AGC
THE CONSTRUCTION ASSOCIATION

Project Operations from Soup-to-Nuts

How Yates Construction integrates PM, VDC, and ERP systems to manage projects from Estimating to Turnover

Benjamin Crosby, Greg Smith

Agenda

- A little about Yates Construction
- Common Data Environments (CDE's)
- ERP/PM software (Vista/ProjectSight)
- Procore to ProjectSight (1-way, 2-way)
- ACC to ProjectSight (1-way, 2-way)

Who We Are

- Core Values: Safety, Integrity, Passion, Commitment
- $5B+ revenue and 5,500+ employees.
- Over 60 years of providing a wide range of construction and building services.
- Top 50 construction service providers in all delivery methods (Construction Management, Program Management, General Contracting, and Design-Build)
- Commercial and industrial projects ranging from civil, hospitality, healthcare, and technology to manufacturing and industrial process.

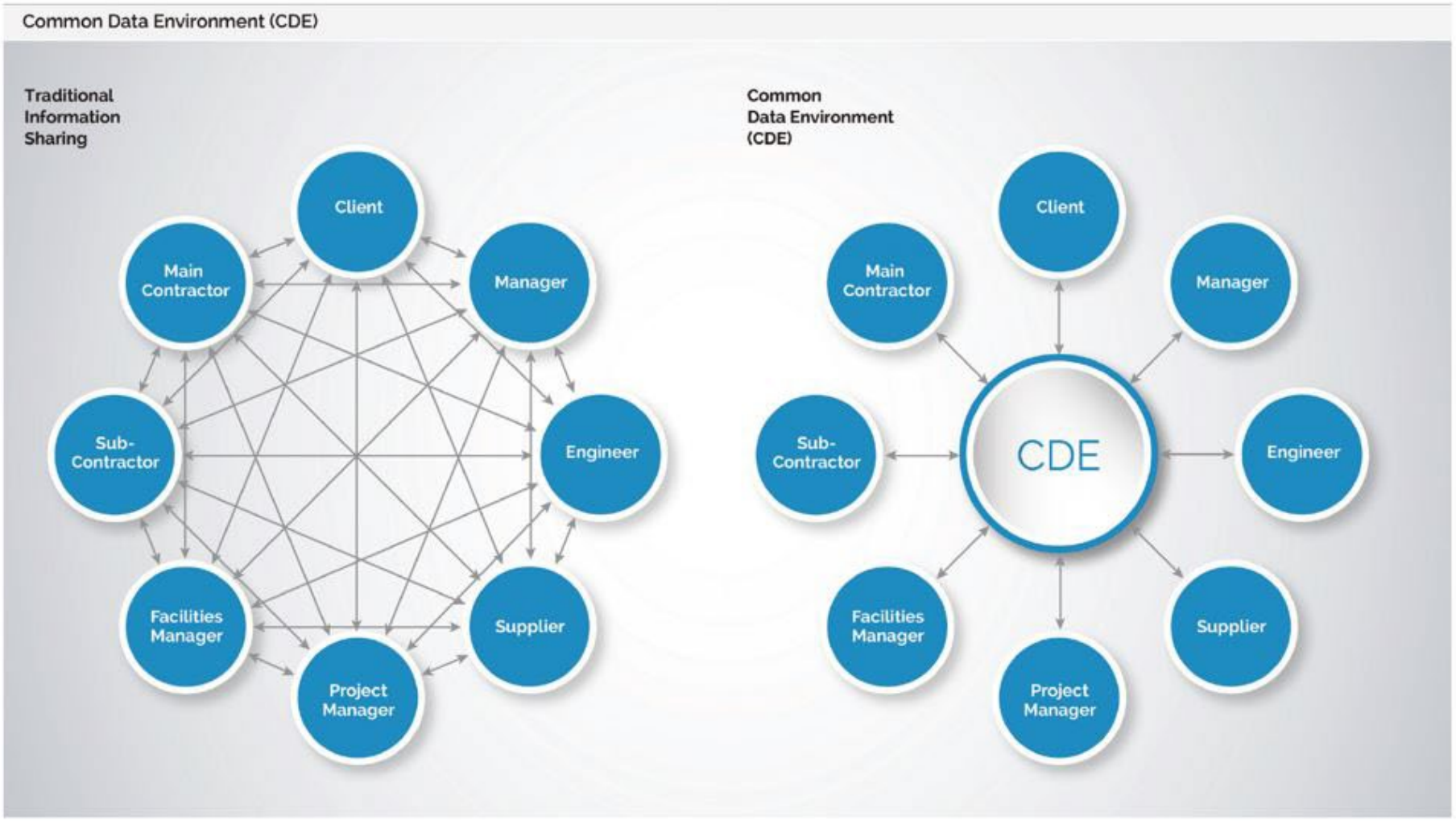
YATES

ENR TOP 400

# 29 Top 400 Contractors	# 21 New Contracts
# 12 Domestic Building	# 18 Top 50 in Industrial Process

Source: Engineering News-Record (ENR), The Top 400 Contractors Sourcebook 2024

Common Data Environments (CDE)



Common Data Environments

AUTODESK®
CONSTRUCTION
CLOUD

Trimble | ProjectSight

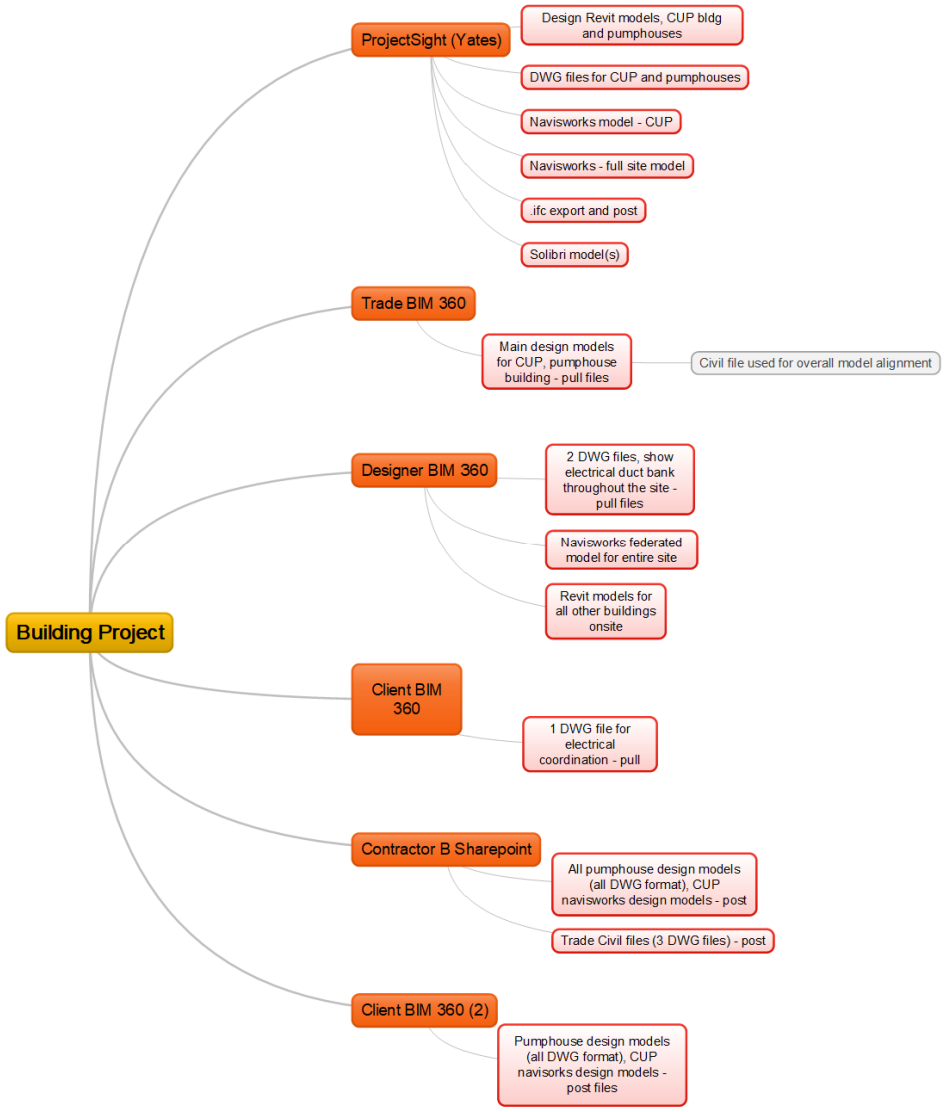
Trimble Connect

SharePoint

aconex

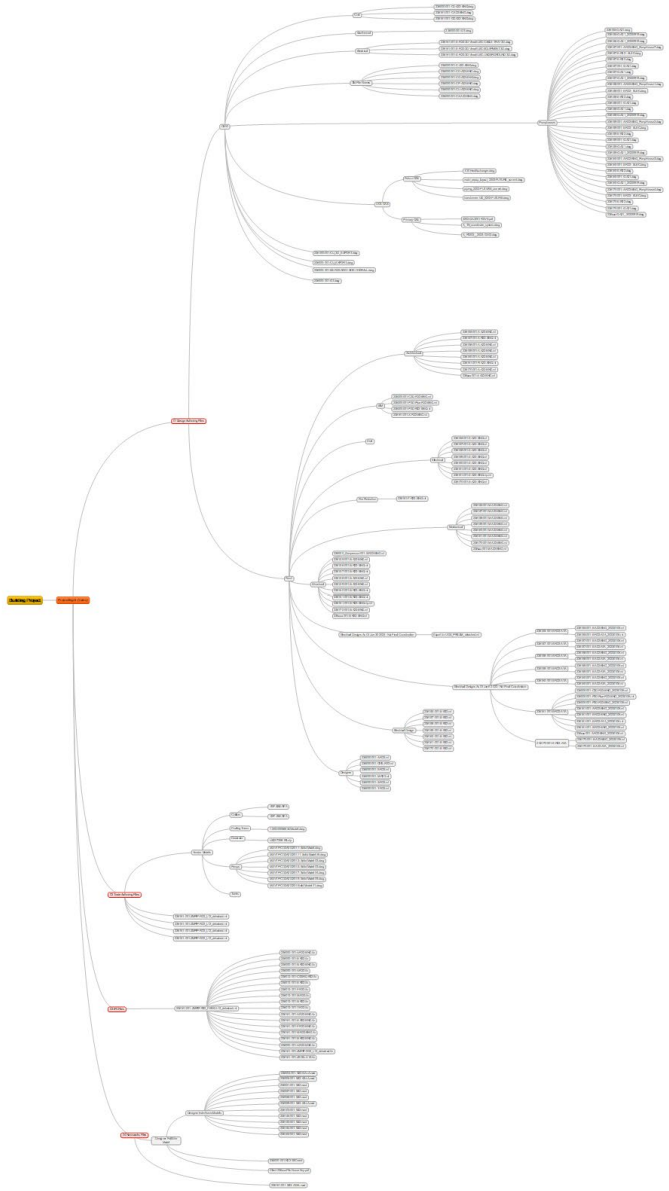
PROCORE®

CDE - Example



- Multiple CDEs (Designer, Owner, Contractor, Trade Partner)

CDE - Example



- Files from just one CDE

PM Side of the Equation

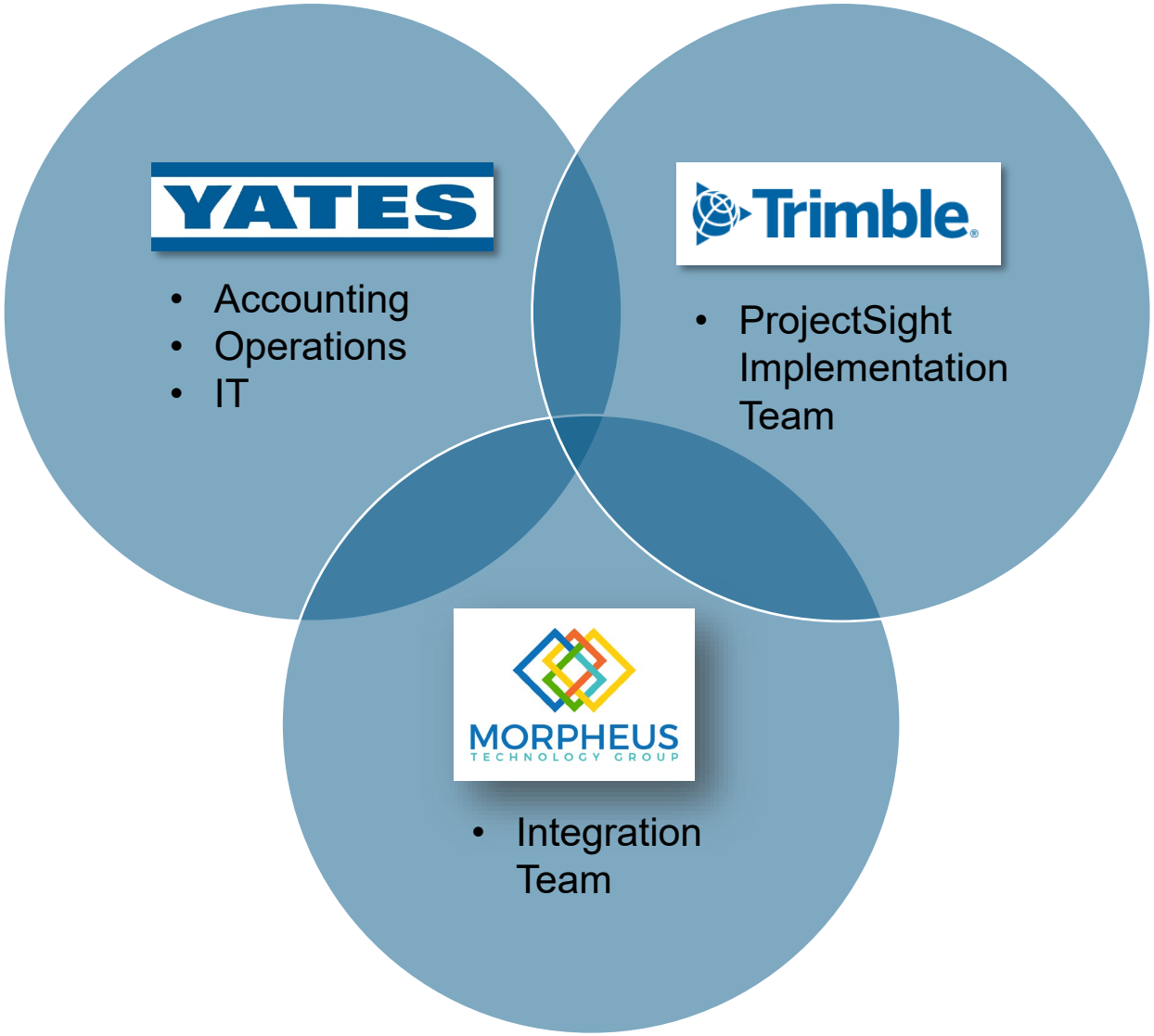
Cost Control & Financial Accountability

Accurate and accessible change management logs

Keep Accountants in Vista and Project Managers in ProjectSight

Eliminate Duplicate Data Entry

ProjectSight & Morpheus Deployment



Workflows & Business Processes

MORPHEUS TECHNOLOGY GROUP

Companies

Projects

Owner Contract

Phases

Budgets

Vista

(Accounting)

ProjectSight

(Operations)

Workflows & Business Processes

MORPHEUS TECHNOLOGY GROUP

Vista

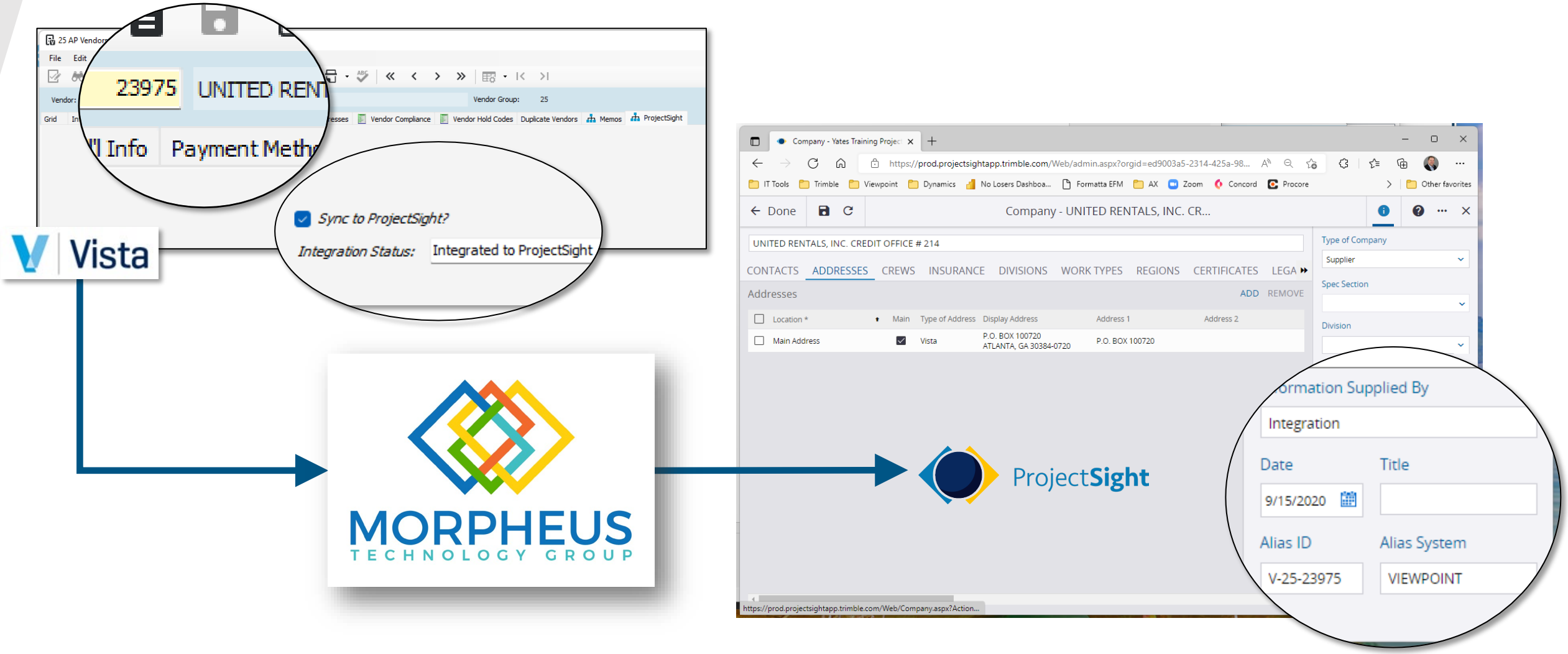
(Accounting)

- Contracts
- Budget Revisions
- Commitment COs
- Owner Change Orders

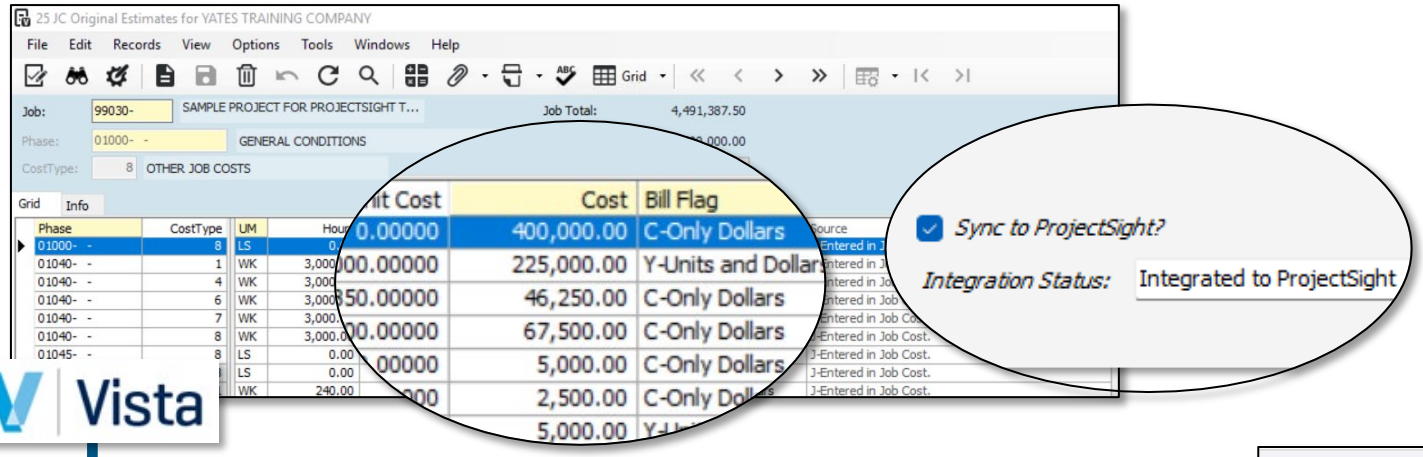
ProjectSight

(Operations)

Vendor Integration

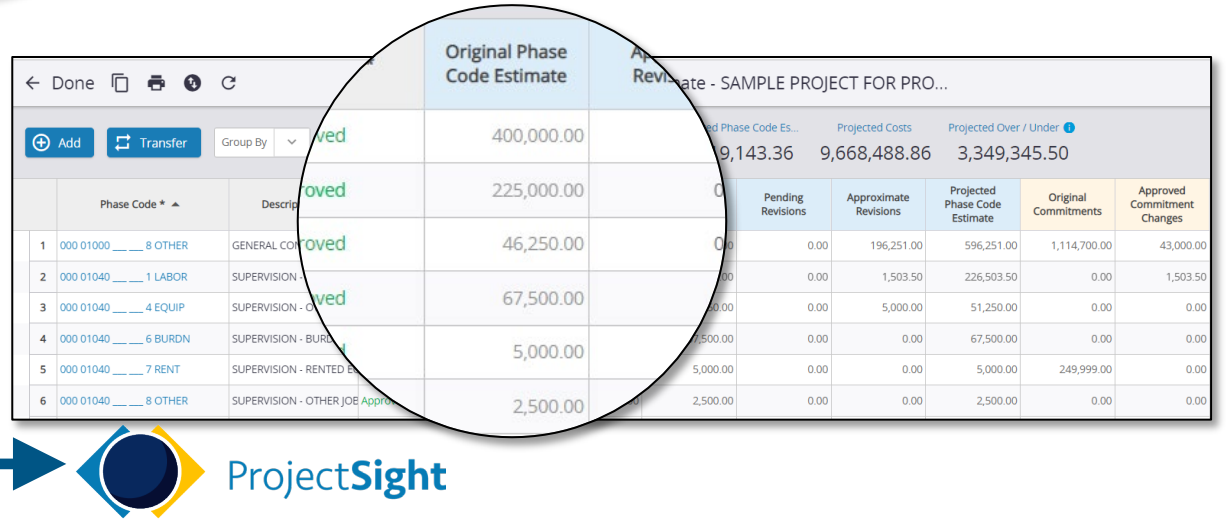


Job/Phase/Budget Integration



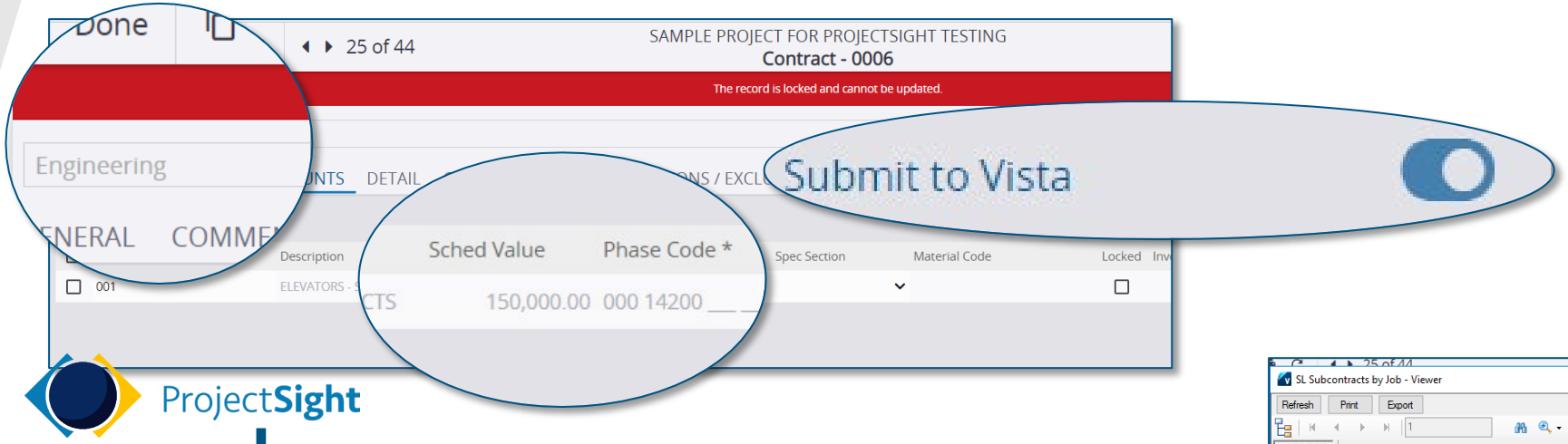
Vista

MORPHEUS TECHNOLOGY GROUP



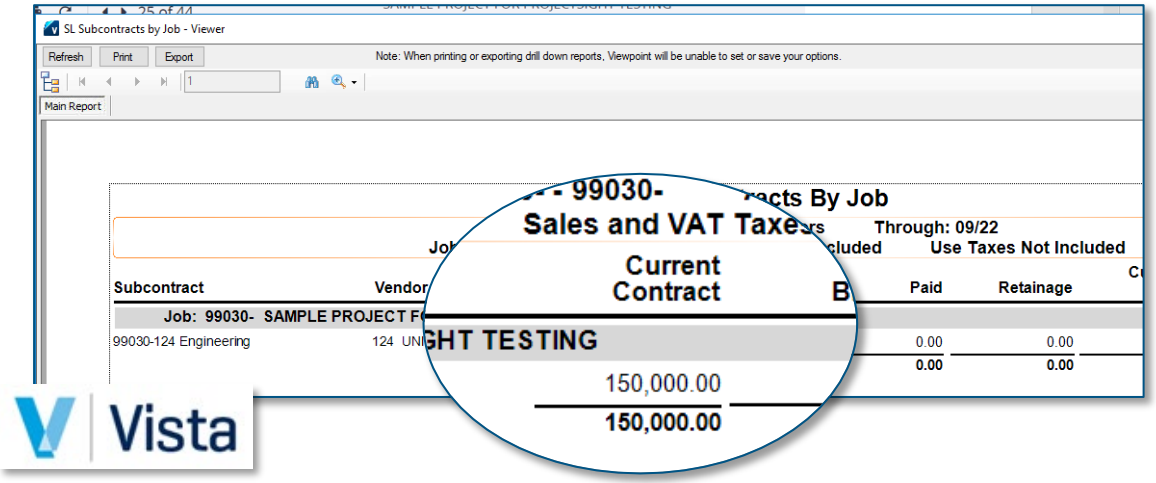
ProjectSight

Contract Integration



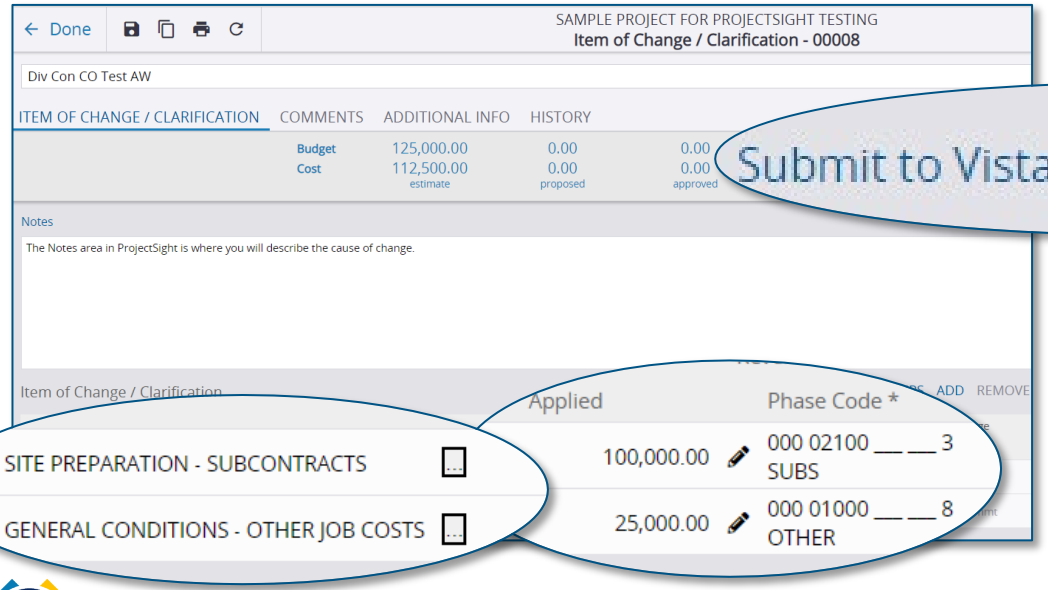
ProjectSight

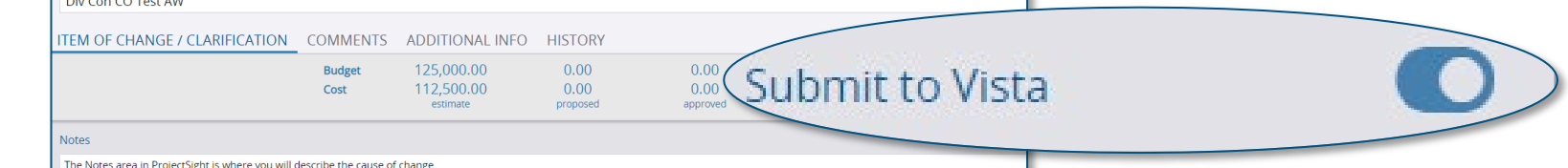
MORPHEUS TECHNOLOGY GROUP



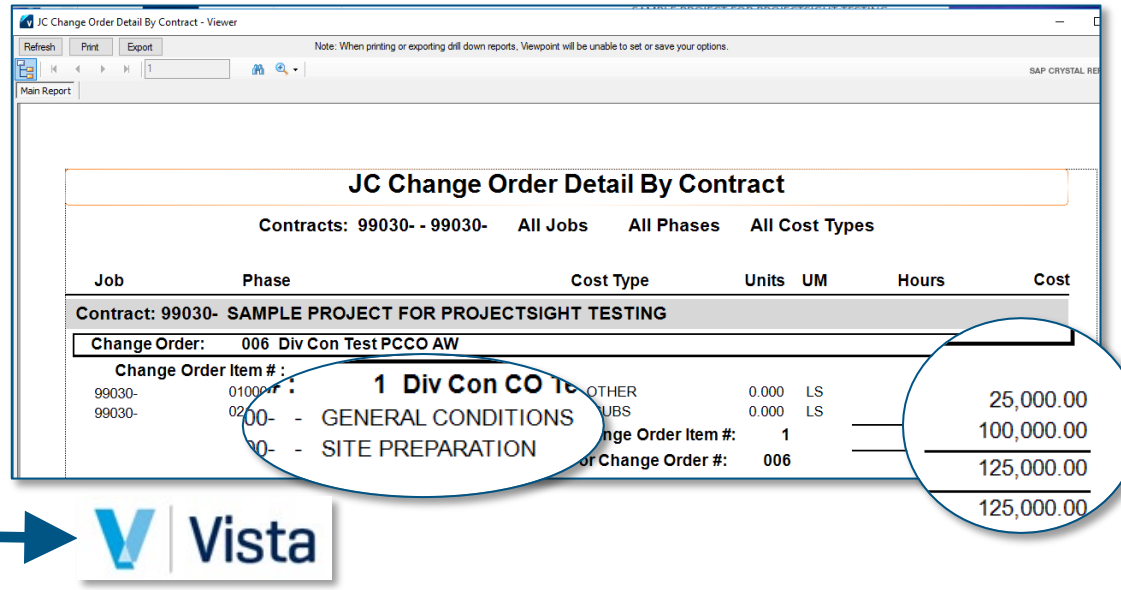
Vista

Change Order Integration



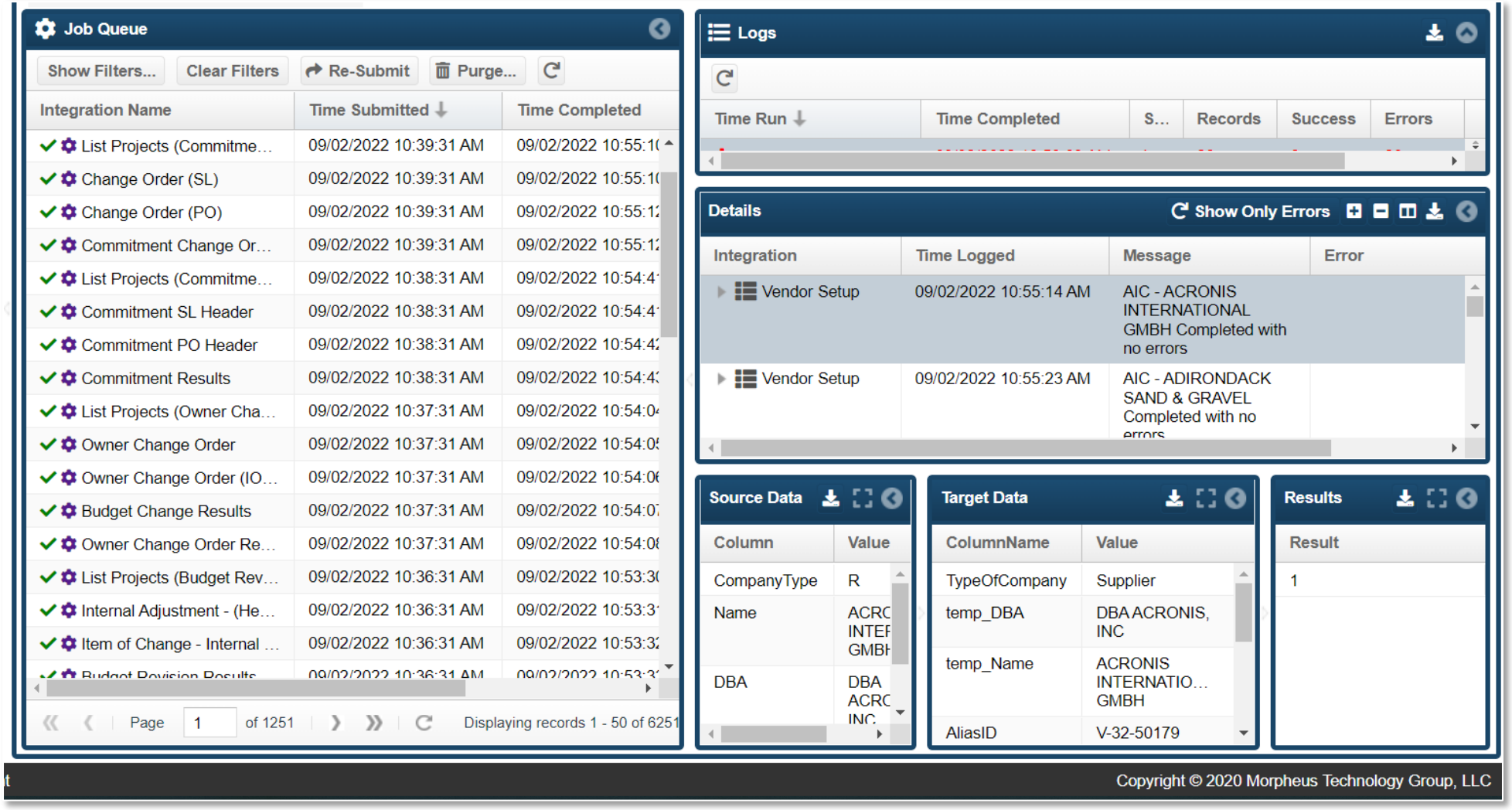


ProjectSight



Vista

Under the Hood



Benefits & Advantages

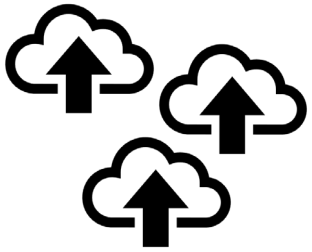
We now have standard, easily accessible Change Logs – No more spreadsheets!

Duplicate Data entry has been eliminated

Project Managers can work in ProjectSight, Accounting can work in Vista

VDC Side of the Equation

VDC for Coordination: Current Process



Each discipline creates model

Exports to common format

Each discipline uploads to web

Download from web

Files are in the right place

Clash model, create report

Coordination meeting

Create discipline specific models – ALL AT SAME ORIGIN POINT

Take action to export model and save file to computer

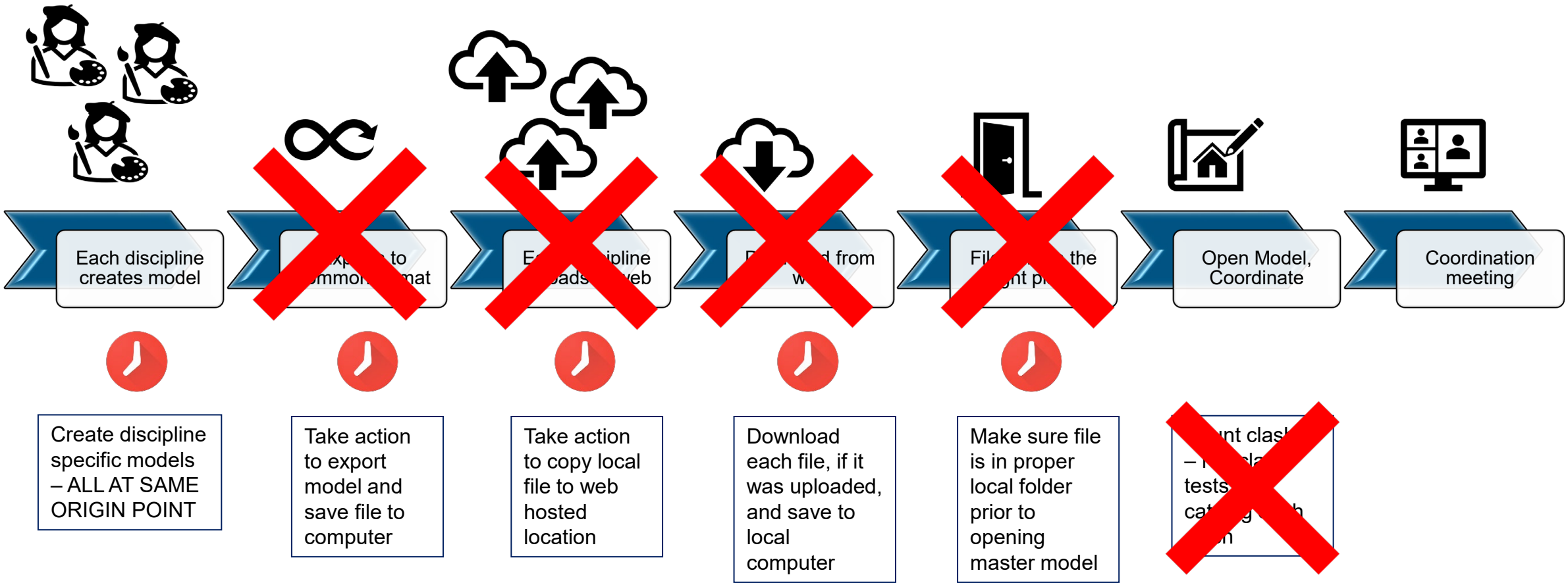
Take action to copy local file to web hosted location

Download each file, if it was uploaded, and save to local computer

Make sure file is in proper local folder prior to opening master model

Count clashes – run clash tests and catalog each clash

VDC for Coordination: Better Process



VDC Digital Workflow

Architect

Design Consultants

Trade Contractors (in Revit)

Trade Contractors (in CAD)

Authoring Models

Autodesk Construction Cloud (ACC)

ACC Model Coordination

NAVISWORKS

Automated process to export models and create a federated model

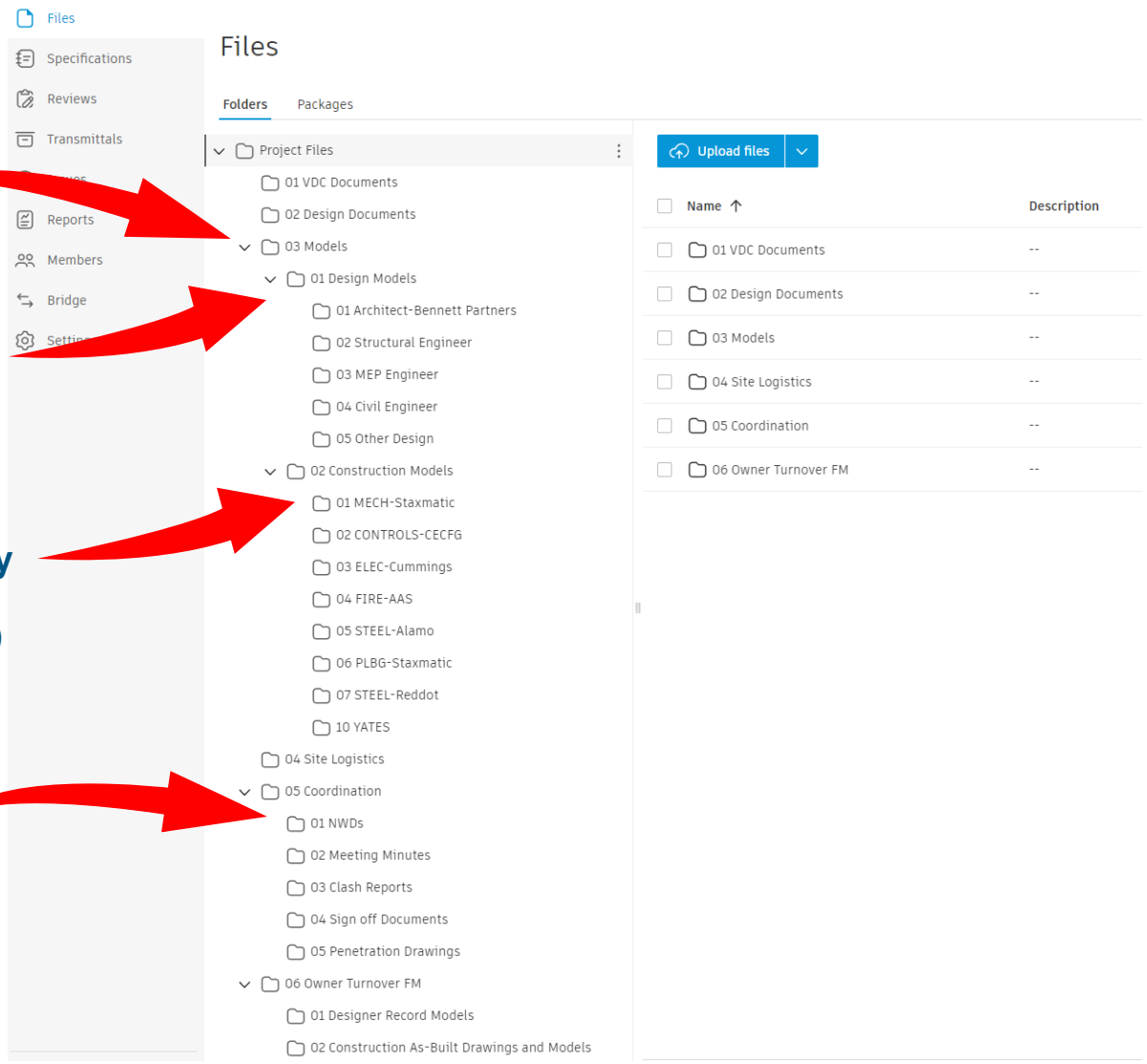
Autodesk Construction Cloud

ACC “Coordination Space” finds models here…

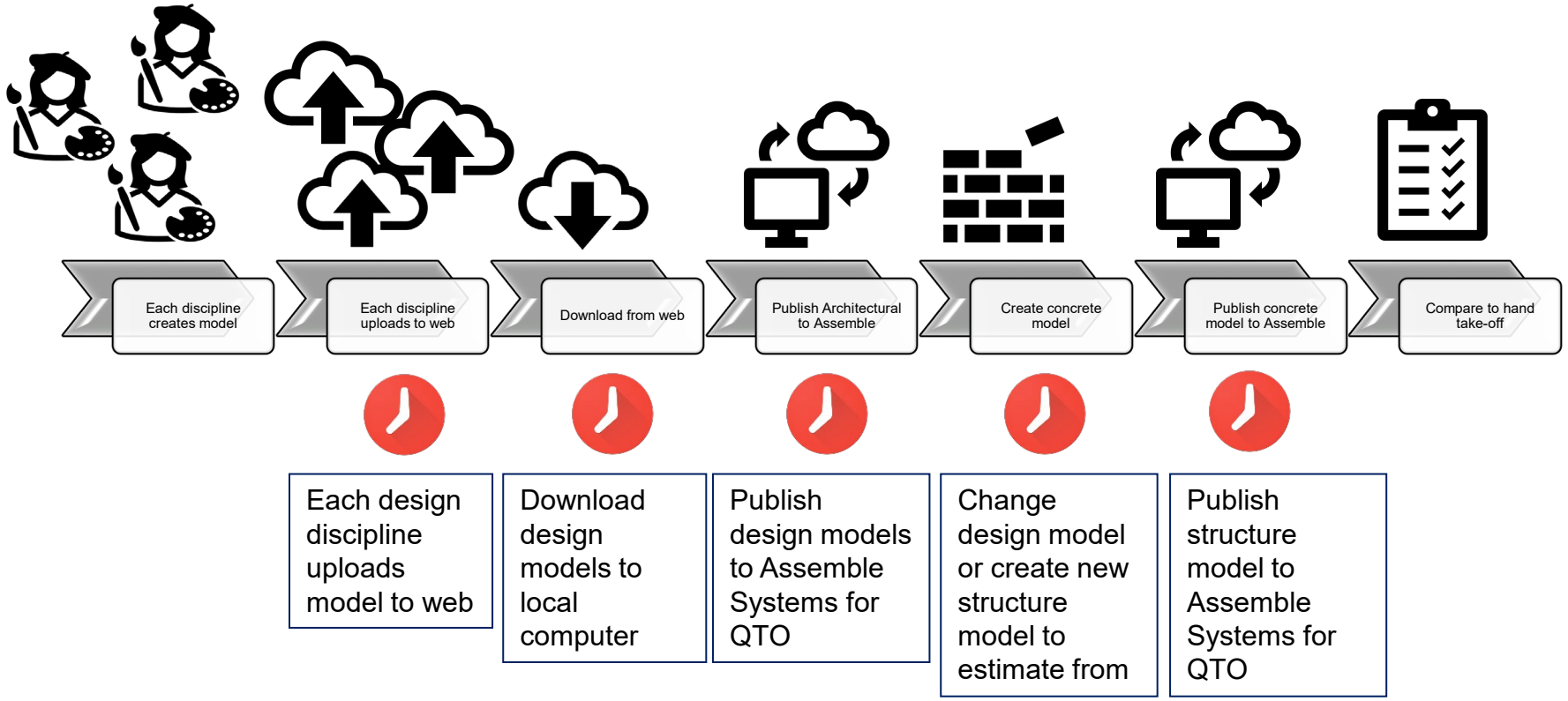
“Bridged” from Design ACC hub

Permissions set by folder (view, download, upload)

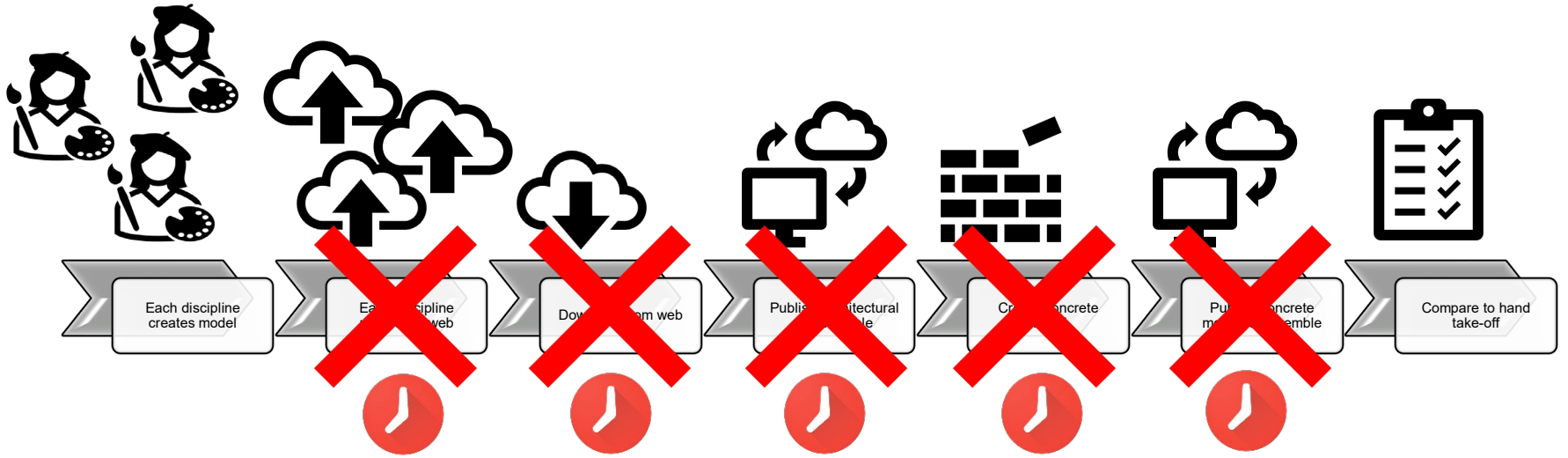
Weekly coordination models here…



VDC for Preconstruction



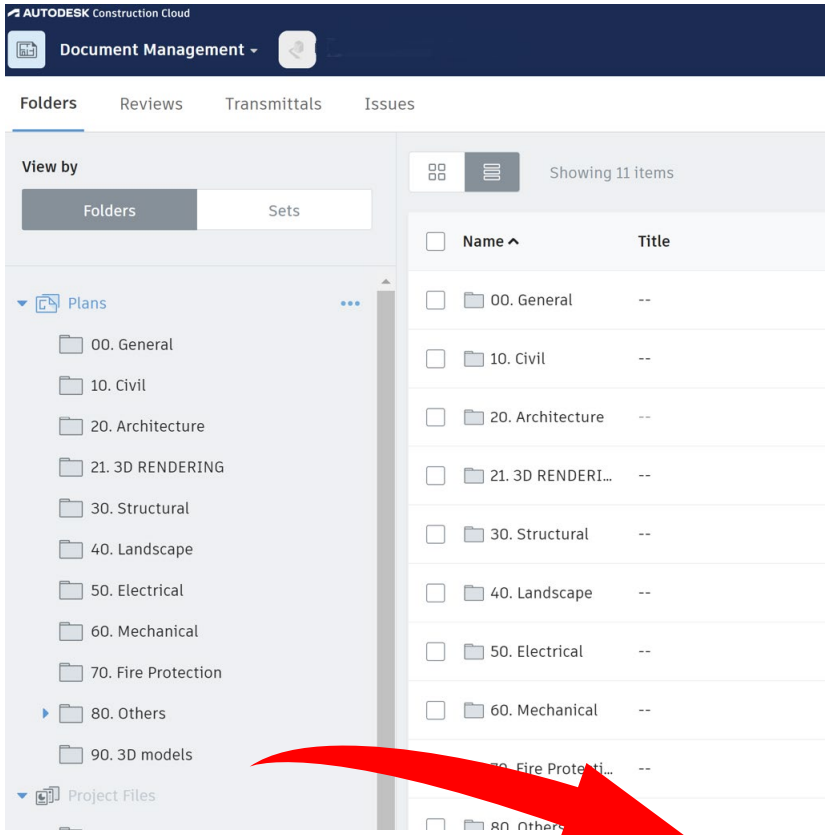
VDC for Preconstruction



Within model, publish to web

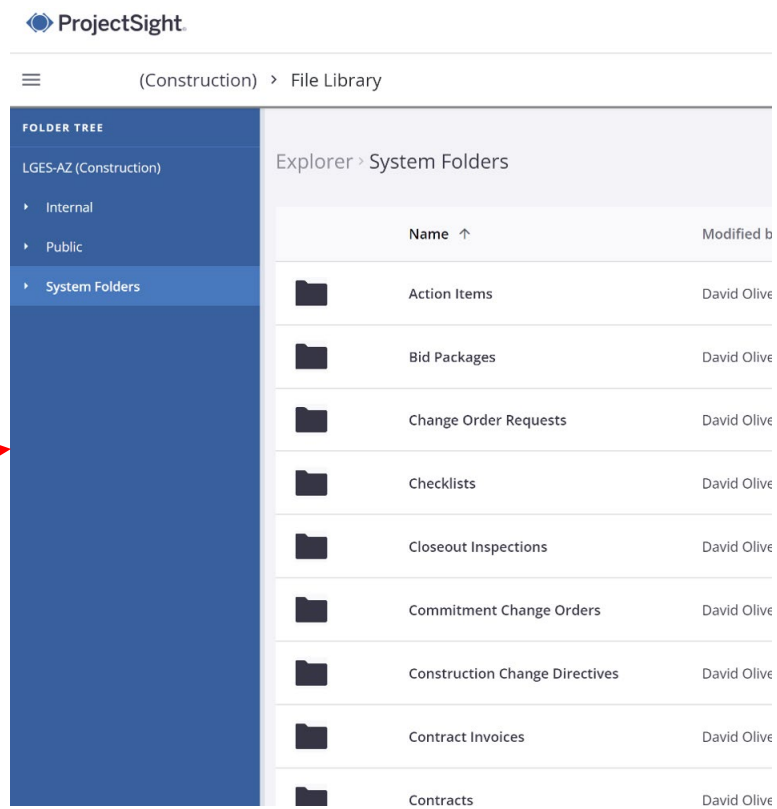
Open Assemble to compare quantities

Model Storage and Coordination



Models are to reside in BIM 360, utilizing Model Coordination workflow.

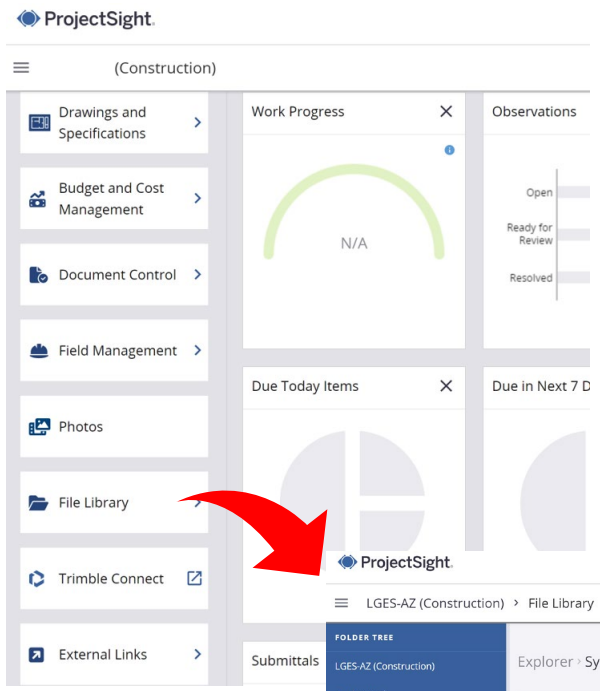
Yates Document Control



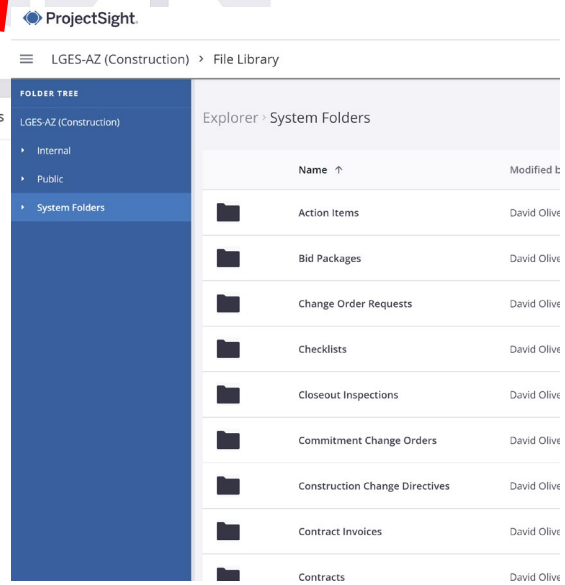
Models are to be archived in ProjectSight.

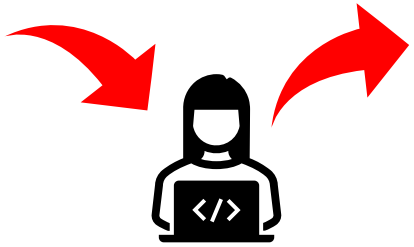
YATES CONSTRUCTION

Document Control: Document Storage

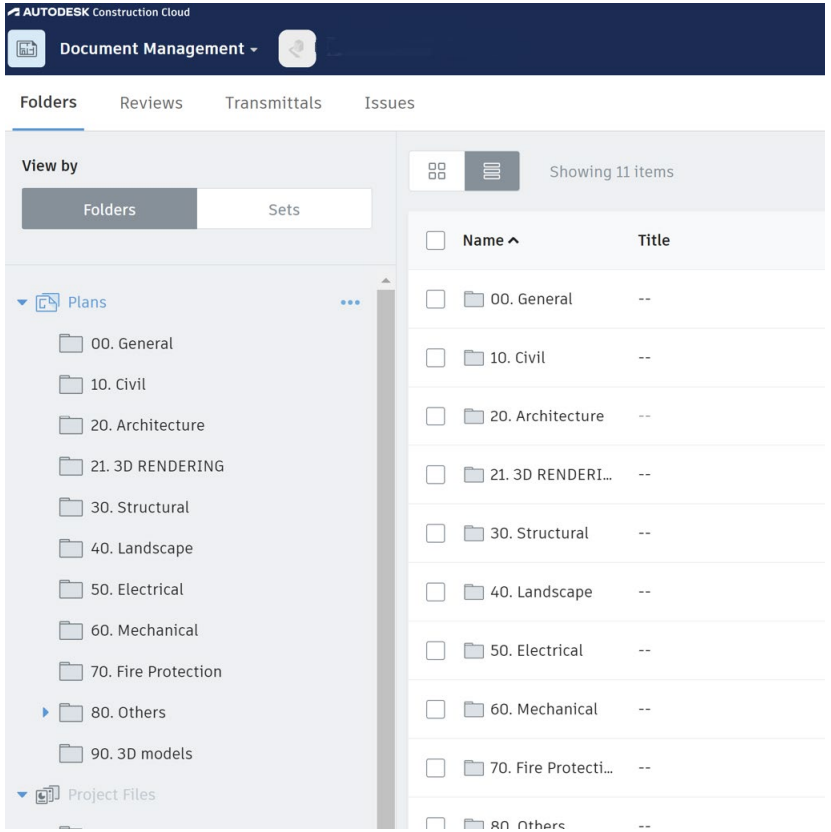


File Library folders will be downloaded using Trimble Sync.





Yates Document Control



Files will be uploaded weekly to BIM360 via Autodesk Desktop Connector.

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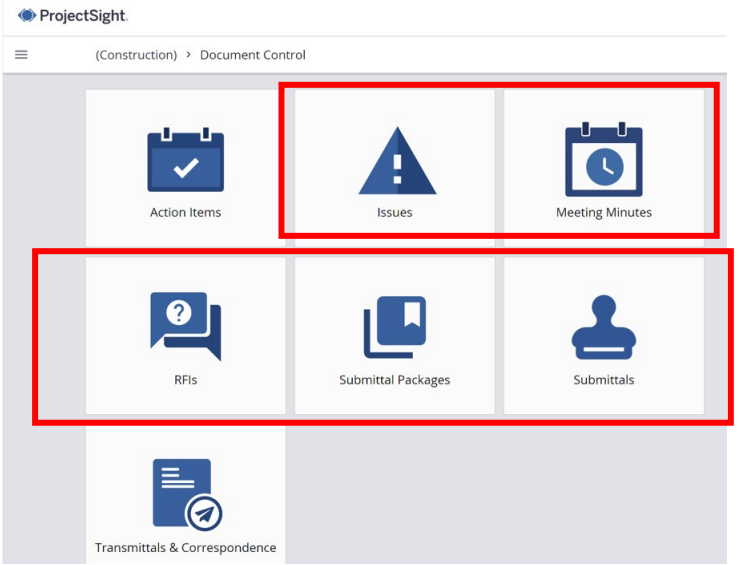
Document Control: Issues, RFIs, & Meeting Minutes

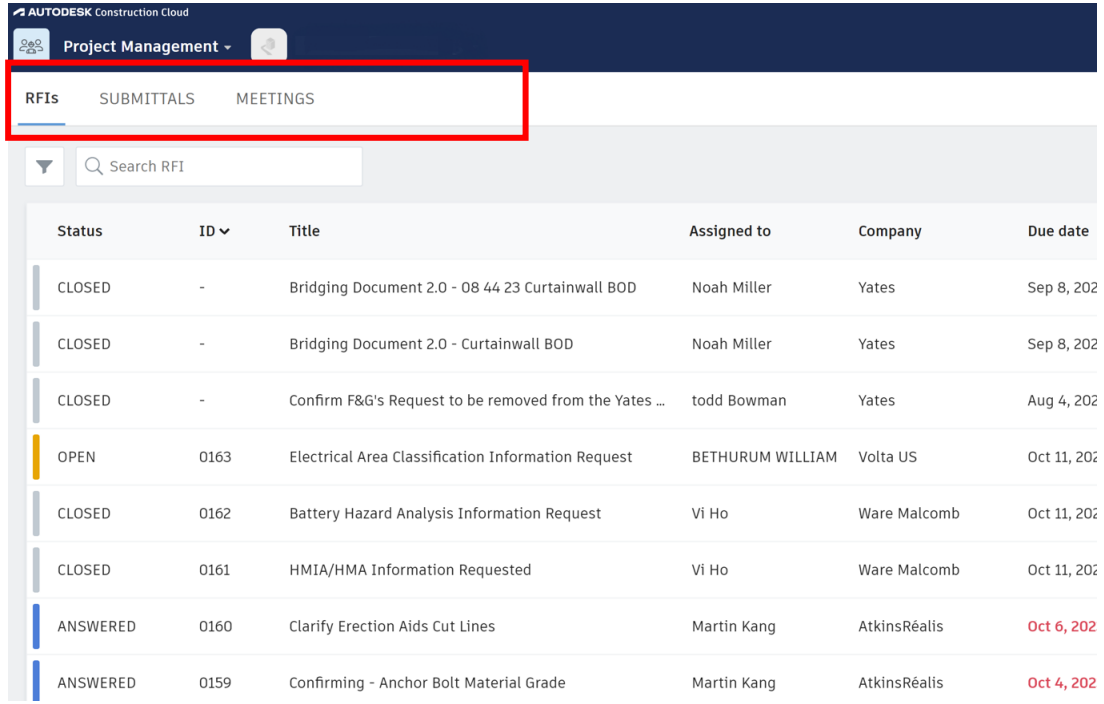


Issues, RFIs, Submittals & Meeting Minutes

All four categories will be initiated in ProjectSight and then be uploaded to their respective BIM360 modules.

Files will be uploaded to BIM 360 weekly manually by Document Control.

Yates Document Control



Status	ID	Title	Assigned to	Company	Due date
CLOSED	-	Bridging Document 2.0 - 08 44 23 Curtainwall BOD	Noah Miller	Yates	Sep 8, 202
CLOSED	-	Bridging Document 2.0 - Curtainwall BOD	Noah Miller	Yates	Sep 8, 202
CLOSED	-	Confirm F&G's Request to be removed from the Yates ...	todd Bowman	Yates	Aug 4, 202
OPEN	0163	Electrical Area Classification Information Request	BETHURUM WILLIAM	Volta US	Oct 11, 202
CLOSED	0162	Battery Hazard Analysis Information Request	Vi Ho	Ware Malcomb	Oct 11, 202
CLOSED	0161	HMIA/HMA Information Requested	Vi Ho	Ware Malcomb	Oct 11, 202
ANSWERED	0160	Clarify Erection Aids Cut Lines	Martin Kang	AtkinsRéalis	Oct 6, 202
ANSWERED	0159	Confirming - Anchor Bolt Material Grade	Martin Kang	AtkinsRéalis	Oct 4, 202

YATES CONSTRUCTION