

BIM 360: No Model, No Problem!

Adam Schilling

Designer/Design Team Lead





About the speaker

Adam Schilling - Arcadis

- Staff designer and Designer team lead in the Environmental Division of Arcadis
- Based in Syracuse, New York
- Avid runner, woodworker and amateur brewer

CLASS DESCRIPTION

- BIM 360 software is not just for models! You can use the built-in tools within BIM 360 to manage many different tasks in a collaborative environment outside of traditional BIM industries. In this class, we will explore collaborative issues that limit productivity and limit the ability to transition to a BIM environment. We'll look at how to implement a Level 1 BIM system to enhance collaboration, efficiency and consistency while also utilizing Forge to automate time-consuming tasks

LEARNING OBJECTIVES

- Learn how to utilize the benefits of BIM 360 without the need for a model
- Learn how to set up BIM 360 projects to maximize efficiency
- Learn how to utilize BIM 360 built-in tools for work-request submissions and tracking
- Learn how Forge can be used to automate repetitive tasks

About Arcadis

Arcadis is the leading global Design & Consultancy firm for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. We are 27,000 people active in over 70 countries that generate €3.3 billion in revenues. Arcadis. Improving quality of life.

Rate Your BIM 360 Experience/Knowledge

Go to www.menti.com and use the code **20 37 99**

How would you describe BIM 360
experience/knowledge

 Mentimeter



- I am an Expert
- I have used it some
- I have never used it



Slide is not active

Activate

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BIM Descriptors

Go to www.menti.com and use the code **22 07 27**

What Word Would You Use To Describe BIM

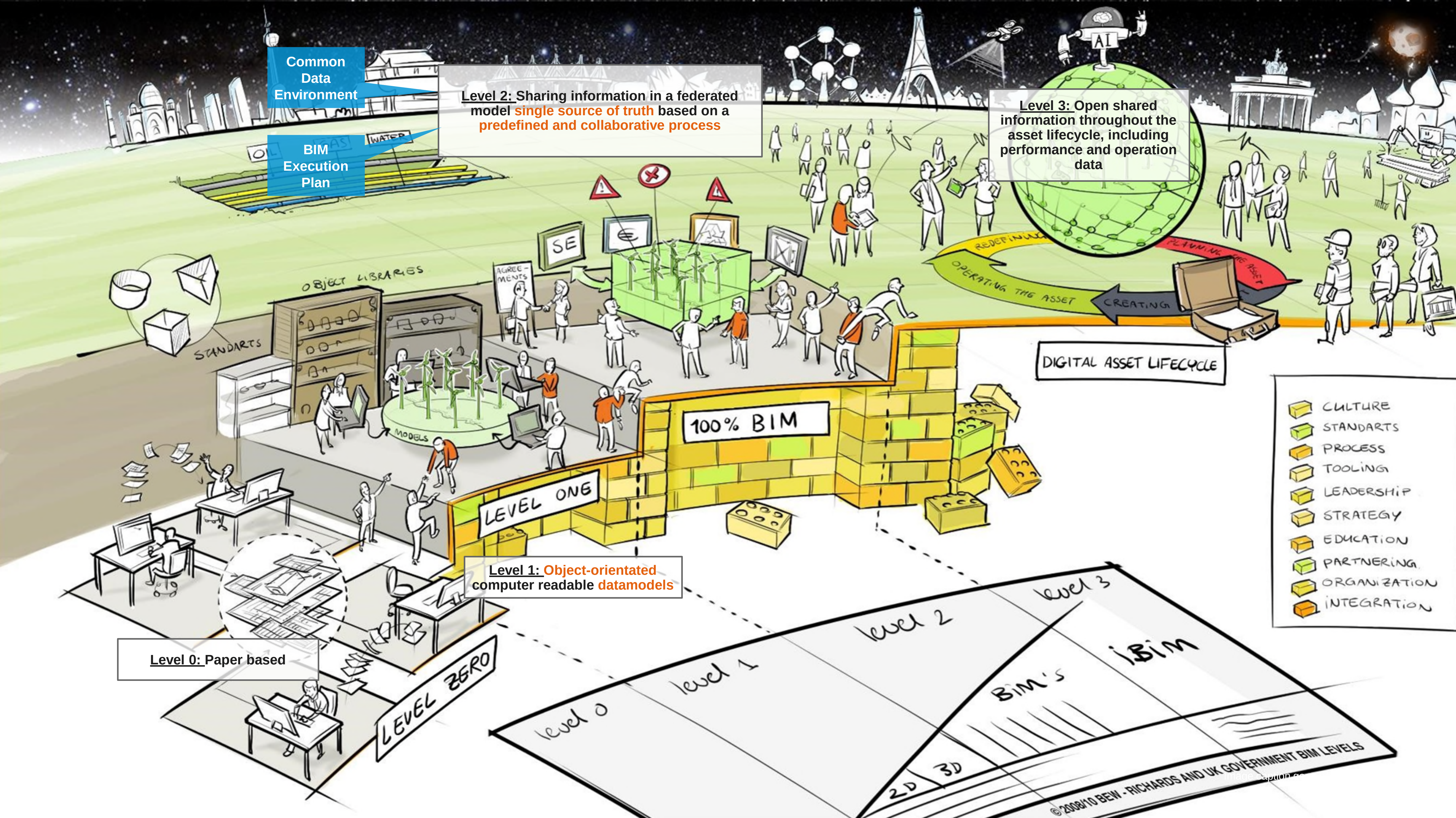
 Mentimeter



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Activate

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Background



Where We Started

>550

CLIENTS

Primarily in the United
States

>8000

PROJECTS

Primarily in the United
States

49

STAFF

Globally

22

SERVERS

Globally

Where We Started

THE PROBLEM

- Staff located across the world
- Files housed across the world
- Access rights not uniformly managed
- Staff were frequently unable to access required files

OPTIONS

- Maintain the status quo while trying to manage work via file exchanging
- Store everything on a central server
- Move to a cloud solution

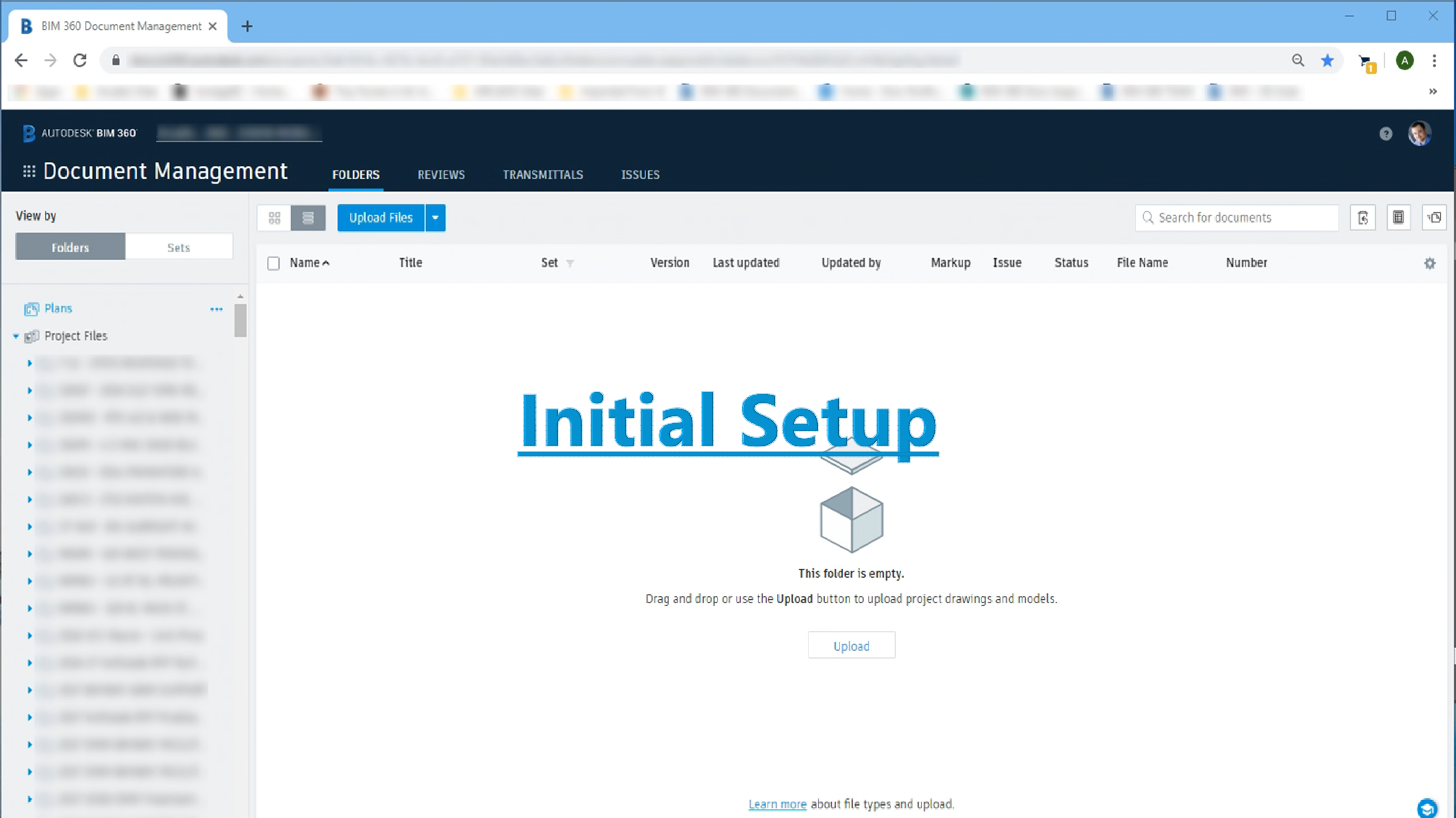
Our Solution - BIM 360 Docs

WHY

- Create a centralized location for all drawings
- Easy access
- Version Control

HOW

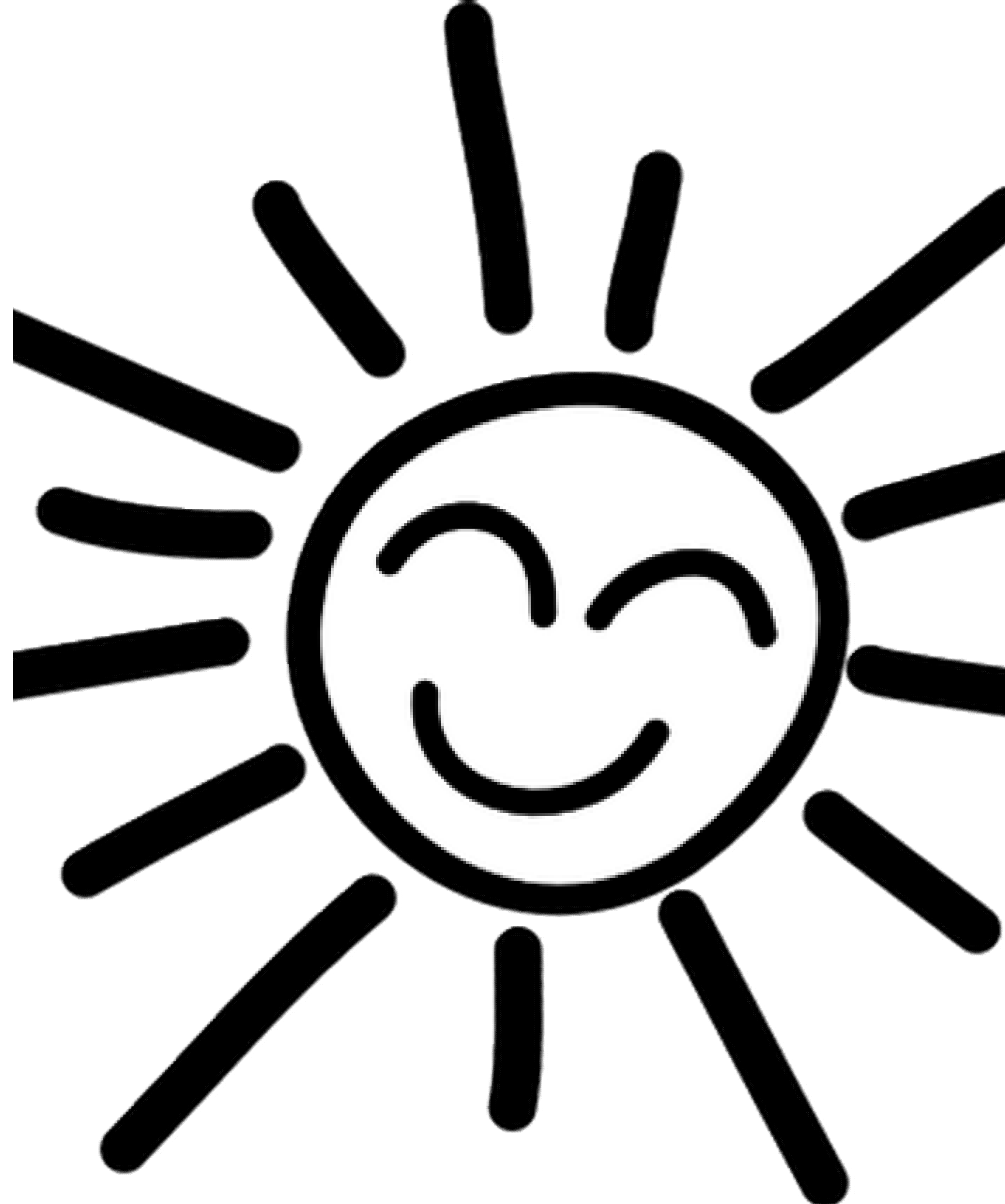
- Created one project for each client in portfolio
- Created individual folders for each job worked on in the current calendar year with folder structure pre-populated
- Assigned permission levels by company
- Trained staff via Skype meeting and one on one help



Implementation

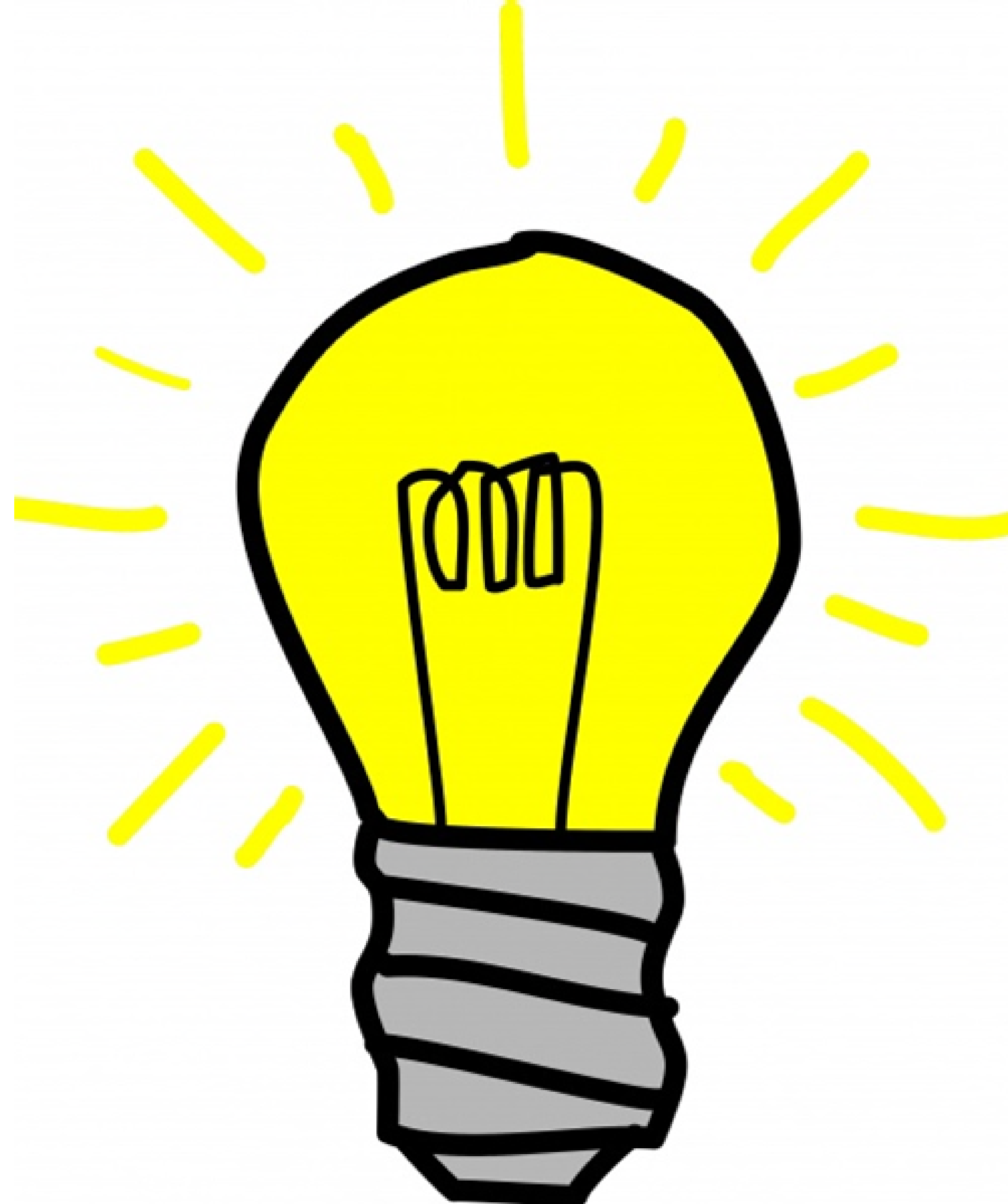
However...

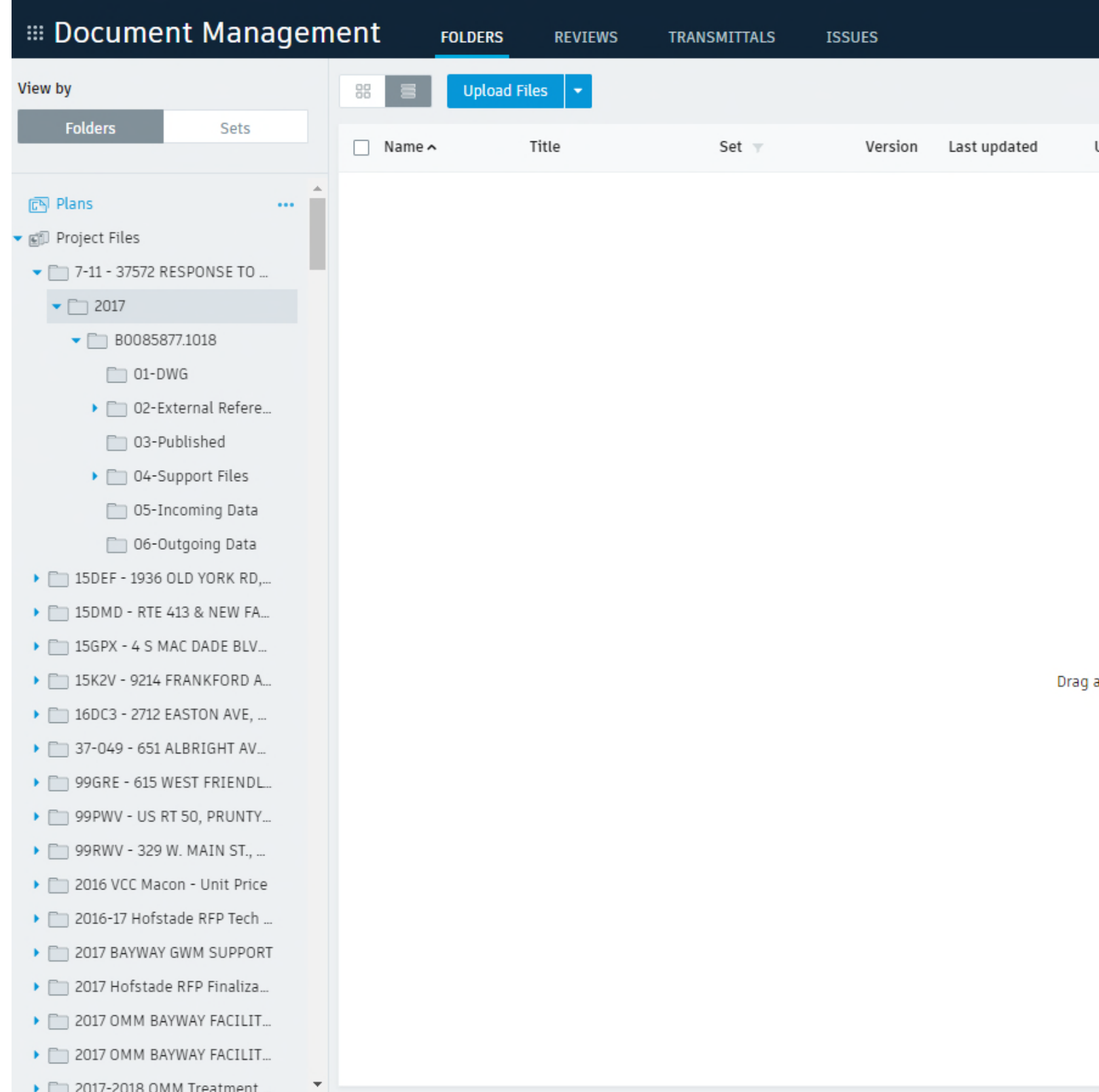
- Uploading and downloading
- Permissions
- Creating new projects (per client) fell to a small number of individuals



New Approach

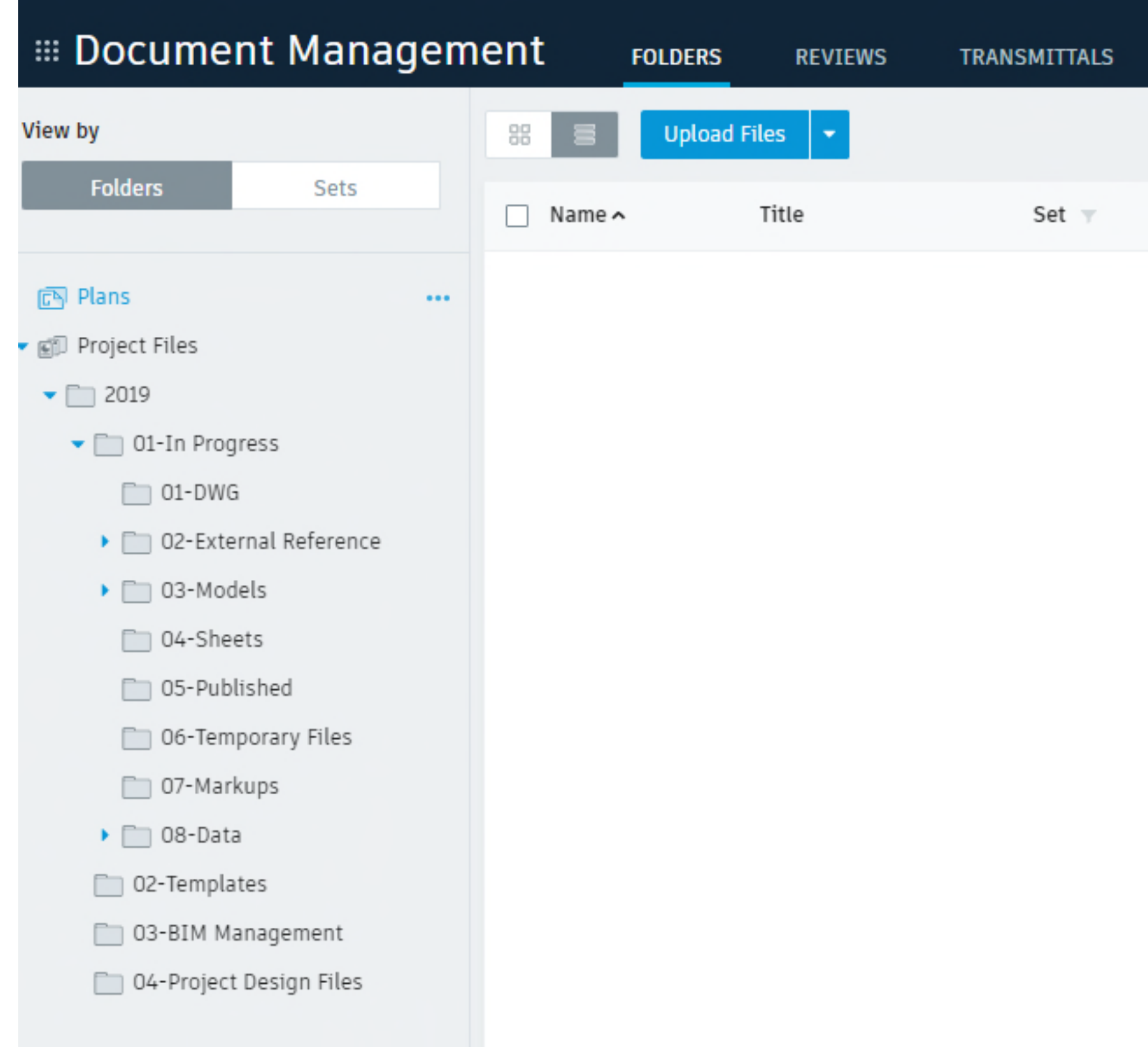
- Separate each project into its own BIM 360 Project
- New BIM 360 Modules
- Switched permissions to role based (template)
- New folder structure (template)





Original Format

- 1 BIM 360 project = many actual projects
- Folder structure provides support for only AutoCAD files
- Permissions were company based
- Modules beyond Document Management unable to be used due to inefficiencies



Revised Format

- 1 BIM 360 project = 1 project
- Inclusive folder structure
- Permission by project role
- Ability to efficiently use other BIM 360 Modules

BIM 360 Tools



Document Management

- Sets
- Transmittals
- Issues
- Reviews

Project Management

- RFI's
- Submittals

Project Home/Insight

- Project Overview

Document Management



BIM 360 Insight

BIM 360 Document Management

BIM 360 Project Management

docs.b360.autodesk.com/projects/8cc543fe-cc2d-4319-a4c4-a5f18b671577/folders/urn:adsk.wipprod:fs.folder:co.zsGZt8QRRpqttpRaYisQ5Q/detail

AppsArcadis SitesIomegaEZ - Home...Troy Nunes Is An A...ARCADIS SitesImported From IEBIM 360 Document...Home - Dow Portfo...BIM 360 Docs Supp...BIM 360 TEAMBIM - GE Solar

AUTODESK BIM 360

Arcadis BIM360 TEST Trial > Arcadis-AU2019-Example

Document Management

FOLDERSREVIEWSTRANSMITTALSISSUES

View by

FoldersSets

Plans

Project Files

2019

Upload Files

Search for documents

Name	Title	Set	Version	Last updated	Updated by	Markup	Issue	RFI	Status	File Name	Number
Sets This folder is empty. Drag and drop or use the Upload button to upload project drawings and models. Upload											

Learn more

 about file types and upload.

BIM 360 Insight

BIM 360 Document Management

BIM 360 Project Management

←

→

↺

docs.bim360.autodesk.com/projects/5439e-cc2d-4319-a4c8-a5f18b671577/folders/furnadsk-wgpprodt%20folder%20of%20Q2%20FY2019%20detail

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Apps

Arcadis Sites

lomegaEZ - Home...

Troy Nunes Is An A...

ARCADIS Sites

Imported From IE

BIM 360 Document...

Home - Dow Portfo...

BIM 360 Docs Supp...

BIM 360 TEAM

BIM - GE Solar

AUTODESK BIM 360

Arcadis BIM360 TEST Trial > Arcadis-AU2019-Example

Document Management

FOLDERS

REVIEWS

TRANSMITTALS

ISSUES

View by

Folders

Sets

Plans

Project Files

2019

📁

Upload Files

🔍

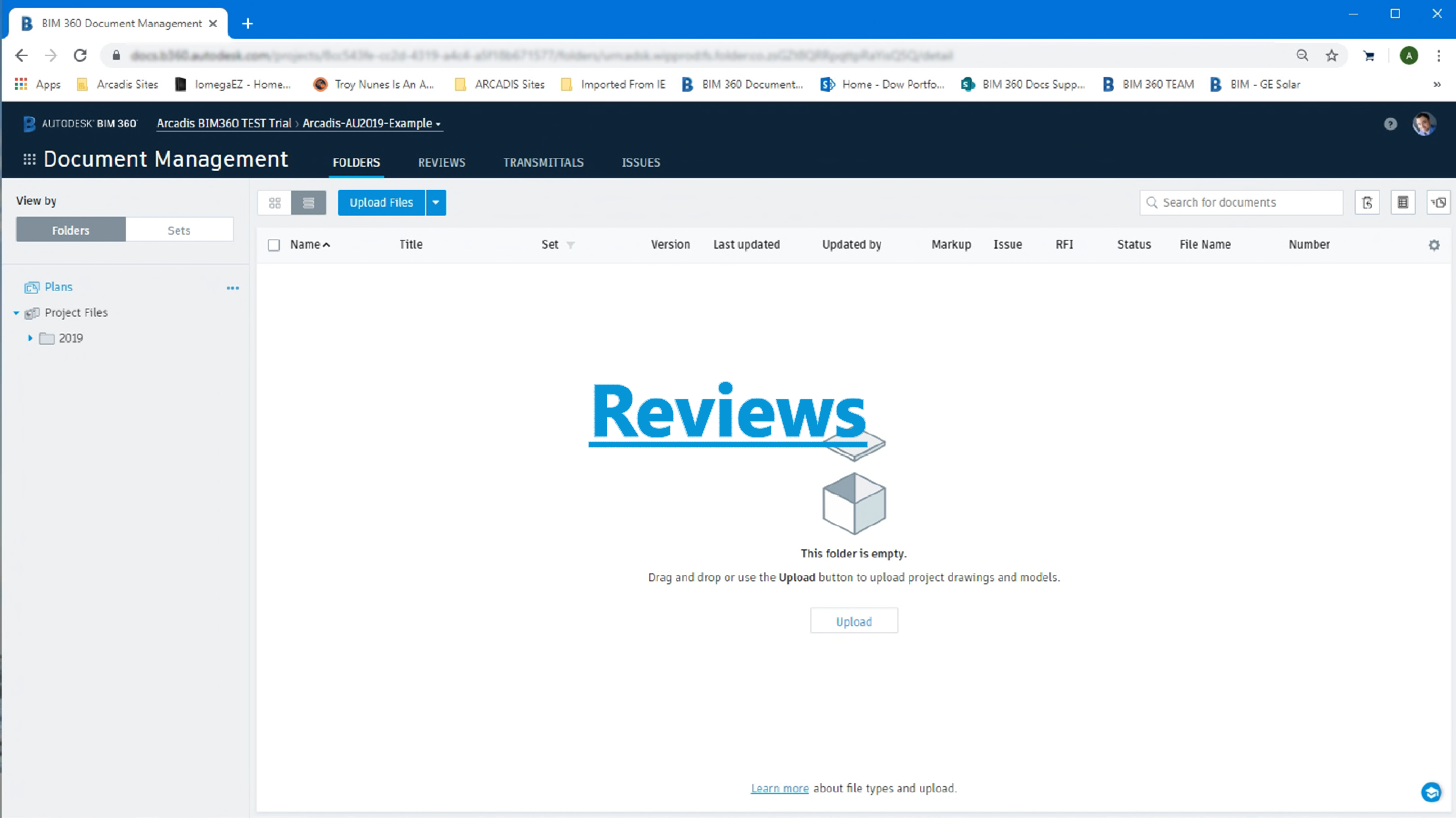
Search for documents

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☐	Name ^	Title	Set ▾	Version	Last updated	Updated by	Markup	Issue	RFI	Status	File Name	Number	⚙️
Issues This folder is empty. Drag and drop or use the Upload button to upload project drawings and models. Upload Learn more about file types and upload.													



Project Management



Search RFI

Filter

Export

Create RFI

Status	ID	Title	Location	Created by	Assigned to	Company	Due date	Document		
CLOSED	009	Existing Roof Drain - No Structural Support	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-009 Re...t.pdf	2	0
CLOSED	008	Dimensional Revisions on Existing Building	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-008 Re...e.pdf	1	0
CLOSED	007	Existing North Canopy - Columns do not have existi...	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-007 Re...e.pdf	0	0
CLOSED	006	Existing Clay Sanitary Sewer Pipe	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-006 Re...e.pdf	2	0
CLOSED	005	Domestic Water Tie-in	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-005 Re...e.pdf	2	0
CLOSED	004	8x8x16 CMU Block for Trash Enclosure	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-004 Re...e.pdf	2	0
CLOSED	003	Ladder Cable Tray	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-003 Re...e.pdf	2	0
CLOSED	002	Existing Building Perimeter Wall Furring	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-002 Ex...g.pdf	2	0
CLOSED	001	Portland Cement Plaster Spec	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	RFI-001 Re...e.pdf	2	0
OPEN	033	Generator Data Connectivity Module Insert	Court Bldg, Room 139 ...	Ann Blanchard (Arcadis)	Ann Blanchard	Arcadis	Jul 23, 20...	-	4	0
CLOSED	032	Electrical Field Report #2 Drip Pan above Electrical ...	Court Building, Room ...	Ann Blanchard (Arcadis)	Ann Blanchard	Arcadis	Jul 24, 20...	-	4	0
CLOSED	031	Fire Alarm Panel @ Clinic Power Supply	Clinic - Room 134	Ann Blanchard (Arcadis)	Ann Blanchard	Arcadis	Jun 25, 2...	-	2	0
CLOSED	030	HP Disconnects	Site Mech Yard	Milan Trifkovic (Arcadis)	Ann Blanchard	Arcadis	Jun 11, 20...	EP102	1	0
OPEN	029	Security Gate & Pedestal Location	East entrance parking ...	Ann Blanchard (Arcadis)	Ann Blanchard	Arcadis	Jul 23, 20...	-	1	0
CLOSED	028	Door Stops	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	May 24, 2...	-	1	0
CLOSED	027	Fencing and Gate Hardware	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	-	2	0
CLOSED	026	Note 11	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	-	3	0
CLOSED	025	Add Elec Outlets & Data per Owner Rm 135	-	Milan Trifkovic (Arcadis)	Milan Trifkovic	Arcadis	-	-	1	0

ISSUES

Folders Sets

04-Project Design Files



Submittals

Project Home/Insight





Arcadis

ANA - Pinal County Justice Court Central

Project Dates: Fri Oct 12 2018 - Wed Jun 12 2019



Customize

Quality Risk



Risk Today: Low

Safety Risk Today



Low Adoption Risk

[Safety Risk Overview](#)

Quality Risk Factors



0

HIGH RISK
SUBCONTRACTORS



0

HIGH RISK ISSUES



0

WATER RISK ISSUES



0

CHECKLIST ACTIVITY



1

OVERDUE ISSUES

Construction IQ - PREVIEW

Construction IQ - PREVIEW

Construction IQ - PREVIEW

Subcontractor Risk Today

Adams Engineering

Arcadis

Autodesk

BWS Architects

Danson

M3 Engineering

McGann & Associates

Pinal County

Low

Low

Low

Low

Low

Low

Low

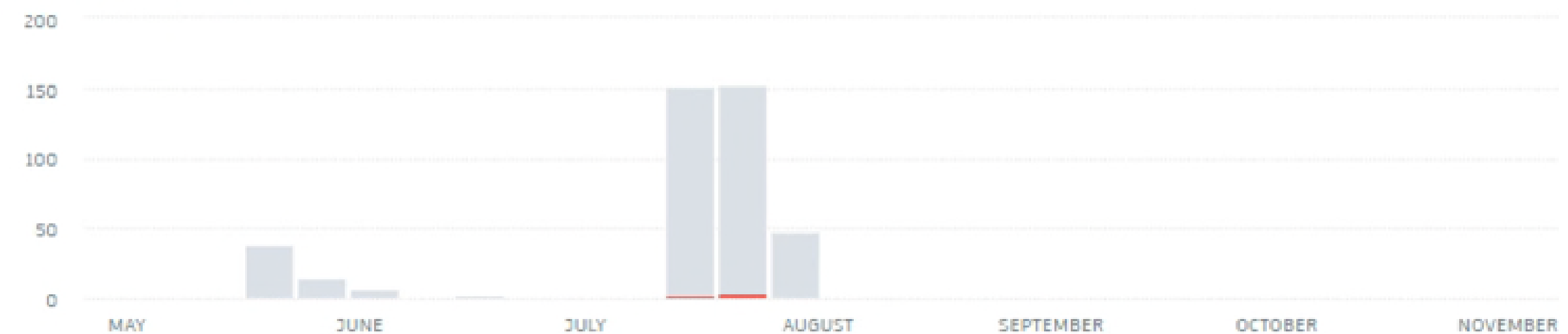
Low

Project Home/Insight

High Risk Quality Issues



High Risk Others

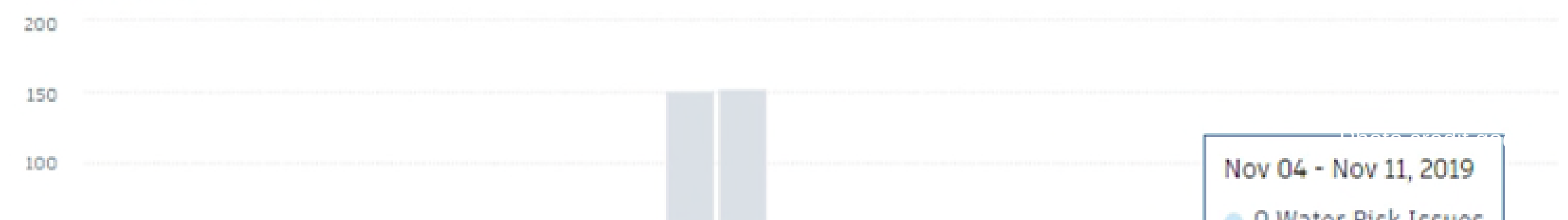


Construction IQ - PREVIEW

Water Risk Issues



Water Risk Issues Others



Nov 04 - Nov 11, 2019

0 Water Risk Issues

Forge Integration Example



- Home
 - BIM 360 Templates
 - BIM 360 Request status
 - BIM 360 - Amend User List
 - User Template Download
- EDIT LINKS



Request Approvals

Arcadis Region	United States of America - US												
Business Unit	Arcadis North America/Environment												
Client Name													
Project Name													
Project Type:	Office												
Construction Type:													
Project Value:													
Contract Type:	Construction Management (CM) at Risk												
Project Number													
Project Address:	<table><tr><td>Country:</td><td></td></tr><tr><td>State/ Province:</td><td></td></tr><tr><td>City:</td><td></td></tr><tr><td>Line 1:</td><td></td></tr><tr><td>Line 2:</td><td></td></tr><tr><td>Postal Code:</td><td></td></tr></table>	Country:		State/ Province:		City:		Line 1:		Line 2:		Postal Code:	
Country:													
State/ Province:													
City:													
Line 1:													
Line 2:													
Postal Code:													

Sharepoint & Forge
Project Creation

“There is a way to do it
better.....**FIND IT.**”

Thomas Edison

Contact Information and Additional Resources

ADAM SCHILLING

Adam.Schilling@arcadis.com

MORE ON BIM 360 DOC REVIEWS

BES320308:Going Digital on Large Projects: BIM 360 Markups, Issues, and Reviews

November 21 @8:30

Delfino 4003



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