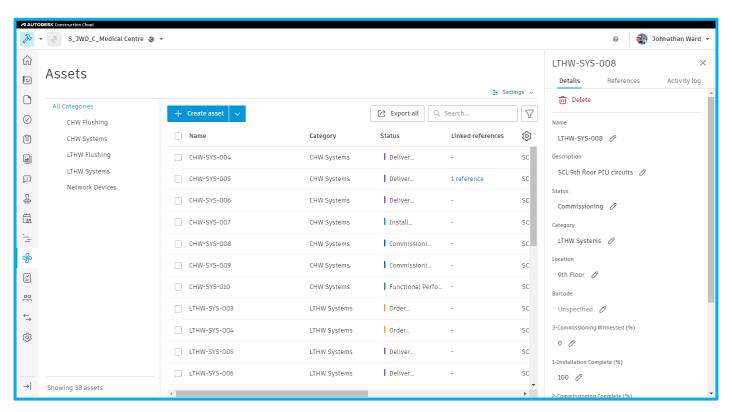


### The Golden Thread

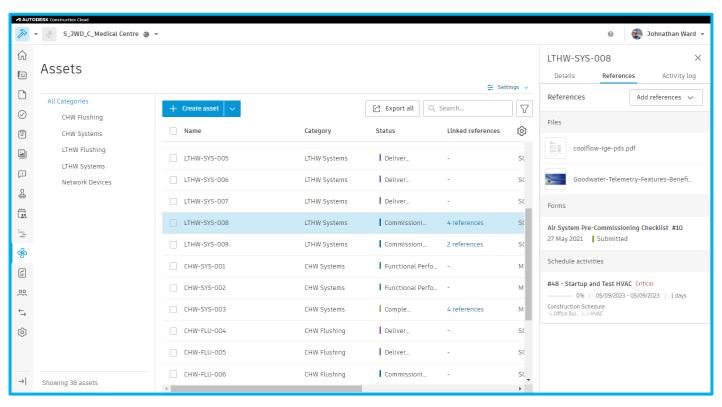




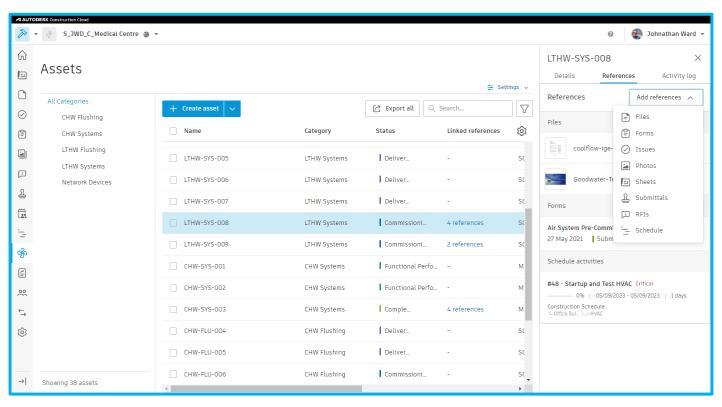
#### **Basics**



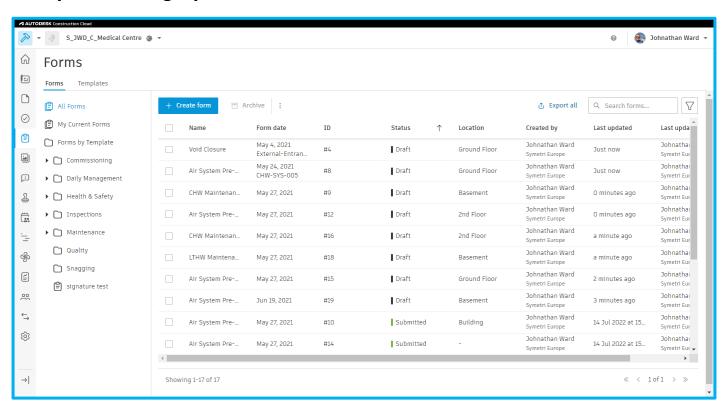
#### **References and Attachments**



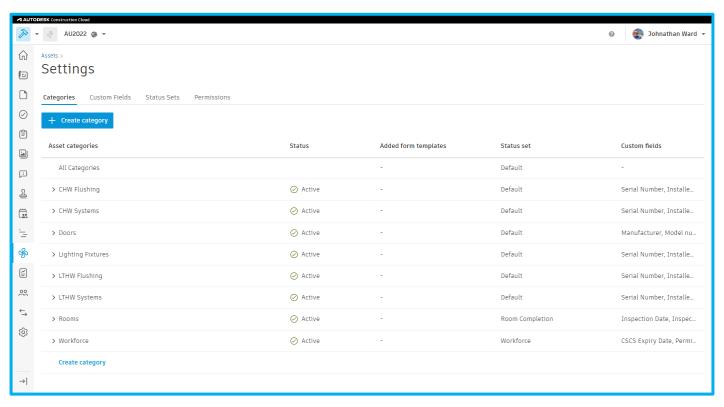
#### **Linked to entire CDE**



#### Forms Linked by Asset Category

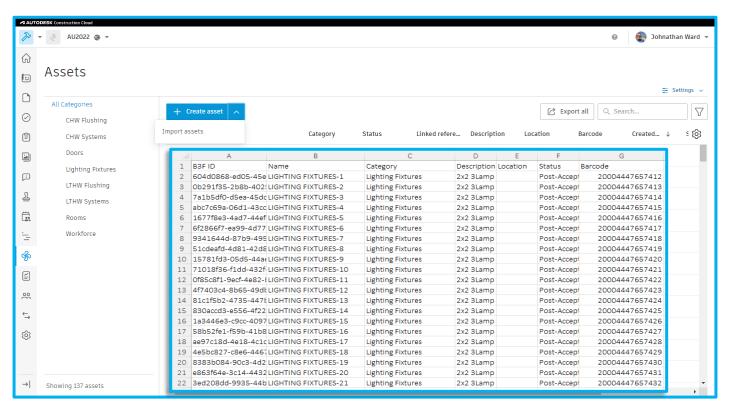


#### **Configuration Options**



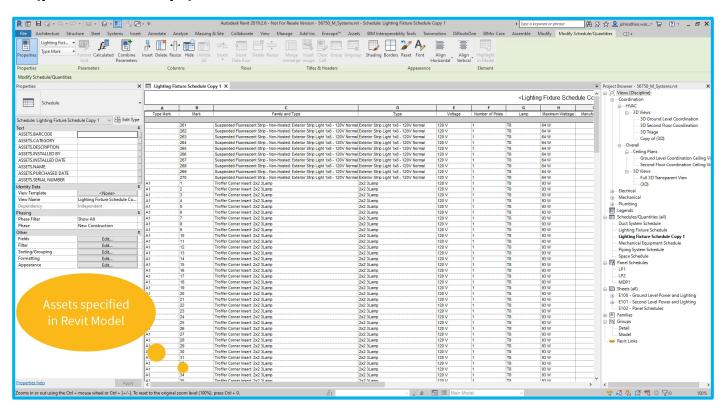
#### **Asset Creation**

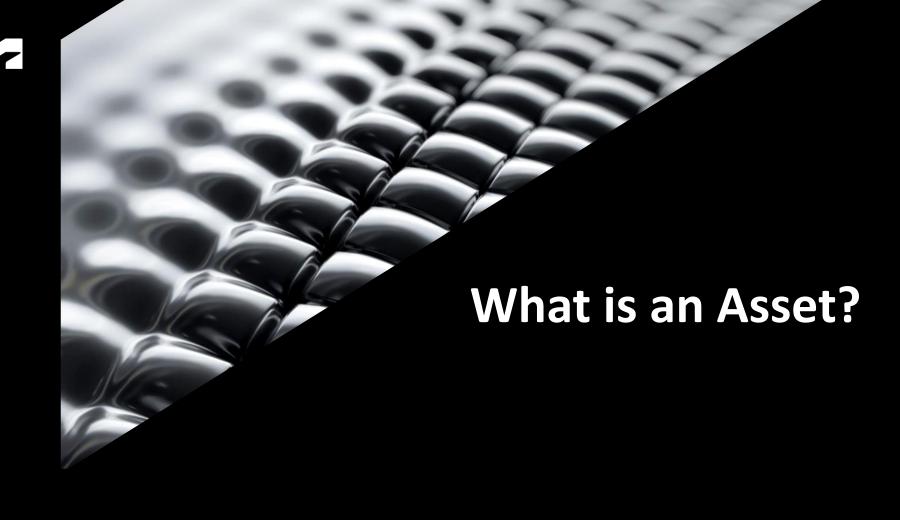
#### **Spreadsheet**



#### **Asset Creation**

#### **Revit Export (proof of concept)**



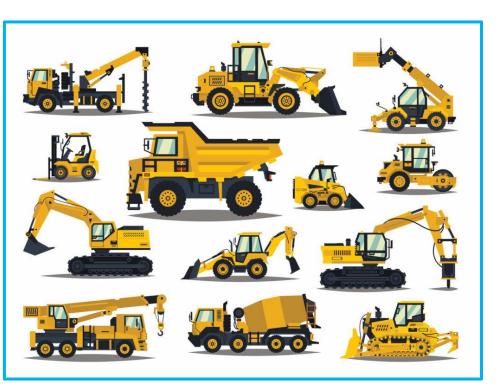














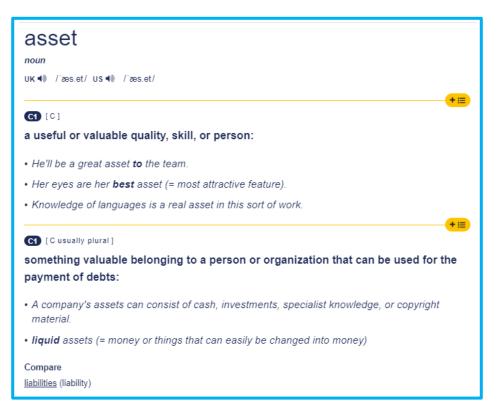






### **Asset Definition**

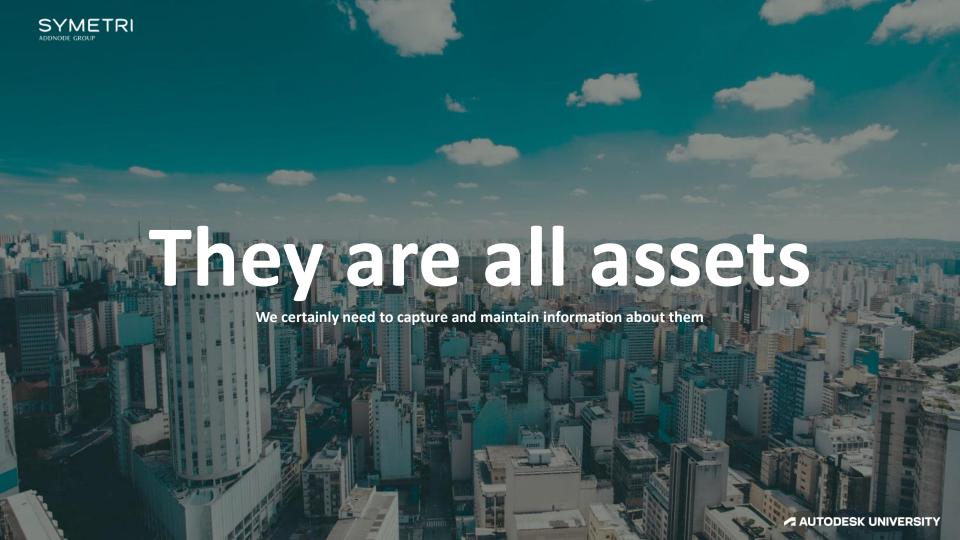
#### **Cambridge Dictionary definition**



### **Asset Definition**

#### **Uniclass 2015 tables**







### **Concrete Deck**

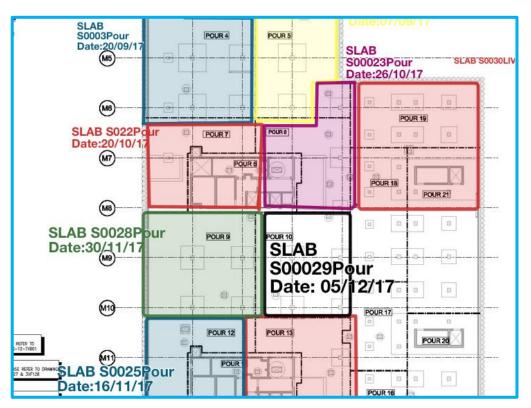
#### **Phased assets**



- Engaged with customer to develop check sheets
- Concrete Elements listed as a piece of equipment
- Relevant check sheet appended to relevant concrete asset
- Progress Mark Ups

### **Concrete Deck**

Floor plans populated with progress





### **Track and Trace**

#### **Curtain panels - transit to installation**

- Track & Trace
- Barcode Utilisation Panel Ref & Type
- Logistics Status of Panel and Stillage
- Associated Check Sheets
- Generic & Bespoke Panel Location
- Location Allocation
- Appearance Profile Utilising Status Code Allocation



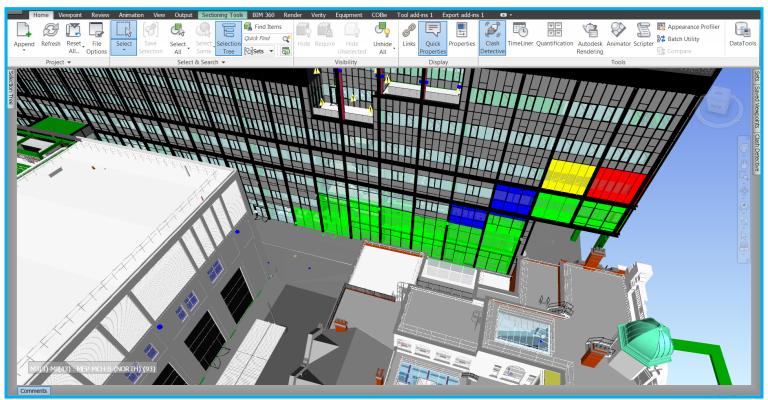
### **Track and Trace**

#### Elevations populated with façade progress



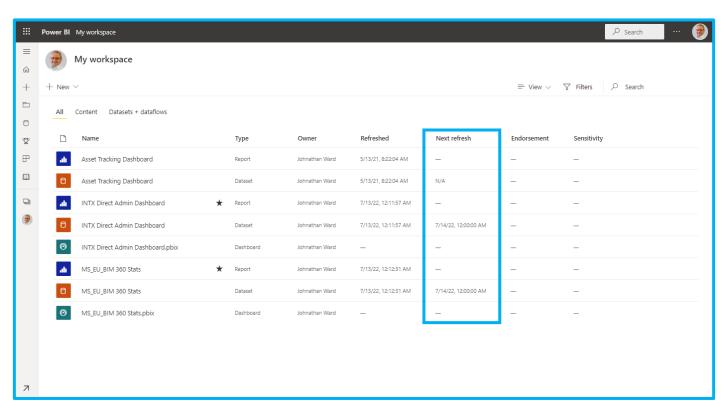
### **Track and Trace**

Navisworks model populated with façade progress



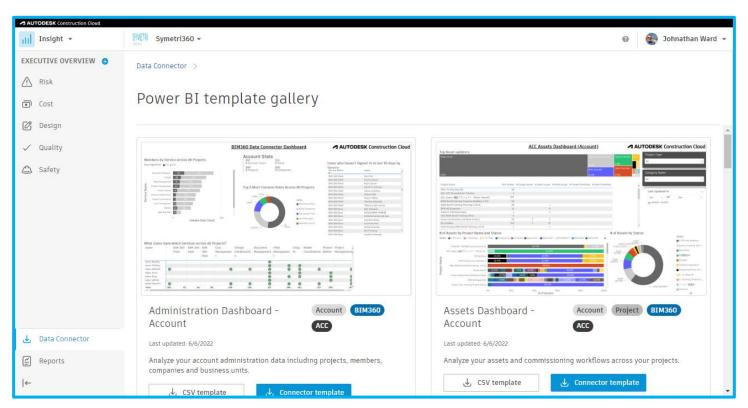
# **Power BI Dashboards**

#### Scheduled refresh of data



# **Power BI Templates**

### From account insight pages



### **Site Permits**

People as assets







- Waterproof permit on a high visibility armband in order to recognise who the permit has been issued to onsite/space.
- Provides a clear identification of who has been issued the permit on site.
- A manager can carry out a spot check using the QR Code Scanner to ensure the permit is in date and is being used in the correct location.
- Check anyone issued a permit has received adequate training and is considered competent to carry out operation.
- All related check sheets and photos are appended to a particular permit on a daily basis.

Be aware of specific country requirements on personal data protection regulations

# **Temporary Equipment**

**Equipment on hire - fault logging** 



- All mobile & fixed plant items to be allocated an Individual barcode.
- Managing Hired Equipment and Plant.
- Monitor plant duration and avoid missing plant items.

#### **Expanded Plant**

Excavator 2 Expanded
CAT320E

Supplier: SELECT

Plant No: CAT0320ELNAZ00226



# **Hoarding Inspections**

**Damage and graffiti inspections** 

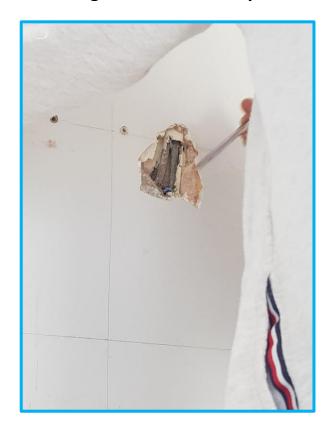




# Site Verification

# **Site Verification**

**Avoiding issues after completion** 

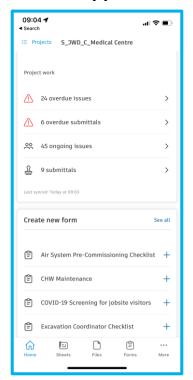


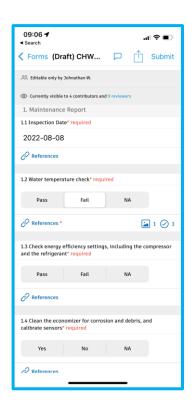


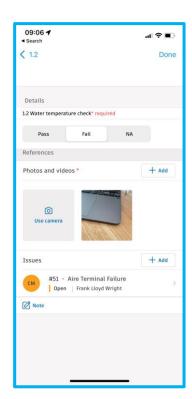
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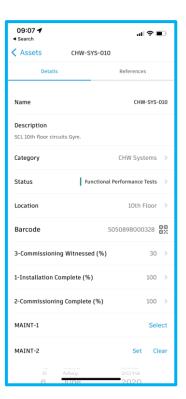
### **Site Verification**

#### Mobile app



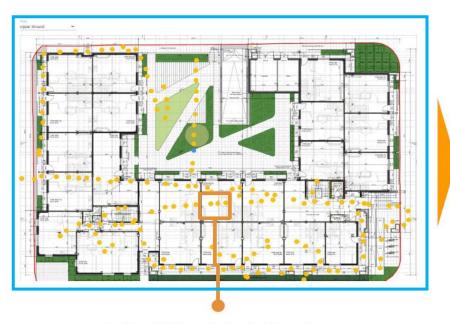








# 360 site view mapped to the floorplan...



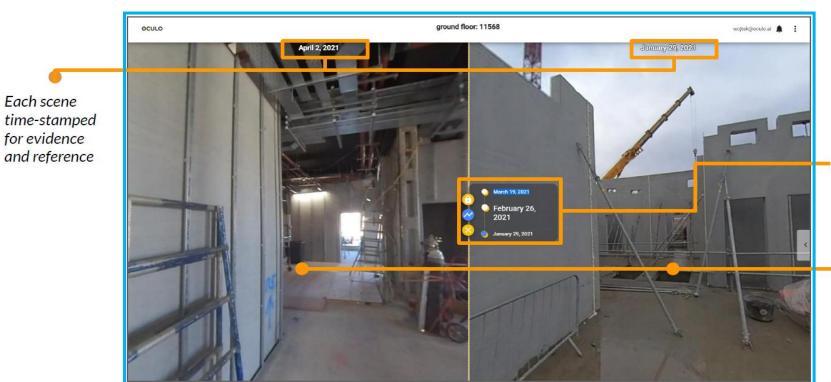
Each of the points on the plan...



...connect to an up to date 360-degree site view



# ...allowing instant review of progress over time...

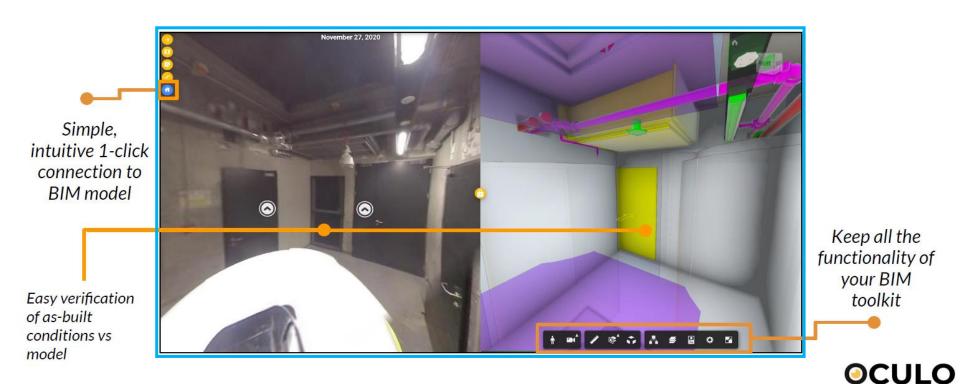


Travel back in time through visual history

See changes over time for every point of your site

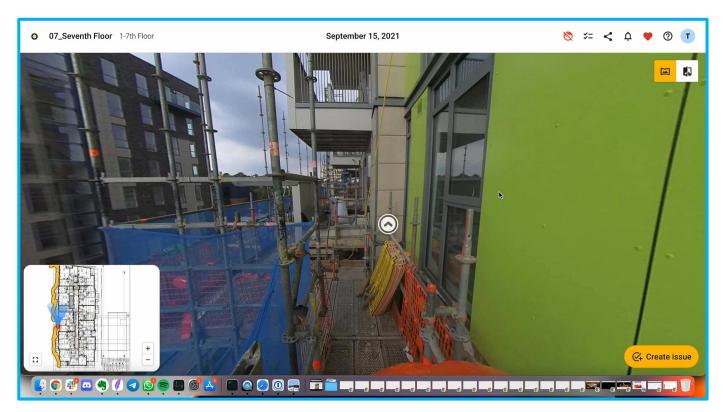


# ...and against your BIM



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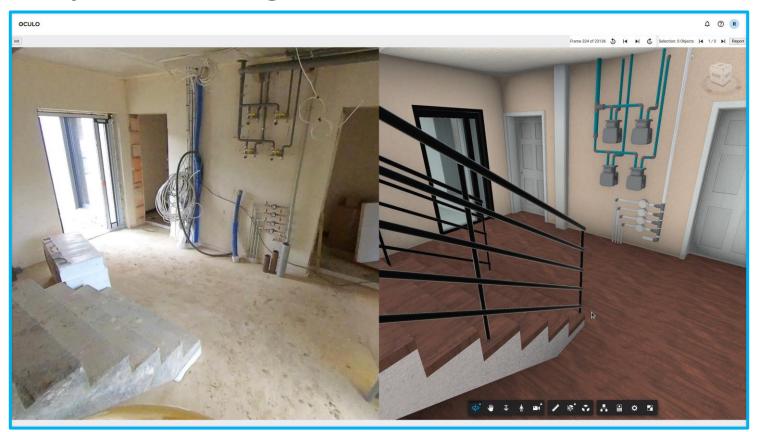
# **Compare Surveys**



# **Model Browsing Assets**



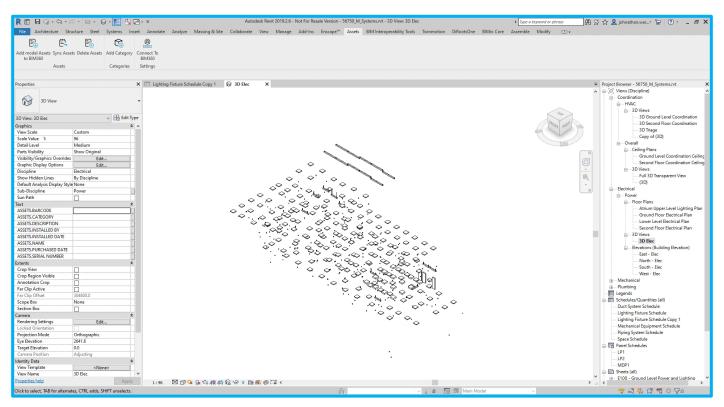
# **Asset Report and Progress**



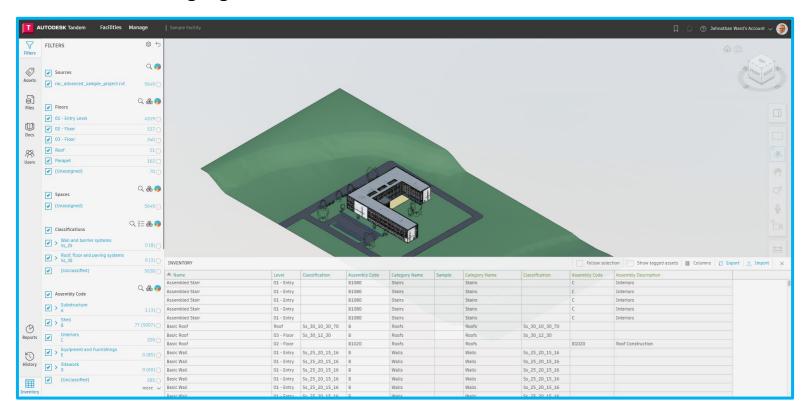


### Information extract from ACC

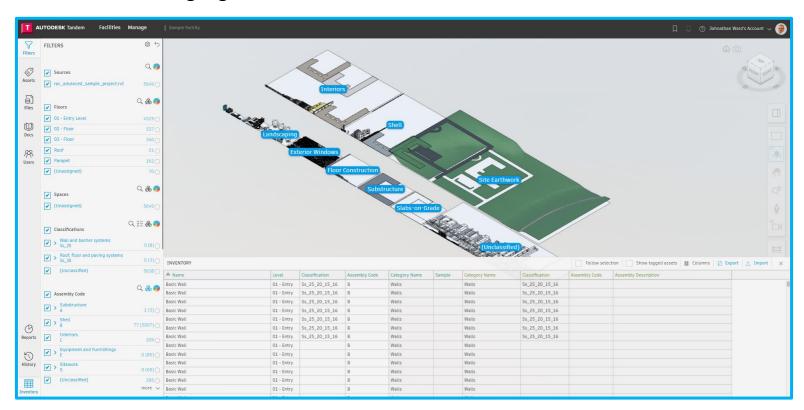
### **Revit (proof of concept)**



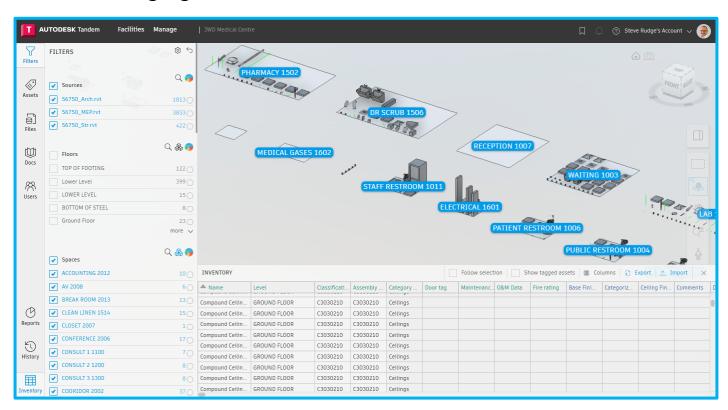
### Platform overview and highlights



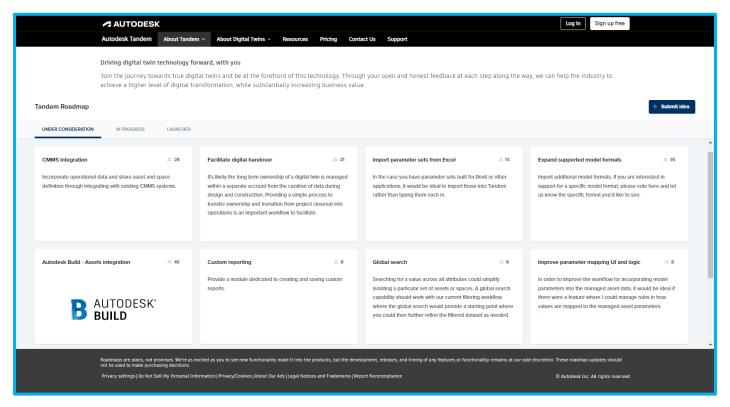
#### Platform overview and highlights



#### Platform overview and highlights



#### Roadmap



#### Roadmap

