CITA TECH LIVE

From Construction to Operations: An Intelligent Asset Journey with Copilot

Nov 12th 2026

Ciaran Mc Loughlin – NTI Group

Jonathan Reinhardt – NTI Group

NTI'S GLOBAL PRESENCE

15 countries

+1300 employees



EMEA ADSK Partner Rank	In Business	Customers
1	+40 years	+35,000

OUR ‘6-PILLARS’ OF CONSULTANCY EXPERTISE



Expert Advisory

- Digital Transformation
- Digital Strategy
- C Suite Advisory
- Business Planning
- Business Strategy



BIM Consulting

- ISO19650
- Gaps Analysis
- Process Review
- Model Reviews
- BIM Expertise
- SOP Writing
- ISO Training
- BIM Mandate Support
- BIM Management
- BIM Modelling



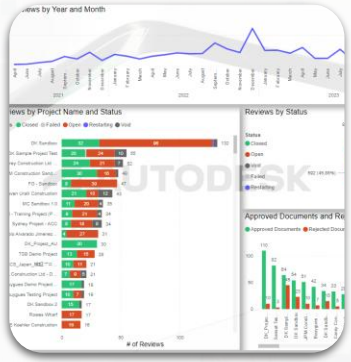
Bespoke API Integrations & Development Services

- Automations
- Integrations
- ACC Connect
- ACC to ERP System
- SharePoint Integrations
- ACC to Procore Integrations
- Airtable
- MS Power Apps



Autodesk Forma (Formerly ACC)

- Implementation
- Configuration
- Training
- Project Managed Adoption
- System Optimisation
- Focused Workflow Sprints
- Documented Processes
- Integrations



AI & Data Analytics

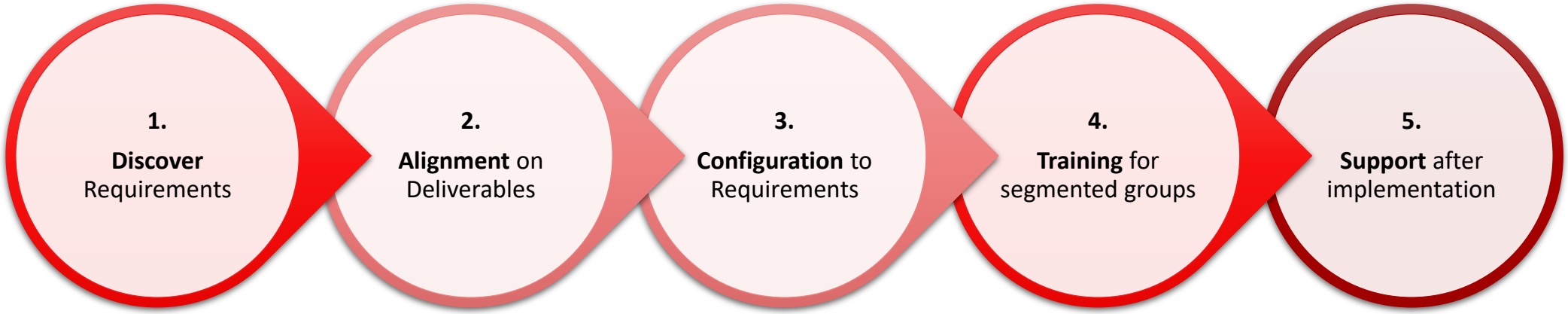
- Dashboard Production
- AI enabled analysis
- Data Federation
- Data Strategy
- Report Building
- Advanced Excel
- Microsoft Power BI
- Tableau
- ACC / Quicksight
- Revit Health Check
- BIM Dashboards



Autodesk Consulting

- Desktop Product Training
- Configuration
- Implementation
- Usage Analysis
- License Review
- Architecture
- MEP
- Civil Engineering
- Structural Engineering
- Process Engineering

‘5-STEP’ STANDARD APPROACH FOR ALL CONSULTANCY PROJECTS…



Agree on deployment goals, tactical details and measures

- ✓ Meet Customer and Set Deployment Goals
- ✓ Identify Stakeholders and Key Users (Champions)
- ✓ Review Solution Components
- ✓ Set Success Measures

Prepare your stakeholders and Key Users (Champions)

- ✓ Review Solution and Gather Input from Stakeholders and Champions
- ✓ Prepare Stakeholders for Next Steps in Deployment

Configure solution and train your Key Users

- ✓ Configure Solution based on Alignment & Review
- ✓ Hands-On Technology and Workflow Training for Key Users

Support your Key Users and teams

- ✓ Collect Feedback and Success Measures
- ✓ Provide Additional Workflow Training and Documentation
- ✓ Carry Out Additional Solution Configuration

Review achievement of deployment goals and measures

- ✓ Review Deployment Achievements
- ✓ Review Success Measures



Project Managed Process

Ciaran Mc Loughlin



Technical Consultant

- Over a decade of experience in the Construction industry
- Cloud system configuration and implementation
- AEC design software
- BIM and VDC expert
- Management & Training of CDE’s

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Overview

Demonstrate how Microsoft Copilot can work alongside Autodesk Forma to automate asset management processes during project delivery and handover.
The solution focuses on reducing manual administration, improving data quality, and ensuring asset information is available within NTI FM immediately upon project completion.



Current Challenges

- Manual asset creation
- Manual Form Assignment
- Multiple Data Sources
- Manual Handover Packs
- Delayed FM Readiness

AI Solution

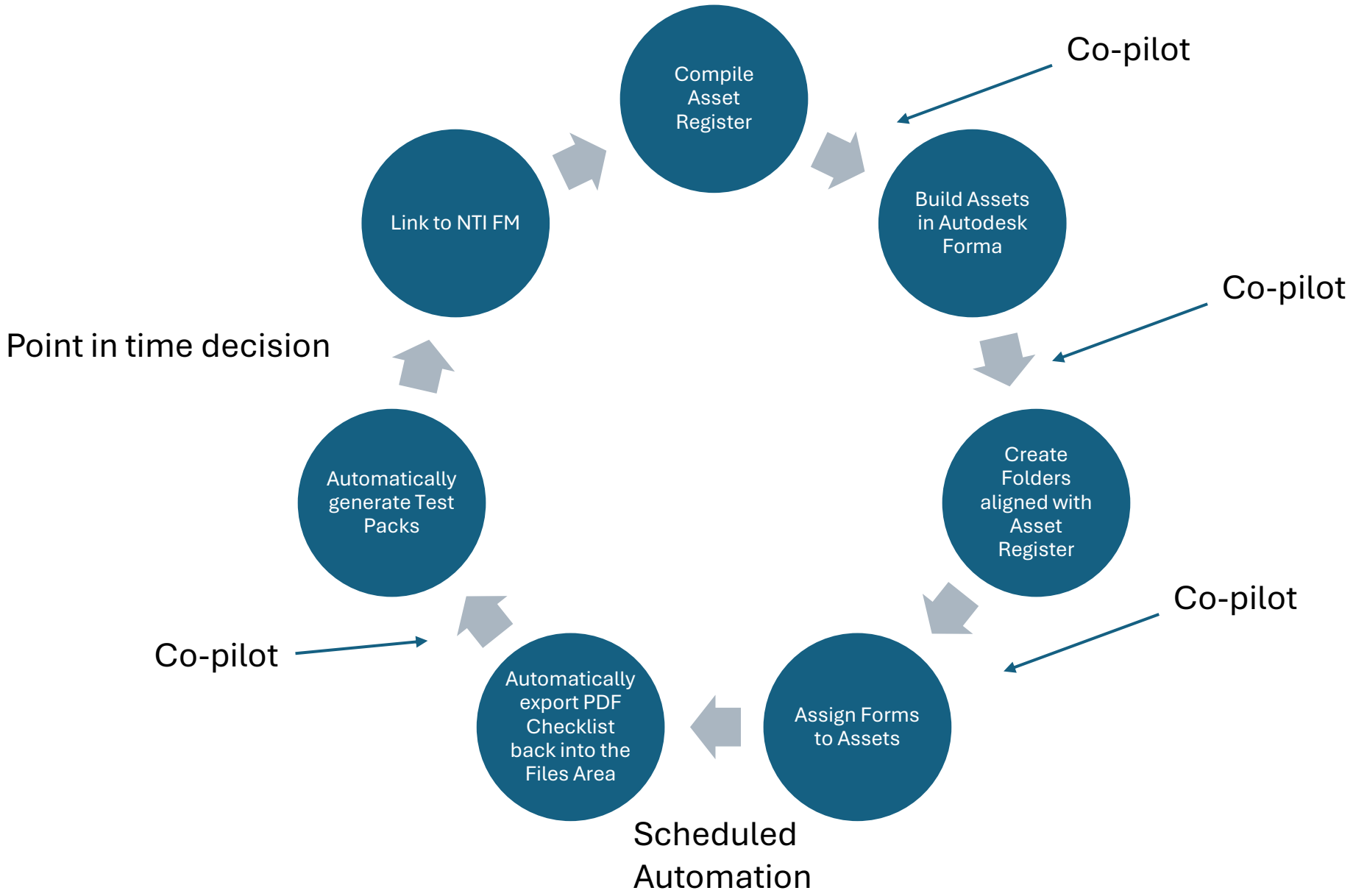
- Automated asset creation
- Auto-assign QA/Commissioning Forms
- Integrated Workflow
- Automated Handover
- Automated Folder creation

Business Benefits

- Reduced admin effort
- Improved data quality
- Single Source of truth
- Faster Project Handover
- Immediate Operational Readiness

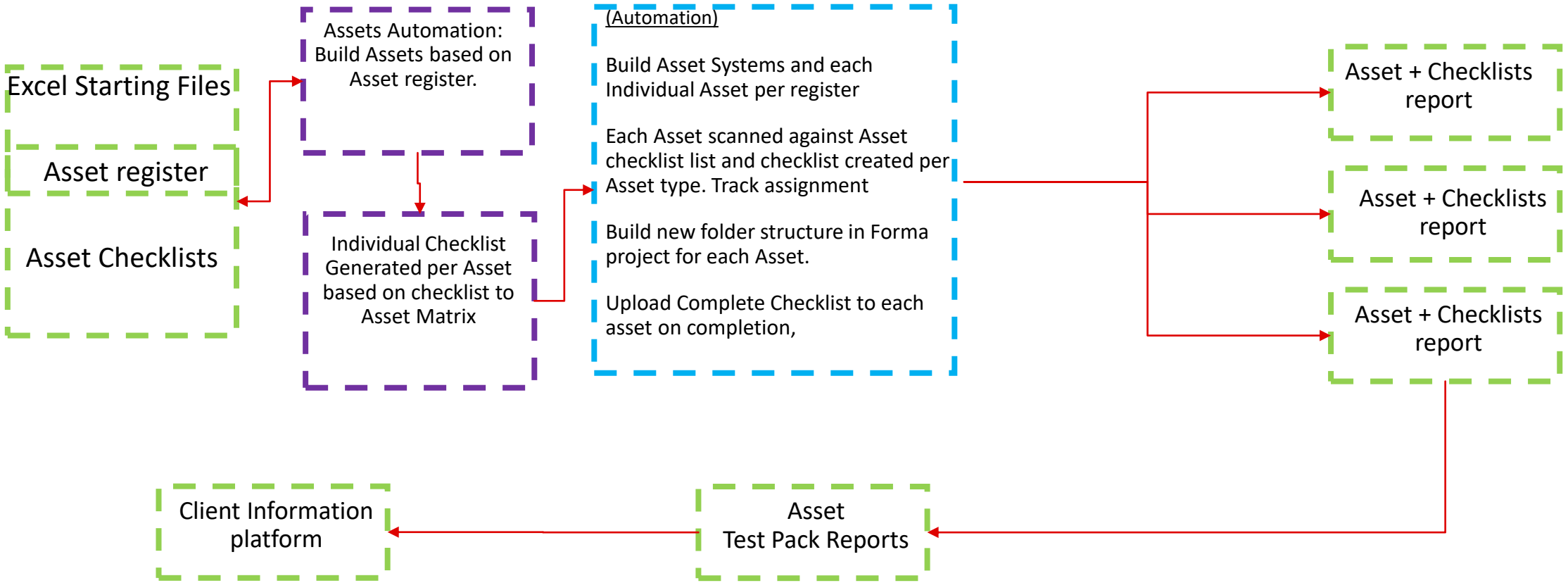
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POC of Asset Journey

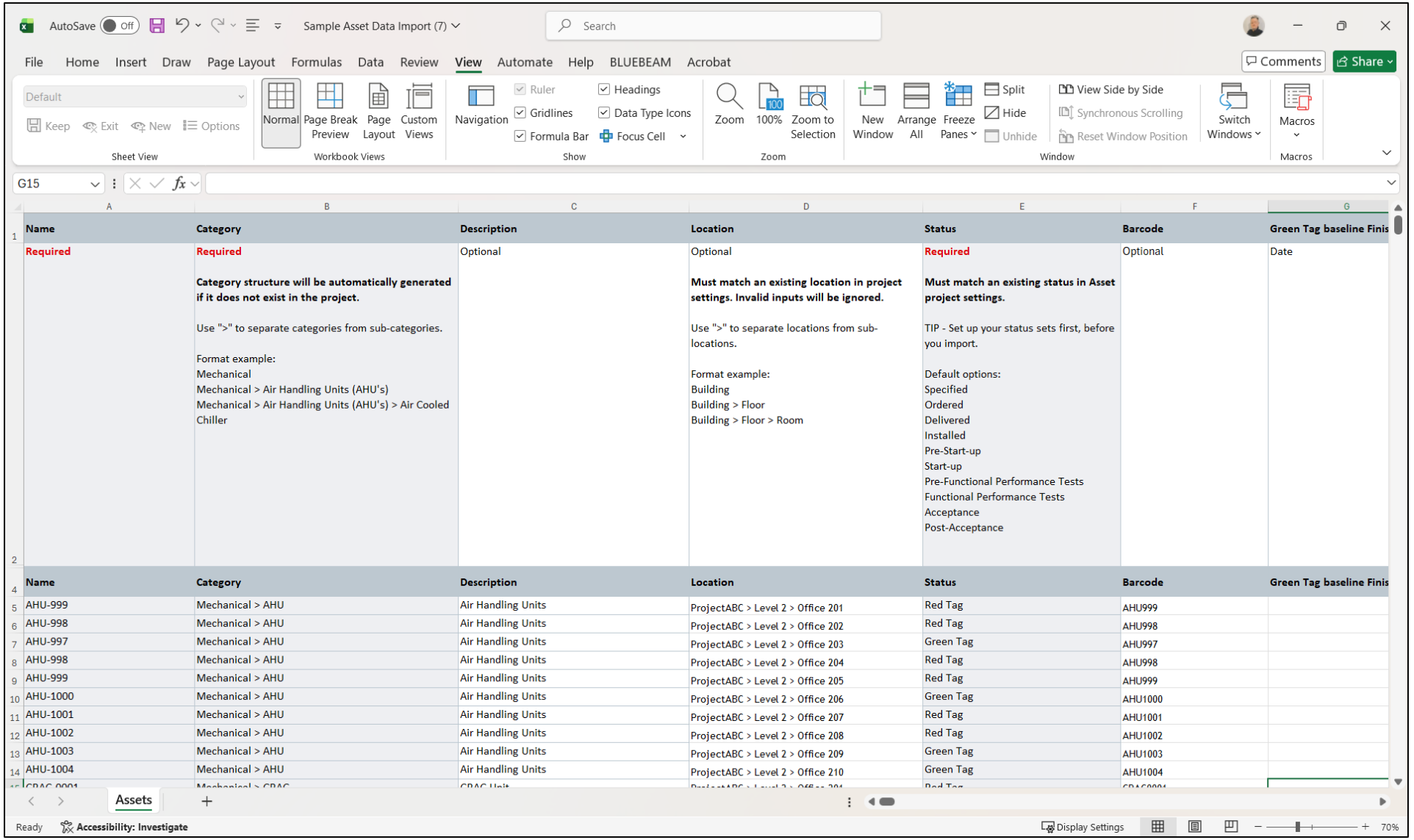


AUTOMATION REAL WORLD USE CASES AND OUTCOMES:

Scenario: Business case
Client wanted to Standardize the Process of setting out Asset and Commissioning methodology across their business.
The Challenge was Automating the creation of Asset registers against Process conventions, Applying the needed capture checklist against stage process and collecting completed checklist and other needed detail for migration to client systems as a handover deliverable.

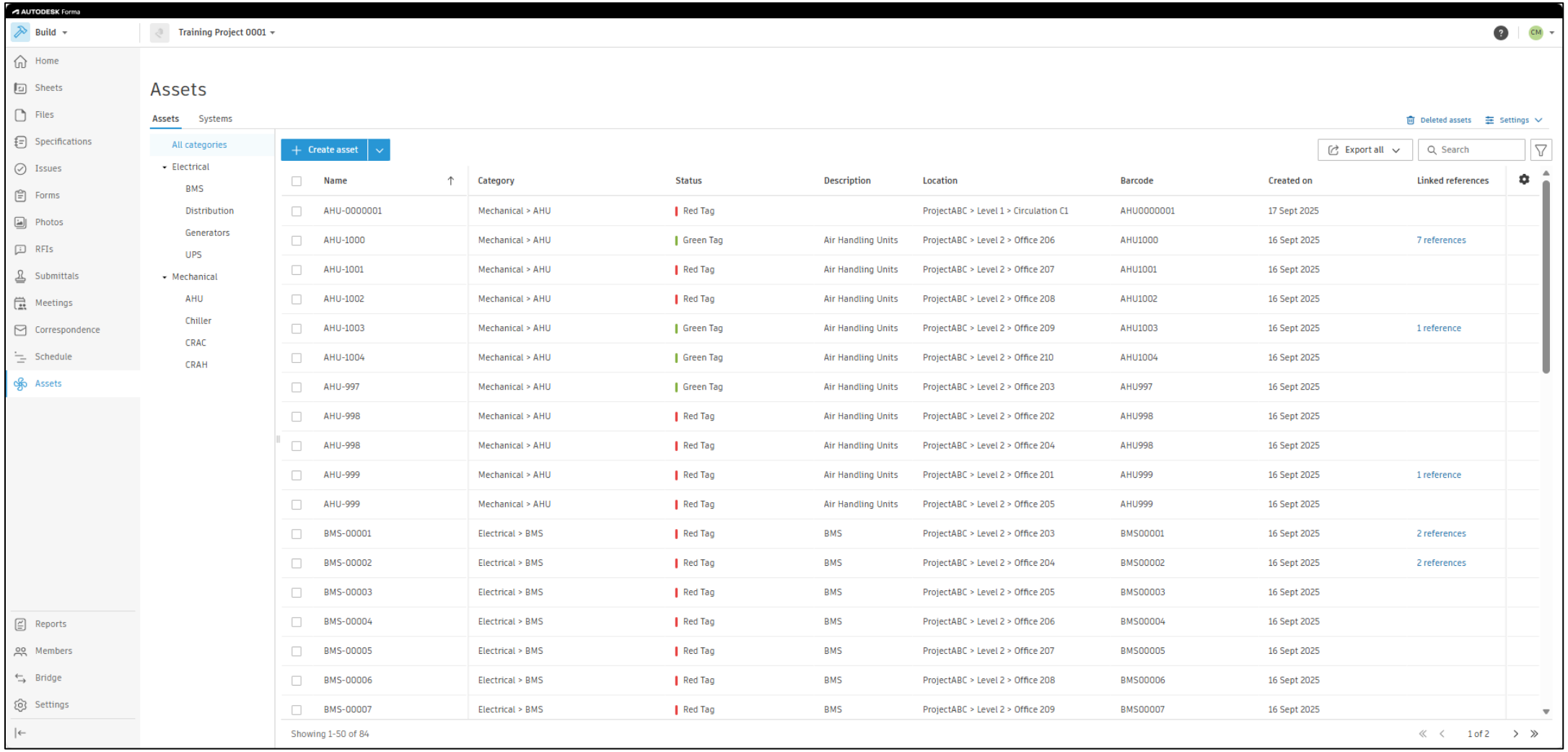


Asset Register

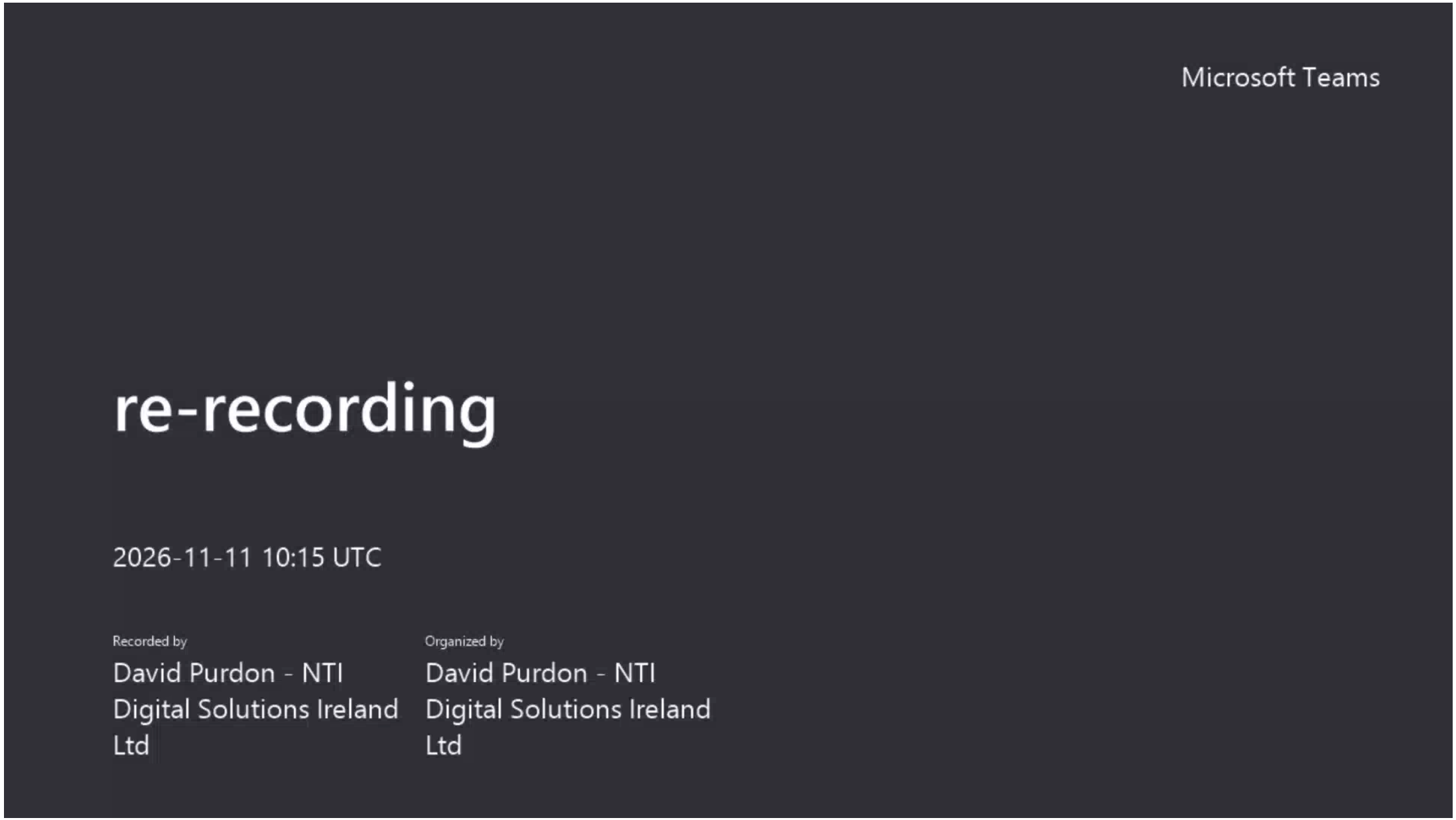


	A	B	C	D	E	F	G
1	**Name**	**Category**	**Description**	**Location**	**Status**	**Barcode**	**Green Tag baseline Finis**
2	Required	Required **Category structure will be automatically generated if it does not exist in the project.** Use ">" to separate categories from sub-categories. Format example: Mechanical Mechanical > Air Handling Units (AHU's) Mechanical > Air Handling Units (AHU's) > Air Cooled Chiller	Optional	Optional **Must match an existing location in project settings. Invalid inputs will be ignored.** Use ">" to separate locations from sub-locations. Format example: Building Building > Floor Building > Floor > Room	Required **Must match an existing status in Asset project settings.** TIP - Set up your status sets first, before you import. Default options: Specified Ordered Delivered Installed Pre-Start-up Start-up Pre-Functional Performance Tests Functional Performance Tests Acceptance Post-Acceptance	Optional	Date
4	**Name**	**Category**	**Description**	**Location**	**Status**	**Barcode**	**Green Tag baseline Finis**
5	AHU-999	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 201	Red Tag	AHU999	
6	AHU-998	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 202	Red Tag	AHU998	
7	AHU-997	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 203	Green Tag	AHU997	
8	AHU-998	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 204	Red Tag	AHU998	
9	AHU-999	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 205	Red Tag	AHU999	
10	AHU-1000	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 206	Green Tag	AHU1000	
11	AHU-1001	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 207	Red Tag	AHU1001	
12	AHU-1002	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 208	Red Tag	AHU1002	
13	AHU-1003	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 209	Green Tag	AHU1003	
14	AHU-1004	Mechanical > AHU	Air Handling Units	ProjectABC > Level 2 > Office 210	Green Tag	AHU1004	
15	CRAC-0001	Mechanical > CRAC	CRAC Unit	ProjectABC > Level 2 > Office 201	Red Tag	CRAC0001	

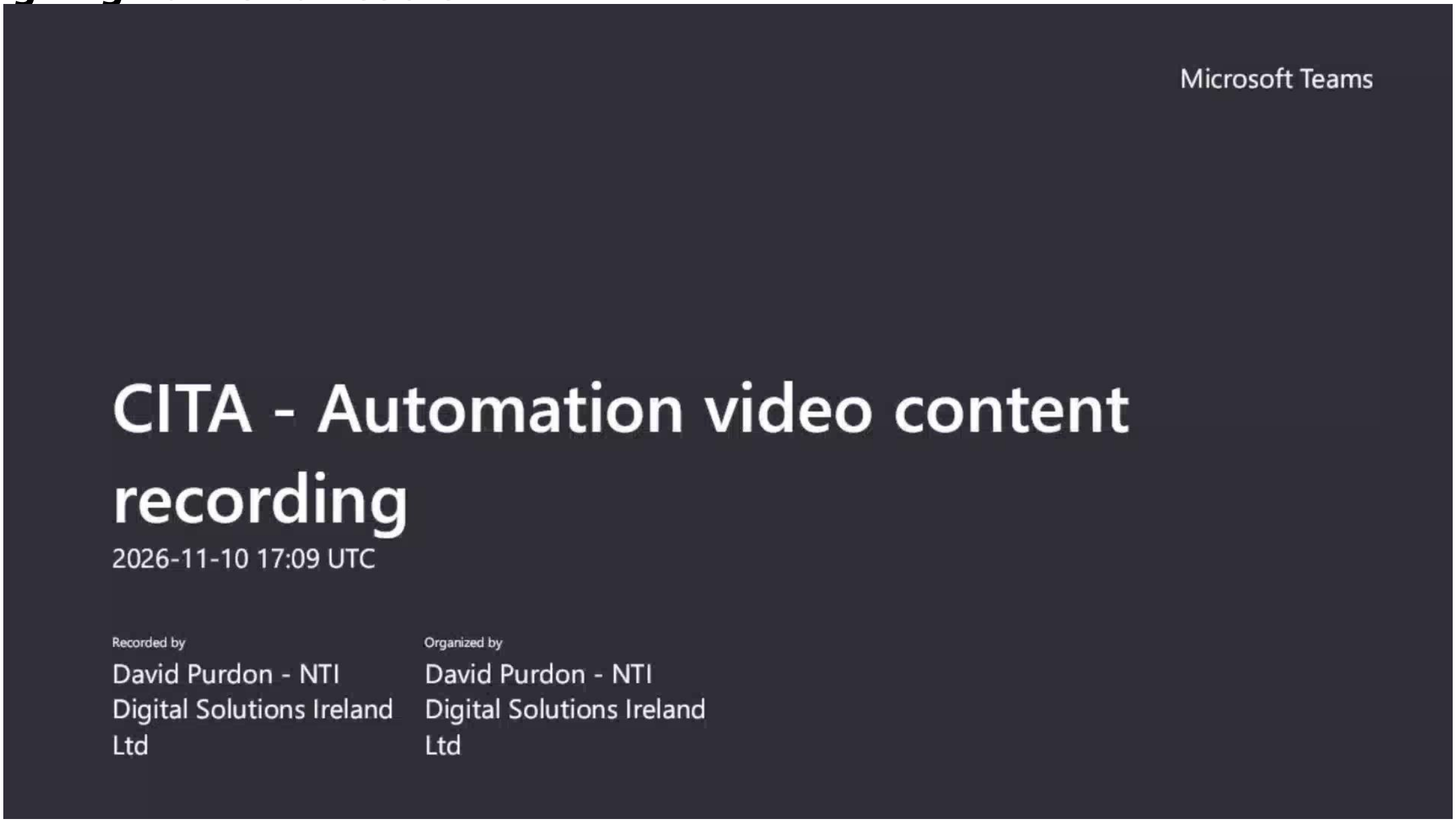
Asset On Autodesk Forma



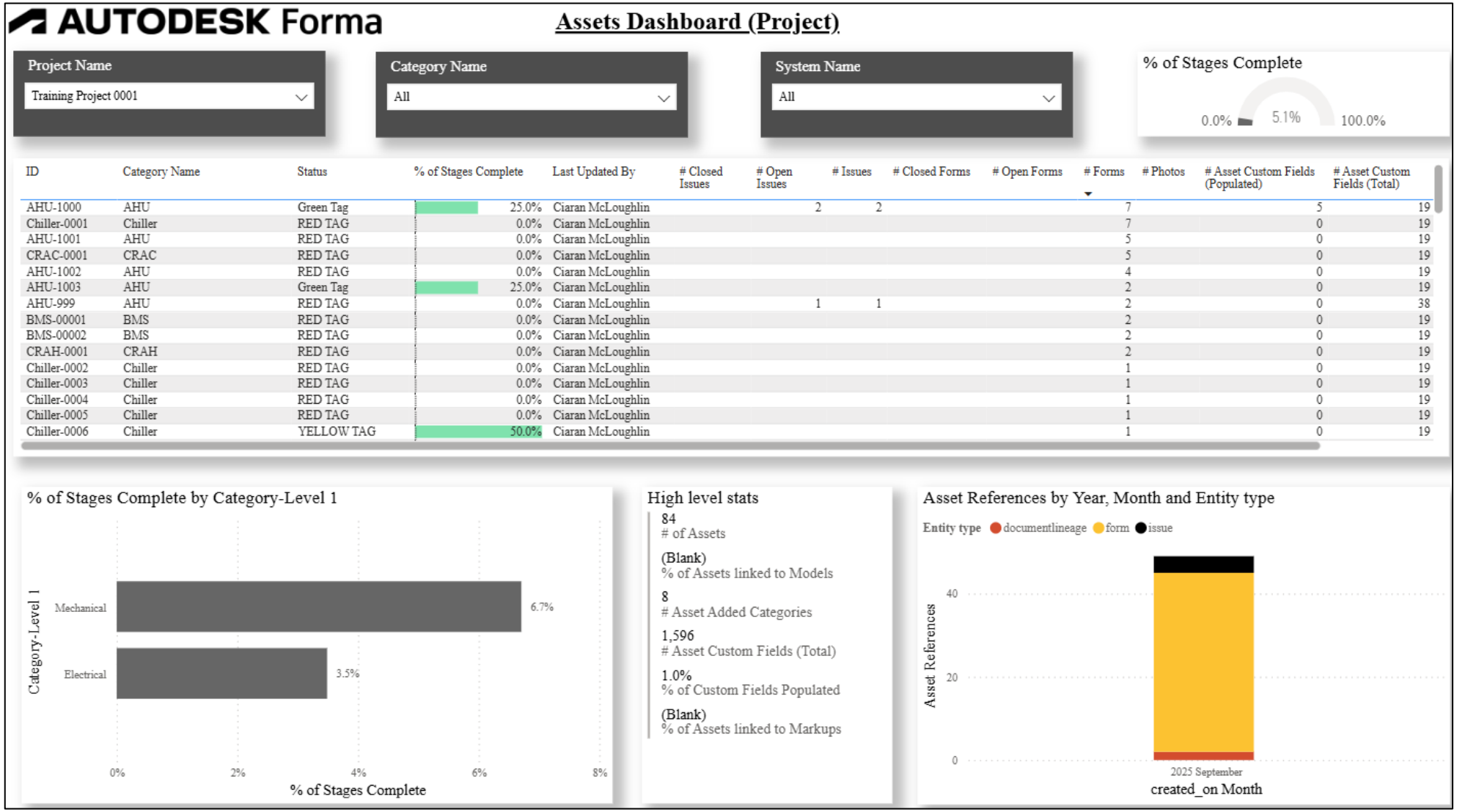
Creating Folders in the files area based of Asset Register



Assigning Forms to Assets



Asset Dashboard



ID	Category Name	Status	% of Stages Complete	Last Updated By	# Closed Issues	# Open Issues	# Issues	# Closed Forms	# Open Forms	# Forms	# Photos	# Asset Custom Fields (Populated)	# Asset Custom Fields (Total)
AHU-1000	AHU	Green Tag	25.0%	Ciaran McLoughlin		2	2			7		5	19
Chiller-0001	Chiller	RED TAG	0.0%	Ciaran McLoughlin						7		0	19
AHU-1001	AHU	RED TAG	0.0%	Ciaran McLoughlin						5		0	19
CRAC-0001	CRAC	RED TAG	0.0%	Ciaran McLoughlin						5		0	19
AHU-1002	AHU	RED TAG	0.0%	Ciaran McLoughlin						4		0	19
AHU-1003	AHU	Green Tag	25.0%	Ciaran McLoughlin						2		0	19
AHU-999	AHU	RED TAG	0.0%	Ciaran McLoughlin		1	1			2		0	38
BMS-00001	BMS	RED TAG	0.0%	Ciaran McLoughlin						2		0	19
BMS-00002	BMS	RED TAG	0.0%	Ciaran McLoughlin						2		0	19
CRAH-0001	CRAH	RED TAG	0.0%	Ciaran McLoughlin						2		0	19
Chiller-0002	Chiller	RED TAG	0.0%	Ciaran McLoughlin						1		0	19
Chiller-0003	Chiller	RED TAG	0.0%	Ciaran McLoughlin						1		0	19
Chiller-0004	Chiller	RED TAG	0.0%	Ciaran McLoughlin						1		0	19
Chiller-0005	Chiller	RED TAG	0.0%	Ciaran McLoughlin						1		0	19
Chiller-0006	Chiller	YELLOW TAG	50.0%	Ciaran McLoughlin						1		0	19

AUTOMATION REAL WORLD USE CASES AND OUTCOMES:

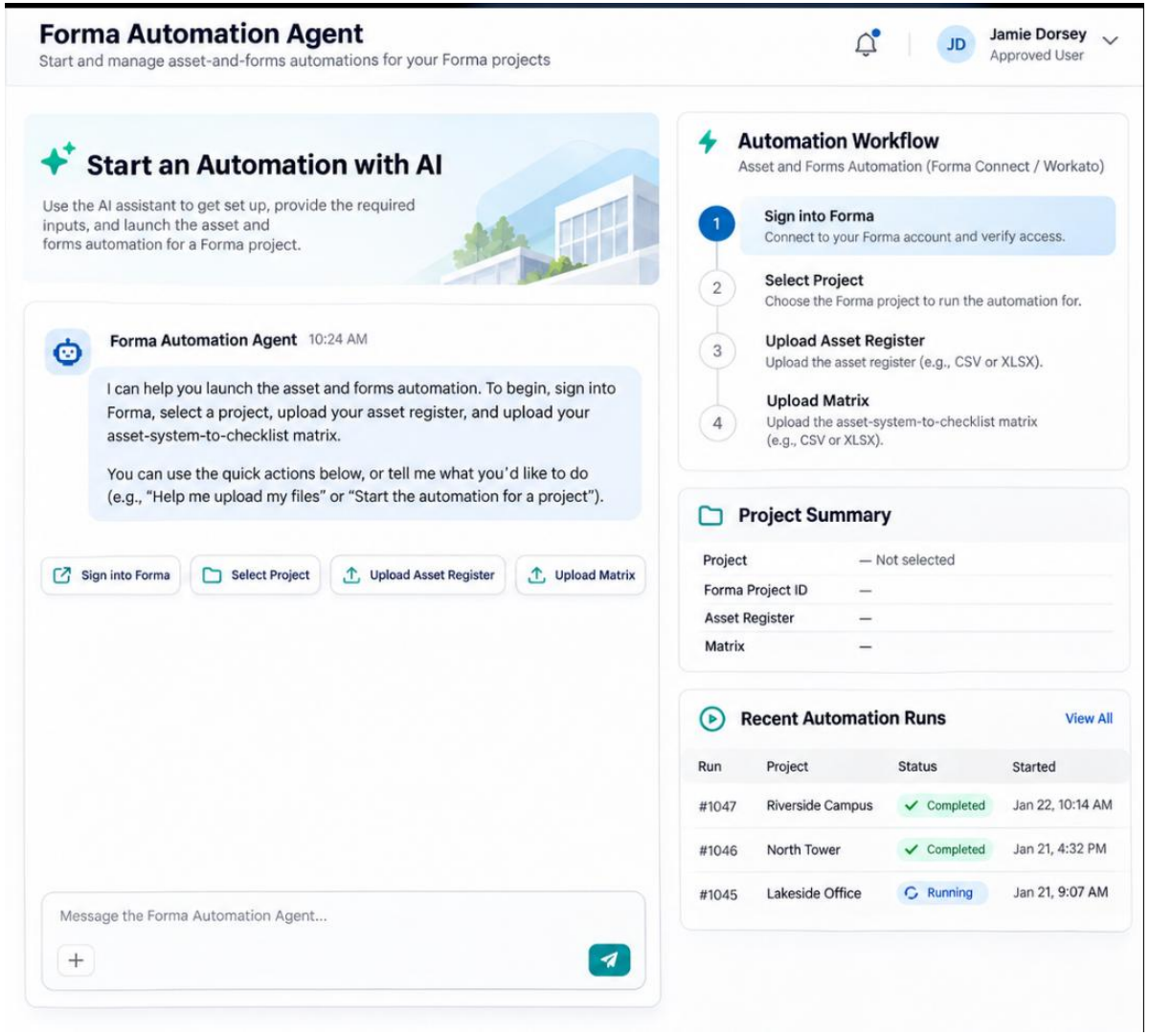
ROI:

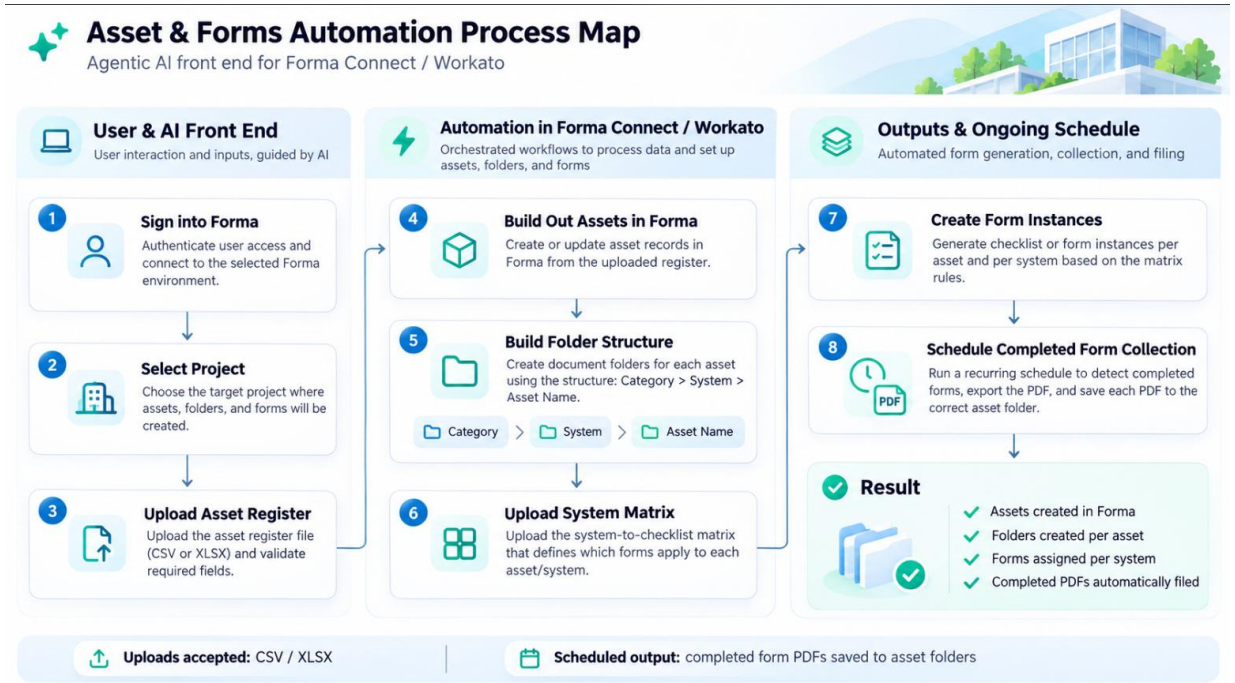
- **Estimated time for 2 staff to complete setup manually, 2 weeks at 32 hours a week per Project. Projected projects to be 50+ by Year 2**
- **Testpack Report generation per asset manually was 30 minutes per asset report. This was all Automated.**
- **Time to iterate and implement Automations on one project. 60 hours.**

3000+ user hours saved in Automating the process once full adopted and scaled out to New Projects.

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User Interaction with Automation using Co-Pilot






NTI – FACILITY MANAGEMENT
NTI Group
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AUTODESK
Platinum Partner

FM KEEPS BUILDINGS RUNNING, SAFE AND ON BUDGET

Facility management (FM) covers three areas of work



HARD FM

Buildings and systems

- Planned and corrective maintenance
- Technical installations such as HVAC
- Inspections and statutory checks



SOFT FM

Services and users

- Service requests and helpdesk
- Cleaning, security and workplace services
- Communication with tenants and users



STRATEGIC FM

Finances and planning

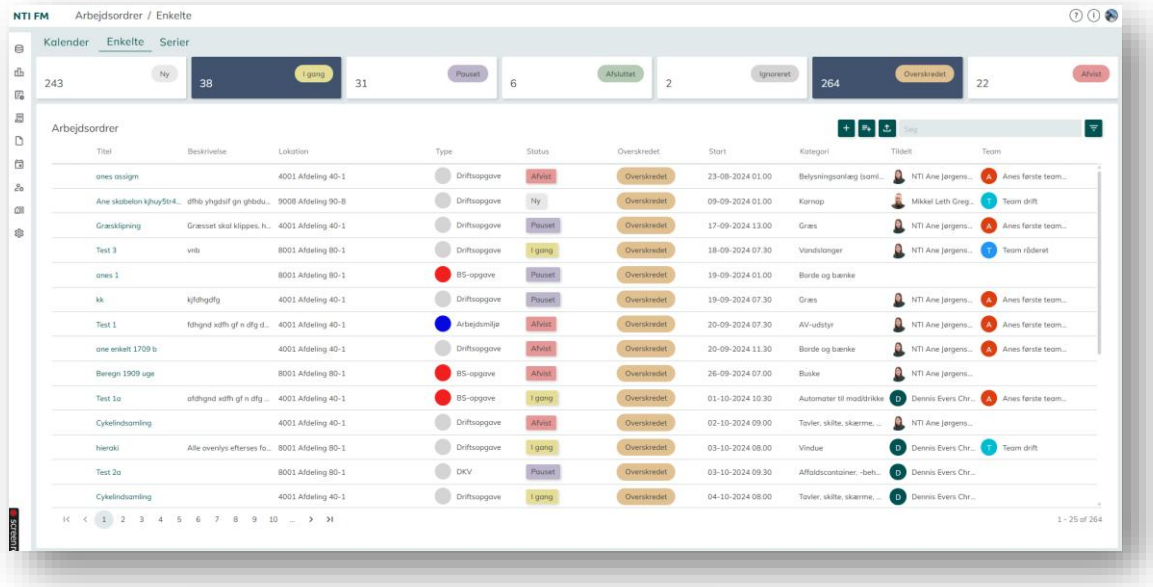
- Annual operating budgets
- Long-term maintenance plans
- Investment decisions across the portfolio

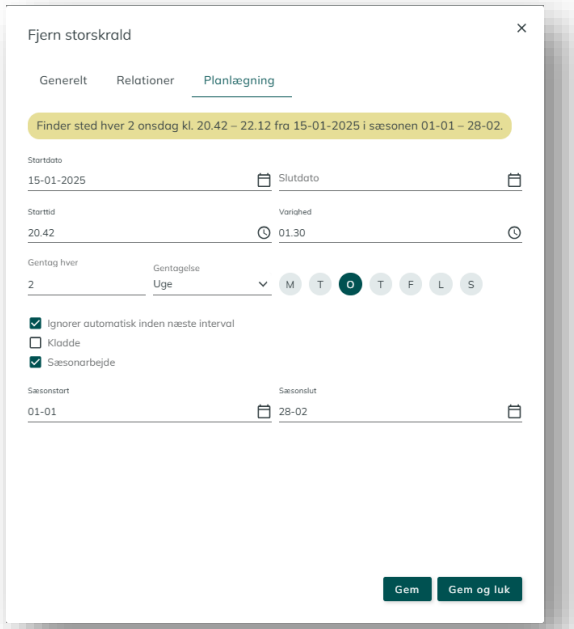
Hard and soft FM follow common industry usage; scope based on the ISO 41000 series of facility management standards.

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ASSET MANAGEMENT in NTI FM

- Transfer Assets with history from FORMA til NTI FM
- Assets become the common reference point for operations, maintenance and documentation
- All relevant information is gathered in one place: location, condition, documents, history and responsibilities
- Reduces duplicated data, manual lookups and uncertainty about which information is correct
- Ensures that teams work from the same updated data foundation
- Creates consistency across departments, properties and workflows
- QR Codes for quick mobile app access

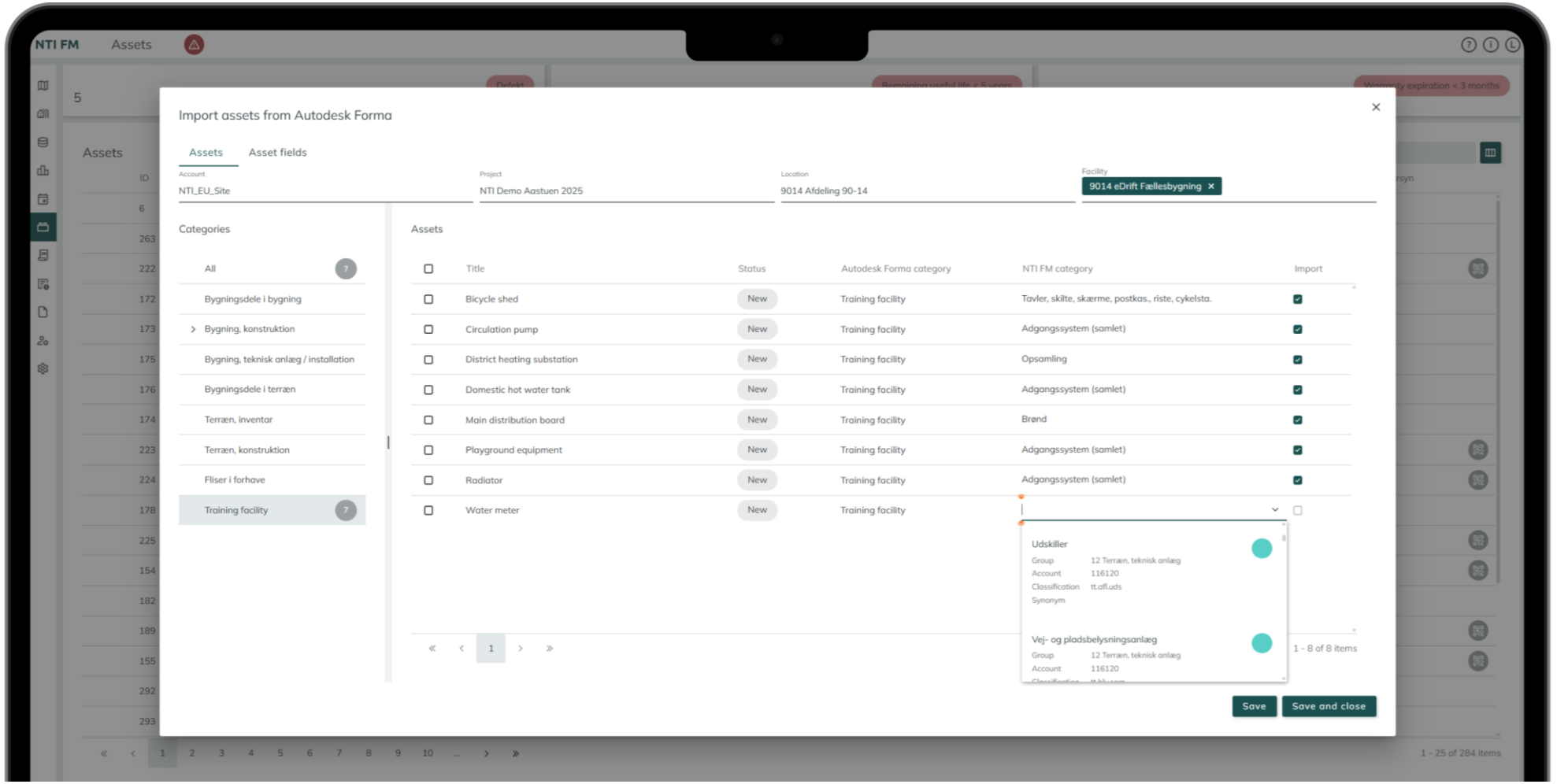






Import assets from Autodesk Forma to NTI FM

- Look into Forma, connect to categories, transfer custom Assets fields in one import. Ready to use for maintenance from day one.



TRUSTED BY LARGE PROPERTY OWNERS

Public and private organisations run their portfolios on NTI FM

1,400

service technicians working in NTI FM

DAB-Lejerbo
Social housing administration

50,000+

rental units across the portfolio

Newsec Property Asset Management
Property asset manager

7

university colleges on one shared FM system

Danish university colleges
Framework agreement

3D

scanning and BIM models of the full portfolio

Magasin du Nord
Department store chain

Source: NTI Group customer cases and news, nti-group.com

FROM AIRPORTS TO HOUSING – WE SERVE THEM ALL

Københavns Lufthavne CPH

KØBENHAVNS PROFESSIONS HØJSKOLE KP

teknika
Copenhagen College of Technology Management and Marine Engineering

Rødovre Boligselskab

BOLIG KONTORET ÅRHUS

B45

Magasin

UCL Erhvervsakademi og Professionshøjskole

domea.dk

østerBO

RandersBolig Administrationsselskabet

PORT OF AALBORG
gate to great

VIA University College

STRUER KOMMUNE

AAB VEJLE
MERE END ET HJEM

fsb
mere end en bolig

Slagelse Boligselskab
- Fremtidens selskab for dig

CIVICA

ABSALON
PROFESSIONSHØJSKOLEN

TÓRSHAVNAR KOMMUNA
TÓRSHAVNAR KOMMUNA

Reykjanesbær

AL2 BOLIG

BOLIG SELSKABET SJÆLLAND

DAB

Lejerbo

HOLMEGÅRDSPARKEN
DANMARKS ÆLDSTE OG DEJLIGSTE PLEJEHJEM

HEG
HANDELSGYMNASIUM
TEKNISK GYMNASIUM
HHX / HTX

Aabenraa Kommune

UNGDOMSBO
BOLIGER FOR ALLE

ESEBOLIG
Vores boligforening

vab
boliger tæt på dig

HADSTEN BOLIGFORENING



UCN
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PRIVATHOSPITALET MØLHOLM

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Boligfonden DTU

Thank You

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