CITA
April 5th
2023

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Diatec Technical Consultant
MSc. BIM, BSc. Arch. Tech (Hons)

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Agenda

1.0 SME Research – TU Dublin

2.0 Autodesk Construction Cloud

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1.0 Micro & SME Research

Work In Progress...

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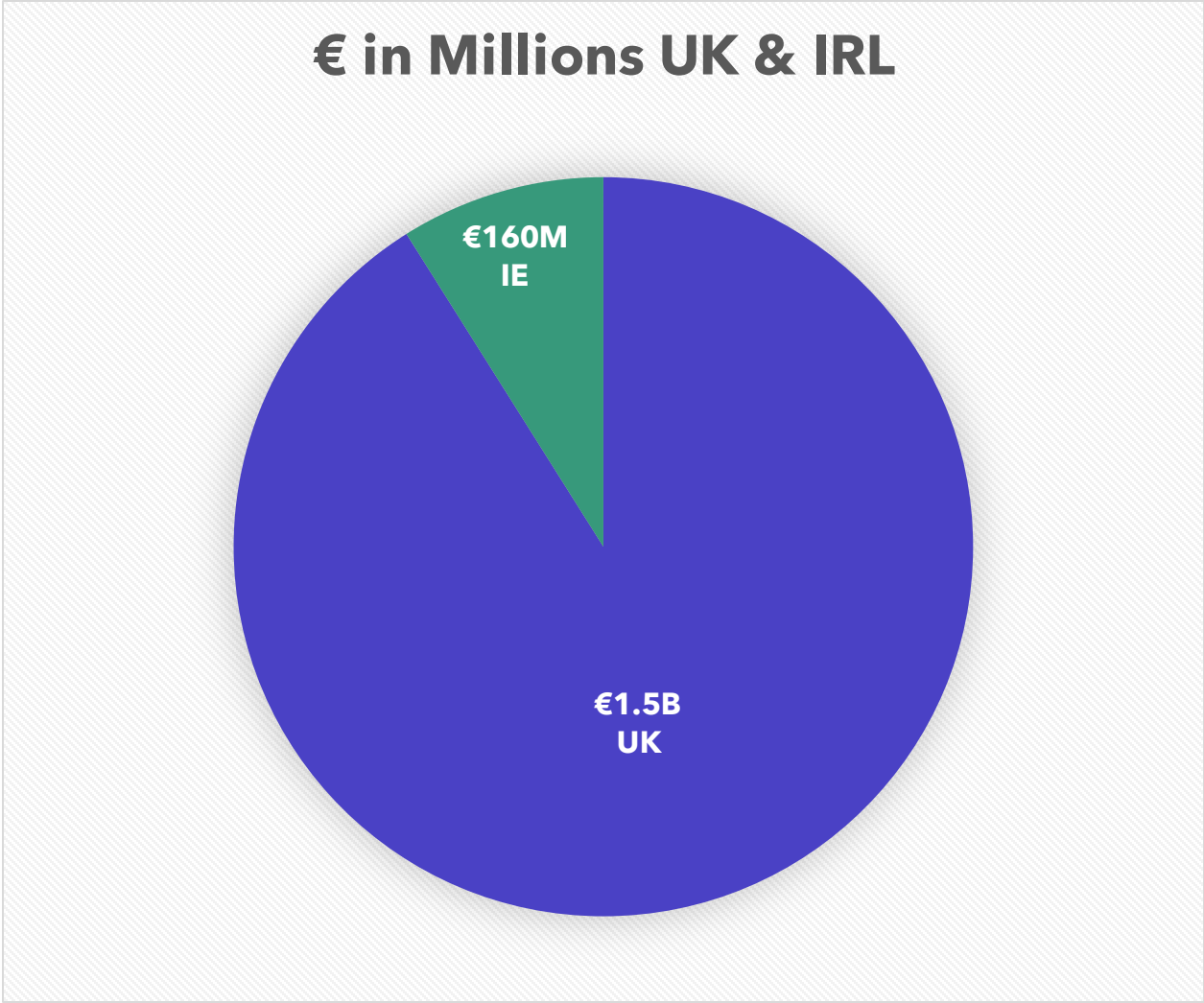
Small Project Market

* Small scale housing projects such as house extensions, loft conversions and one-off individual houses.

EU Small Project Fee Value

56% or €12B



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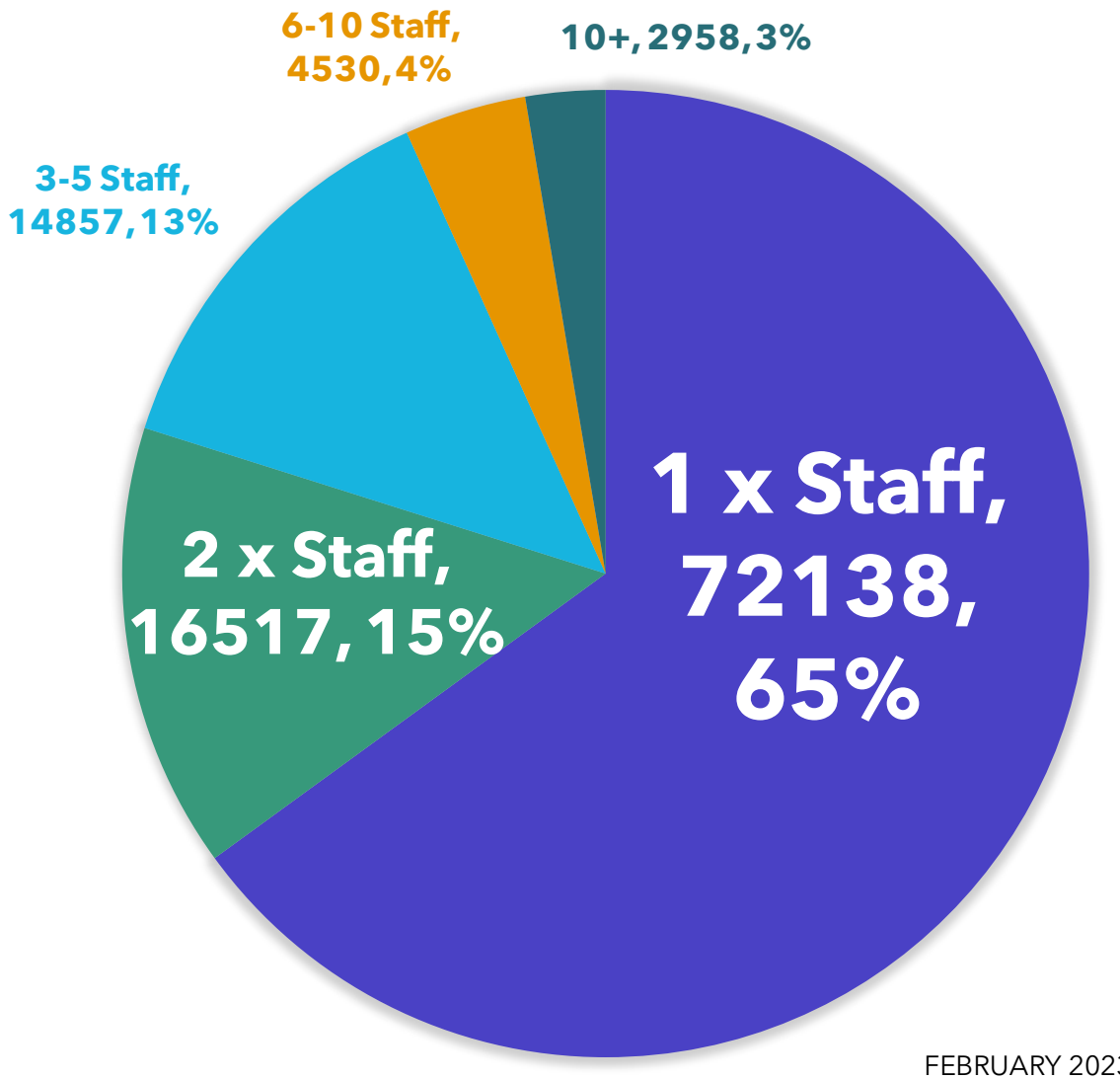
No. of Small Firms

111k Design Firms in Europe



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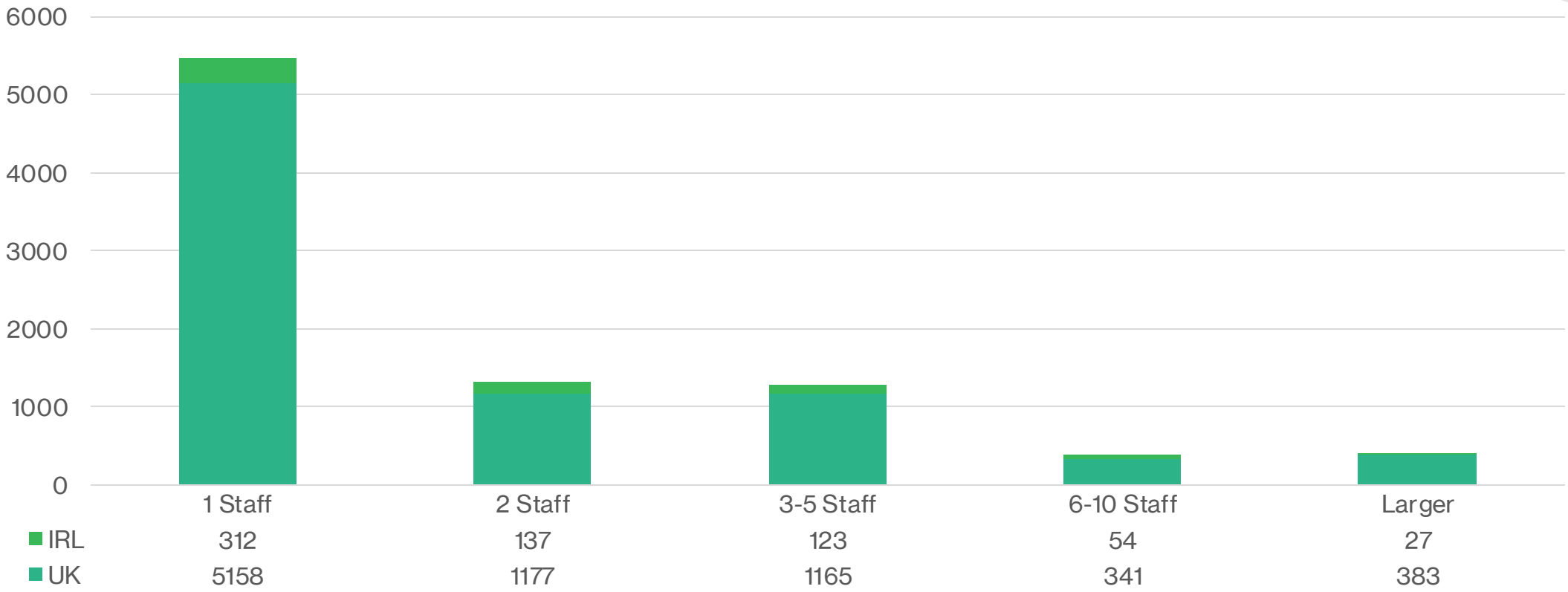
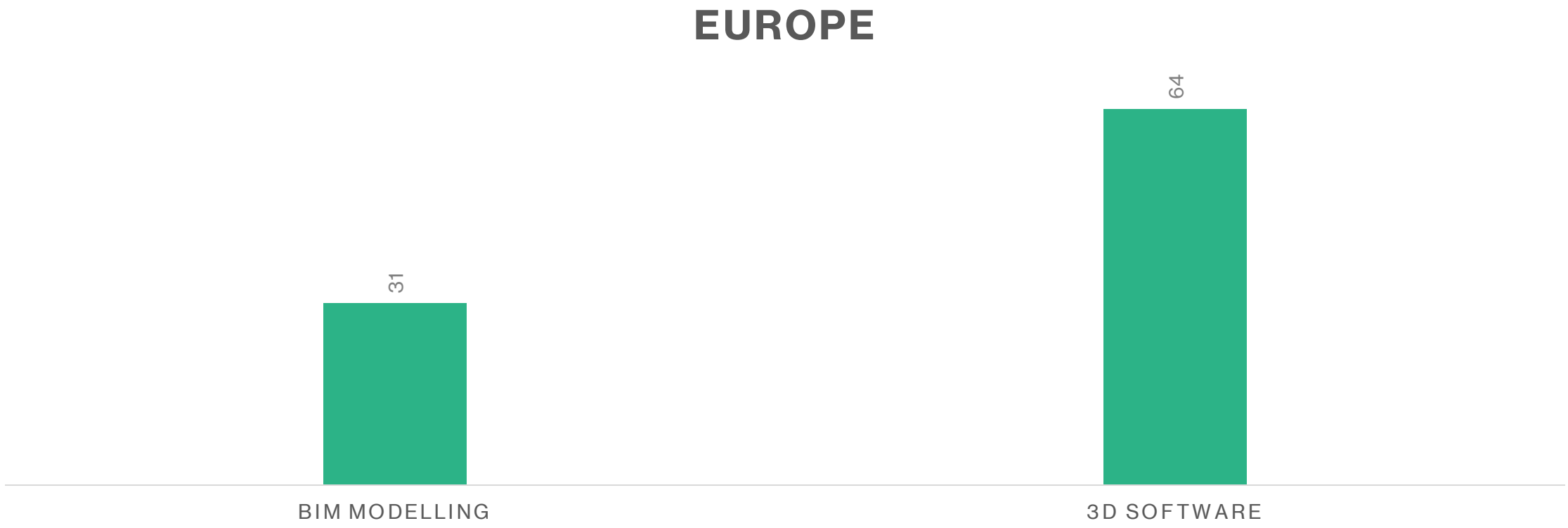
UK & IRL Small Firms



Europe % Technology Usage

(All firms Sizes – Sml & Lrg)



Small BIM

“For a sole practitioner or SME envisaging BIM adoption, it is not practical to seek the implementation of the ISO 19650 standard from the start, as it can quickly lead to being overwhelmed by the process and nomenclature involved, which risks reverting back to 2D CAD”

RIAI BIM Pack - 2022

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Jonathan Reinhardt // Chartered Architectural Technologist // MCIAT, MSc. BIM, BSc. (Hons) Arch. Tech.

We need a Small Project BIM Standard...

Work In Progress...

‘SBIM’

Barriers to BIM - Results

Work In Progress...

- Cost of software
- Lack of skills In-house
- Learning curve (loss of time)

Literature so far...

Work In Progress...

- Smaller Projects are Non-collaborative – less issues with exchange of information, interoperability.
- sBIM Focus on gaining business Efficiency rather than collaborative effectiveness
- These are benefits for small firms.

Diatec & Revit LT for Small Projects

- Diatec launching Revit LT for Small Projects course
- Self paced video content designed specifically for small design firms
- Maximising service quality & business efficiency for smaller firms

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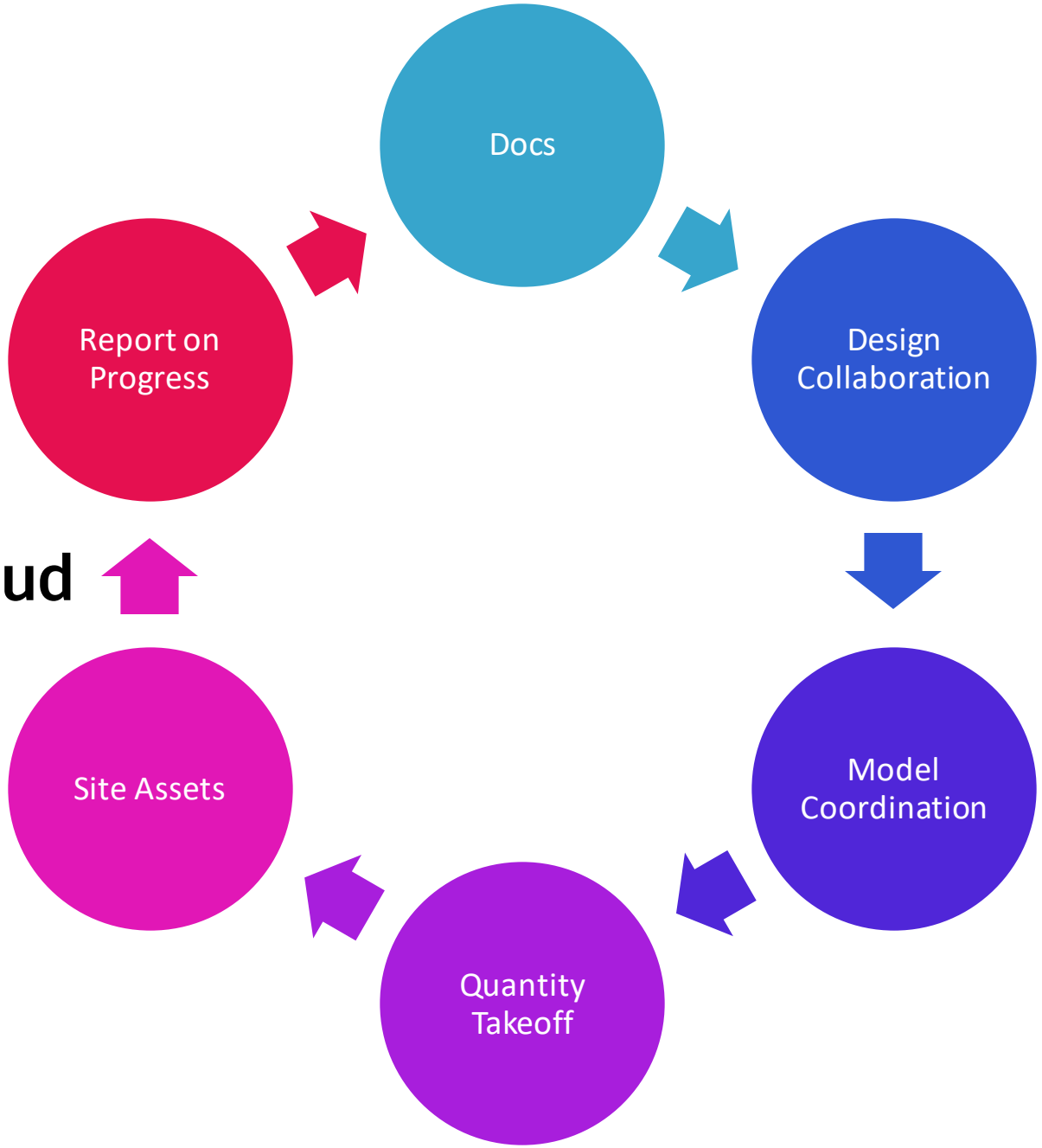
2.0 Autodesk Construction Cloud

Good Information Practice

AUTODESK Construction Cloud



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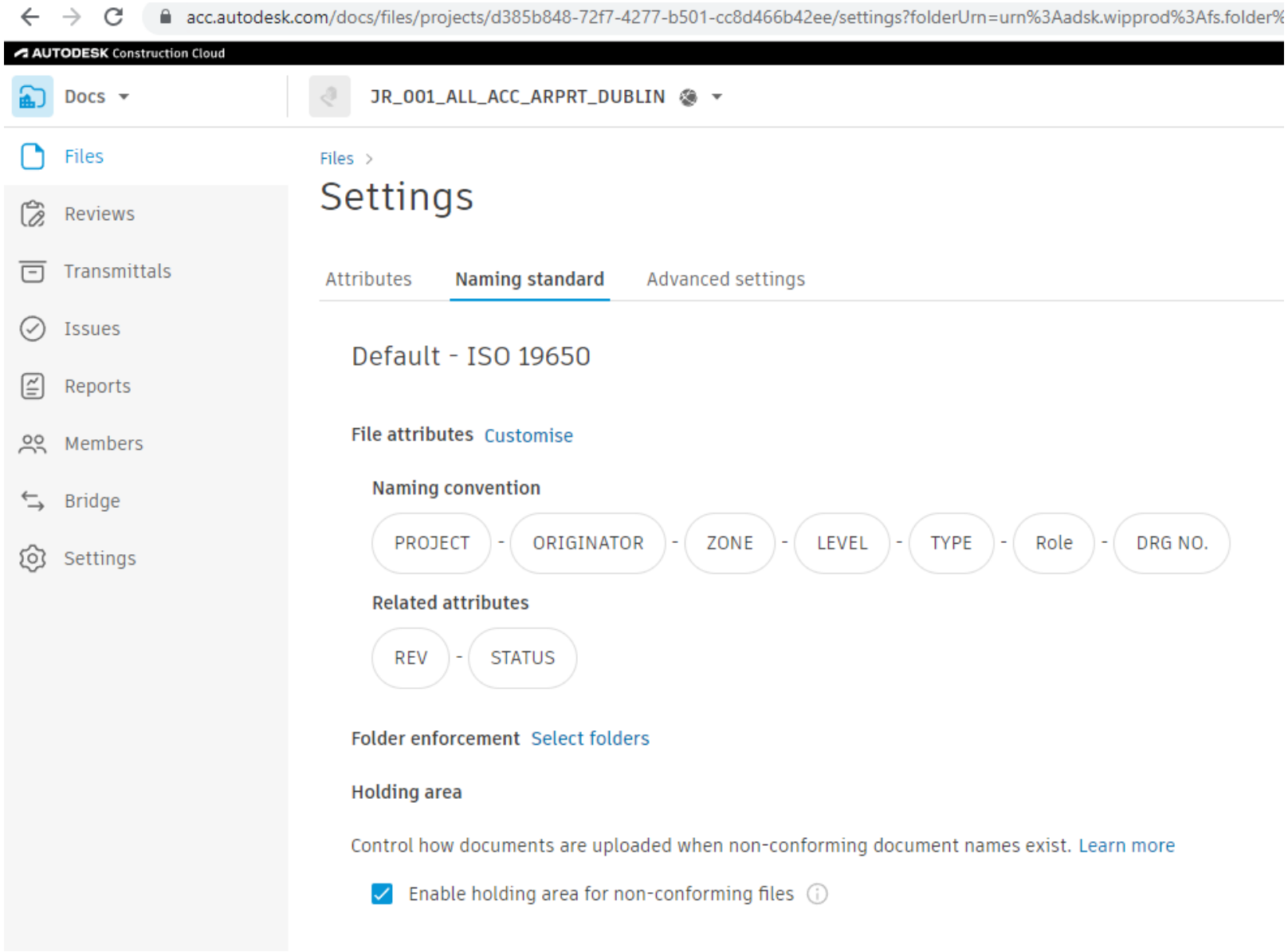
Autodesk Docs

- Naming Enforcement
- ISO 19650



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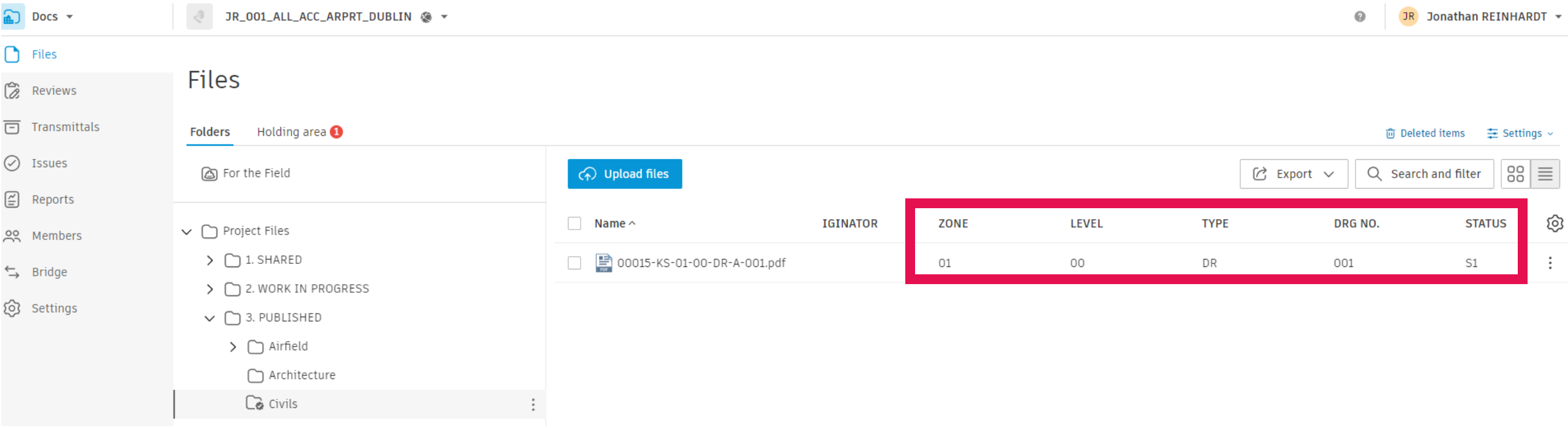
Autodesk Docs

- Automatic Metadata population on Upload



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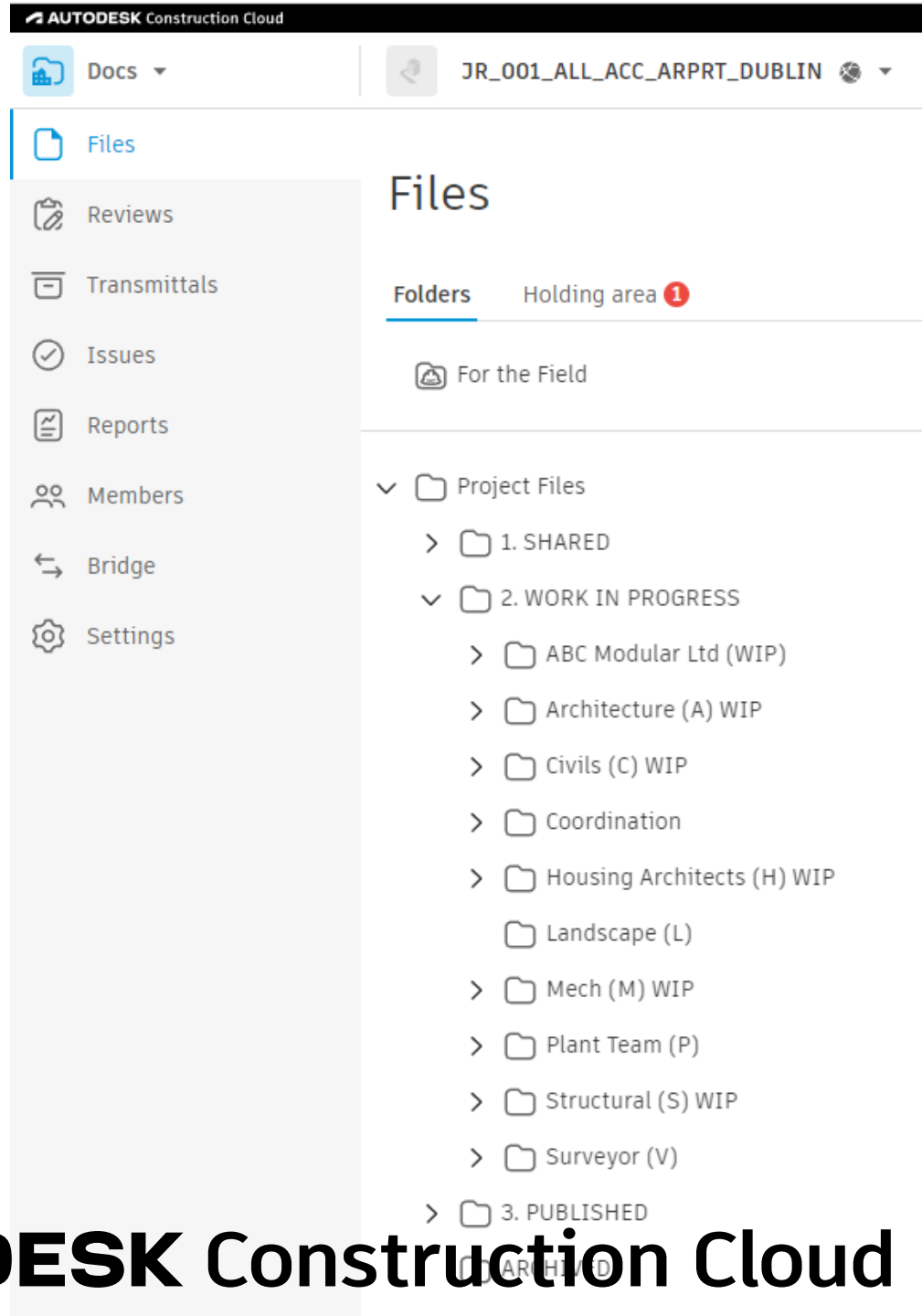
Autodesk Docs

- Folder Structure
- ISO 19650



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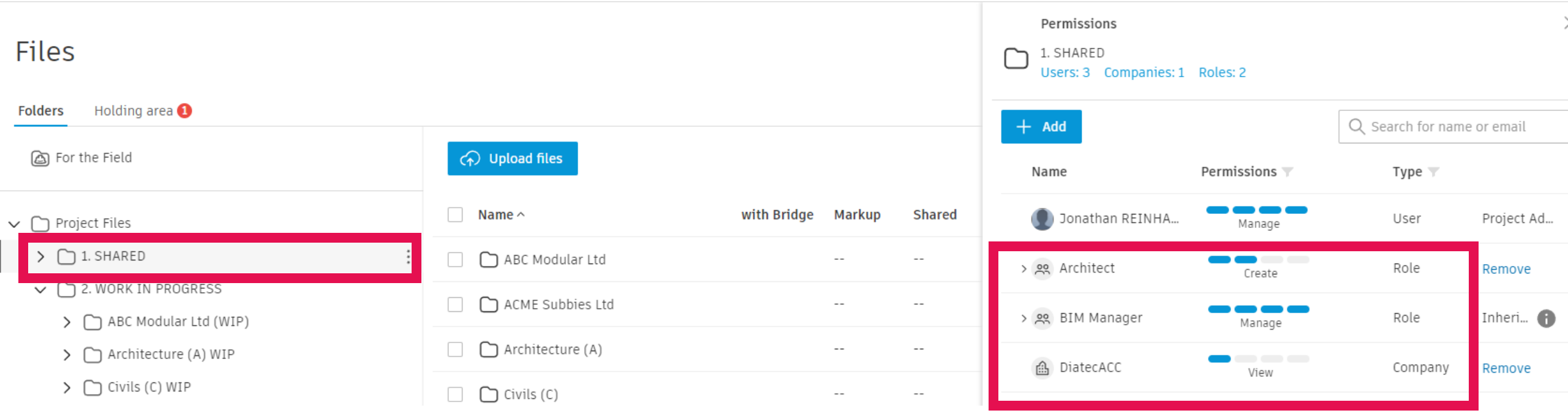
Autodesk Docs

- Manage Access by Role or Company



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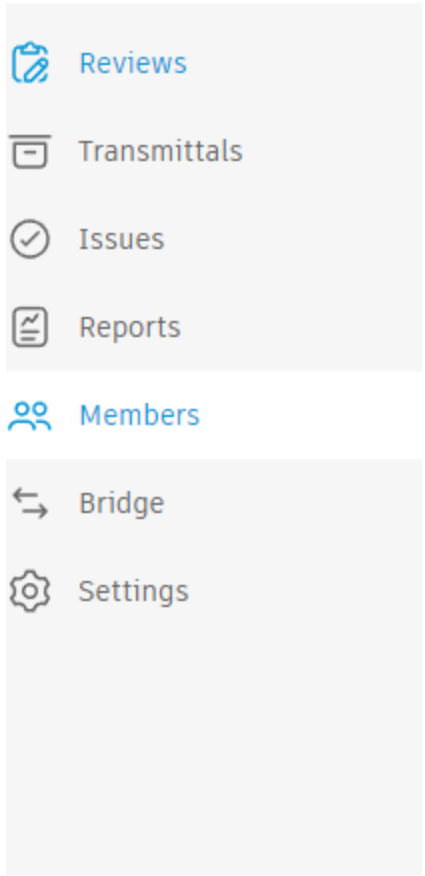
Autodesk Docs

- Use Roles & Companies per user



Members

+ Add members

Name	Email	Company	Role
IC Irene Fires (Fire Con.)	jonathan@jonathanrein...	Firesafety.ie Ltd.	Fire Safety Engineer
JP Joe Plumber	jonathan@diatec.ie	MECH People LtD	
JR Jonathan REINHARDT	jreinhardt@diatec.ie	ABC Architects Ltd.	BIM Manager +1
NA Nathan R. (Architect)	jreinhardt84@gmail.com	ABC Architects Ltd.	Architect
TT TOM TUD	jonathan.reinhardt@tud...	ABC ENGINEERS LTD.	Structural Engineer

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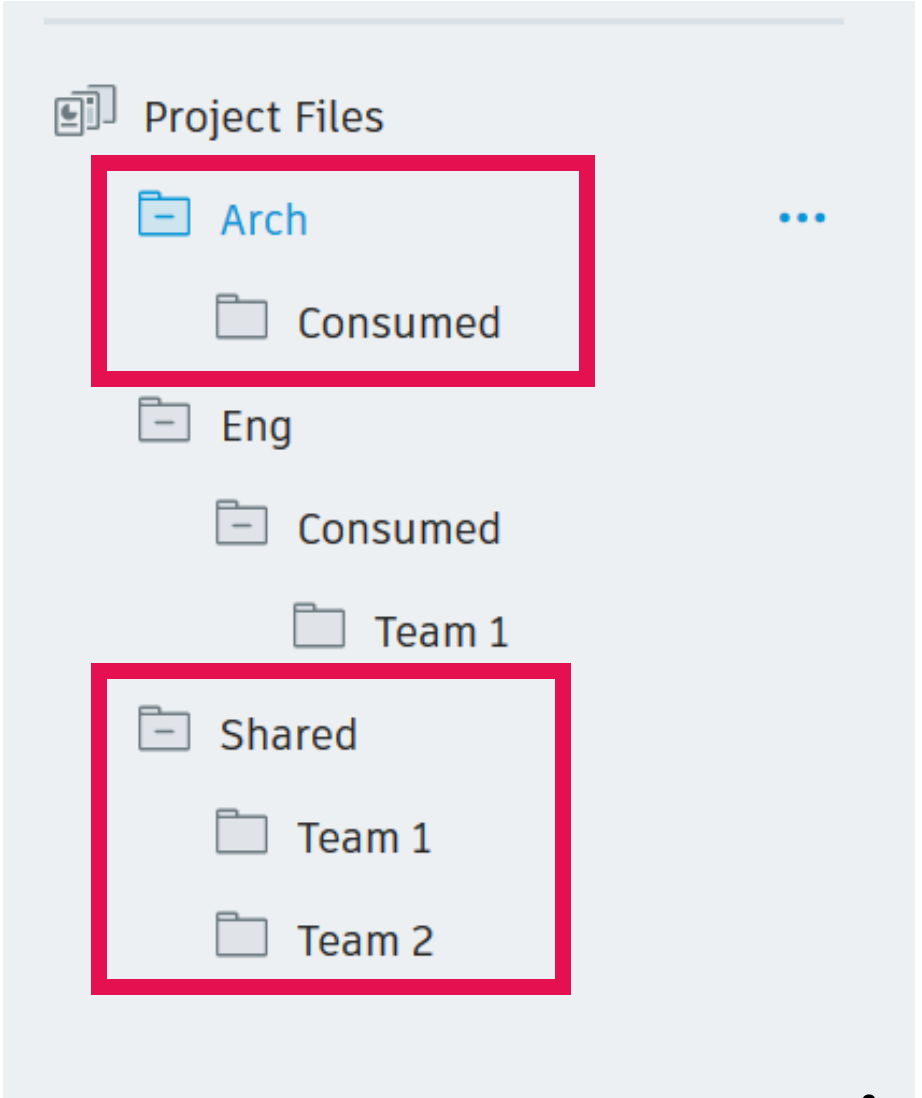
Autodesk Design Collaboration

- Manage data that is shared
- WIP & SHARED Intelligent



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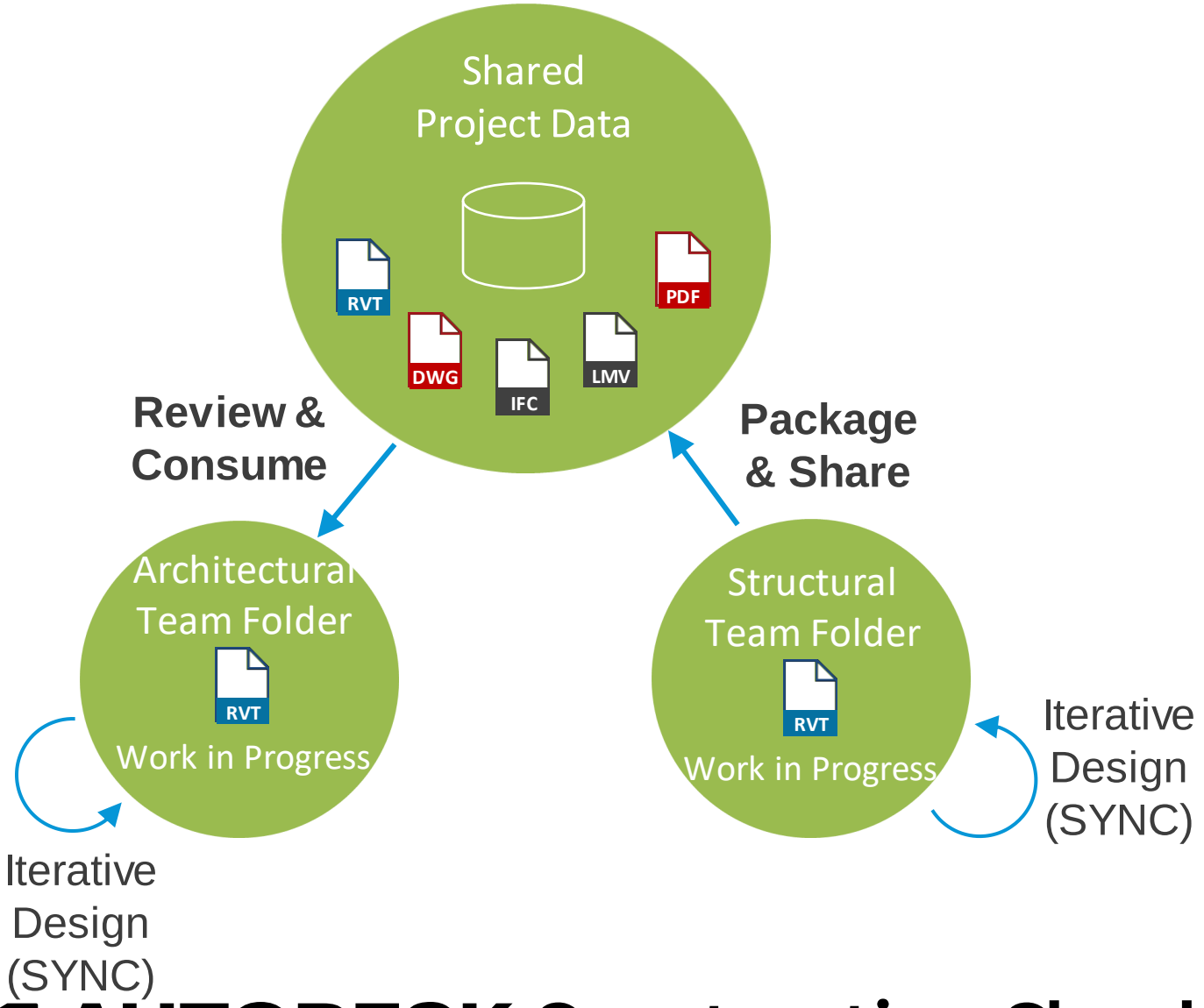
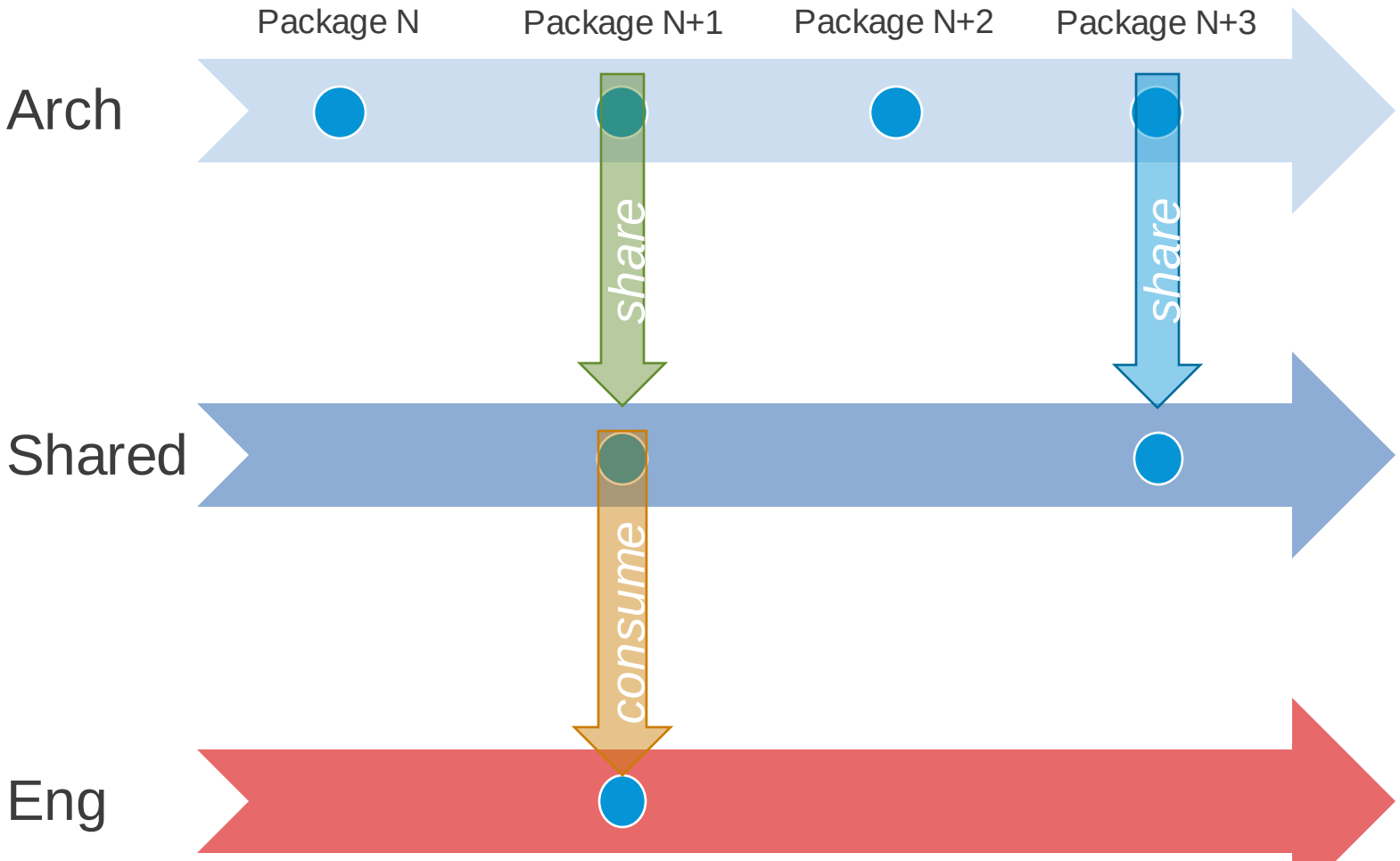
Autodesk Design Collaboration

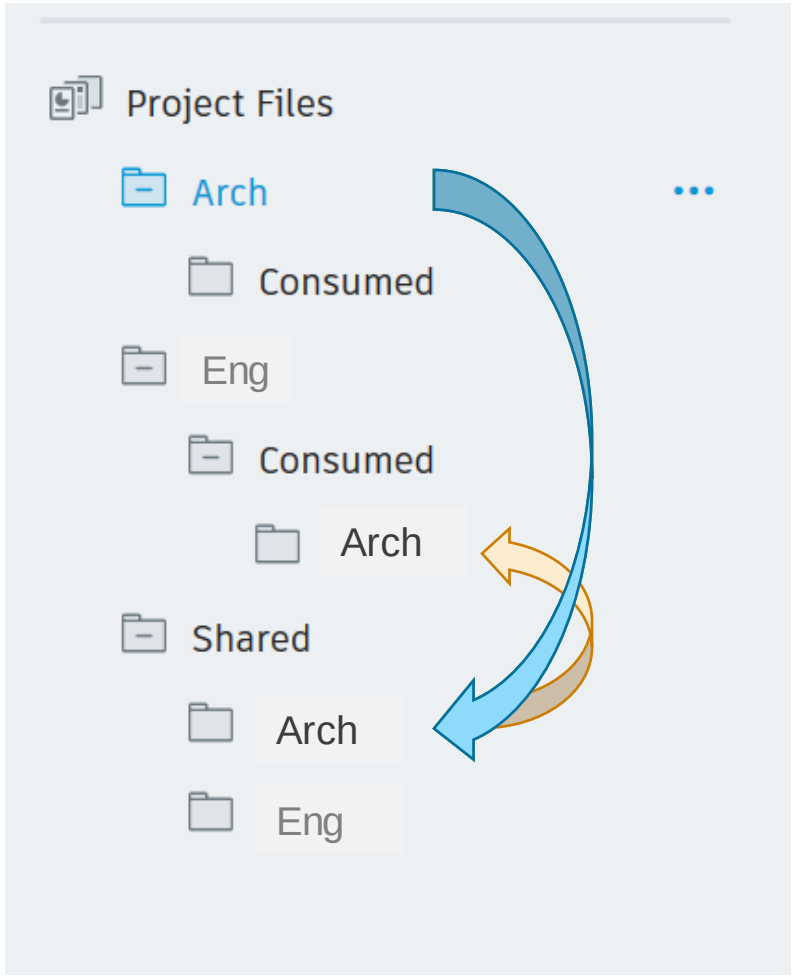
- A Revit model from another team is **published.**
- Same team creates and shares **a package.**
- The published model is '**consumed**' by a member of the recipient team, and all users in that team now has access to new data.
- Allows review of design and data prior to impacting work by the larger team.
- Link path should show: *BIM360//Project Name/Project Files/Your Team Name/Consumed/Other Team Name/FileName.rvt*



AUTODESK Construction Cloud

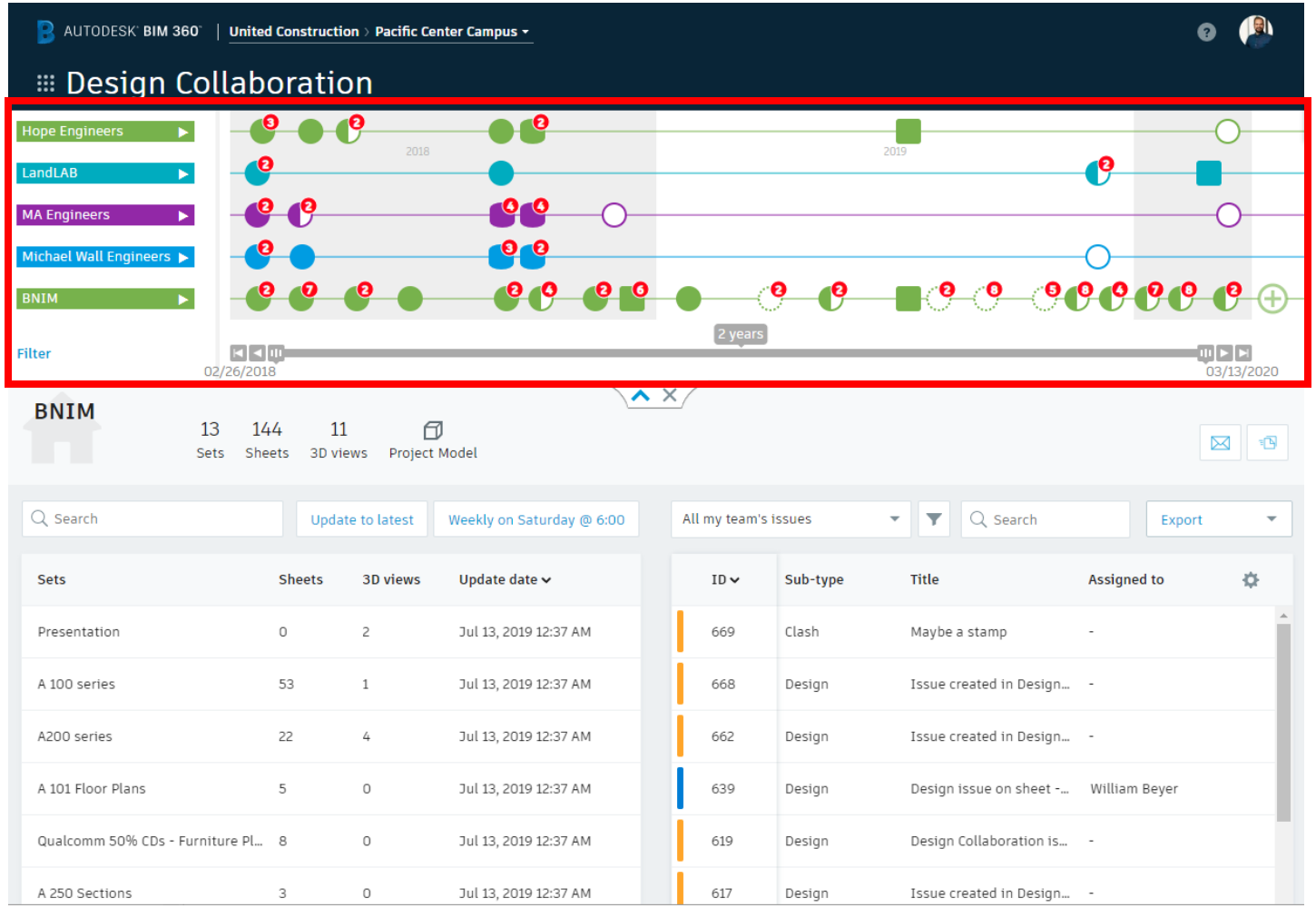
Sharing and Consuming a package





Autodesk Design Collaboration

- **Dedicated team lanes for each stakeholder**
  - Review packages created by your team
  - Access packages shared by other teams and consume their data
  - Review when a Revit model was published
  - Review all Revit models saved to a team folder



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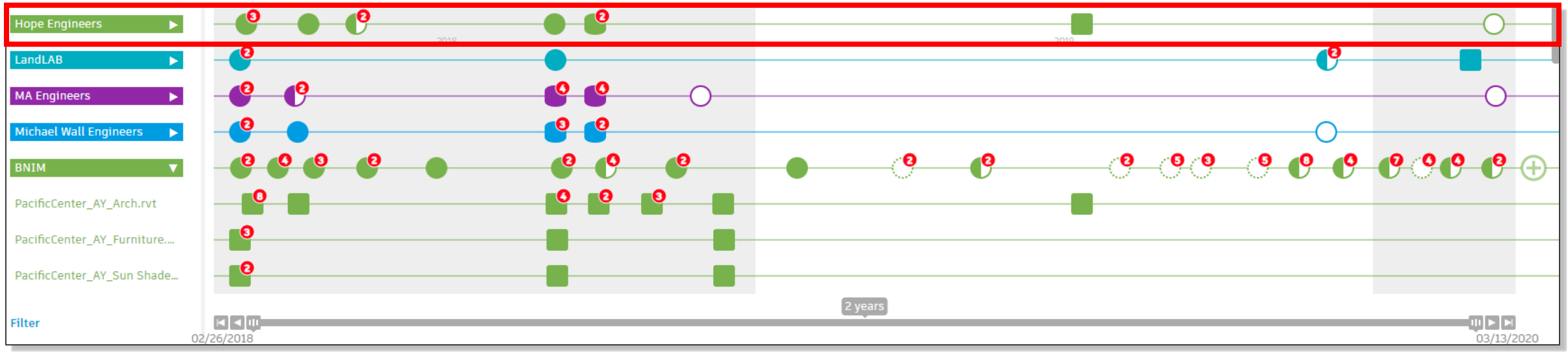
Autodesk Design Collaboration



- **Dedicated team lane for an external consultant**
  - Each team gets their own team lane.
  - Each team lane shows when that team has shared a package or published their Revit model to ACC.
  - Icons dynamically change fill depending on the team viewing the information.

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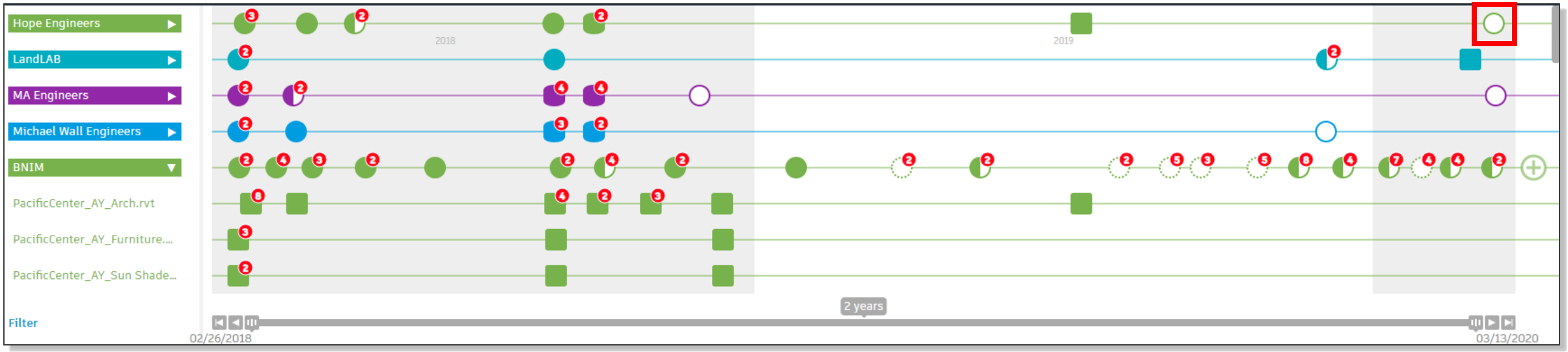
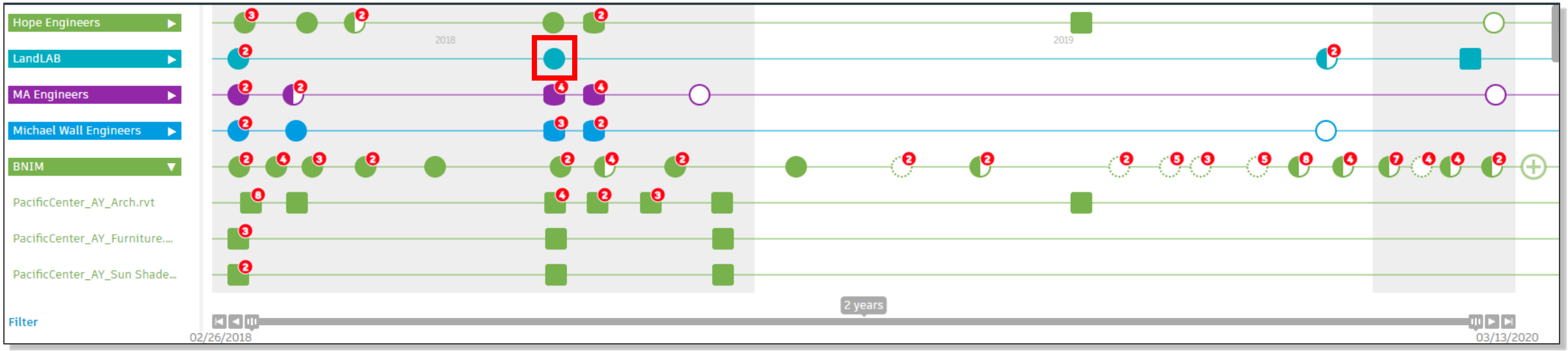
Autodesk Design Collaboration



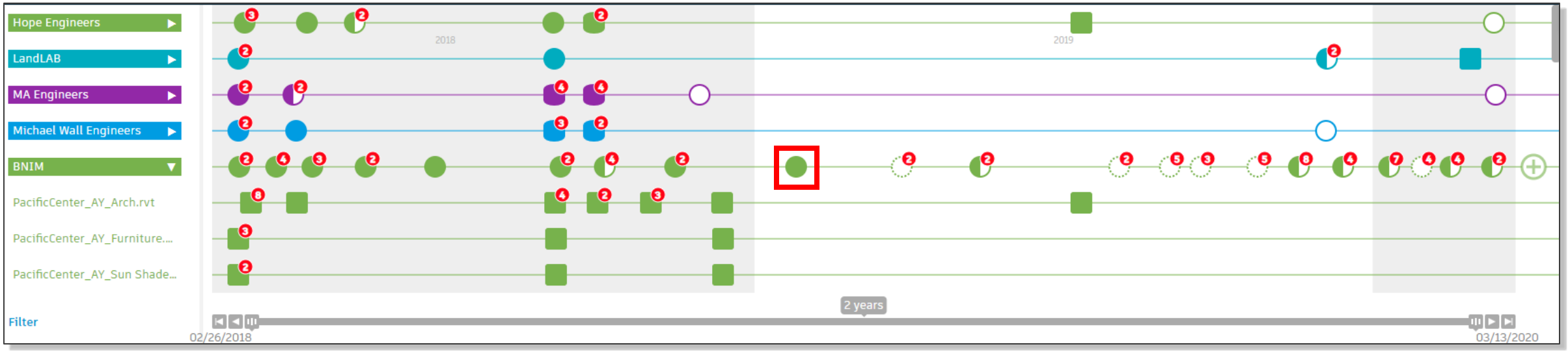
- **Team lane icon overview:**
  - An empty circle on another team's lane represents a package that has been shared, but not consumed by your team

Autodesk Design Collaboration



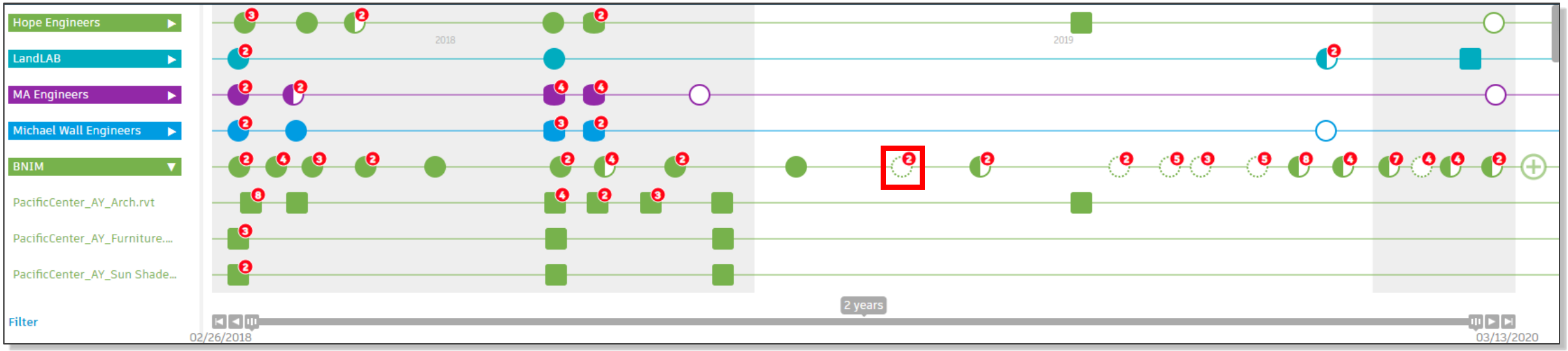
- **Team lane icon overview:**
  - A filled circle on another team's lane represents a consumed package

Autodesk Design Collaboration



- **Team lane icon overview:**
  - A filled circle on your team's lane represents a package you have shared

Autodesk Design Collaboration



- **Team lane icon overview:**
  - A dotted-line circle on your team's line represents the start of a new package that you haven't shared yet

Connected Data Makes for Better Data

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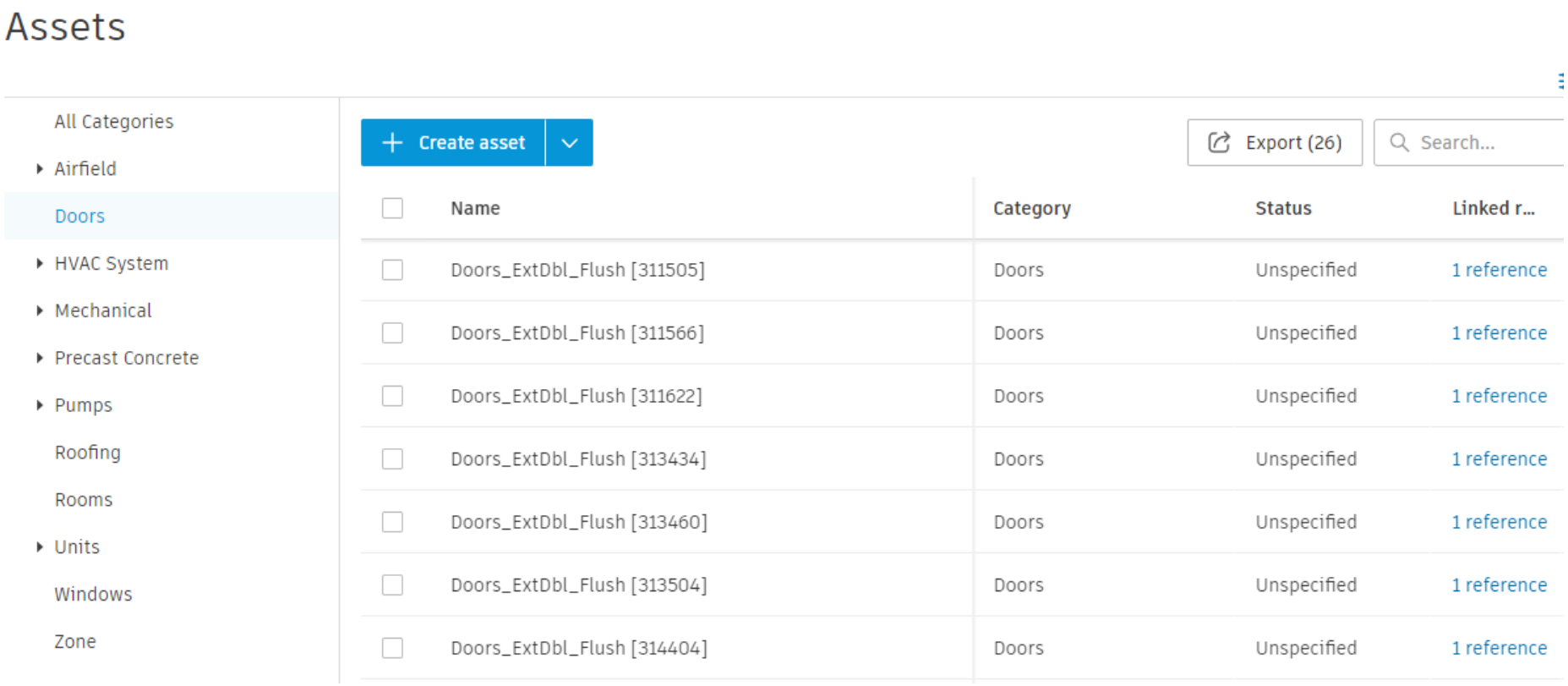
Autodesk Build - Assets

- Model Based Workflow



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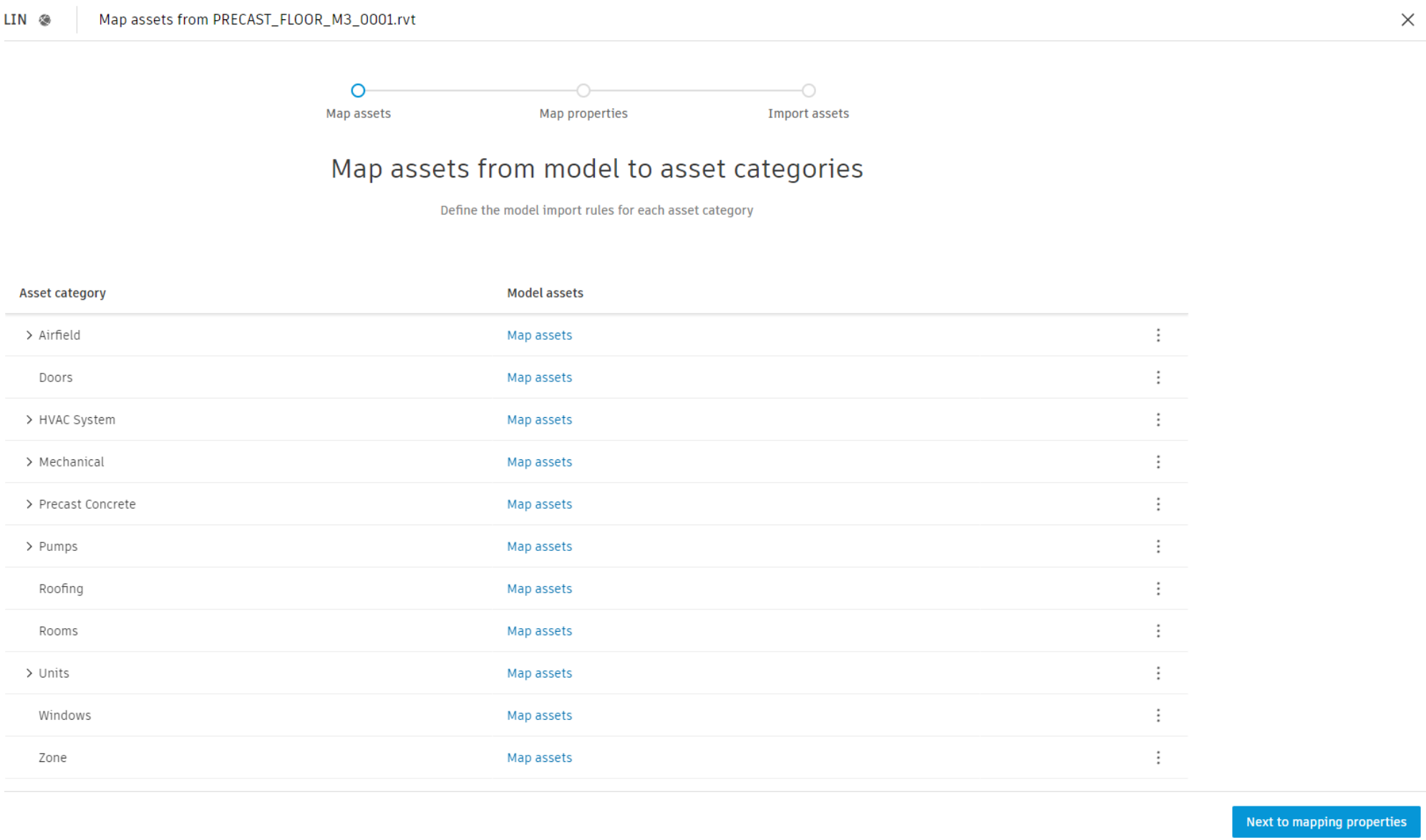
AUTODESK Construction Cloud

- Map Revit Parameters



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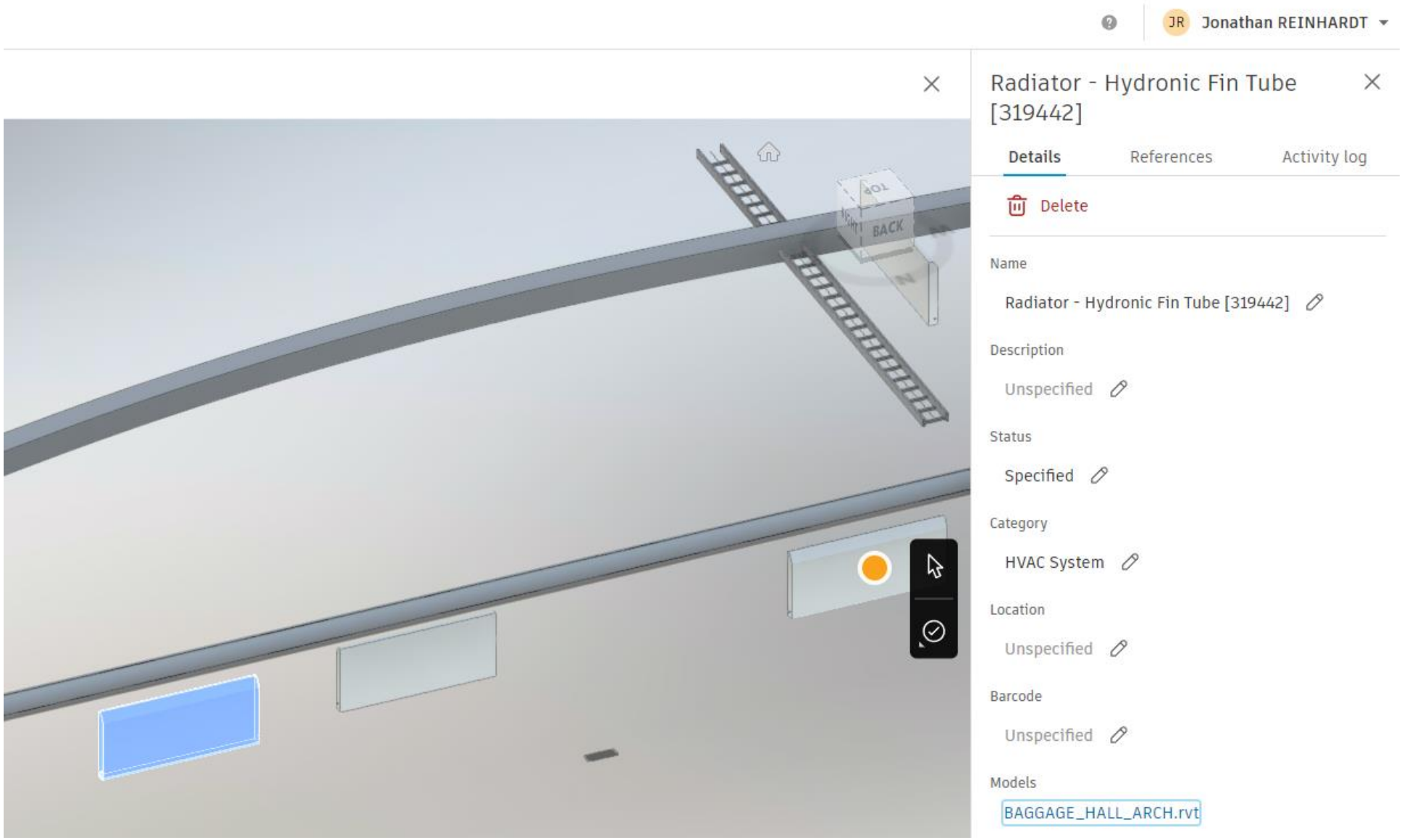
Update Status on Site - Barcode



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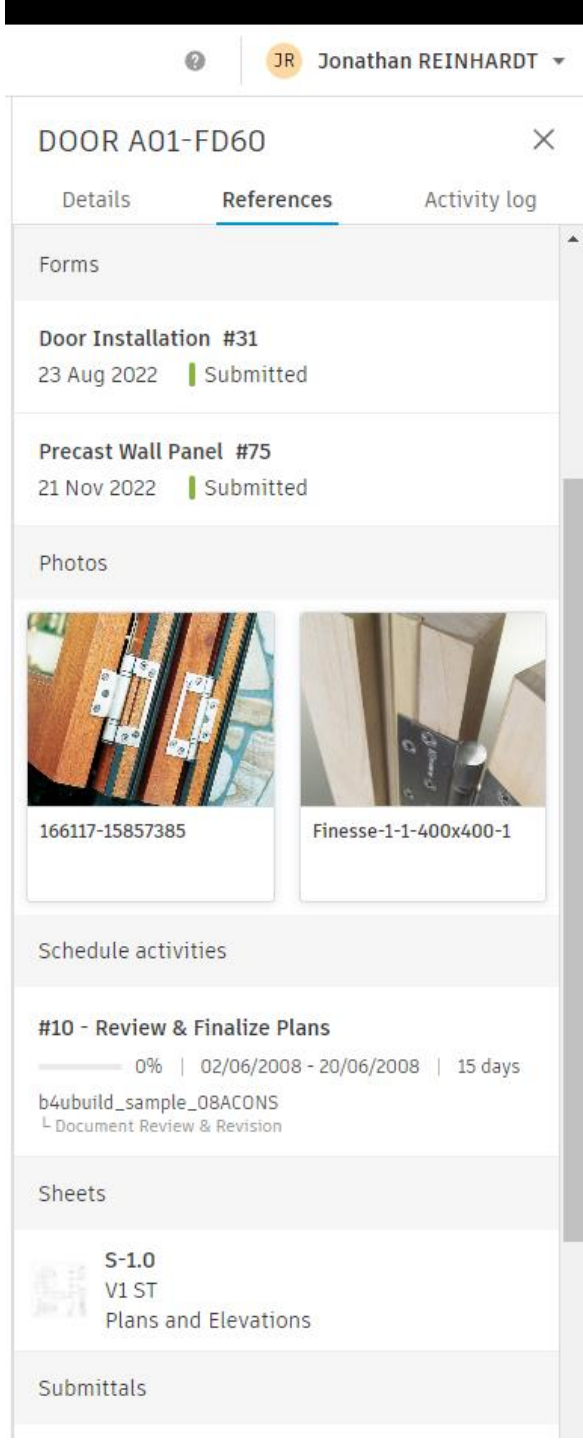
Autodesk Build – Use References

- Link Checklists (Forms) for Assets
- Link RFI's
- Link Cost Variations
- Link Quality Issues



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Thank You…