

Democratizing clash management with BIM 360 Coordinate

Lee Mullin

Senior Technical Specialist





About the speaker

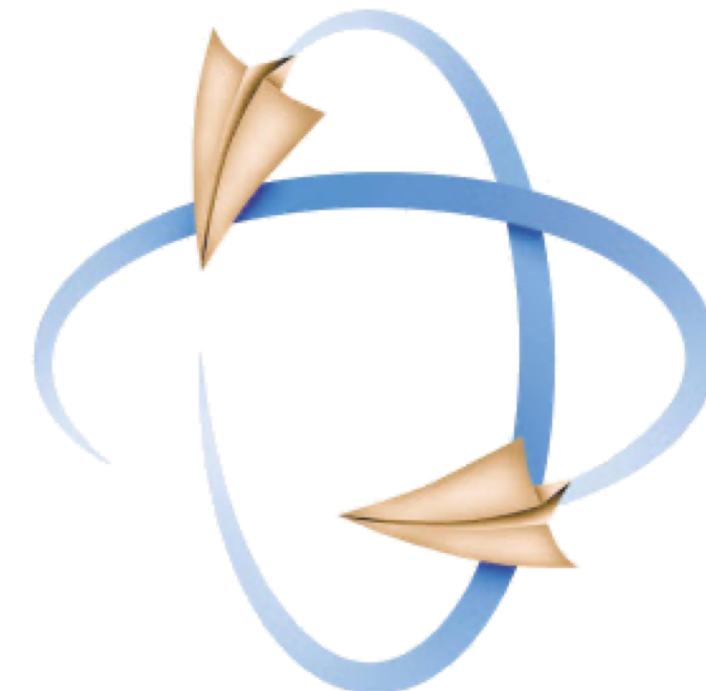
Lee Mullin

Senior Technical Specialist – Northern Europe

15 years experience in digital construction

Lead EMEA Construction Tech Specialist team

N A V I S



W O R K S





DESIGN COORDINATION

TRADE COORDINATION



**POTENTIAL
ISSUE**

CONSTRUCTION SITE

**BIM/VDC
MANAGER**



€15K

€10K

€4K

€30K

€3K

€1K

€8K

€1K

€1.5K

€2.5K

€10K

€1K



**DESIGN
TEAMS**

REWORK

CONSTRUCTION SITE

**BIM/VDC
MANAGER**



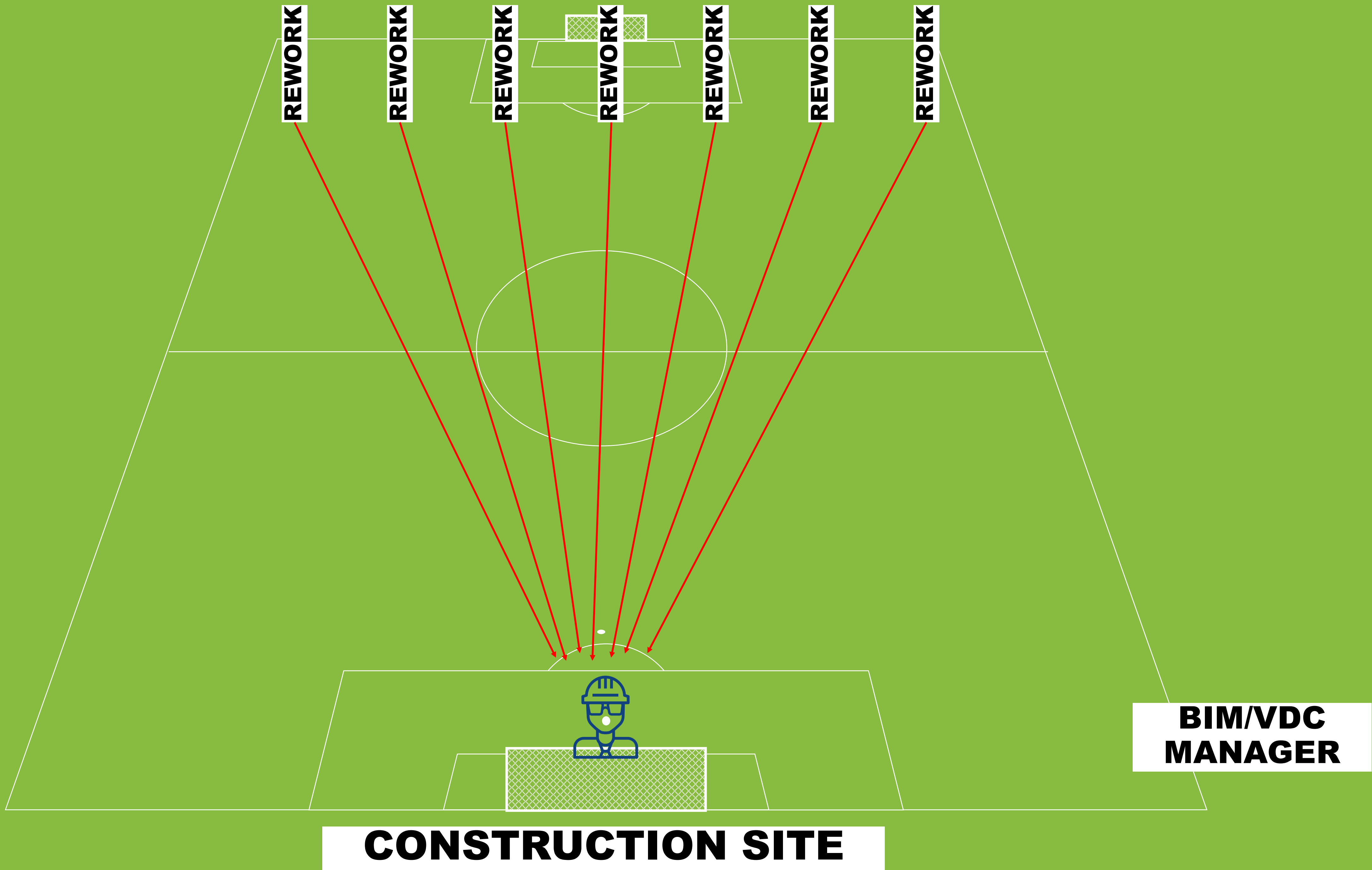
F****IX
IT

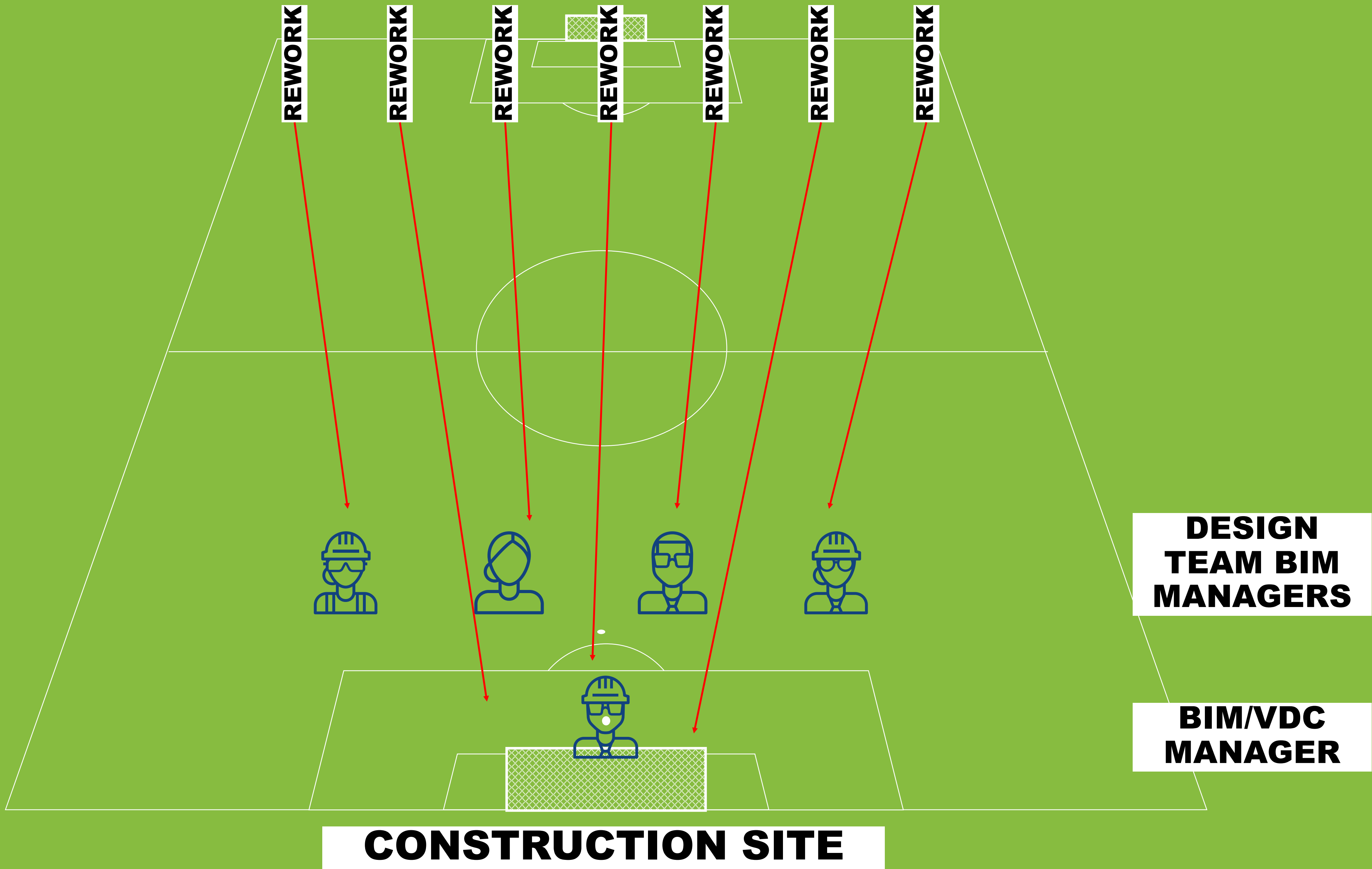
**DESIGN
TEAMS**

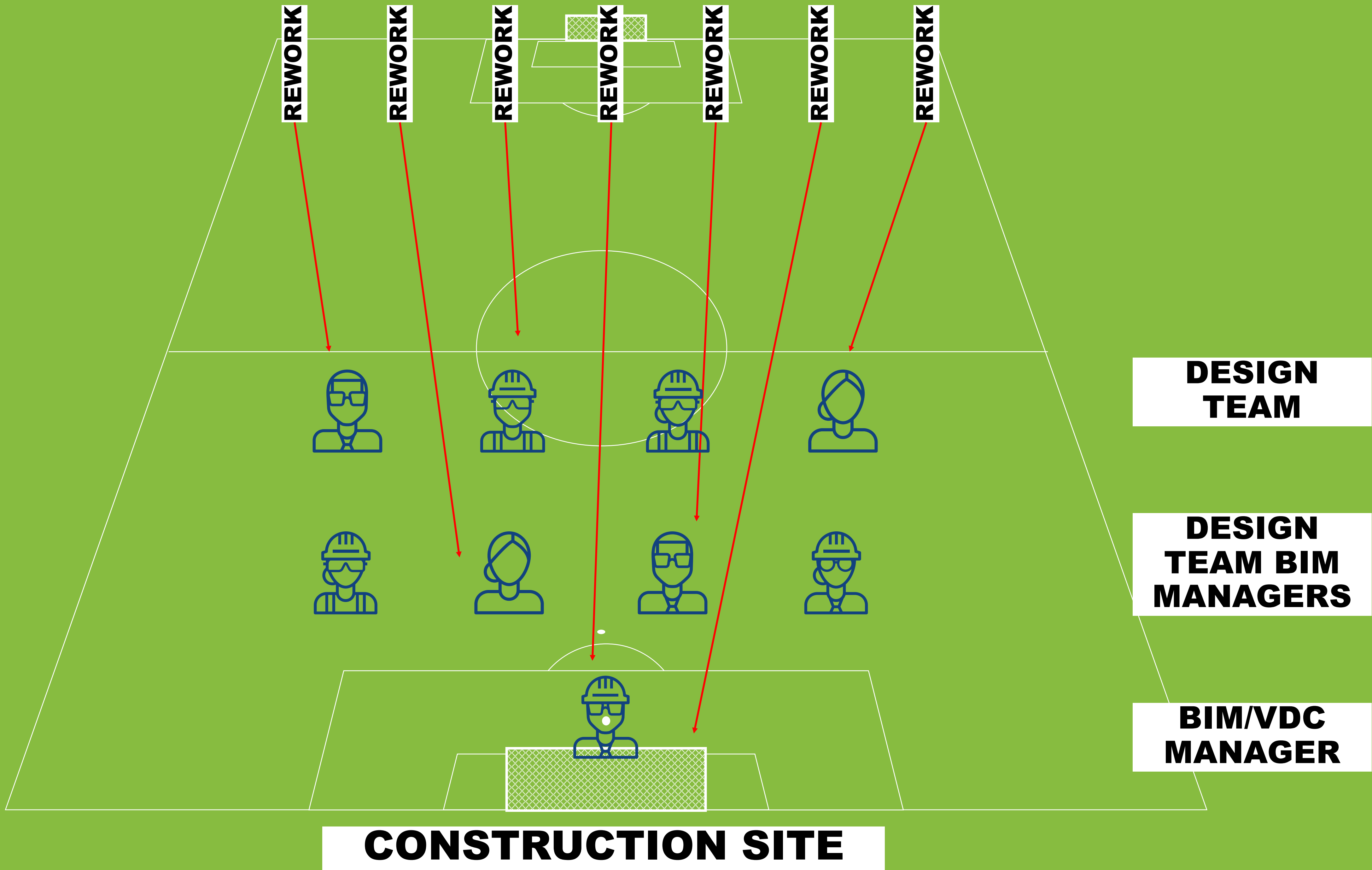


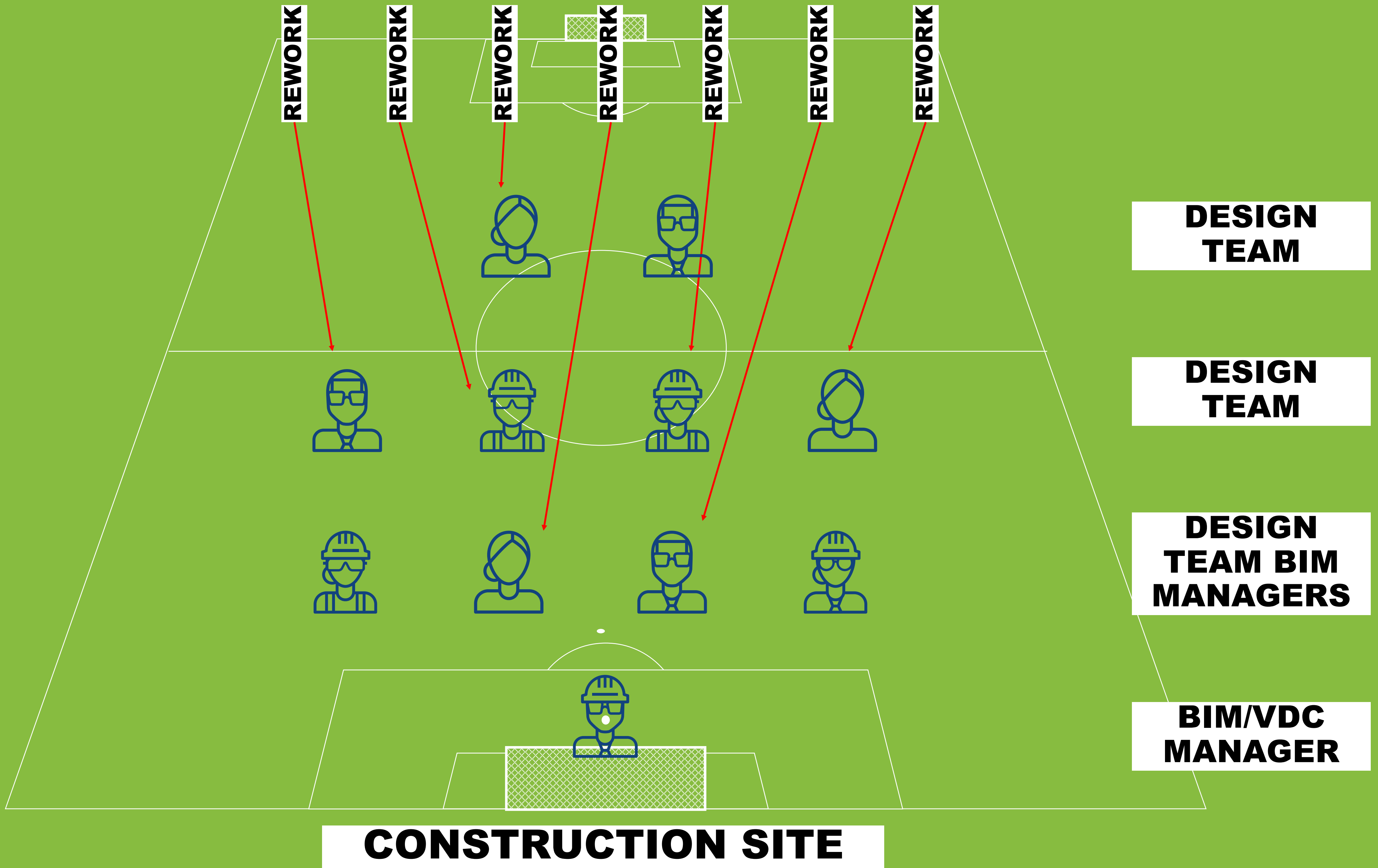
**CLASH
REPORTS**

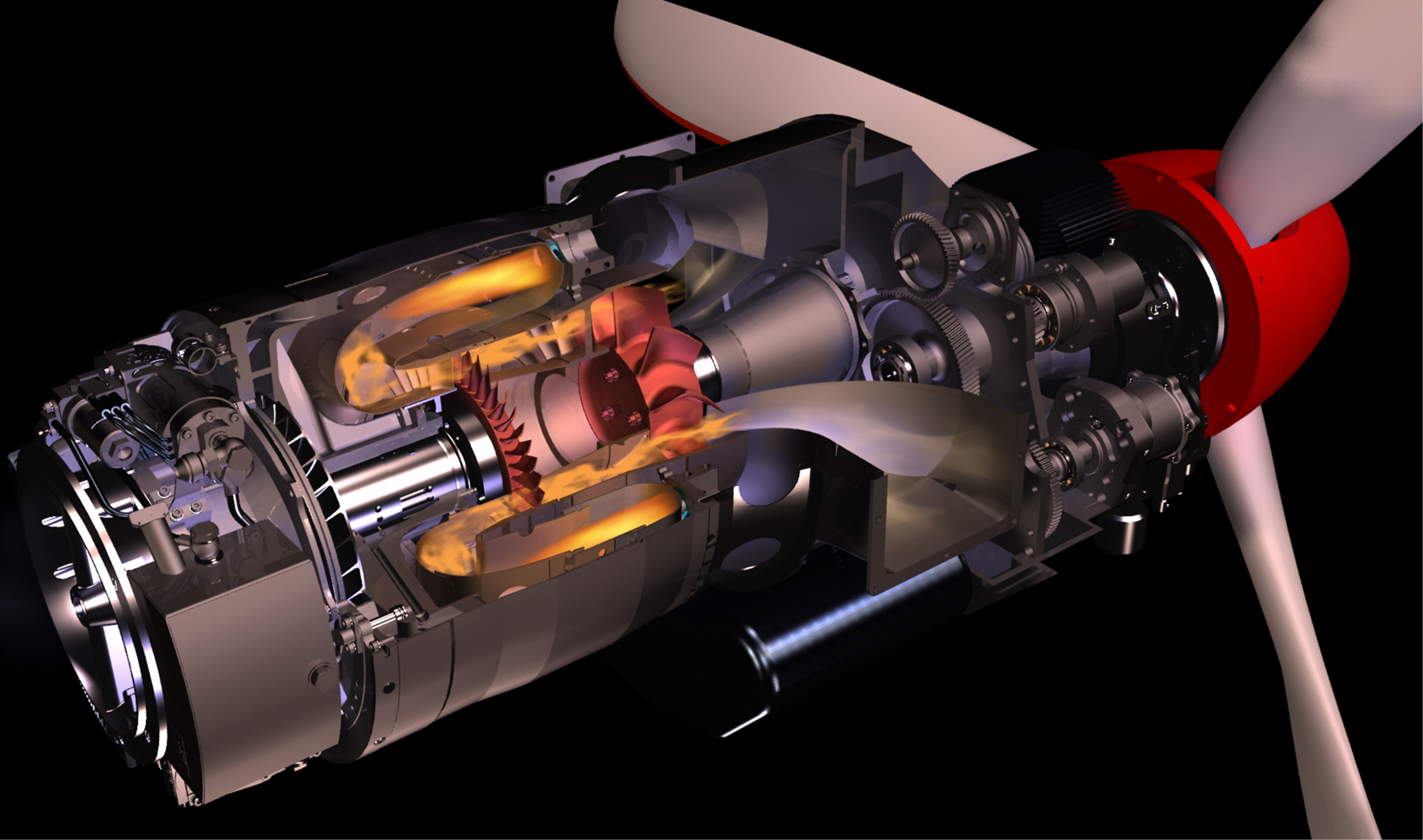


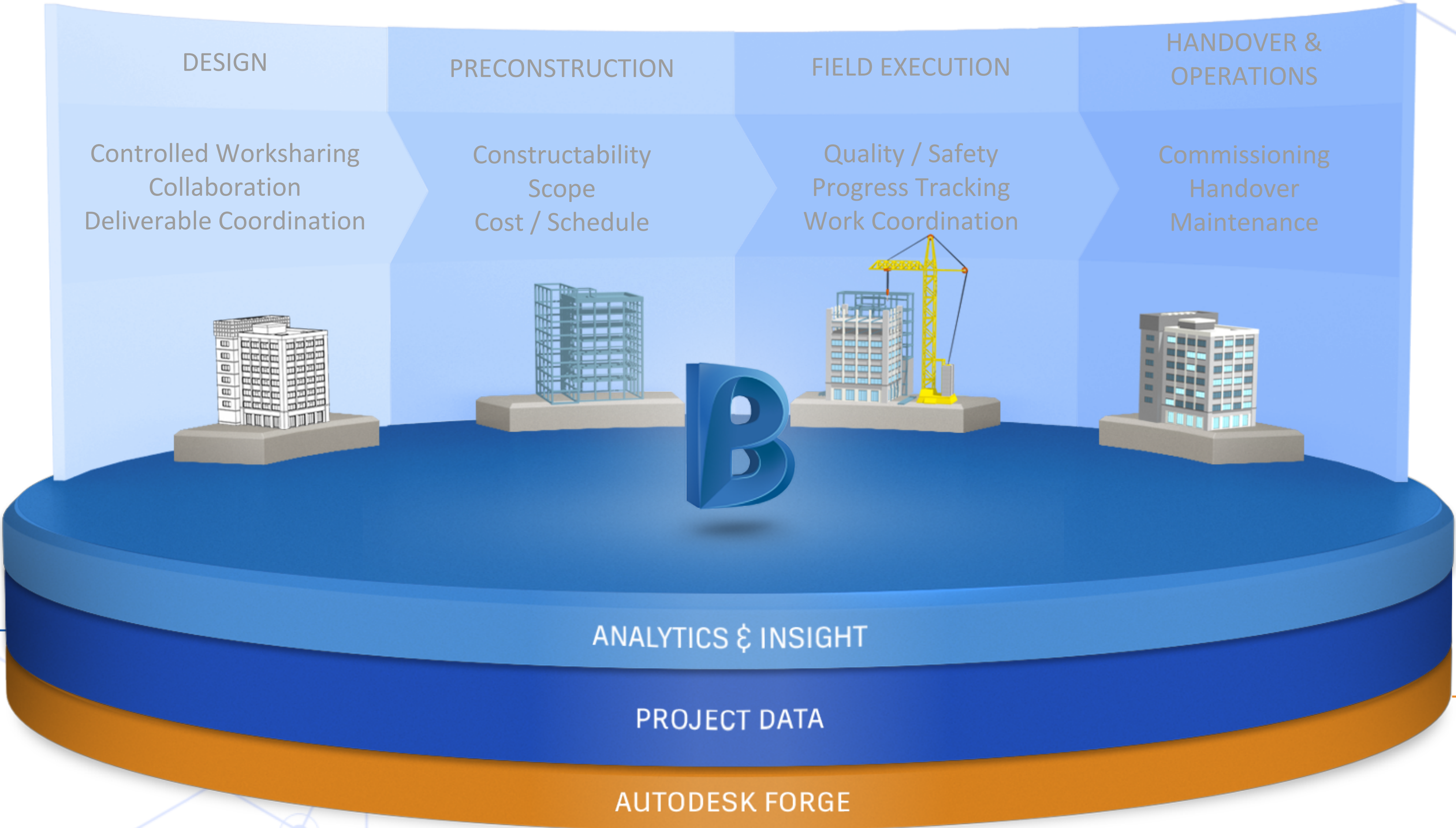
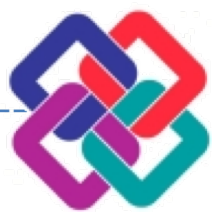
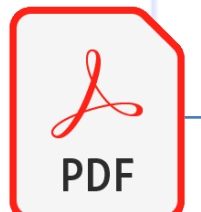




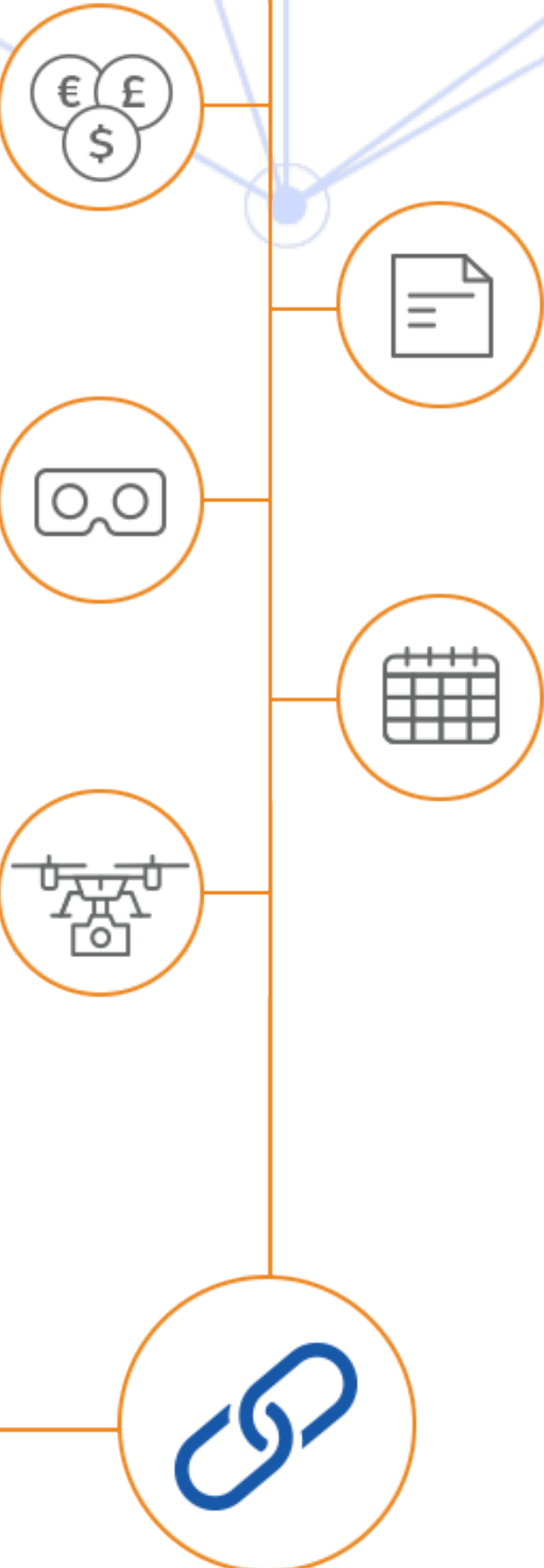


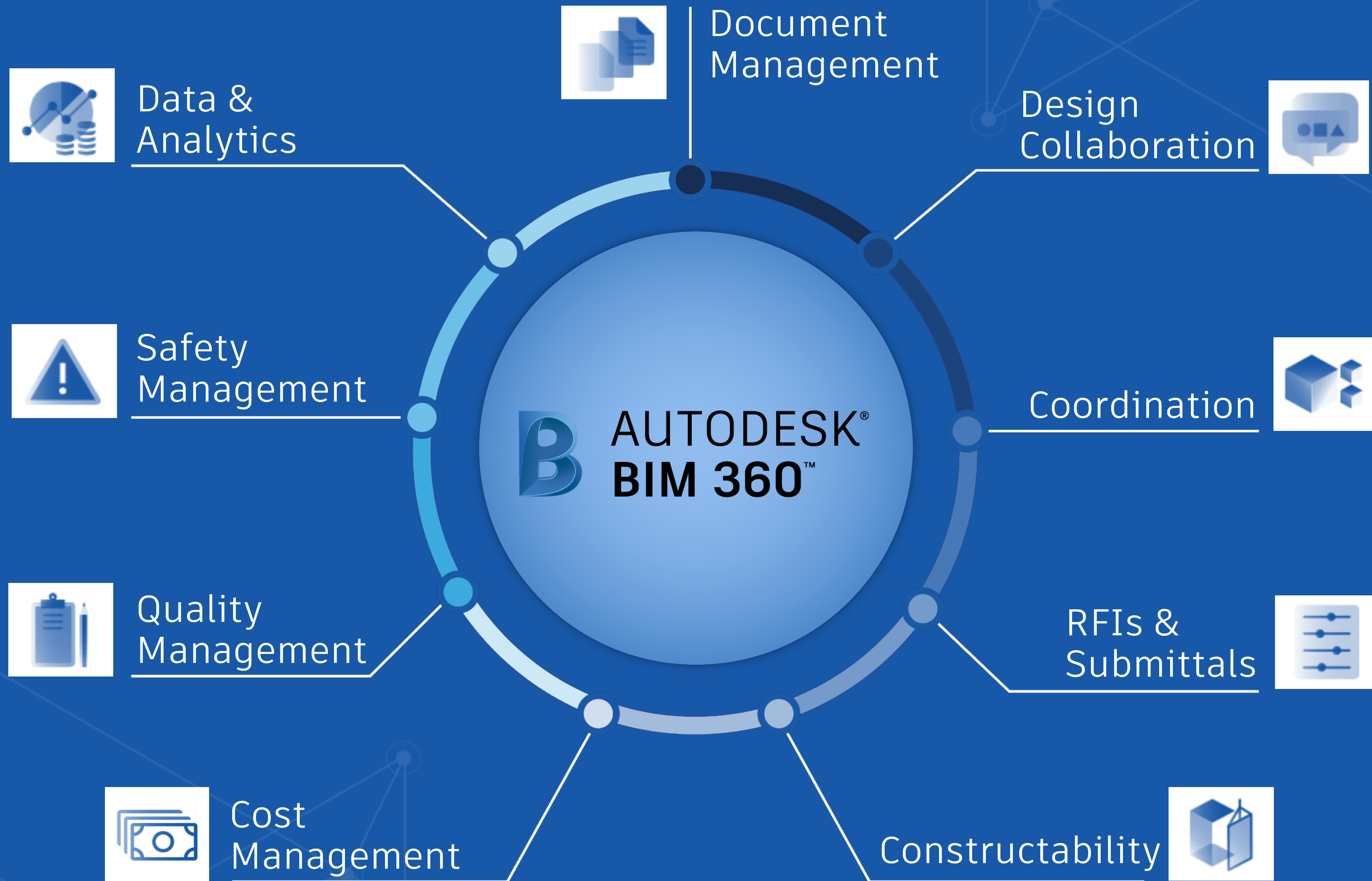




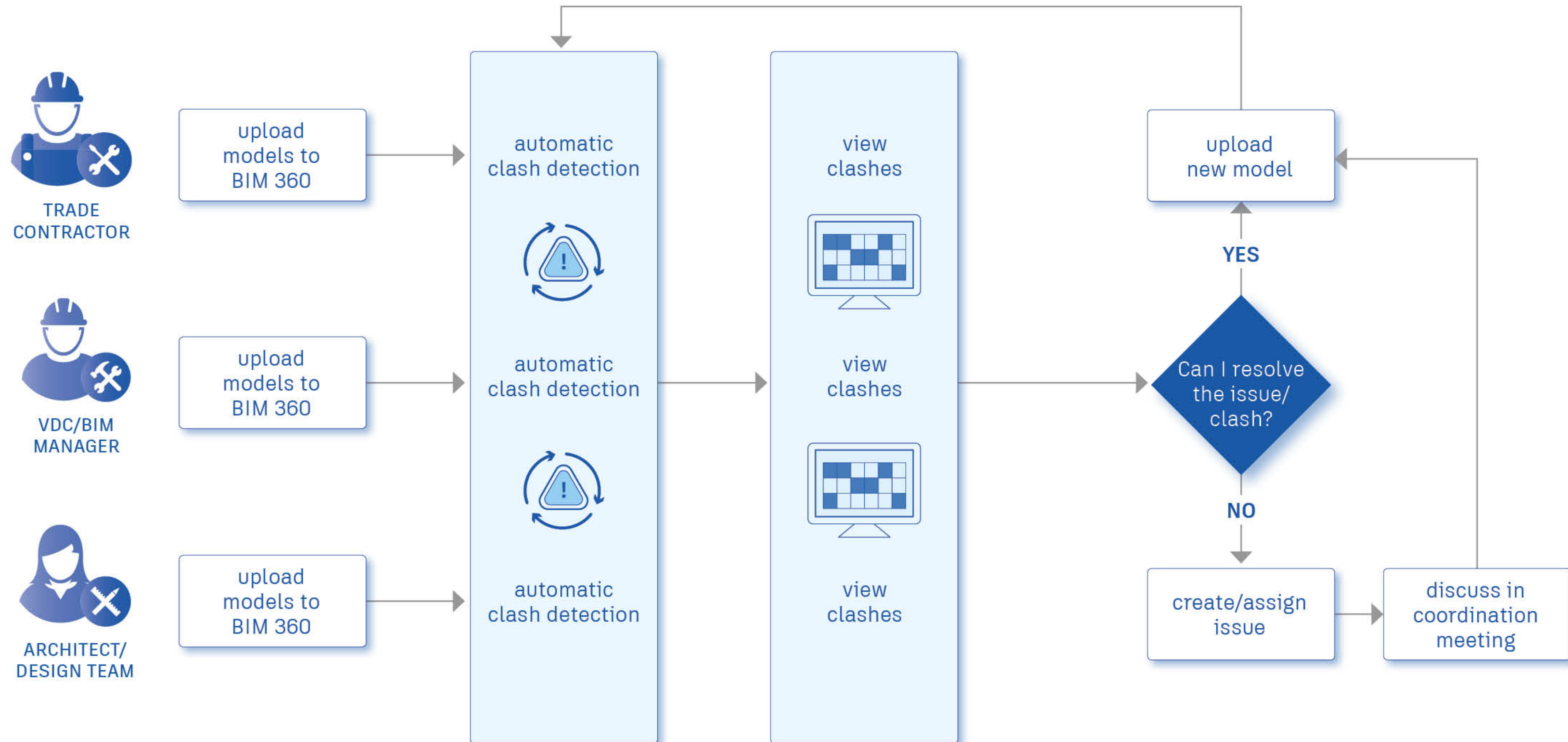


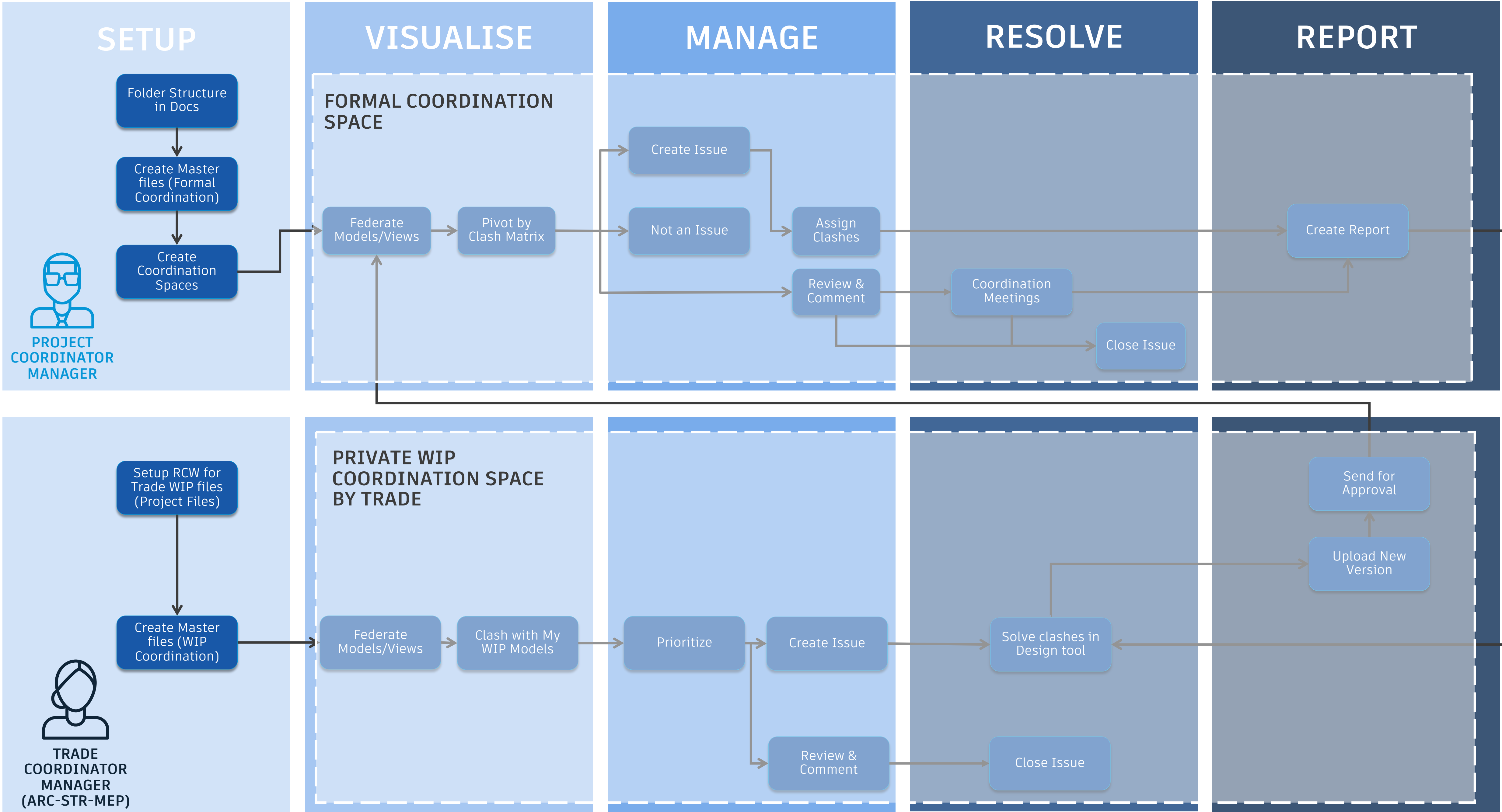
3RD PARTY
APPLICATIONS

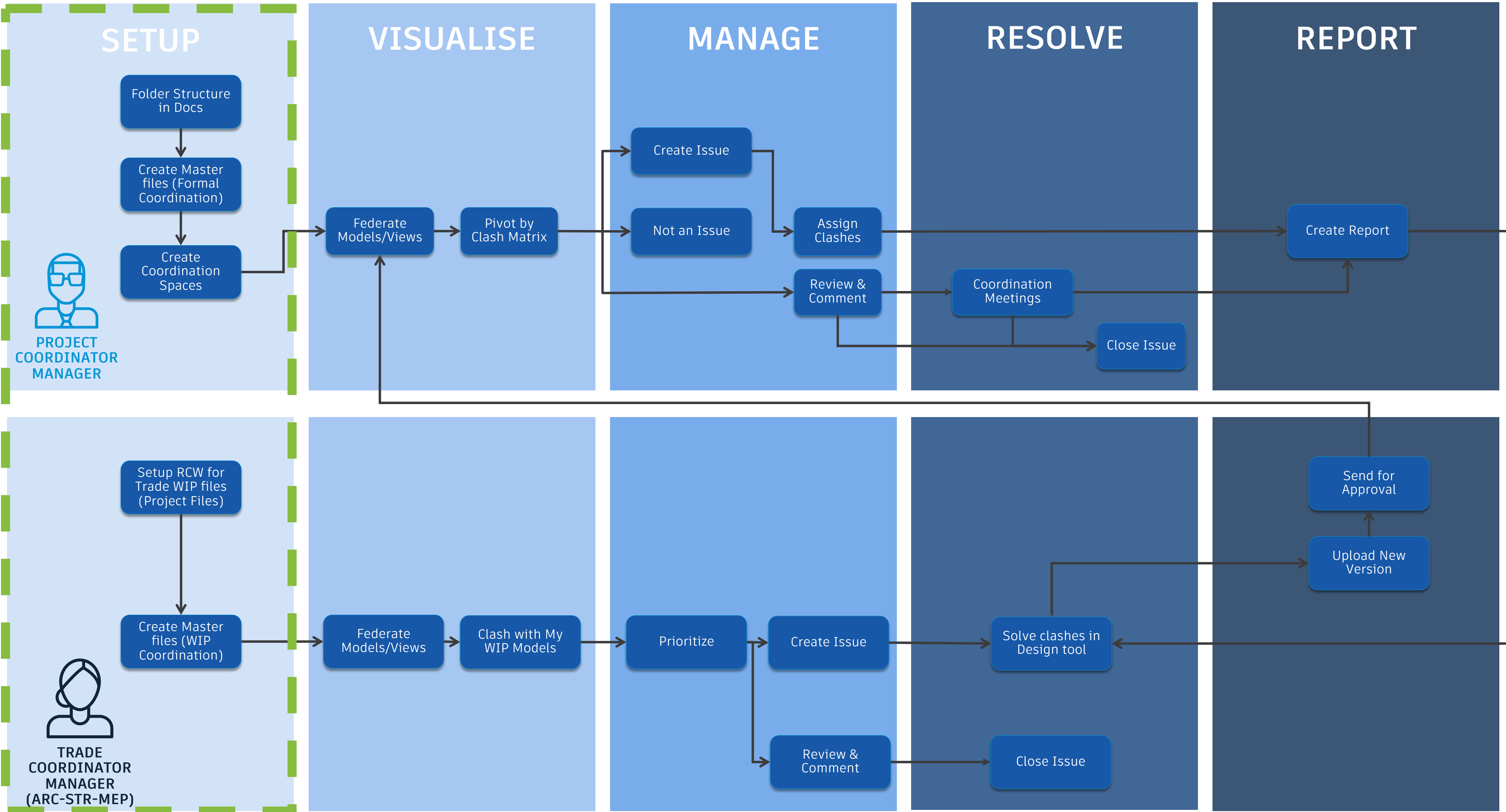




CLASH DETECTION WORKFLOW WITH BIM 360





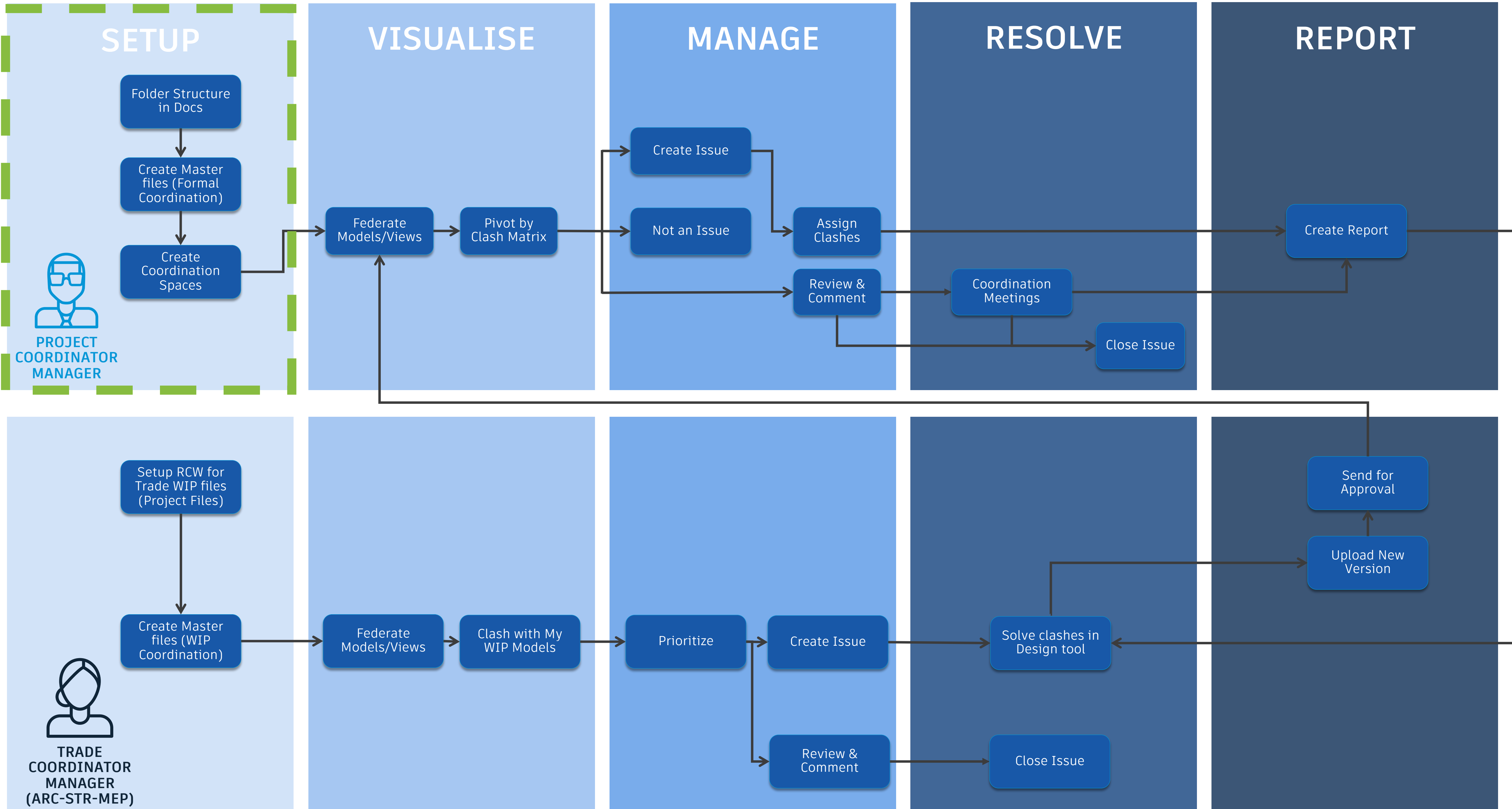


SETUP

PROJECT COORDINATOR MANAGER (VDC MANAGER)



PROJECT
COORDINATOR
MANAGER



Setup Docs spaces

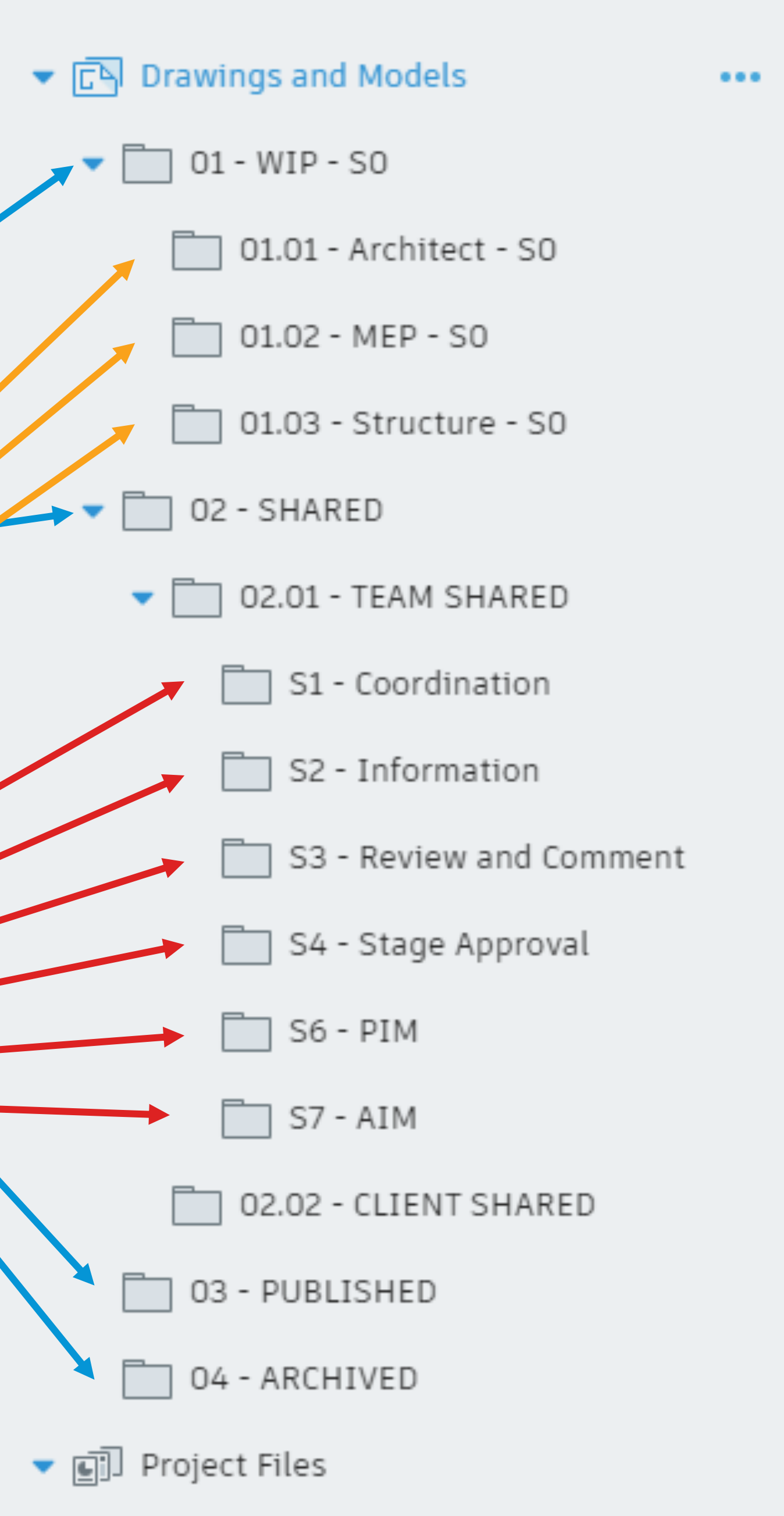
Rename Plans (splits models and sheets)

WIP (work in progress)
Shared (wider team access)
Published (signed off versions)
Archived (old files saved for record)

WIP areas per trade

Shared Areas per use/stage of approval

Doesn't split models, use for referencing



Setup Coordination Space

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  Search for documents   

IP - S0 02 - SHARED 03 - PUBLISHED

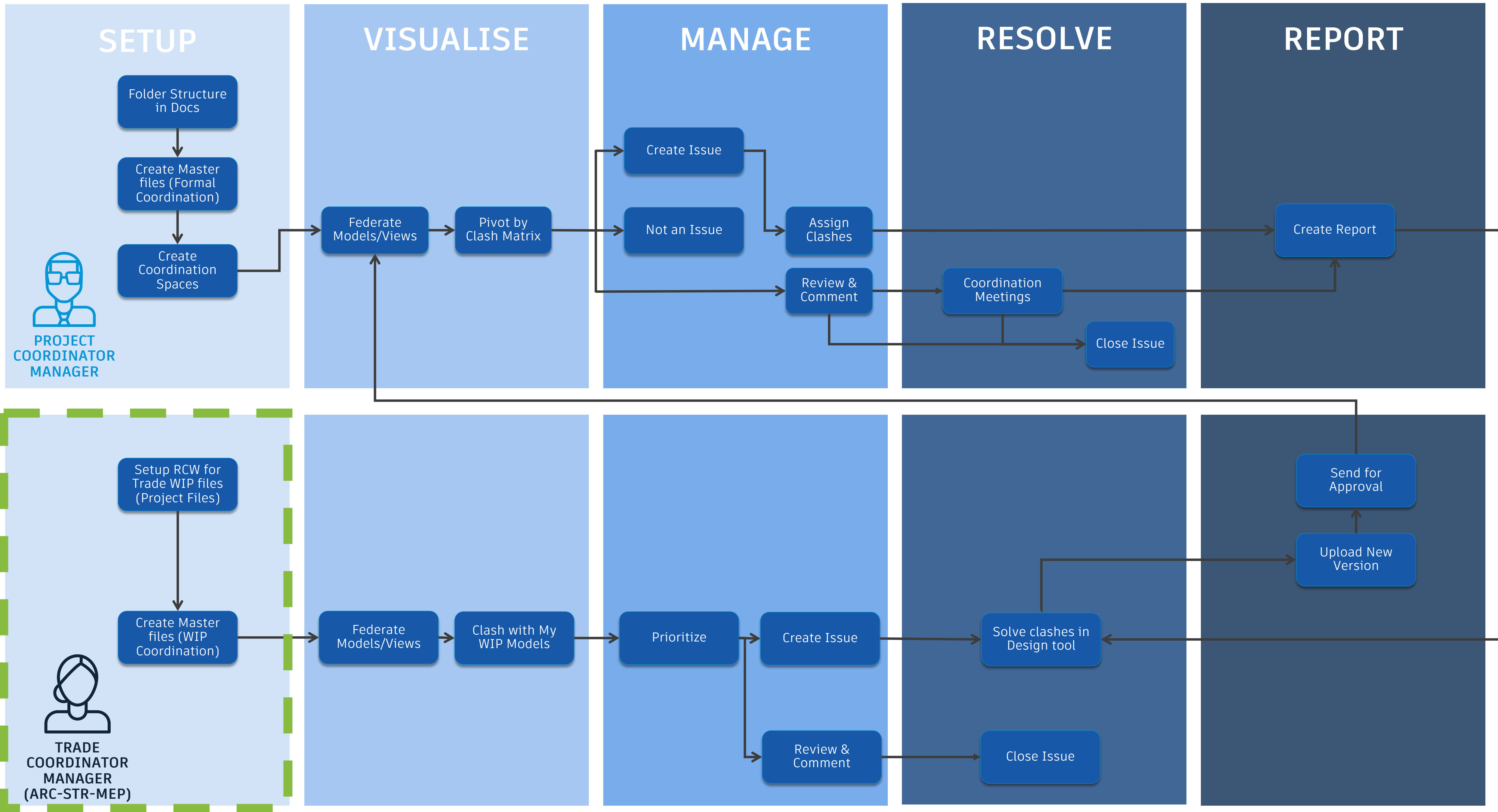


SETUP

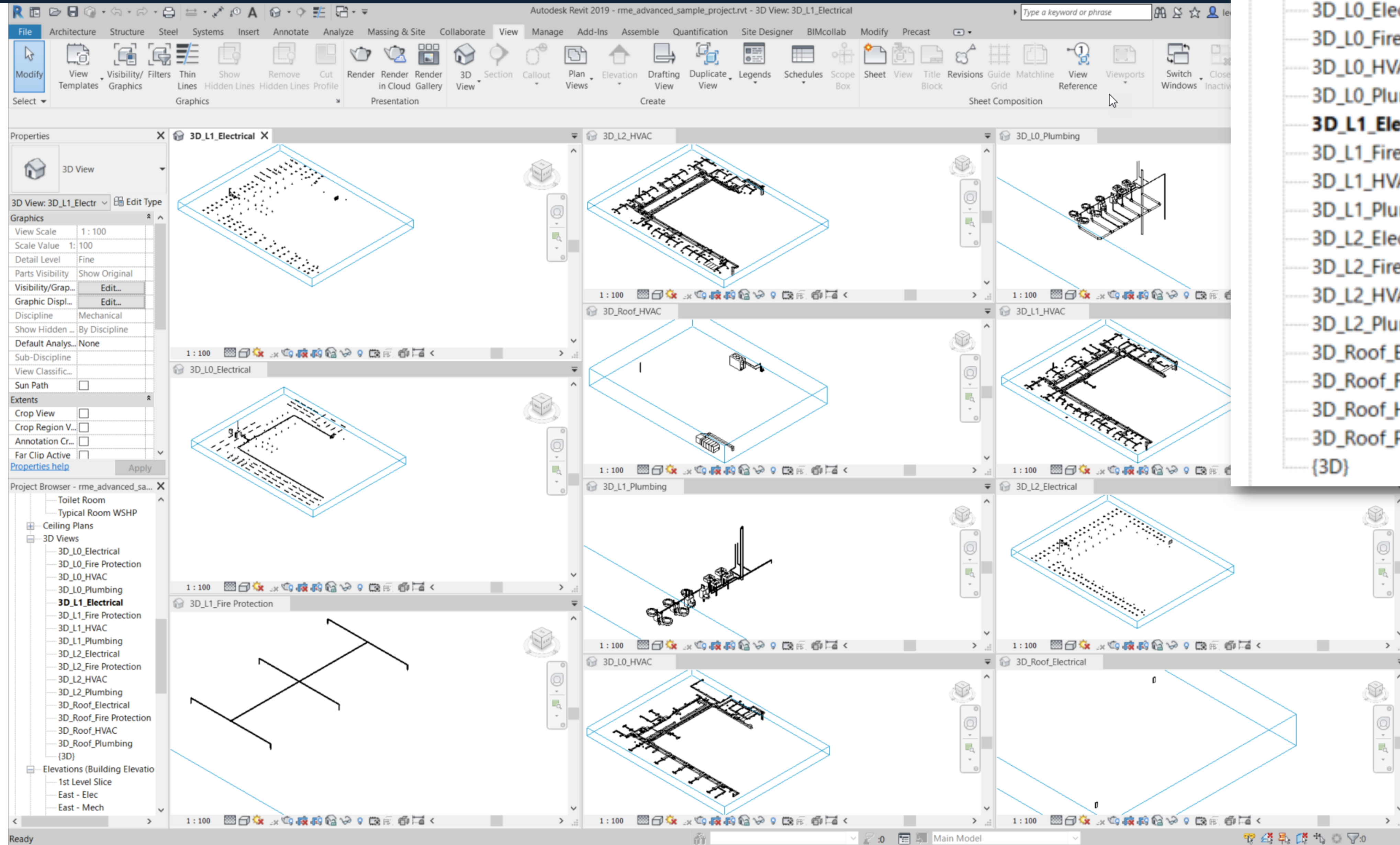
TRADE COORDINATOR MANAGER (ARC-MEP-STR)



TRADE COORDINATOR
MANAGER



Setup Views in Revit



- 3D Views
- 3D_L0_Electrical
- 3D_L0_Fire Protection
- 3D_L0_HVAC
- 3D_L0_Plumbing
- 3D_L1_Electrical**
- 3D_L1_Fire Protection
- 3D_L1_HVAC
- 3D_L1_Plumbing
- 3D_L2_Electrical
- 3D_L2_Fire Protection
- 3D_L2_HVAC
- 3D_L2_Plumbing
- 3D_Roof_Electrical
- 3D_Roof_Fire Protection
- 3D_Roof_HVAC
- 3D_Roof_Plumbing
- (3D)



Setup Naming Conventions

Search by

Level

- L1, L2, L3

System

- HVAC, Walls

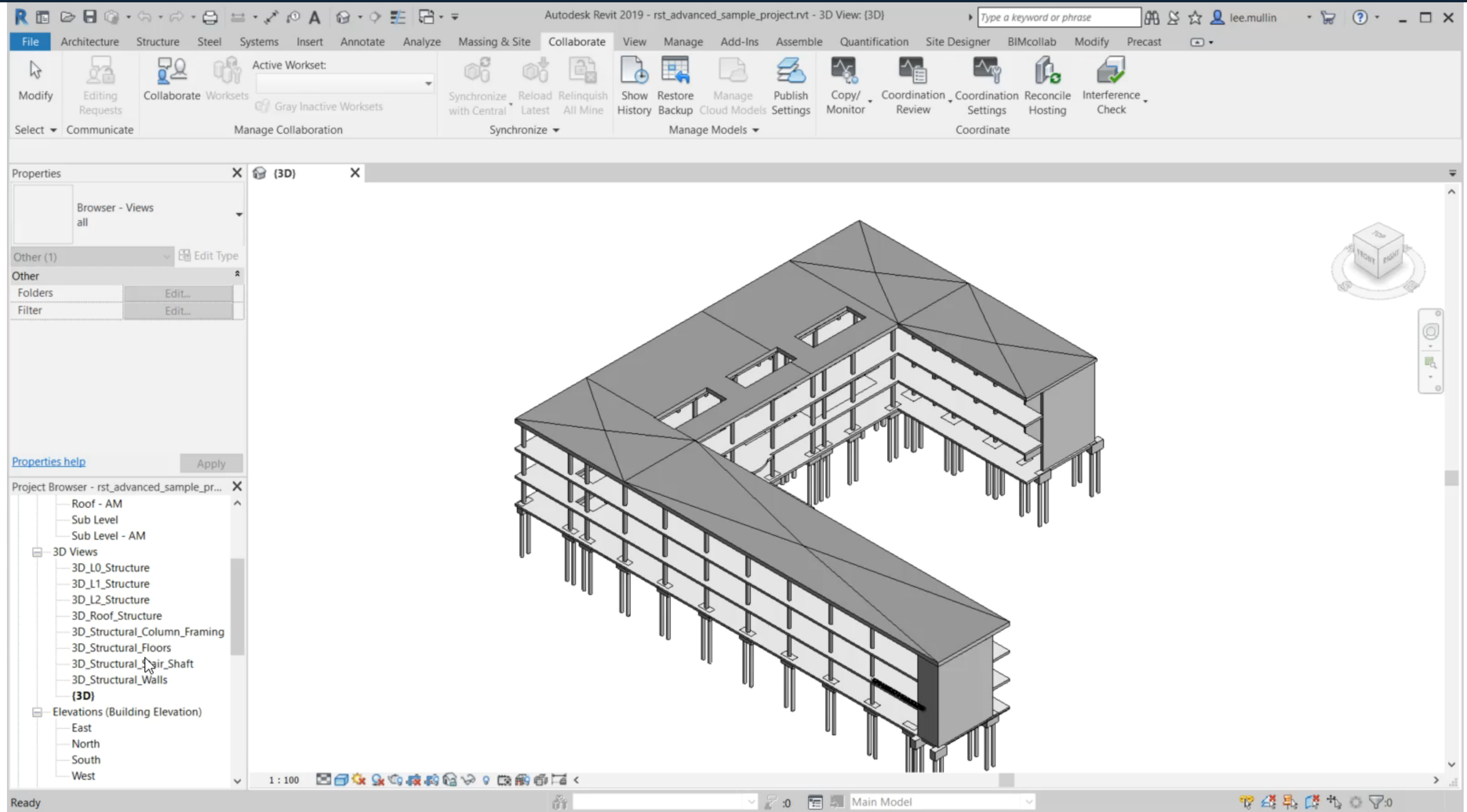
Classifications

- FI_60_55

Coding

- MR-SG-L1

Control which views are shared



Copy Shared files to WIP – Formal Approval

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- 01 - WIP - SO
- 02 - SHARED
- 03 - PUBLISHED
- 04 - ARCHIVED

Project Files

- 01 - WIP - SO
- 02 - SHARED
- 03 - PUBLISHED
- 04 - ARCHIVED

01.01 - Architect - SO

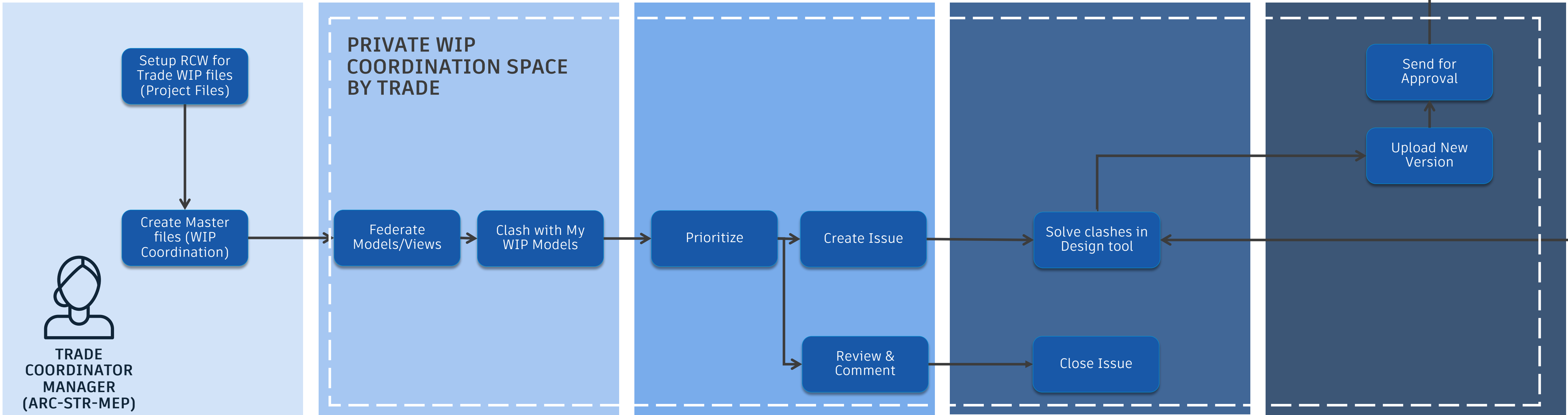
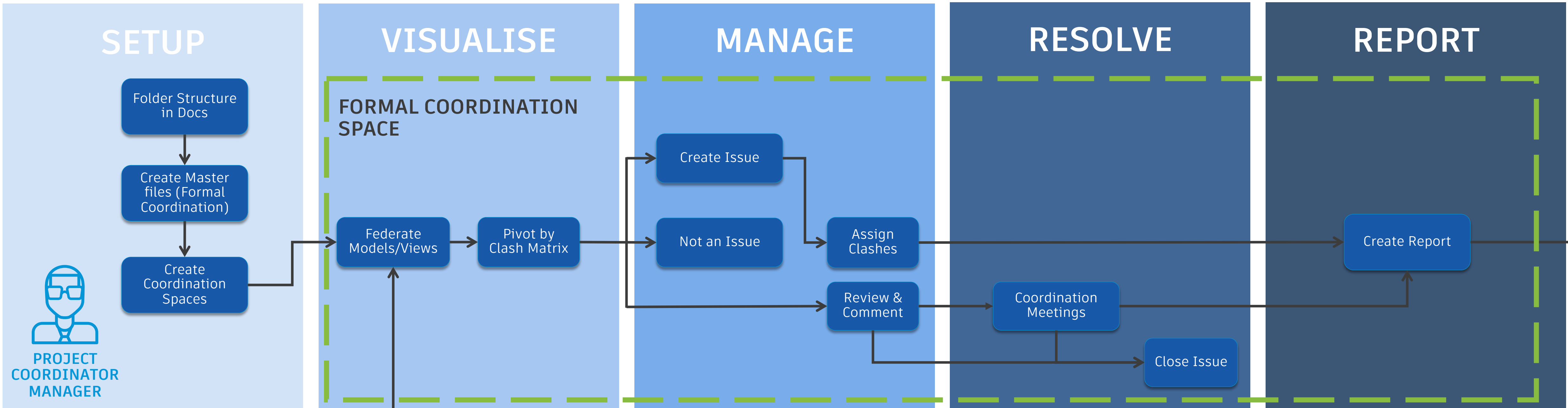
01.02 - MEP - SO

01.03 - Structure - SO



Formal Coordination





VISUALISE

PROJECT COORDINATOR MANAGER
(VDC MANAGER)



PROJECT
COORDINATOR
MANAGER

Pivot by Trade and View Groups of Clashes



Model
Coordination

AUTODESK BIM 360 | AU VEGAS 2019 > Winning the Model Coordination Champions League



Document Management

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View by

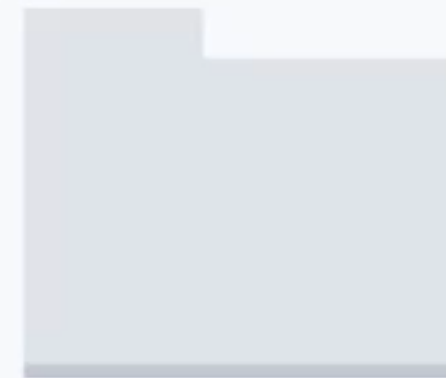
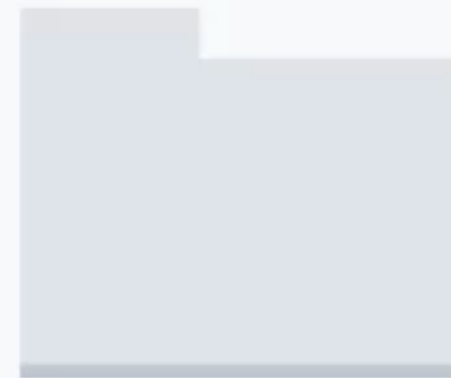
Folders

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Showing 4 items

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S1 - Coordination

S2 - Information

S3 - Review and Comment

S4 - Stage Approval

Drawings and Models

01 - WIP - COORDINATION

02 - SHARED - COORDINATION

02.01 - TEAM SHARED

S1 - Coordination

S2 - Information

S3 - Review and Comment

S4 - Stage Approval

03 - PUBLISHED

04 - ARCHIVED

Project Files

01 - WIP - SO

02 - SHARED

03 - PUBLISHED

04 - ARCHIVED

05 - INFORMATION



MANAGE

PROJECT COORDINATOR MANAGER (VDC MANAGER)



PROJECT
COORDINATOR
MANAGER

ActiveAssignedClosed

FORMAL COORDINATION ▾
Last clash check Today at 13:04

Status	ID	Title	Assigned to	Company	Due date	Linked models		
Open	13	Return Air Level 1 B and 8 other objects.	Jose Ariza	MEP Company	21 Nov 2019	3D_L01_MEP_Master Coordination.rvt and 1 other model	0	0
Open	12	Floor [389027] and 8 other objects.	Jose Ariza	MEP Company	29 Nov 2019	3D_L00_STRUC_Master Coordination.rvt and 1 other model	1	1
Open	11	Concrete-Rectangular Beam [384937] and Round Duc...	Jose Ariza	MEP Company	28 Nov 2019	3D_L00_STRUC_Master Coordination.rvt and 1 other model	0	0
Open	10	Basic Wall [370955] and 7 other objects.	Jose Ariza	MEP Company	28 Nov 2019	3D_L00_STRUC_Master Coordination.rvt and 1 other model	1	0

ActiveAssignedClosed

FORMAL COORDINATION ▾
Last clash check Today at 13:04

Title	Reason	Closed by	Date
Ceilings - Can be fixed on site	Valid penetration	Jose Ariza	Today at 12:38
Elbow - Plain - PVC-C [878341] and Floor [322490]	Valid penetration	Antonio Soriano de Aza	6 Nov 2019 03:15
Basic Wall [370951] and 3 other objects.	Valid interface	Antonio Soriano de Aza	6 Nov 2019 03:03

Model Coordination

MODELS

CLASHES

Formal Coordination ▾

Last clash check 15 Mar 2019 14:47

Active

Closed

4 models (23 hidden) ▾

Search for models

3D_LO_Architecture_
rac_adv...object.rvt

3D_LO_HVAC_rme_
advance...object.rvt

3D_LO_Plumbing_
rme_adv...object.rvt

3D_LO_Structure_
rst_adv...object.rvt

3D_LO_Architecture_...d_sample_project.rvt
116 clash groups

3D_LO_HVAC_rme_adv..._sample_project.rvt
8 clash groups

3D_LO_Plumbing_rme..._sample_project.rvt
0 clash groups

3D_LO_Structure_rs...d_sample_project.rvt
78 clash groups

77

6

116

8



Assign Clashes & Metadata



Document Management

FOLDERS

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ISSUES

Export

Create Issue

Status	ID ^	Type	Sub-type	Title	Location	Assigned to	Company	Due date	Linked document	Priority			
Closed	1	Coordination	Clash	Apex haunch [650503] and 2 other objects.	-	Antonio Soriano de ...	Architecture Company	Oct 31, 2019	3D_L00_ST...n.rvt	P1	0	1	
Answered	2	Coordination	Clash	Elbow - Plain - PVC-C [859449] and Basic Wall [38...	Level 1	Jose Ariza	MEP Company	Nov 29, 2019	3D_L01_M...n.rvt	P3	1	1	
Open	3	Coordination	Clash	Basic Wall [392979] and Round Duct [792140]	Level 1	Dominic Gomez	Coordination Company	Dec 6, 2019	3D_L01_AR...n.rvt	P1	1	0	
Open	4	Coordination	Clash	Concrete-Rectangular Beam [401686] and 15 othe...	Level 1	Jose Ariza	MEP Company	Nov 29, 2019	3D_L01_ST...n.rvt	P1	1	0	
Answered	5	Coordination	Clash	Concrete-Rectangular Beam [479394] and 2 other...	-	Jose Ariza	MEP Company	Dec 6, 2019	3D_L01_ST...n.rvt	P1	1	1	
Open	6	Coordination	Clash	Rectangular Duct [795181] and 6 other objects.	Level 1	Jose Ariza	MEP Company	Nov 22, 2019	3D_L01_M...n.rvt	P3	1	0	
Open	7	Coordination	Clash	Round Duct [794342] and Concrete-Rectangular B...	Level 1	Antonio Soriano de ...	Architecture Company	Nov 22, 2019	3D_L01_M...n.rvt	P1	1	0	
Closed	8	Coordination	Clash	Round Duct [794605] and Concrete-Rectangular B...	-	Jose Ariza	MEP Company	-	3D_L01_M...n.rvt	P2	0	2	
Open	9	Coordination	Clash	M_Round Tee [792571] and Concrete-Rectangular ...	Level 1	Jose Ariza	MEP Company	Nov 29, 2019	3D_L01_M...n.rvt	P2	1	1	
Open	10	Coordination	Clash	Basic Wall [370955] and 7 other objects.	Level 0	Jose Ariza	MEP Company	Nov 29, 2019	3D_L00_ST...n.rvt	P2	1	0	
Open	11	Coordination	Clash	Concrete-Rectangular Beam [384937] and Round ...	Level 0	Jose Ariza	MEP Company	Nov 29, 2019	3D_L00_ST...n.rvt	P3	0	0	
Open	12	Coordination	Clash	Floor [389027] and 8 other objects.	Level 0	Jose Ariza	MEP Company	Nov 29, 2019	3D_L00_ST...n.rvt	P1	1	1	
Open	13	Coordination	Clash	Return Air Level 1 B and 8 other objects.	Level 1	Dominic Gomez	Coordination Company	Nov 21, 2019	3D_L01_M...n.rvt	P1	0	1	

RESOLVE

PROJECT COORDINATOR MANAGER
(VDC MANAGER)



PROJECT
COORDINATOR
MANAGER

Coordination Meetings



Model Coordination

FORMAL COORDINATION ▾

Last clash check Today at 13:04

Title	Created by	Updated on	Privacy	Models
FORMAL COORDINATION - LEVEL 1	 Jose Ariza Today at 11:55	Today at 15:21		4
FORMAL COORDINATION - LEVEL 4	 Antonio Soriano de Aza 6 Nov 2019 03:33	6 Nov 2019 03:33		3
FORMAL COORDINATION - LEVEL 3	 Antonio Soriano de Aza 6 Nov 2019 03:31	6 Nov 2019 03:31		3
FORMAL COORDINATION - LEVEL 2	 Antonio Soriano de Aza 6 Nov 2019 03:31	6 Nov 2019 03:31		3
FORMAL COORDINATION - LEVEL 0	 Antonio Soriano de Aza 6 Nov 2019 03:30	6 Nov 2019 03:30		3
FORMAL COORDINATION - LEVEL 1	 Antonio Soriano de Aza 6 Nov 2019 03:22	6 Nov 2019 03:22		3

REPORT

PROJECT COORDINATOR MANAGER (VDC MANAGER)



PROJECT
COORDINATOR
MANAGER

Export Direct Reports

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AU VEGAS 2019 > Winning the Model Coordination Champions League ▾

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ISSUES

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Create Issue

ID ▾	Type	Sub-type	Title	Assigned to	Company	
12	Coordination	Clash	Floor [389027] and 8 other objects.	Jose Ariza	MEP Company	
11	Coordination	Clash	Concrete-Rectangular Beam [384937] and Round ...	Jose Ariza	MEP Company	
10	Coordination	Clash	Basic Wall [370955] and 7 other objects.	Jose Ariza	MEP Company	
9	Coordination	Clash	M_Round Tee [792571] and Concrete-Rectangular ...	Jose Ariza	MEP Company	
8	Coordination	Clash	Round Duct [794605] and Concrete-Rectangular B...	Jose Ariza	MEP Company	
7	Coordination	Clash	Round Duct [794342] and Concrete-Rectangular B...	Antonio Soriano de ...	Architecture Compar	
6	Coordination	Clash	Rectangular Duct [795181] and 6 other objects.	Jose Ariza	MEP Company	
5	Coordination	Clash	Concrete-Rectangular Beam [479394] and 2 other...	Jose Ariza	MEP Company	
4	Coordination	Clash	Concrete-Rectangular Beam [401686] and 15 othe...	Jose Ariza	MEP Company	
3	Coordination	Clash	Basic Wall [392979] and Round Duct [792140]	Dominic Gomez	Coordination Compa	
2	Coordination	Clash	Elbow - Plain - PVC-C [859449] and Basic Wall [38...	Jose Ariza	MEP Company	
1	Coordination	Clash	Apex haunch [650503] and 2 other objects.	Antonio Soriano de ...	Architecture Compar	

Showing 1 - 12 of 12

<< < 1 of 1 > >>



WINNING THE MODEL COORDINATION CHAMPIONS LEAGUE Issue Report 2019-11-14

Report Generated	Nov 14, 2019 at 12:42 PM
by	Jose Ariza
Message	Issue Summary
Total items in this report	6
Sorted By	Identifier (descending)
Filtered on	Status (Open) Assignee (Jose Ariza)

WINNING THE MODEL COORDINATION CHAMPIONS LEAGUE

Open Issue Detailed MEP_Weekly Report

Report Generated	Nov 14, 2019 <i>at</i> 1:45 PM
by	<i>Jose Ariza</i>
Message	<i>Open Issue Detailed MEP_Weekly Report</i>
Total items in this report	6
Sorted By	Status (ascending), Due Date (descending)
Filtered on	Status (Open) Subtype (Clash, Coordination) Created (from 2019-11-04 to 2019-11-17)

Project Coordinator Manager Dashboards



Project Home

Project Home



AU VEGAS 2019

Winning the Model Coordination Champions League

Project Dates: Wed Jul 10 2019 - Fri Nov 22 2019



Customize

Coordination Issues Status

Open Answered



Project Address



Pasaje Platero Leiva 8
CORDOBA, AN 14010

Weather

11°

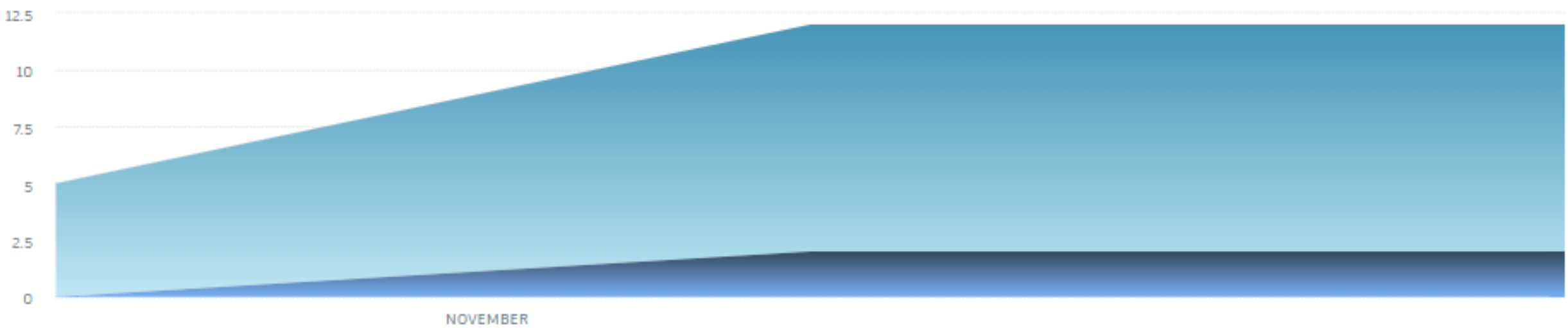
Mostly Cloudy

Wed 16° Thu 15° Fri 15° Sat 10°

Powered by Dark Sky

Coordination Issues: Active vs Closed

Active Closed



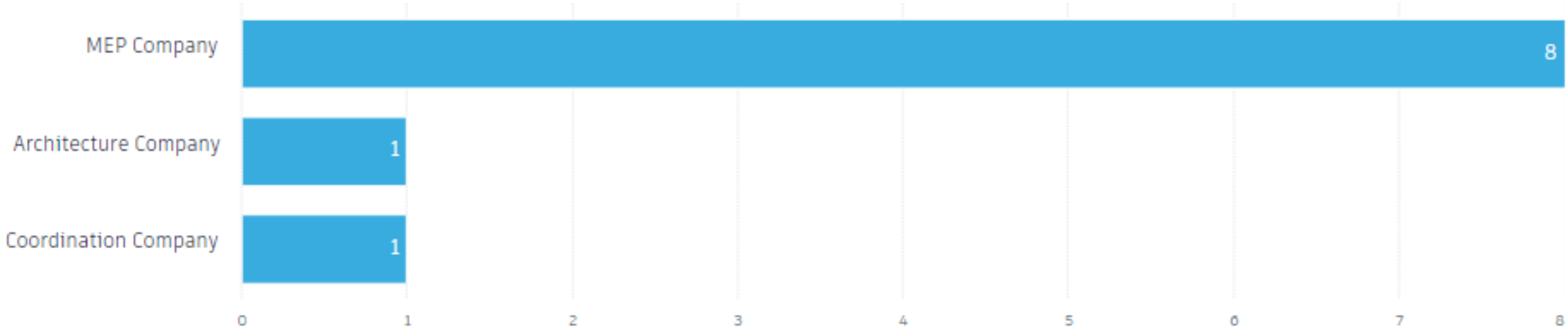
Project Issues

ID	Title	Type	Due Date
6	Rectangular Duct [795181] and 6 other objects.	Coordination	Nov 22, 2019
7	Round Duct [794342] and Concrete-Rectangular Beam [479448]	Coordination	Nov 22, 2019
11	Concrete-Rectangular Beam [384937] and Round Duct [784388]	Coordination	Nov 29, 2019
4	Concrete-Rectangular Beam [401686] and 15 other objects.	Coordination	Nov 29, 2019
10	Basic Wall [370955] and 7 other objects.	Coordination	Nov 29, 2019
9	M_Round Tee [792571] and Concrete-Rectangular Beam [412190]	Coordination	Nov 29, 2019

6 of 10 Open Issues | [View all \(10\)](#)

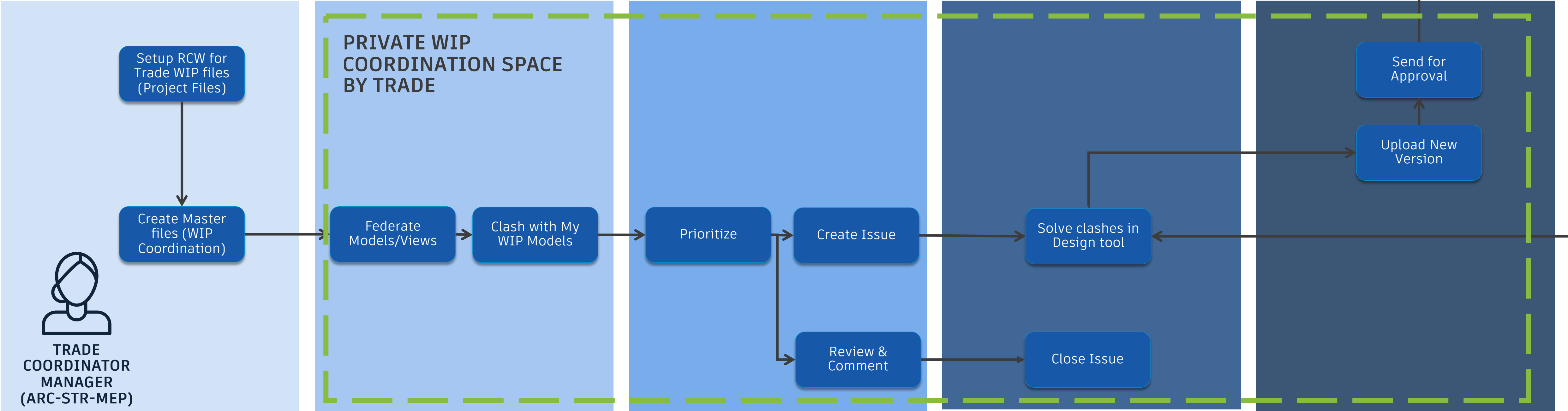
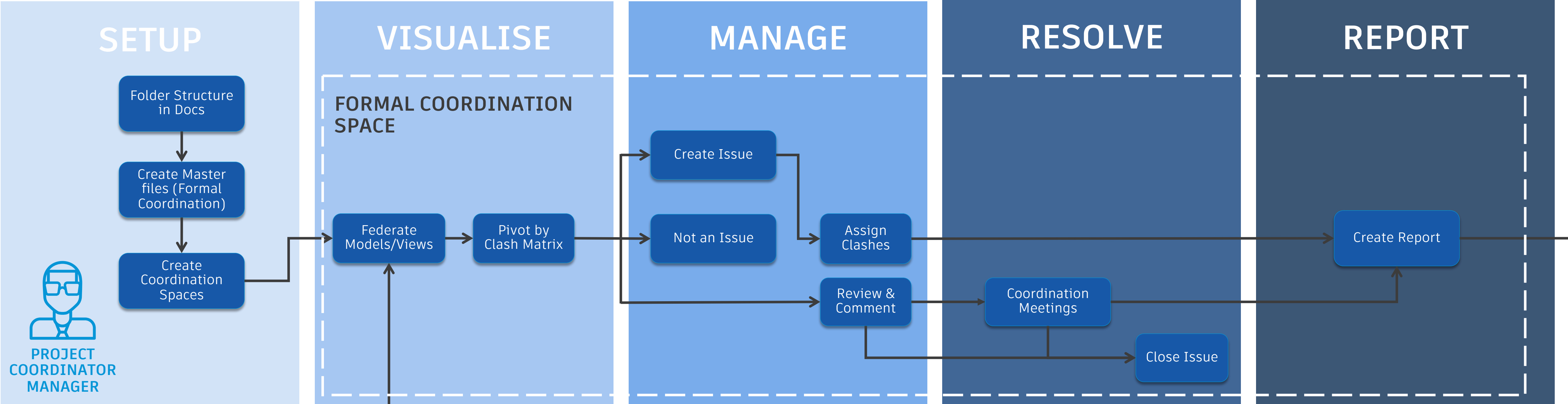
Coordination Issues by Company

3 of 3



WIP Coordination





View Group of My Clashes

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?

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TRANSMITTALS
ISSUES

View by

Folders

Sets

- 📁 01.01 - Architect - SO ...
- ▶ 📁 02.01 - TEAM SHARED
- 📁 02.02 - CLIENT SHARED
- 📁 01.01 - Architect - SO
- ▶ 📁 02.01 TEAM SHARED
- ▶ 📁 02.02 CLIENT SHARED

Upload

 🔗 ⚙️ 🔍 📄 V4 3D_L0_Architecture_rac_advanced_s...	 🔗 ⚙️ 🔍 📄 V4 3D_L1_Architecture_rac_advanced_s...	 🔗 ⚙️ 🔍 📄 V4 3D_L2_Architecture_rac_advanced_s...	 🔗 ⚙️ 🔍 📄 V4 3D_Roof_Architecture_rac_advanced...
 🔗 ⚙️ 🔍 📄 V5 A1 - Floor Plan	 🔗 ⚙️ 🔍 📄 V5 A2 - Sections	 🔗 ⚙️ 🔍 📄 V5 {3D}_rac_advanced_sample_project...	 🔗 ⚙️ 🔍 📄 V1 {3D}_rme_advanced_sample_project...



Prioritise

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Model Coordination

MODELS

CLASHES

Search for models

MEP WIP ▾

Last clash check Today at 21:36

All models

My models

Clashes with my models

Filters

Contributor

Select... ▾

Company

Select... ▾

Date

Clear all

☐ Models	Contributor	Updated date ▾	
☐ 3D_L0_Electrical_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	137
☐ 3D_L0_Fire Protection_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	
☐ 3D_L0_HVAC_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	453
☐ 3D_L0_Plumbing_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	65
☐ 3D_L1_Electrical_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	147
☐ 3D_L1_Fire Protection_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	23
☐ 3D_L1_HVAC_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	675
☐ 3D_L1_Plumbing_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	42
☐ 3D_L2_Electrical_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	170
☐ 3D_L2_Fire Protection_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	
☐ 3D_L2_HVAC_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	628
☐ 3D_L2_Plumbing_rme_advanced_sample_project.rvt	 John-paul Jones Jones MEP	Today at 21:33	

Showing 19 of 19 models.



BIM 360 Model Coordination

Capture multi-model issues during coordination review

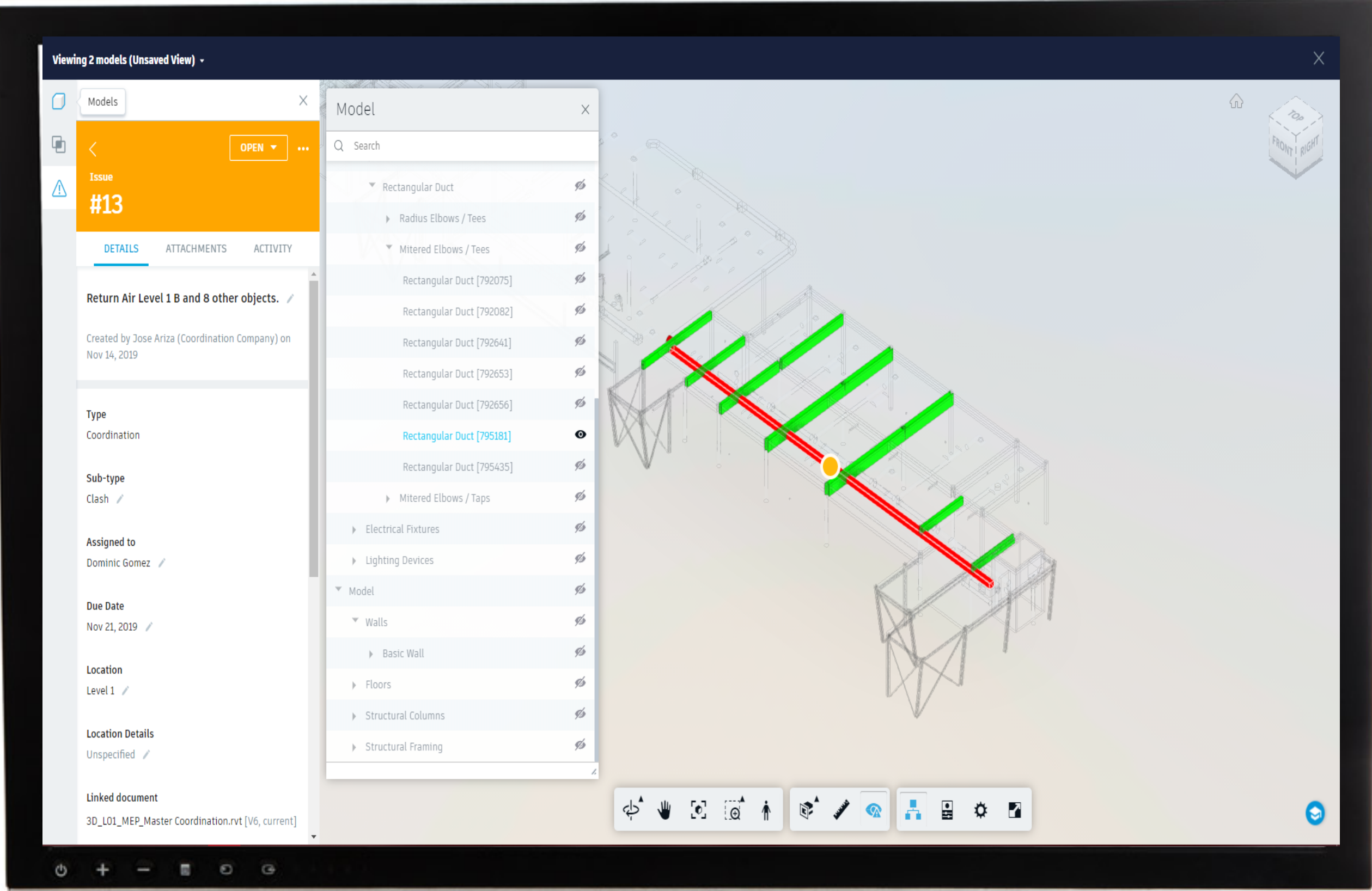
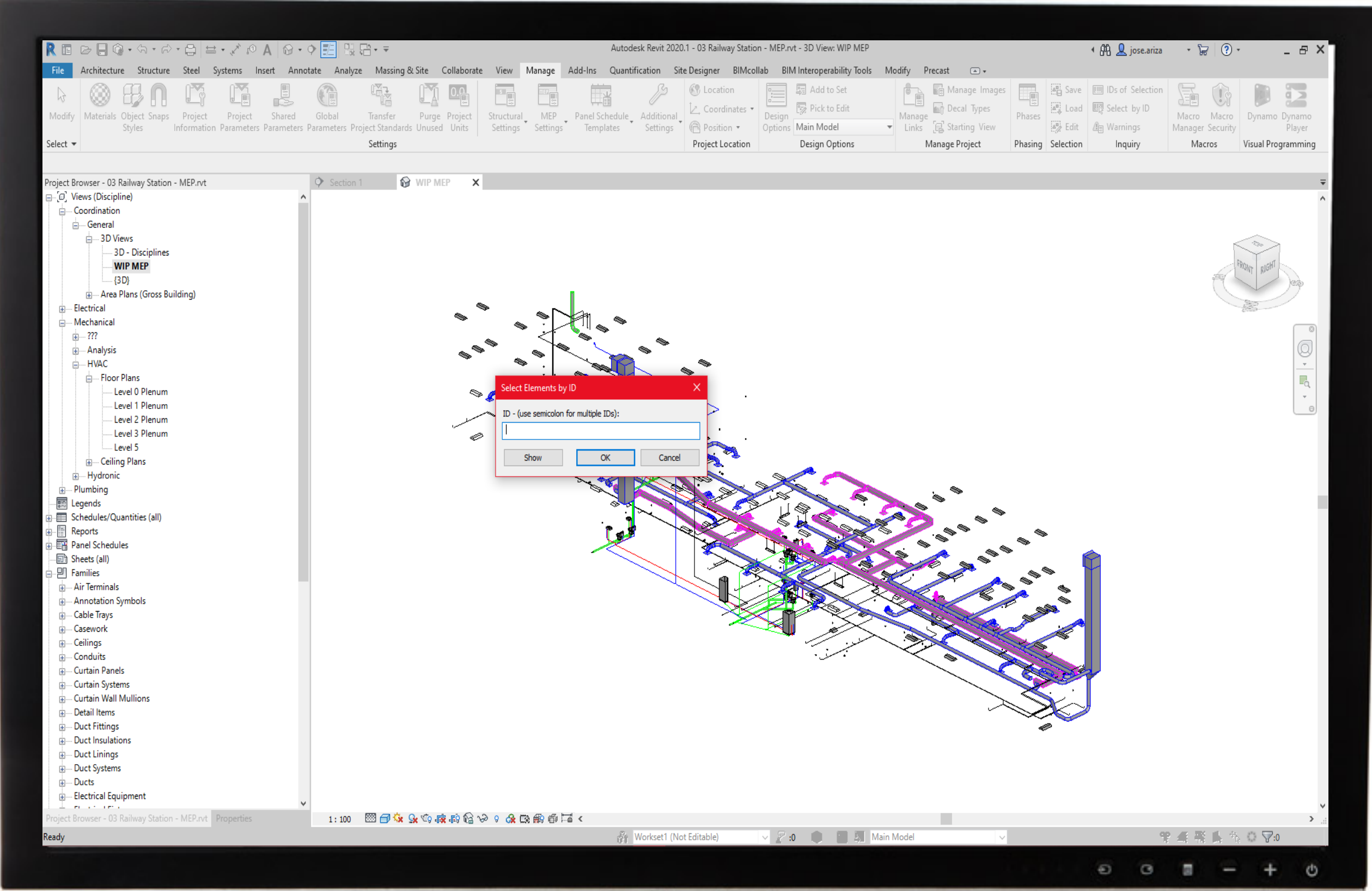
Fix it



Document Management



Model Coordination



Answer the Issue and Publish a New Version
Update/Publish the Master Files



Compare New Version and Close Issue



Model Coordination



Document Management

Junk

Delete

Archive

Reply

Reply All

Forward

More

To Manager

Create New

Move

Actions

Assign Policy

Mark Unread

Categorize

Follow Up

Translate

Select

Read Aloud

Zoom

Send to OneNote

Report Message

Insights

Delete

Respond

Quick Steps

Move

Tags

Editing

Speech

Zoom

OneNote

Protection

AB

Autodesk BIM 360 <bim360dm.no-reply@autodesk.com>

Jose Ariza

19:19

Action Required: Winning the Model Coordination Champions League - Issue #17 was assigned to you

If there are problems with how this message is displayed, click here to view it in a web browser.

 Your action is required

Dominic Gomez **assigned you** an issue

[Issue #17 Round Duct \[794654\] and Concrete-Rectangular Beam \[479969\]](#)

What's changed

Assignee	Dominic Gomez → Jose Ariza
----------	----------------------------

Issue details

Status	ANSWERED
Type	Coordination
Assignee	Jose Ariza
Due date	Nov 22, 2019
Owner	Jose Ariza
Location	Unspecified
Linked Document	3D_L01_MEP_WIP_MEP WIP Master Coordination.rvt

[View issue](#)

Document Approval for Shared

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Autodesk Europe

Millennium College Campus

?

Document Management

FOLDERS

REVIEWS

TRANSMITTALS

ISSUES

View by

Folders

Sets

01.02 - MEP - SO

02.01 - TEAM SHARED

02.02 - CLIENT SHARED

01.02 - MEP - SO

02.01 TEAM SHARED

02.02 CLIENT SHARED

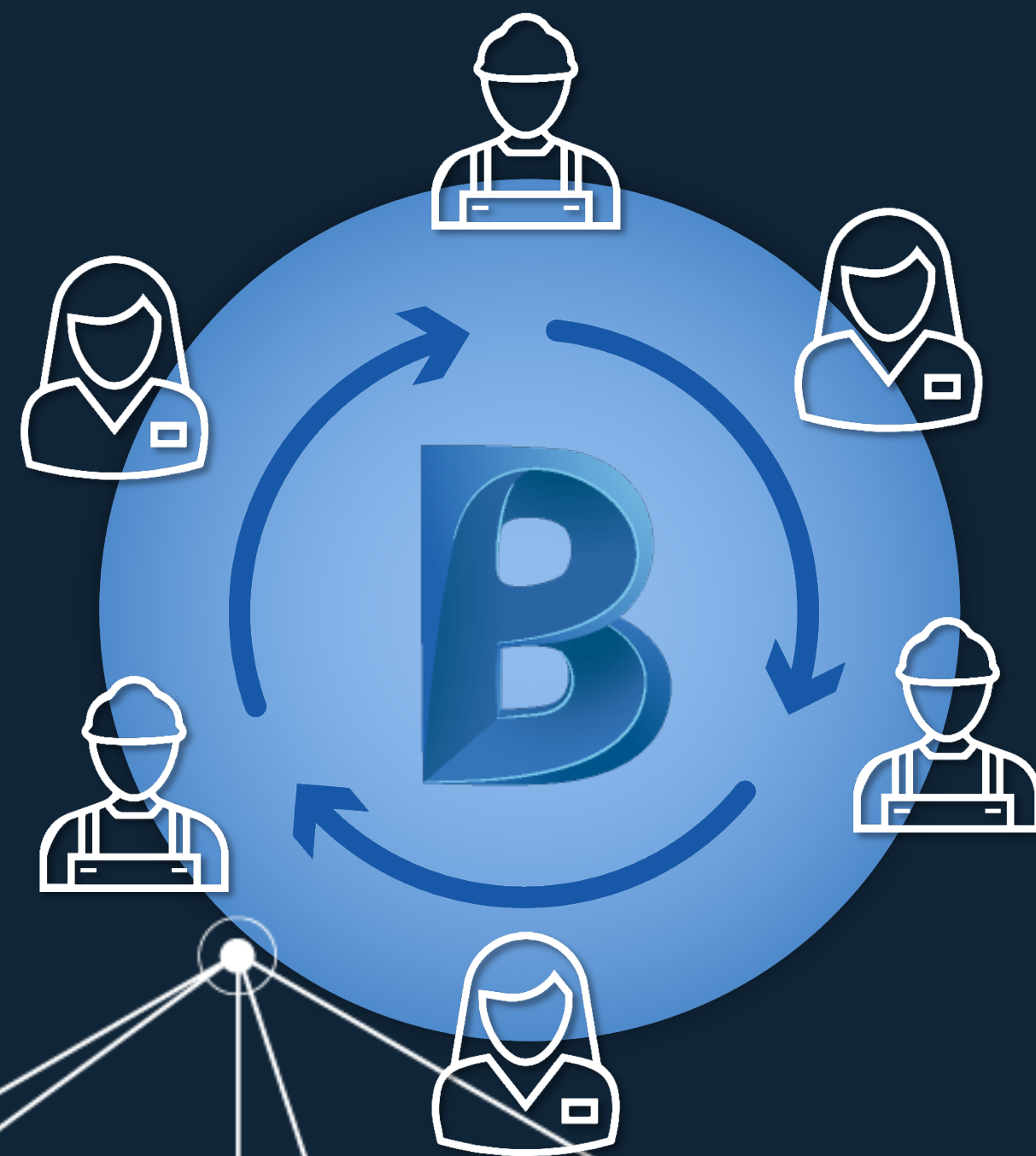
Upload

Search for documents

☐	Name ▲	Title	Set ▼	Version	Last updated	Updated by	Markup	
☐	 3D_L0_Electrical_rme_advanced_sample...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
☐	 3D_L0_Fire Protection_rme_advanced_s...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
☐	 3D_L0_HVAC_rme_advanced_sample_pr...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
☐	 3D_L0_Plumbing_rme_advanced_sampl...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
☐	 3D_L1_Electrical_rme_advanced_sample...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
☐	 3D_L1_Fire Protection_rme_advanced_s...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
☐	 3D_L1_HVAC_rme_advanced_sample_pr...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
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☐	 3D_L2_Plumbing_rme_advanced_sample...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	
☐	 3D_Roof_Electrical_rme_advanced_sam...			V3	Mar 31, 2019 10:15 PM	John-paul Jones	 0	



A complementary tool



+



=

BETTER
COORDINATION
FOR BETTER
OUTCOMES



Document Management

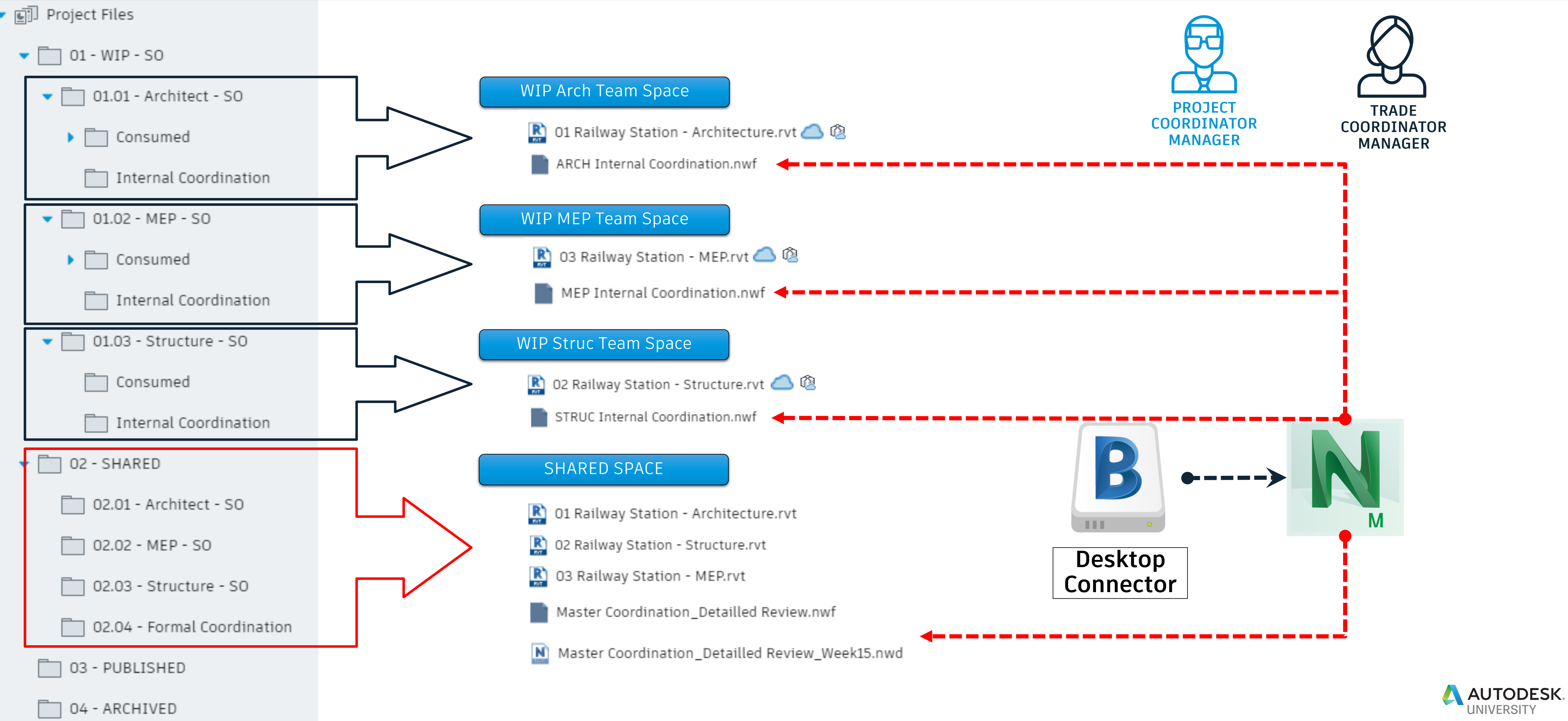
FOLDERS

REVIEWS

TRANSMITTALS

ISSUES

PROJECT ENVIRONMENT - WIP – SHARED -----PROJECT FOLDER



Autodesk Navisworks Manage 2020 Untitled

Type a keyword or phrase jose.ariza

Home Viewpoint Review Animation View Output BIM 360 Render BIM 360 Issues

Append Refresh Reset All... File Options

Select

Save Selection Select All Select Same Selection Tree

Find Items Sets

Hide Require Hide Unselected Unhide All

Links Quick Properties Properties

Clash Detective TimeLiner Quantification Autodesk Rendering Animator Scripter

Appearance Profiler Batch Utility Compare

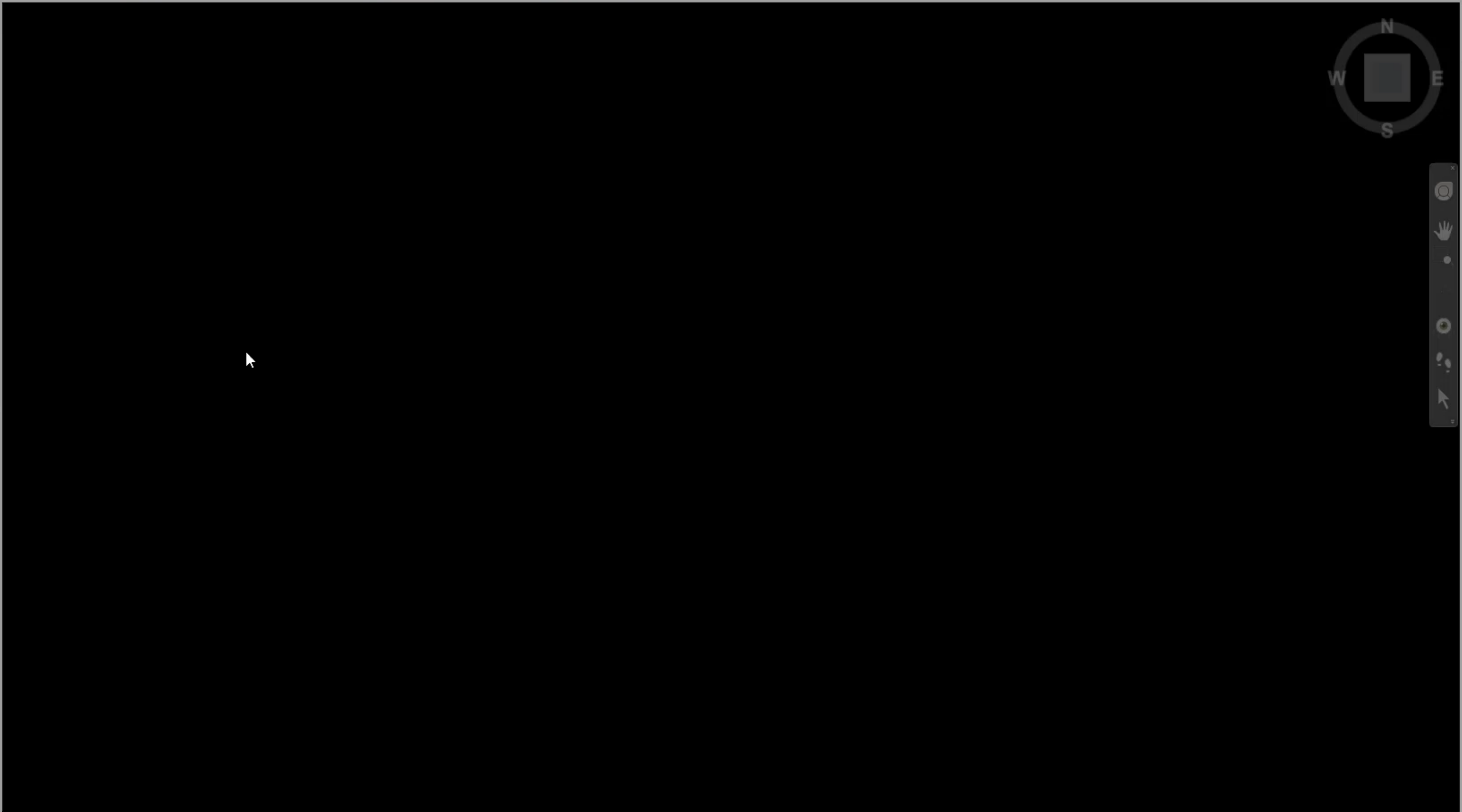
DataTools App Manager

Project Select & Search Visibility Display Tools

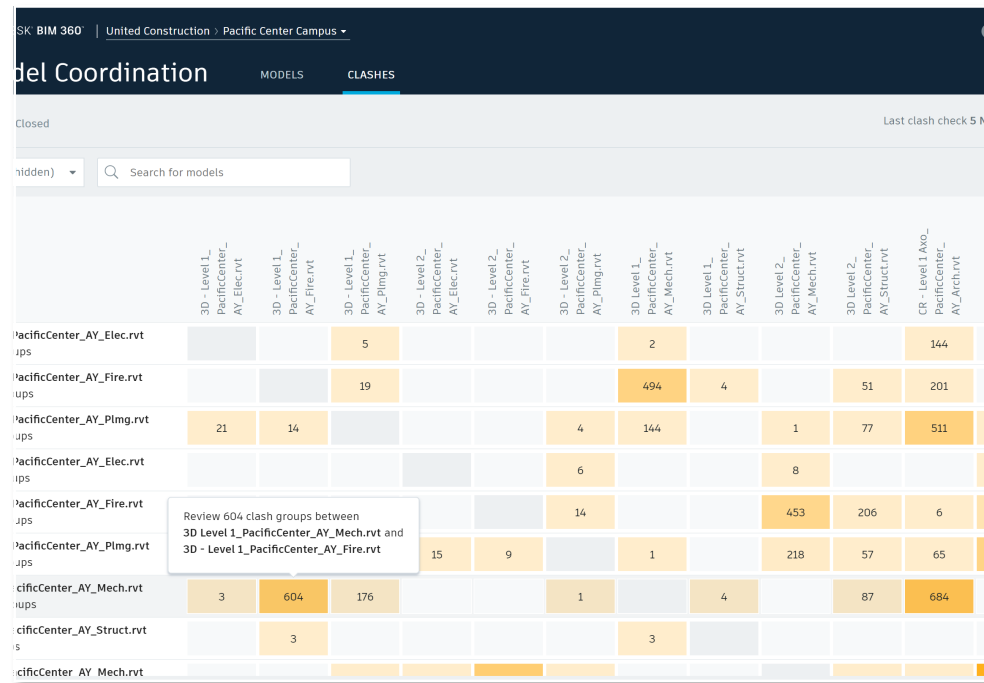
Selection Tree

Standard

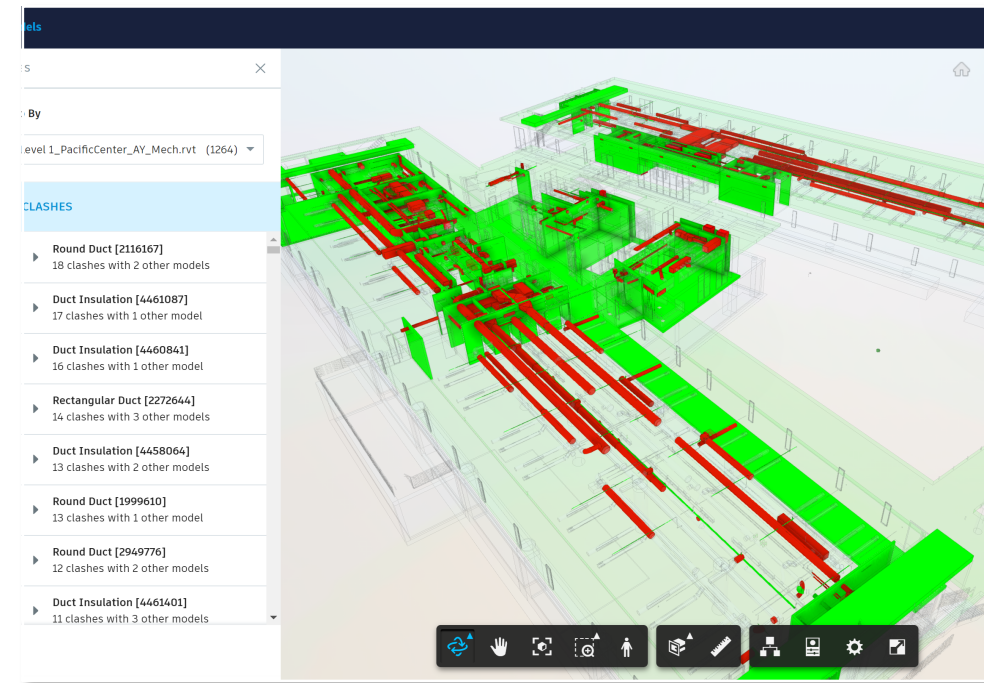
Sets



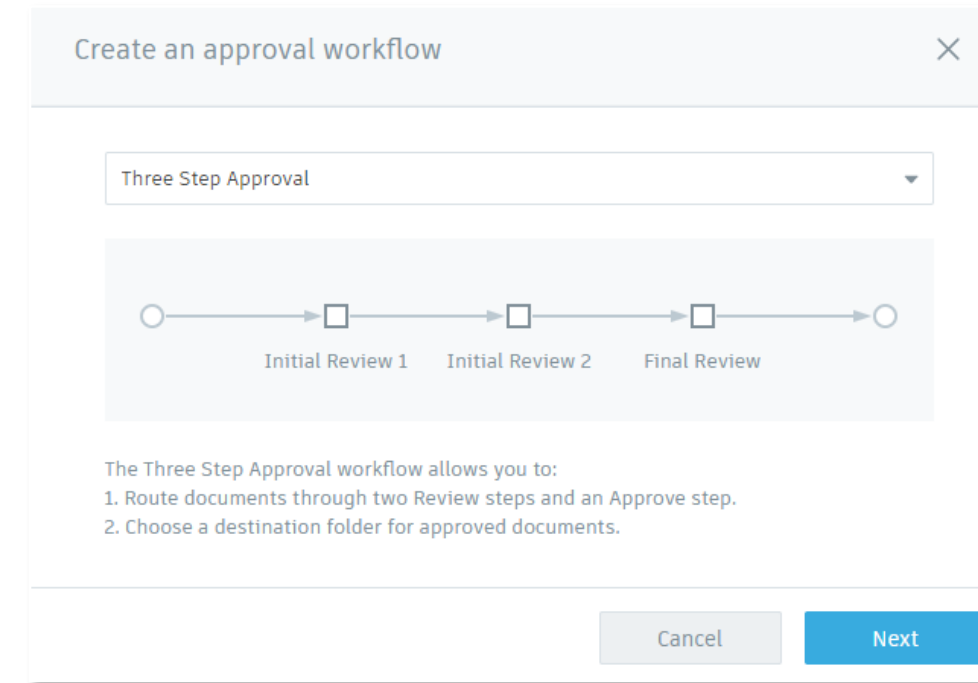
Advantages of BIM 360 as a Platform for Coordination



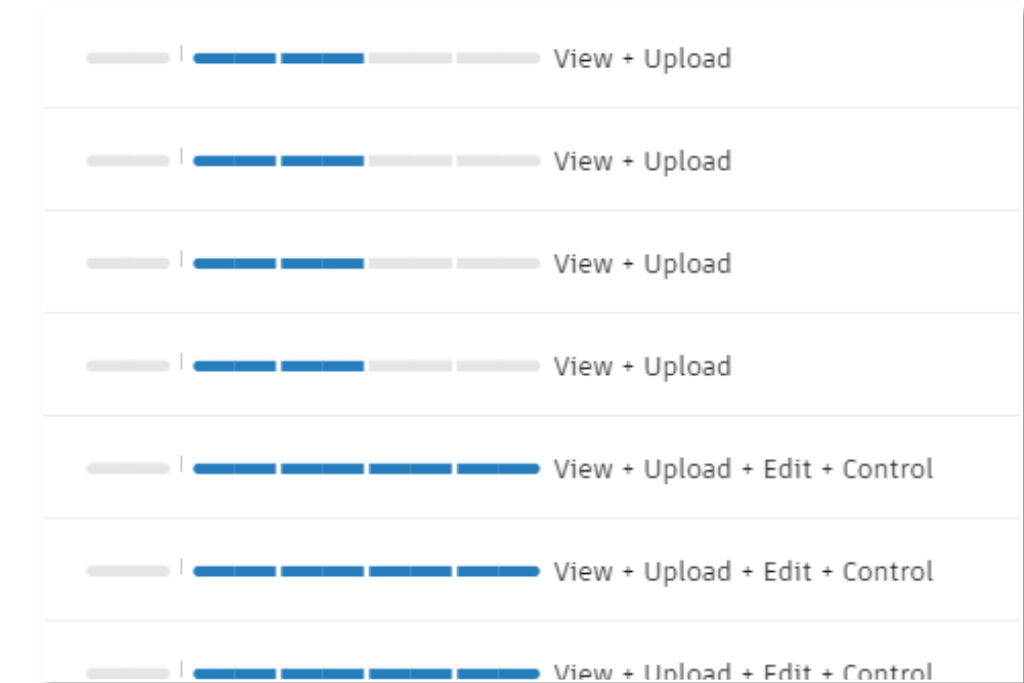
Automate Clash Detection



Democratise Coordination



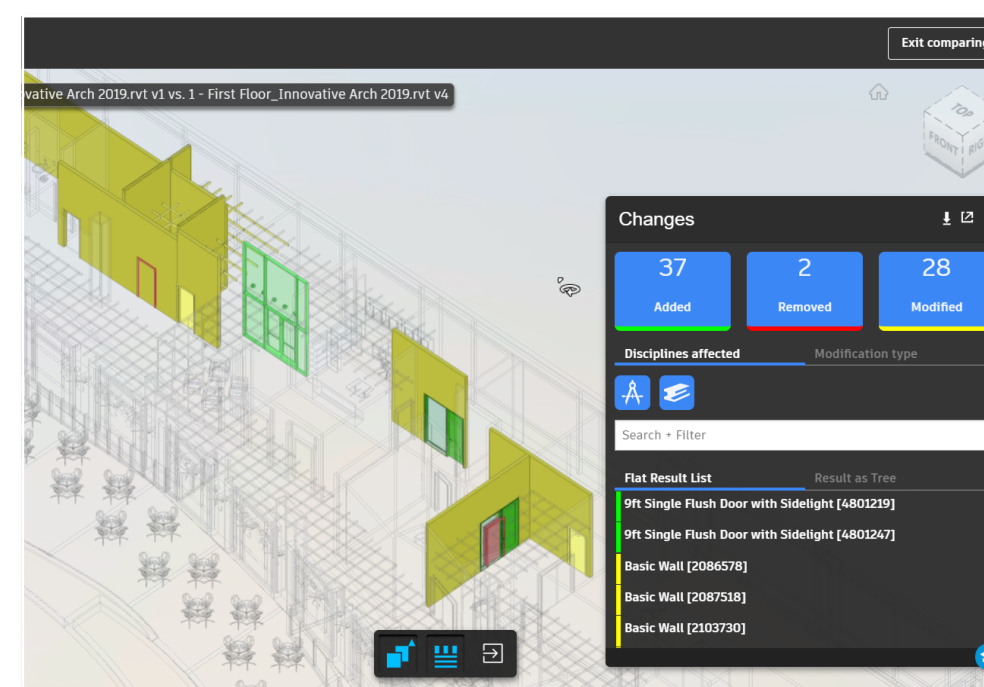
Approval Workflows



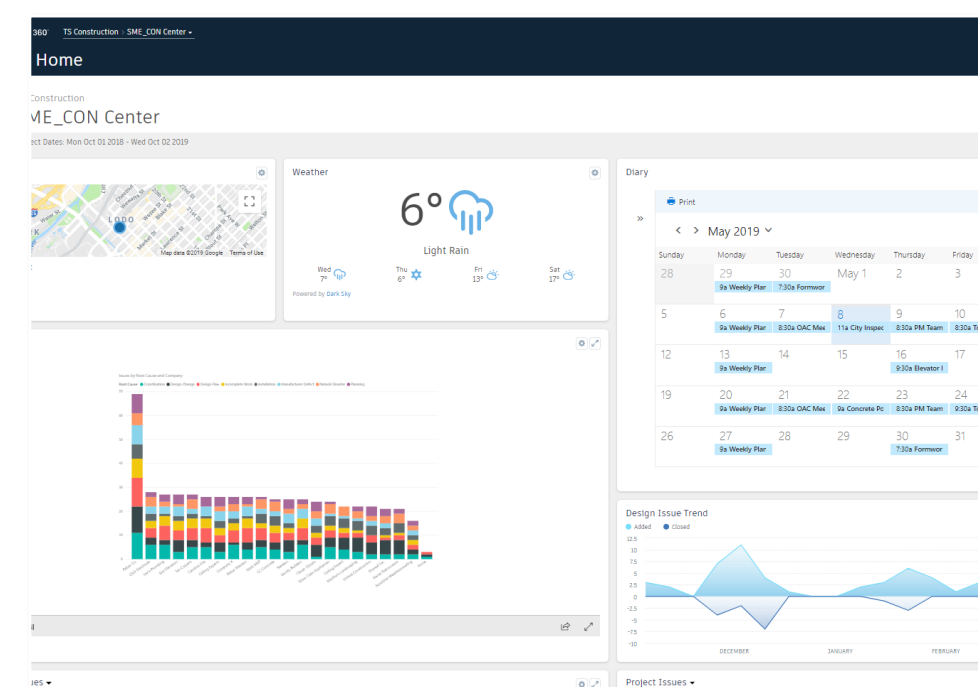
Granular Permissions

1	Design	Design	HVAC running too close...	Level 1
8	Design	Design	Lower Pipe - Pipe Types...	Level 1
13	Design	Design	Move duct due to Insul...	Level 1
15	Coordination	Clash	Move Duct Rectangular ...	-
9	Design	Design	Move M_Return Grille - ...	Level 1
16	Coordination	Clash	Move Rectangular Duct ...	-
14	Design	Design	Move Rectangular Duct ...	Level 2
17	Coordination	Clash	Raise HVAC system 150...	-
12	Design	Design	Reconsider Escade desi...	Level 1

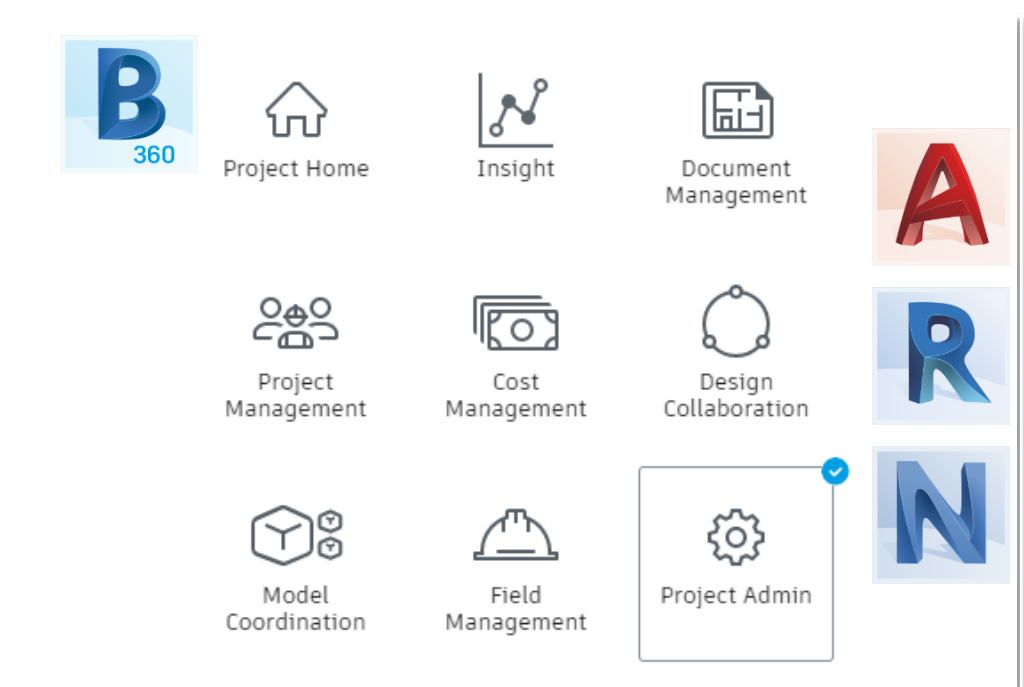
Unified Issues



Change Analysis



Dashboards



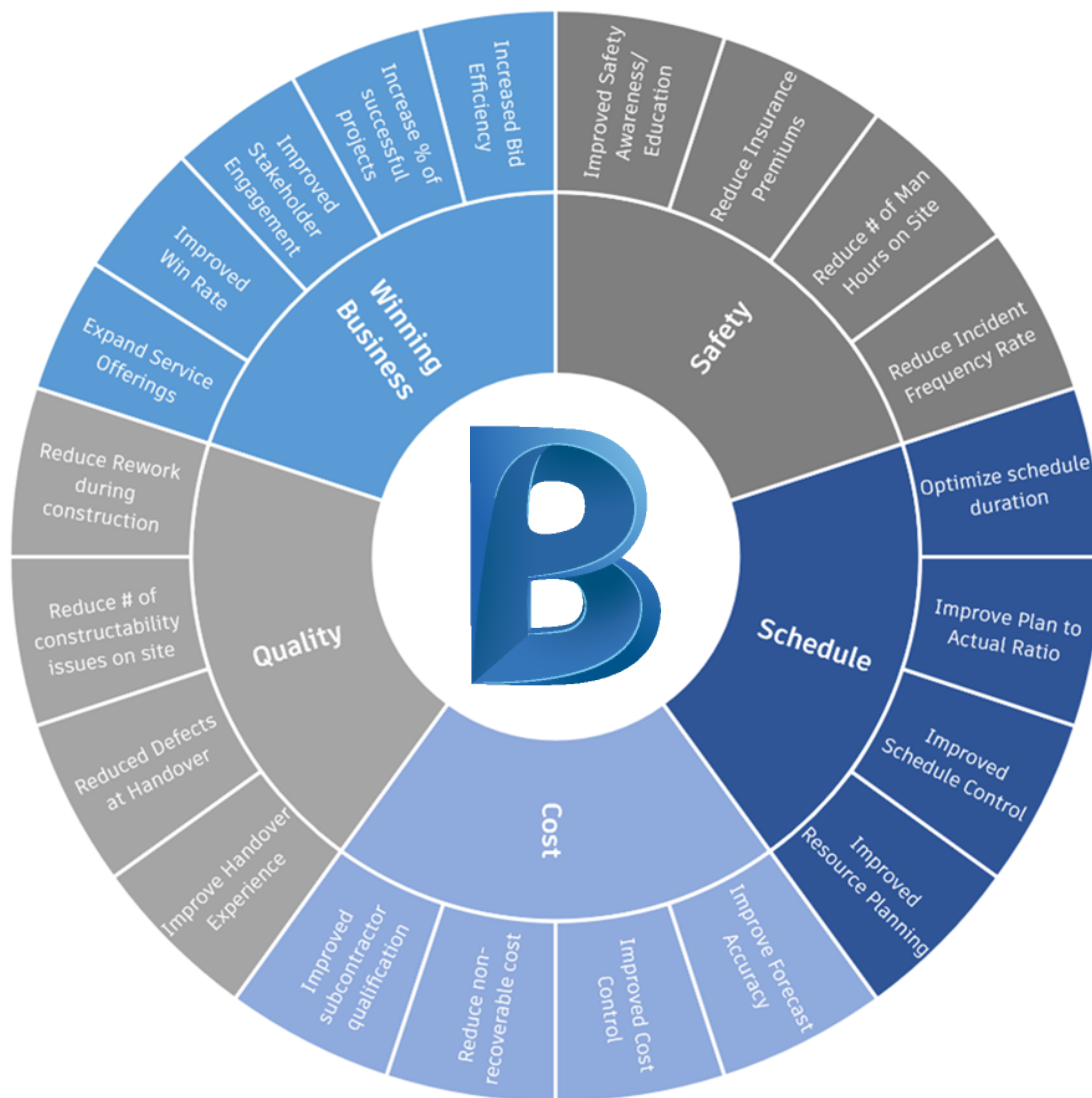
Integration



“We’re seeing an interesting democratization of the tool. Rather than needing an expert in Navisworks or Revit, anyone can look and use BIM 360 Model Coordination.”

Dennis McNeal, BIM Manager at AECOM







**I REALLY DON'T LIKE
MANCHESTER UNITED**

**CLASH
RESOLVED
MODEL**

**DESIGN
TEAMS**

**PROJECT
MANAGER**

**BIM/VDC
MANAGER**

CALL TO ACTION

1. Take out your phone
2. Open up your calendar, find a 1hr appointment next week to try Model Coordination.
3. Add a note about the feature area you're most interested in testing.

Already a user of BIM 360 Glue? Then you'll have access to BIM 360 Docs and Model Coordination – create a test project and follow instructions below to get started.

If not, download a Trial of BIM 360 Docs <https://bim360.autodesk.com/trial-signup/> and email frederick.regala@autodesk.com to get trial access to Model Coordination.

Learn how to use Model Coordination autode.sk/coordinateAKN

4. Take a photo of this screen

Questions





AUTODESK®

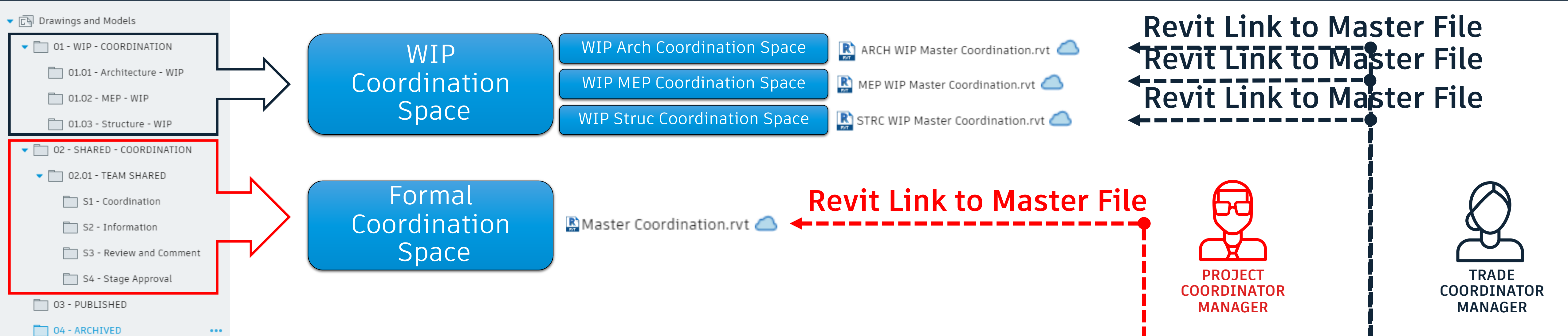
Make anything™

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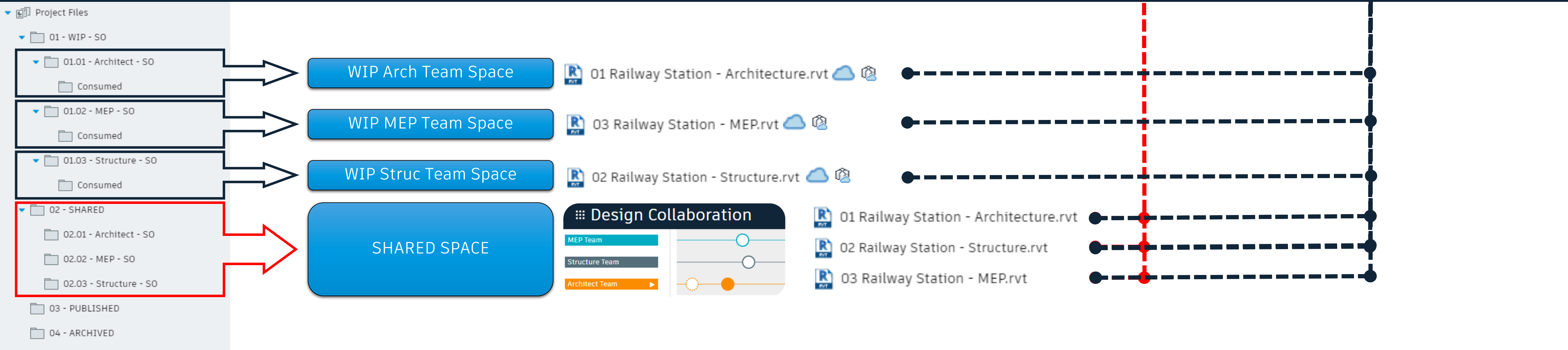
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PLANS FOLDERS

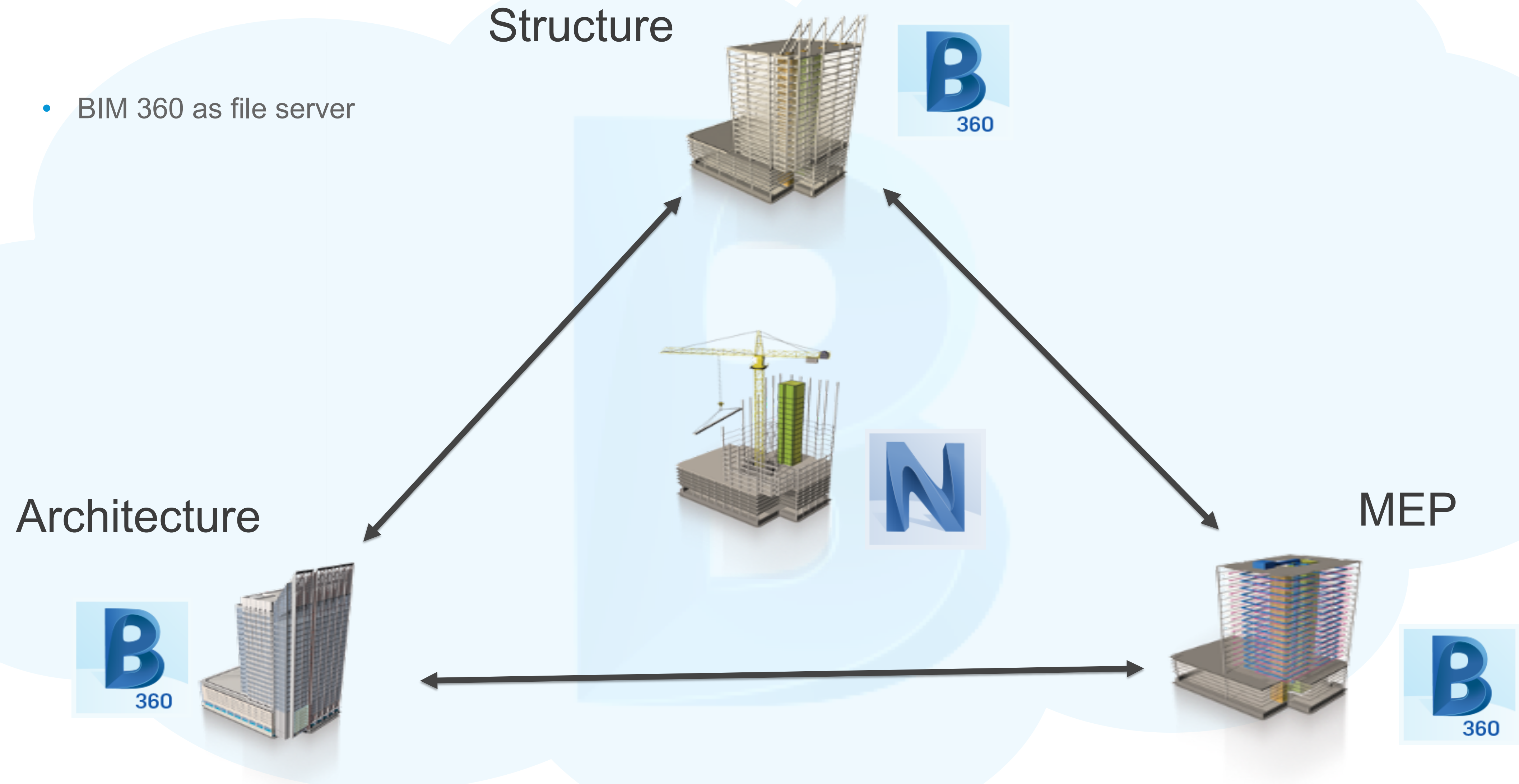


PROJECT ENVIRONMENT - WIP – SHARED -----PROJECT FOLDER



How does this work with Navisworks/BIM 360 Glue

- BIM 360 as file server



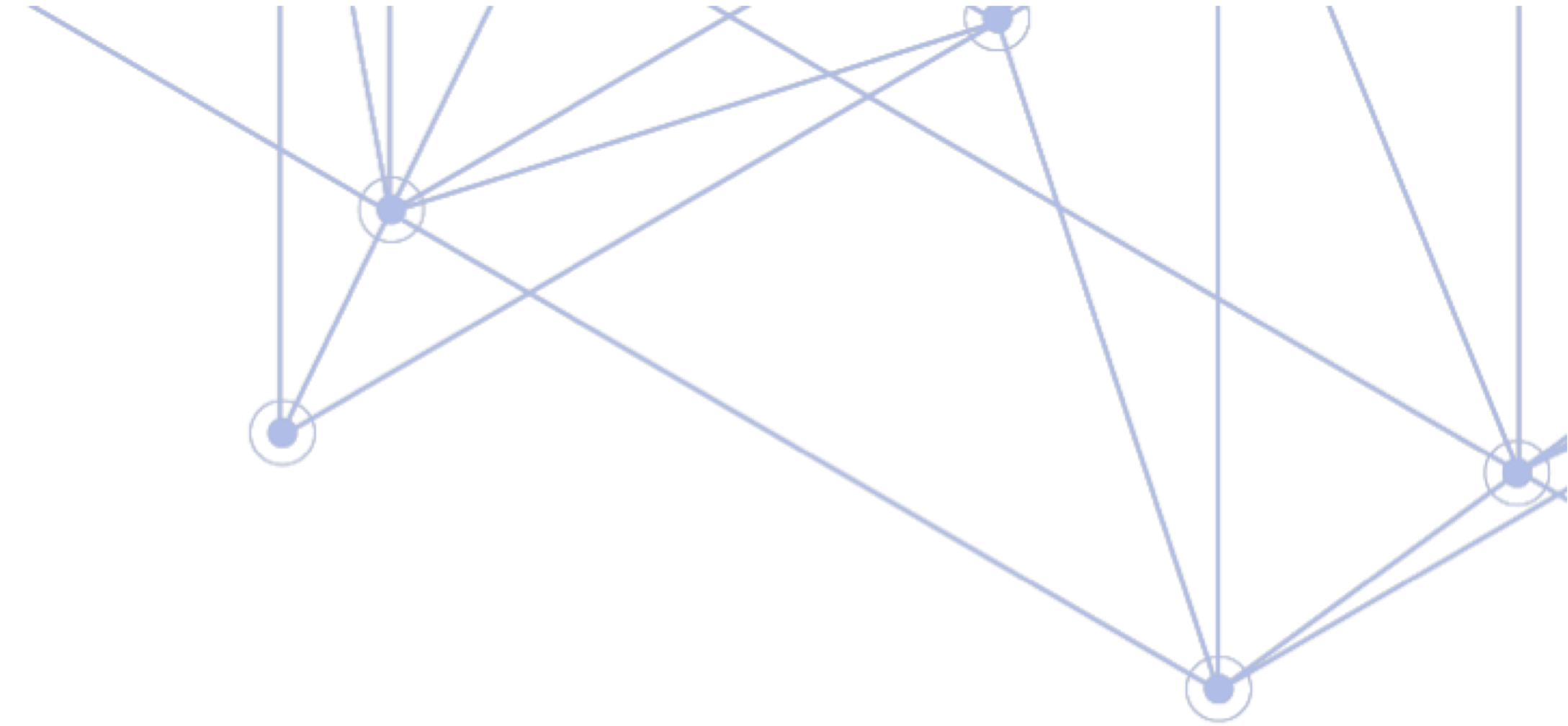
BIM 360 Model Coordination

Key Users

- General/main contractor BIM/VDC teams.
- Trade contractors.
- Design teams.

Key Workflows & Features

- Aggregate & review coordination models stored in Document Management.
- Automated clash detection, review and classification.
- Assign & track clash groups as issues.



Proactive Engagement

Simplified coordination administration

- Model Coordination leverages the folder and permission model of Document Management.

Compliments existing workflow

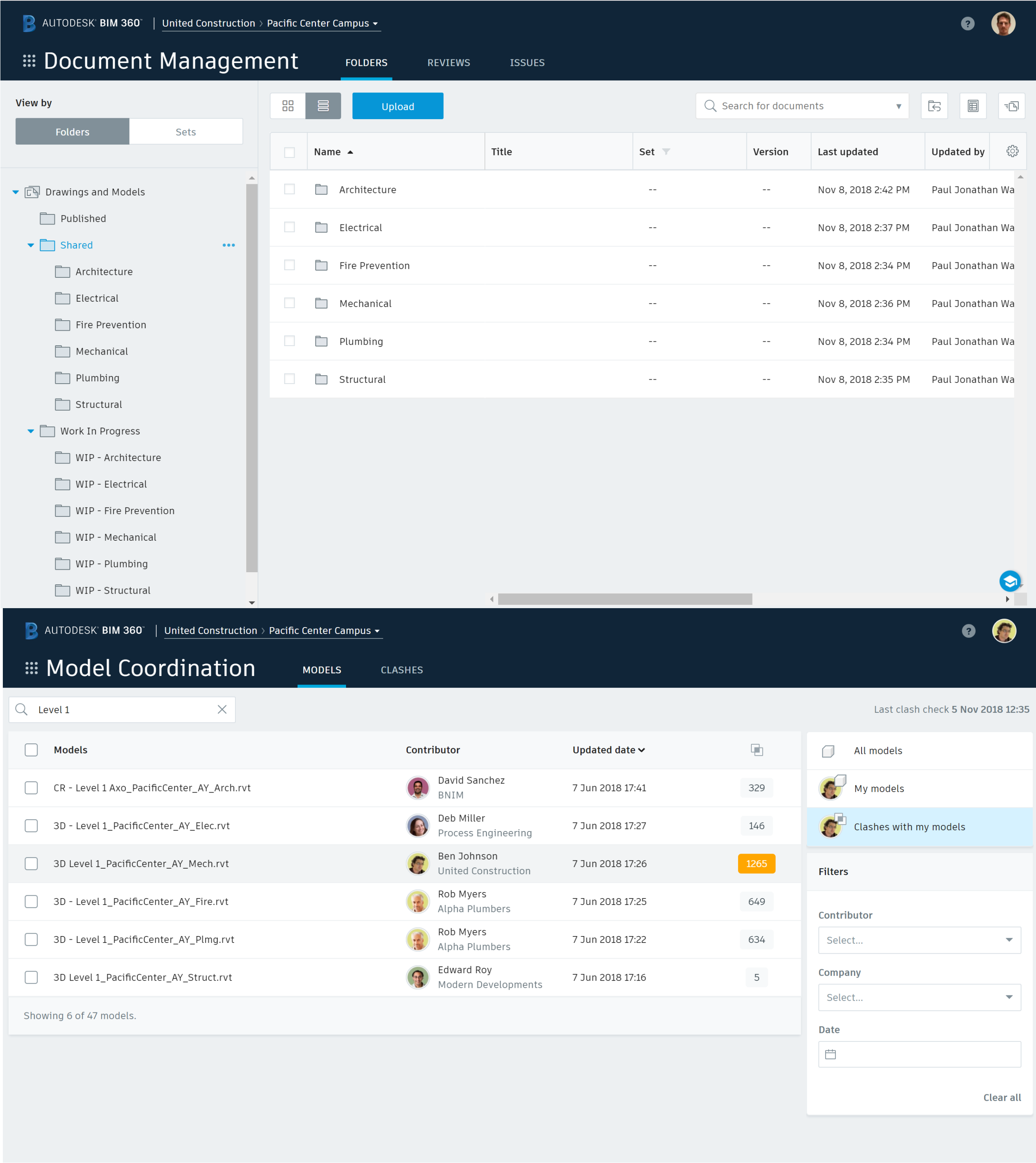
- As design and trade partners share their model data via Docs, Model Coordination automates detection of potential clash issues.

Get more out than you put in

- Design and trade partners can see identified risks with their current model versions, without requiring any prior clash knowledge or expertise.

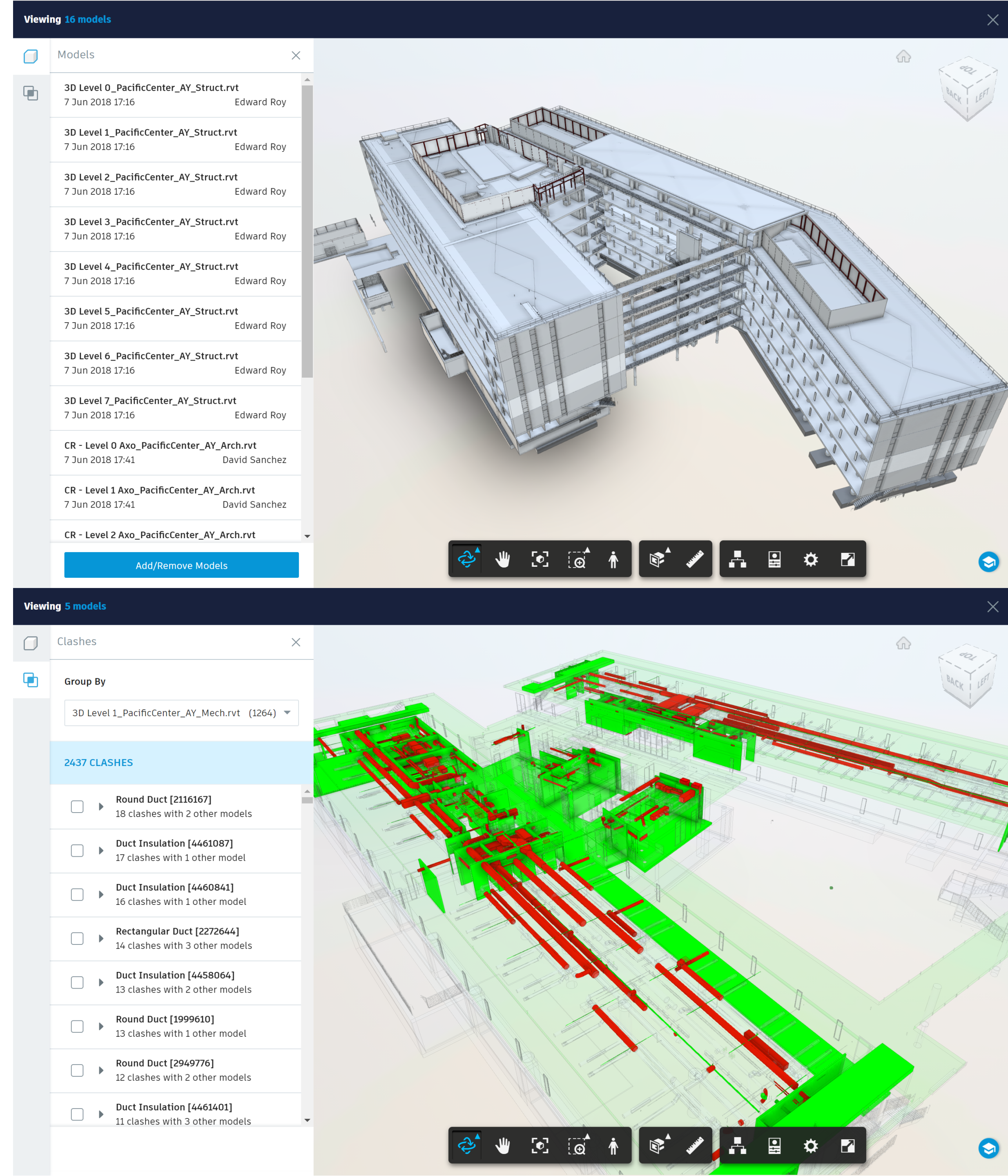
Drive desired behaviors

- Optimized user experience encourages users to take action – mitigating risks and improving model quality.



Holistic Project Review

- Aggregate and review multi-trade, multi-format project models to support coordination and constructability workflows.
- Search and filter to focus activity on specific project sub-sets.
- Enable private spaces for individual trade teams to explore options, run clash analysis and assess constructability against other 'shared' trade models.



Improved Coordination

- Review detected clash results, pre-grouped by discipline/trade model objects.
- Multi-select similar clashes/clash groups for efficient actioning.
- Assign relevant clashes to project members as issues for tracking and follow up.
- Specify issue due dates to aid in prioritization.
- Close and classify clashes that require no further action.

AUTODESK BIM 360 | United Construction > Pacific Center Campus

Model Coordination

MODELS CLASHES

Active Closed Last clash check 5 Nov 2018 12:35

12 models (35 hidden) Search for models

	3D - Level 1_PacificCenter_AY_Elec.rvt	3D - Level 1_PacificCenter_AY_Fire.rvt	3D - Level 1_PacificCenter_AY_Plmg.rvt	3D - Level 2_PacificCenter_AY_Elec.rvt	3D - Level 2_PacificCenter_AY_Fire.rvt	3D - Level 2_PacificCenter_AY_Plmg.rvt	3D Level 1_PacificCenter_AY_Mech.rvt	3D Level 1_PacificCenter_AY_Struct.rvt	3D Level 2_PacificCenter_AY_Mech.rvt	3D Level 2_PacificCenter_AY_Struct.rvt	CR - Level 1 Axo_PacificCenter_AY_Arch.rvt	CR - Level 2 Axo_PacificCenter_AY_Arch.rvt
3D - Level 1_PacificCenter_AY_Elec.rvt 146 clash groups		5					2				144	
3D - Level 1_PacificCenter_AY_Fire.rvt 688 clash groups		19					494	4		51	201	
3D - Level 1_PacificCenter_AY_Plmg.rvt 646 clash groups	21	14				4	144		1	77	511	61
3D - Level 2_PacificCenter_AY_Elec.rvt 113 clash groups						6			8			107
3D - Level 2_PacificCenter_AY_Fire.rvt 825 clash groups						14			453	206	6	303
3D - Level 2_PacificCenter_AY_Plmg.rvt 659 clash groups						15	9	1	218	57	65	488
3D Level 1_PacificCenter_AY_Mech.rvt 1276 clash groups	3	604	176			1		4		87	684	
3D Level 1_PacificCenter_AY_Struct.rvt 5 clash groups		3					3					
3D Level 2_PacificCenter_AY_Mech.rvt												

Review 604 clash groups between 3D Level 1_PacificCenter_AY_Mech.rvt and 3D - Level 1_PacificCenter_AY_Fire.rvt

Viewing 6 models

Clashes

Group By
CR - Level 1 Axo_PacificCenter_AY_Arch... (329)

2013 CLASHES (38)

- ☐ Basic Wall [6750108]
41 clashes with 3 other models
- ☒ Basic Wall [8310748]
38 clashes with 4 other models
- ☐ Basic Wall [4727429]
33 clashes with 3 other models
- ☐ Basic Wall [7047984]
33 clashes with 3 other models
- ☐ Basic Wall [4480613]
28 clashes with 4 other models
- ☐ Basic Wall [3567300]
27 clashes with 3 other models
- ☐ Basic Wall [10187081]
26 clashes with 2 other models
- ☐ Floor [9929548]
24 clashes with 1 other model

Not an issue Issue