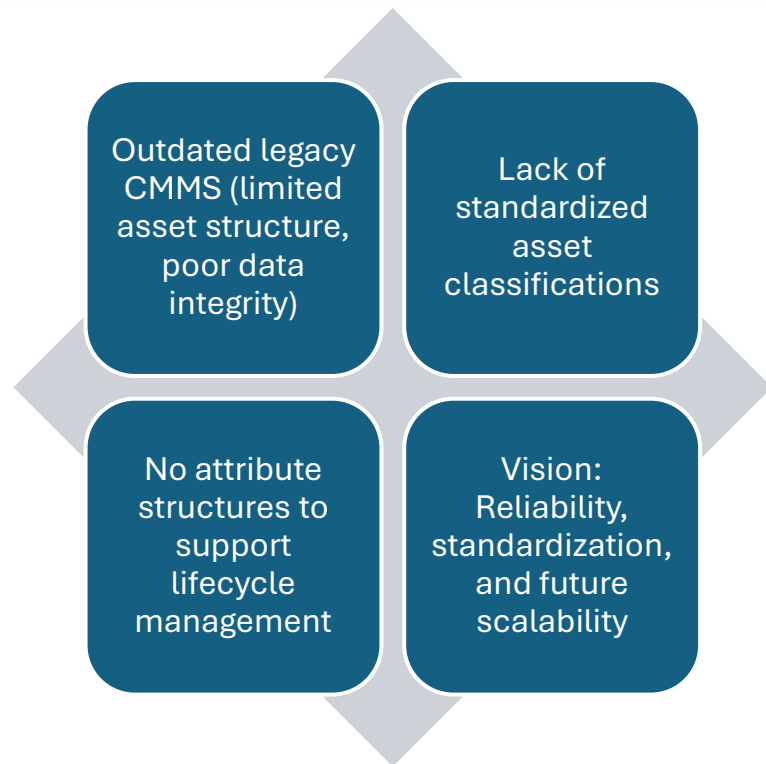


# Modernizing Asset Management: Our Journey to Maximo

Standardizing Classifications,  
Attributes & Construction  
Onboarding

Presented by: Tiffanie Powell  
and Noel Ellis

# Why Change





# Goals of the Asset Management Changes

- Establish Asset Classifications
- Develop Asset Attributes
- Map and migrate legacy assets to Maximo
- Streamline new asset onboarding

# Classification Development Process

- Started with:
  - 120 Legacy Asset Group Codes
  - 112,739 Assets to be Classified



**Assess legacy  
asset data**



**Design new  
classification  
schema:**

Class, Sub Class and  
Attributes that are  
required



**Map and migrate  
assets**



**Build attribute  
structure**



**Train teams on the  
new system**



**Enable continuous  
improvement**

# Asset Classification: Approaches Explored

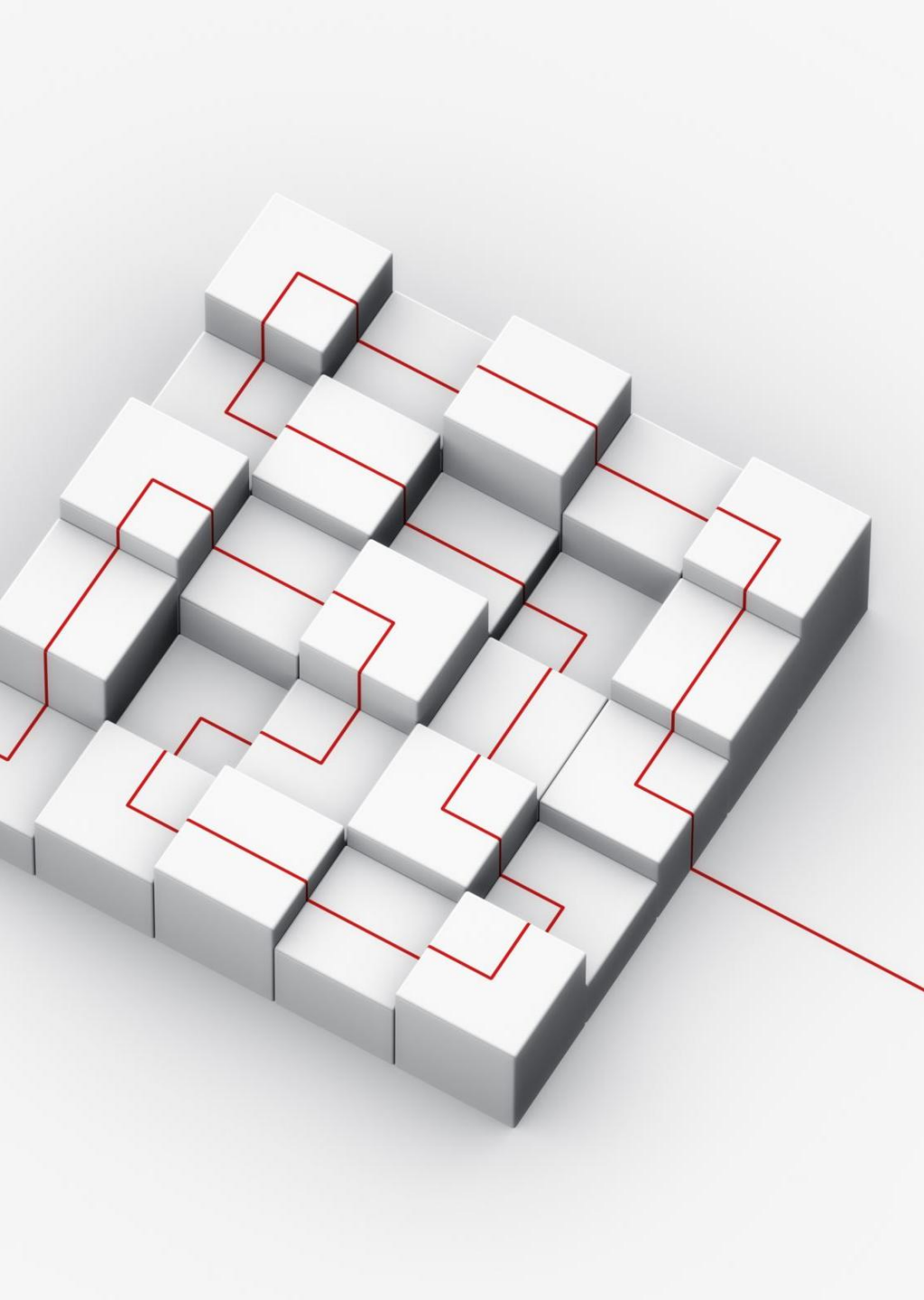
Option	Pros	Cons
Legacy Codes	Familiarity	Lack of hierarchy, unclear naming
Consultant Template	Guided	Limited customization
Custom Development	Tailored	Time-intensive
CSI Unifomat 2010	Industry Standard	Requires adaptation
<b>Hybrid</b>	Best of both	More coordination needed



# CSI Unifomat 2010

- Pros:
  - Industry Standardization
  - Logical, System-Based Hierarchy
  - Facilitates Construction Integration
- Cons:
  - Not Maintenance-Specific
  - Would Require Customization
  - Learning Curve for Staff
  - Can Be Broad or Abstract

Type	CSI UniFormat 2010	Reference to Schematics on Tab 6	ASHE Asset Categories (Plain Language)	What is the asset?
Asset	D3050.50	Not on One-Line	D. HVAC - Air Handling - Air Curtain	Each Air Curtain
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Air Handling Unit	Air Handler is tracked as asset; c
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Air Handling Unit - Heat Recovery Unit	Each unit
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Air Handling Unit - Indoor Unit	Air Handler is tracked as asset; c
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Air Handling Unit - Make-up Air Unit	Air Handler is tracked as asset; c
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Air Handling Unit - Roof Top Unit	Air Handler is tracked as asset; c
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Clean Steam Generator	Each Clean Steam Generator
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Condensate Pump	Each unit
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Constant Air Volume Box	Each unit
Asset	D3050.50	D30-5	D. HVAC - Air Handling - Damper - Fire	Each Damper



# Final Chosen Strategy: Hybrid Model

- Tiered structure:
  - Asset Type → Class → Subclass
- CSI-inspired where applicable
- Standardized naming for clarity
- Cross-department collaboration (Techs, supervisors, engineers, managers, work coordinators)
- 361 classifications created

# Classifying and Mapping Assets

added sub-class,  
based on needs

CSI crosswalk

Legacy crosswalk

CLASS DISCIPLINE / ASSET TYPE	Proposed Classification Code	ASSET CLASS	ASSET SUB CLASS	ASSET CLASS + SUB CLASS	CSI UniFormat 2010	ASHE Asset Categories (Plain Language)	Legacy assetgrpcode	Legacy assetgrpdesc
ELECTRICAL EQUIPMENT	EL-SW	SWITCH			D5020.30			
	EL-SW-DI		DISCONNECT	SWITCH, DISCONNECT	D5020.30	D. Electrical Service and Distribution - Disconnect Switch		
	EL-SW-FD		FUSED DISCONNECT	SWITCH, FUSED DISCONNECT	D5020.30	D. Electrical Service and Distribution - Disconnect Switch Fused		
	EL-SW-MT		MOTOR-OPERATED DISCONNECT	SWITCH, MOTOR-OPERATED DISCONNECT				
	EL-SW-MT		MANUAL TRANSFER	SWITCH, MANUAL TRANSFER	D5010.70	D. Electrical Power Generation - Manual Transfer Switch		
	EL-SW-AT		AUTOMATIC TRANSFER	SWITCH, AUTOMATIC TRANSFER	D5010.70	D. Electrical Power Generation - Automatic Transfer Switch	ATS	Automatic Transfer Switch
	EL-SW-AT-DI		DISTRIBUTION ISOLATION	SWITCH, DISTRIBUTION ISOLATION				
	EL-ED	ELECTRICAL DISTRIBUTION					PDU	Power Distribution Unit
	EL-ED-PP		POWER PANELBOARD	POWER PANELBOARD	D5020.30	D. Electrical Service and Distribution - Panel, Power Distribution	ELP	Electrical Panel
	EL-ED-PS		POWER SWITCHBOARD	POWER SWITCHBOARD	D5020.10	D. Electrical Service and Distribution - Switchboard	SWITCHBOARD	Electrical switchboard
	EL-ED-MC		MOTOR CONTROL CENTER	MOTOR CONTROL CENTER	D5020.30	D. Electrical Service and Distribution - Motor Control Center	MCC	Motor Control Center
	EL-ED-LP		LIGHTING PANELBOARD	LIGHTING PANELBOARD	D5040.10	D. Electrical Lighting Control	LIGHTS	Groups of lighting fixtures
	EL-ED-SP		SURGE PROTECTION DEVICES		D5020.30	D. Electrical Service and Distribution - Power Filtering and Conc	SPD	Surge Protective Device / Transient Voltage Surge
	EL-ED-LI		LINE ISOLATION MONITOR		D5020.30	D. Electrical Service and Distribution - Line Isolation Monitor	LIM PANEL	Line Isolation Monitor (LIM) Panel
	EL-CP	CONTROL PANEL						
	EL-CP-LV		LOW VOLTAGE	CONTROL PANEL, LOW VOLTAGE				
	EL-CP-LC		LOCAL CONTROL	CONTROL PANEL, LOCAL CONTROL				
	EL-TR	TRANSFORMER					SUBSTATION	Electrical substation
	EL-TR-OF		OIL FILLED	TRANSFORMER, OIL FILLED	D5020.10	D. Electrical Service and Distribution - Transformer - Oil		
	EL-TR-DR		DRY	TRANSFORMER, DRY	D5020.10	D. Electrical Service and Distribution - Transformer - Dry		
	EL-TR-HE		HERMETIC	TRANSFORMER, HERMETIC				
	EL-UP	UPS (UNINTERRUPTABLE POWER SUPPLY)			D5010.20	D. Electrical Power Generation - Uninterruptible Power Supply	UPS	Uninterruptible Power Supply
	EL-UP-OL		ONLINE	UPS, ONLINE				
	EL-UP-BU		BACK-UP	UPS, BACK-UP				



# Creating Meaningful Asset Attributes



Attributes tailored by class (e.g., Transformers - KVA, Chiller - Tonnage)



Used domains for consistency – dropdowns for validation (e.g., Filter efficiency – MERV/HEPA rating)



Created 153 unique attribute IDs

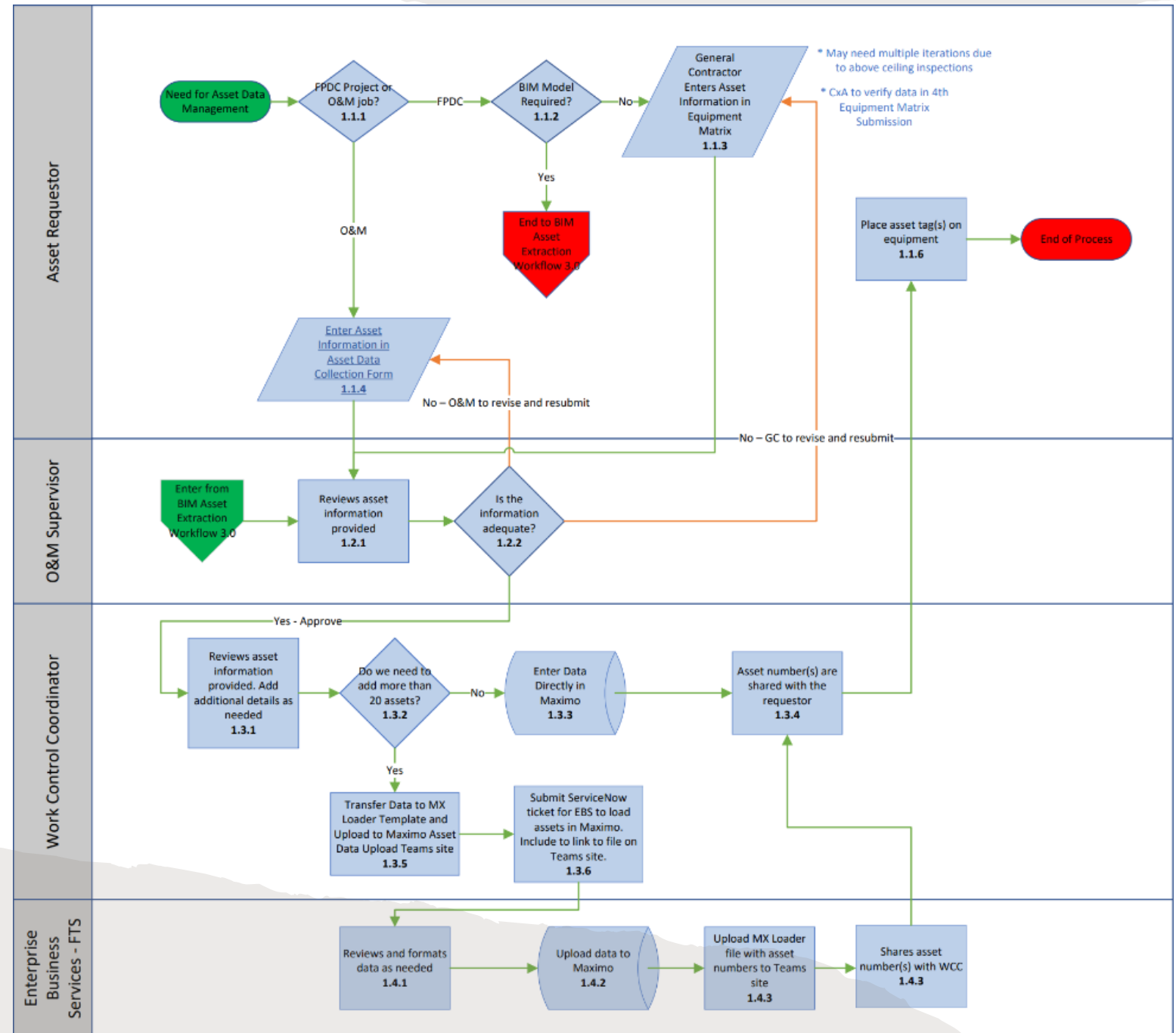


Attribute IDs were mapped to 932 instances

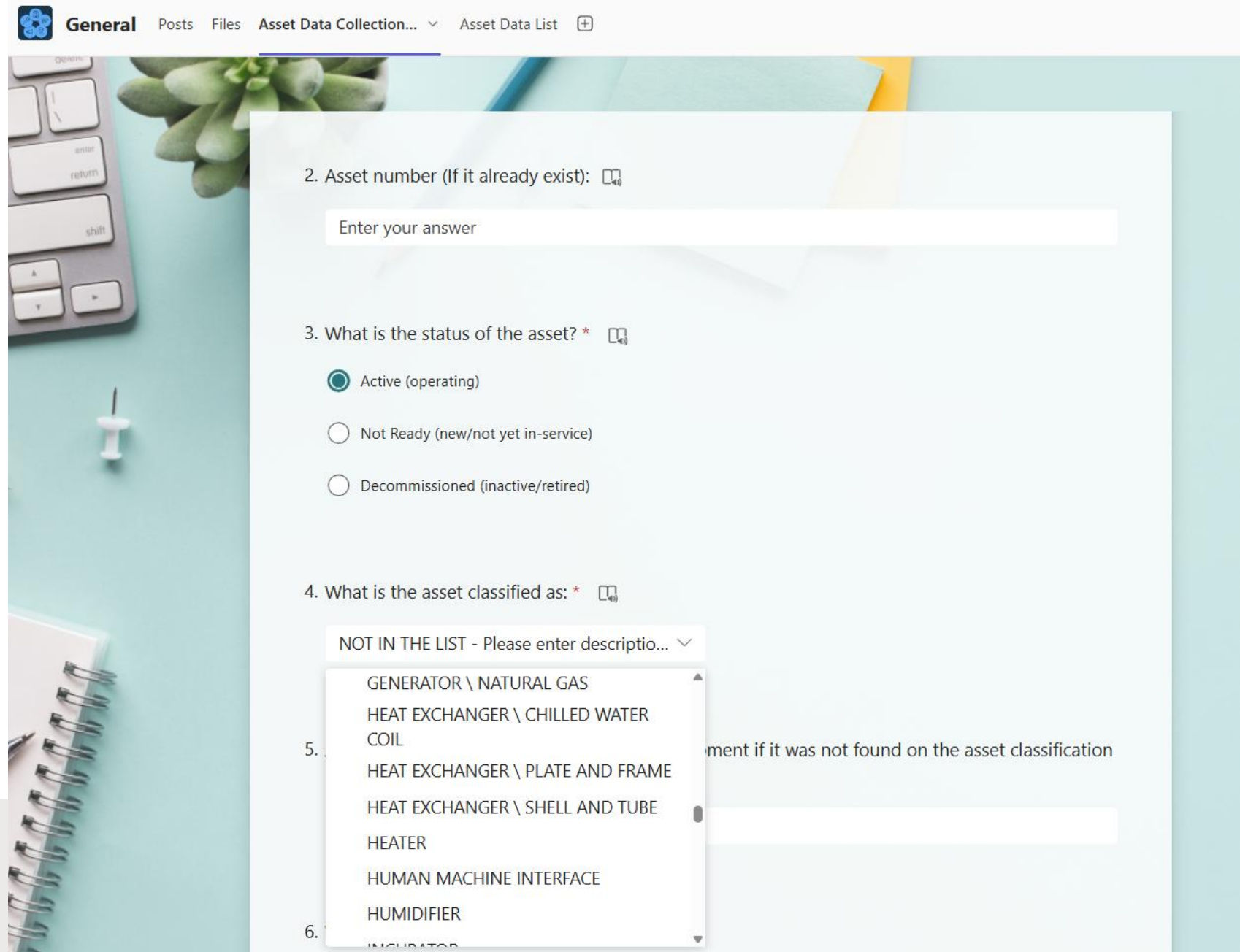
ClassificationID	Classification Description	Use in Asset Desc?	Seq	AttributeID	Attribute Description	Use Value in Asset Desc?	UoM	Domain (ALN)	Prefix	Domain Values			
FX-AH	AIR HANDLING UNIT (AHU)	N	15	FANSPLY	Fan Supply	N		MDA_FAN_SUPPLY		Axial	Centrifugal	Fan Wall	
FX-AH	AIR HANDLING UNIT (AHU)	N	16	FANSPLYDRIVE	Fan Supply Drive	N		MDA_FAN_DRIVE		Belt Drive	Direct Drive		
FX-AH	AIR HANDLING UNIT (AHU)	N	17	FANSPLYBRNGS	Fan Supply Bearings	N		MDA_FANSPLYMTRBRNG		Greaseable	Oil Lubricated	Permanently Sealed	
FX-AH	AIR HANDLING UNIT (AHU)	N	18	FANSPLYMTR	Fan Supply Motor	N		MDA_FAN_SUPPLY_MTR		AC	DC Inverter		
FX-AH	AIR HANDLING UNIT (AHU)	N	19	FANSPLYMTRB	Fan Supply Motor Bearing	N		MDA_FANSPLYMTRBRNG		Greaseable	Oil Lubricated	Permanently Sealed	
FX-AH	AIR HANDLING UNIT (AHU)	N	20	TYPE-HEATING	Heating Type	N		MDA_HEATING_TYPE		Direct-Fired Gas	Hot Water	Indirect-Fired Gas	
FX-AH	AIR HANDLING UNIT (AHU)	N	21	COOLING	Cooling Type	N		MDA_COOLING_TYPE		Chilled Water	Mechanical Refrigeration		
FX-AH	AIR HANDLING UNIT (AHU)	N	21	TYPE-COOLING	Cooling Type	N		MDA_COOLING_TYPE		Chilled Water	Mechanical Refrigeration		
FX-AH	AIR HANDLING UNIT (AHU)	N	22	HUMIDIFIER	Humidifier	N		MDA_HUMIDIFIER		IR Humidifier	None	Steam Humidifier	
FX-AH	AIR HANDLING UNIT (AHU)	N	23	FINALFILTER	Final Filters	N		MDA_FINAL_FILTER		Carbon Filter	Hot Deck Post-Filter	Permanent	
FX-AH	AIR HANDLING UNIT (AHU)	N	24	FINFILTER	Final Filter Efficiency	N		MDA_FINAL_FLTR-EFF		HEPA	MERV 1	MERV 10	
FX-AH	AIR HANDLING UNIT (AHU)	N	25	FINFILTERMNT	Final Filter Monitoring	N		MDA_FINFILTERMNT		N	Y		
FX-AH	AIR HANDLING UNIT (AHU)	N	26	FANRTN	Fan Return	N		MDA_FAN_RETURN		Axial	Centrifugal	Fan Wall	
FX-AH	AIR HANDLING UNIT (AHU)	N	27	FANRTNDRIVE	Fan Return Drive	N		MDA_FANRTNDRIVE		Belt Drive	Direct Drive		
FX-AH	AIR HANDLING UNIT (AHU)	N	28	FANRTNBRNGS	Fan Return Bearings	N		MDA_FANRTNBRNGS		Greaseable Bearings	Oil Lubricated Bearings	Permanently Sealed	
FX-AH	AIR HANDLING UNIT (AHU)	N	29	FANRTNMTR	Fan Return Motor	N		MDA_FAN_RETURN_MTR		AC	DC Inverter		
FX-AH	AIR HANDLING UNIT (AHU)	N	30	FANRTNMTRB	Fan Return Motor Bearing	N		MDA_FANRTNMTRBRNGS		Greaseable	Oil Lubricated	Permanently Sealed	
FX-AH	AIR HANDLING UNIT (AHU)	N	31	CONTROLS	Controls	N		MDA_CONTROLS_TYPE		Building Automation	Local		
RO-GN	GENERATOR	N	1	UNIT-NAME	Unit Name	N							
RO-GN	GENERATOR	N	2	VOLTAGE-RANGE	Voltage Range	N	V						
RO-GN	GENERATOR	N	3	SPEED	Rotating Speed	N	RPM						
RO-GN	GENERATOR	N	4	CAP-KVA	Capacity - kVA	N	KVA						
RO-GN	GENERATOR	N	5	BUS-RATING	Bus Withstand Rating/maximum fault current	N	KA						
RO-PU	PUMP	N	1	UNIT-NAME	Unit Name	N							
RO-PU	PUMP	N	2	PUMP-DRIVE	Pump Drive	N		MDA_PUMP_DRIVE		Direct Drive			
RO-PU	PUMP	N	3	FAN-BEARINGS	Fan Bearings	N		MDA_FAN_BEARINGS		Greaseable	Greaseable Bearings	Oil Lubricated	
RO-PU	PUMP	N	4	MOTOR-BEARINGS	Motor Bearings Lubrication	N		MDA_MTR_BRNG_LUBE		Greaseable Bearings	Greaseable Bearings	Oil Lubricated Bearings	
RO-PU	PUMP	N	5	MONITORING-CONTROL	Monitoring Operations	N		MDA_MONITORING_OP		Monitored	Not Monitored		
RO-PU	PUMP	N	6	DUTY	Duty / Pump Function	N		MDA_DUTY_FUNCTION		Condensate Pump Centrifugal	Fire Water Pump Centrifugal	HVAC Water Pump	




# Bringing New Facilities and Assets Online




# Establishing a Maintenance Change-to- CMMS Workflow



**General** Posts Files Asset Data Collection... Asset Data List +

2. Asset number (If it already exist): 


Enter your answer


3. What is the status of the asset? \* 


☒ Active (operating)


☐ Not Ready (new/not yet in-service)

☐ Decommissioned (inactive/retired)

4. What is the asset classified as: \* 

NOT IN THE LIST - Please enter descriptio... 

5. 

6. 

GENERATOR \ NATURAL GAS

HEAT EXCHANGER \ CHILLED WATER COIL

HEAT EXCHANGER \ PLATE AND FRAME

HEAT EXCHANGER \ SHELL AND TUBE

HEATER

HUMAN MACHINE INTERFACE

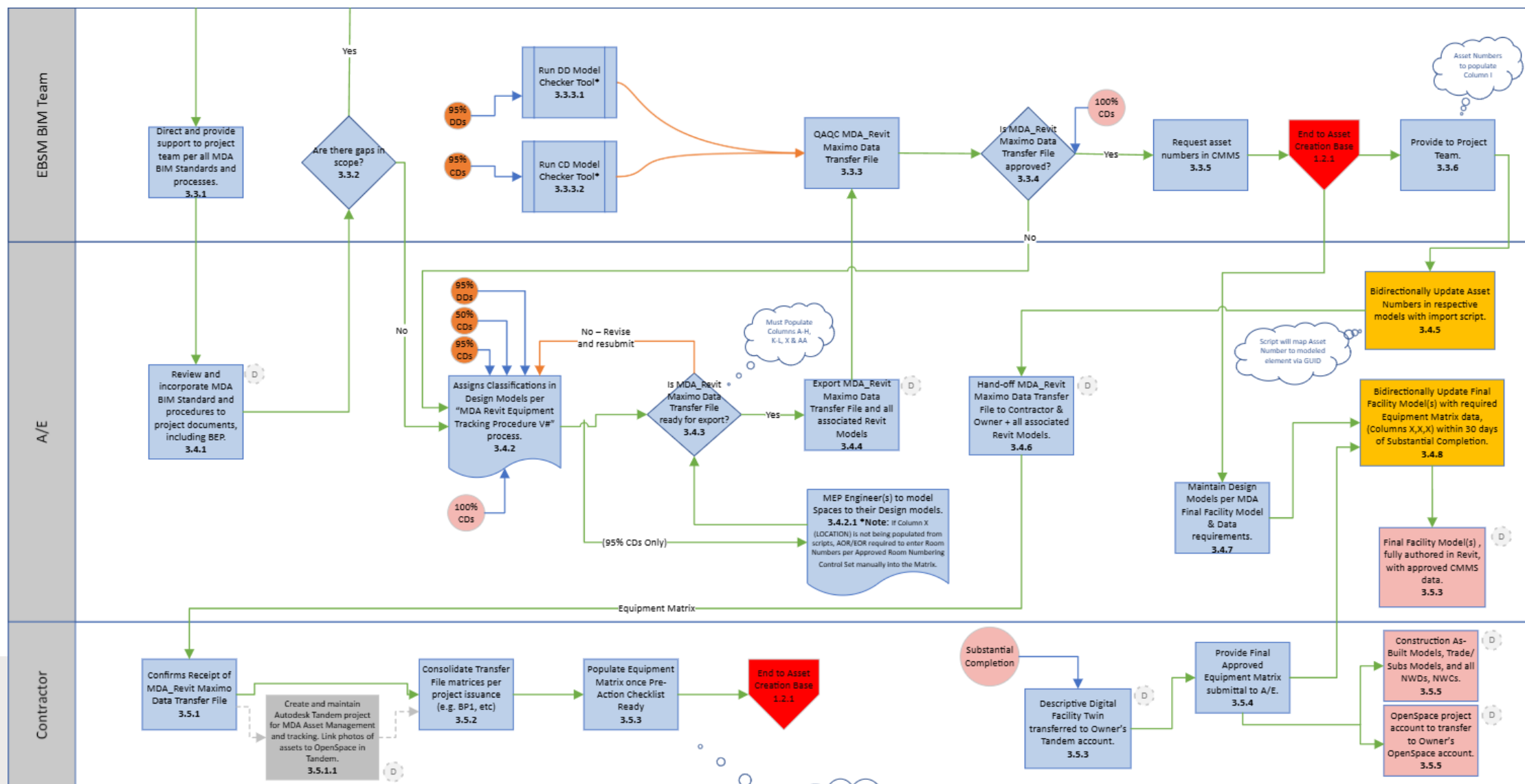
HUMIDIFIER

INSULATOR

ment if it was not found on the asset classification



# BIM-Based Asset Extraction



Filters

Ceilings

415

more

Revit Families (0 of 921 selected)

\_CARTTIPPER

2

\_TT-CL-Concrete Rectangular

164

00297 - Victaulic - 013009 - Ver1 - FireLock - ...

2

064100\_Casework-BaseCabinet-A-111-Single...

2

064100\_Casework-BaseCabinet-A-112-Doub...

13

more

MDA\_ASSET NUMBER

(2732 of 2733 selected)

M1125890

1

M1125891

1

M1125892

1

M1125893

1

M1125894

1

M1125895

1

M1125896

1

M1125897

1

M1125898

1

M1125899

1

M1125900

1

M1125901

1

M1125902

1

M1125903

1

M1125904

1

M1125905

1

M1125906

1

M1125907

1

M1125908

1

M1125909

1

M1125910

1

M1125911

1

Assets

Files

Docs

Systems

Connections

Users

Streams

History

A 3D isometric rendering of a complex industrial facility, likely a research or manufacturing plant. The scene is composed of numerous interconnected components, including large rectangular blocks, cylindrical tanks, and intricate piping systems. The components are color-coded in a variety of bright colors such as purple, pink, blue, green, yellow, and orange, which helps in distinguishing different parts or systems. The perspective is from an elevated angle, looking down into the facility, showing the spatial arrangement and flow of the infrastructure. The overall impression is one of a highly organized and technologically advanced environment.

INVENTORY (138) 

(1)

Follow selection

Show tagged assets

Columns (40)

Export

Import

	e...	Edited by	Image	Mark	Type Na...	Workset	Host	Level	Moves ...	Schedul...	ElementId	MDA_A...	MDA_CL...	MDA_C...	MDA_D...	MDA_MAXIMO CODE	MDA_PROJECT ID
1				1943	Single Face	ELEC-LIGH...	Level : LEV...	LEVEL 06			2543925			TURNER	2025-01-30	EL-LI-ES	190119
2				1944	Single Face	ELEC-LIGH...	Level : LEV...	LEVEL 06			2543940			TURNER	2025-01-30	EL-LI-ES	190119
3				1945	Single Face	ELEC-LIGH...	Level : LEV...	LEVEL 06			2543979			TURNER	2025-01-30	EL-LI-ES	190119
4				1947	Single Face	ELEC-LIGH...	Level : LEV...	LEVEL 06			2713069			TURNER	2025-01-30	EL-LI-ES	190119
5				2948	Single Left...	ELEC-LIGH...	Level : LEV...	LEVEL 06			2713102			TURNER	2025-01-30	EL-LI-ES	190119
6				2951	Single Left...	ELEC-LIGH...	Level : LEV...	LEVEL 06			2713194			TURNER	2025-01-30	EL-LI-ES	190119
7				2952	Single Rig...	ELEC-LIGH...	Level : LEV...	LEVEL 06			2713261			TURNER	2025-01-30	EL-LI-ES	190119
8				1924	Single Face	ELEC-LIGH...	Level : Lev...	Level 04			2543192			TURNER	2025-01-30	EL-LI-ES	190119
9				1927	Single Face	ELEC-LIGH...	Level : Lev...	Level 04			2543245			TURNER	2025-01-30	EL-LI-ES	190119
10				2954	Single Rig...	ELEC-LIGH...	Level : LEV...	LEVEL 06			2713378			TURNER	2025-01-30	EL-LI-ES	190119
11				2955	Single Rig...	ELEC-LIGH...	Level : LEV...	LEVEL 06			2713407			TURNER	2025-01-30	EL-LI-ES	190119



# Equipment Matrix via MX Loader

	A	B	C	D	G	H	I	K	L	T	X
1	MDA_GUID	will not be included in	will not be included in MXLoader	will not be included in MXLoader	MDA_PROJECTID	will not be included in MXLoader	ASSETNUM	CLASSSTRUCTUREID.DESCRPTION	MDA_UNITID	SERIALNUM	LOCATION
2	GUID (DO NOT EDIT)	Element ID (DO NOT EDIT)	Family Type, Family Name (DO NOT EDIT)	Revit Model File Name (DO NOT EDIT)	PROJECT ID	PROJECT NAME	ASSET (From MDACC)	CLASSIFICATION	UNIT NAME	SERIAL #	LOCATION
3	8cf9c21f-480d-4f5f-9	4467939	Family Type: Kendo M Recessed, Family: Lighting-Luminii-Kendo_M_Re Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L25		BRF ENTRY CANOPY
4	8cf9c21f-480d-4f5f-9	4467941	Family Type: Kendo M Recessed, Family: Lighting-Luminii-Kendo_M_Re Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L25		BRF ENTRY CANOPY
5	8cf9c21f-480d-4f5f-9	4467943	Family Type: Kendo M Recessed, Family: Lighting-Luminii-Kendo_M_Re Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L25		BRF ENTRY CANOPY
6	8cf9c21f-480d-4f5f-9	4467945	Family Type: Kendo M Recessed, Family: Lighting-Luminii-Kendo_M_Re Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L25		BRF ENTRY CANOPY
7	27f981c0-8cdf-40e2-i	5259013	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF1.1003
8	27f981c0-8cdf-40e2-i	5259016	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF1.1003
9	27f981c0-8cdf-40e2-i	5259019	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF1.1002
10	27f981c0-8cdf-40e2-i	5259020	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF1.1002
11	27f981c0-8cdf-40e2-i	5259035	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF2.1003
12	27f981c0-8cdf-40e2-i	5259036	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF2.1003
13	27f981c0-8cdf-40e2-i	5259041	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF1.1003
14	27f981c0-8cdf-40e2-i	5259043	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF2.1002
15	27f981c0-8cdf-40e2-i	5259044	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF2.1002
16	27f981c0-8cdf-40e2-i	5259045	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF1.1002
17	27f981c0-8cdf-40e2-i	5259074	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF3.1002
18	27f981c0-8cdf-40e2-i	5259075	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF3.1002
19	27f981c0-8cdf-40e2-i	5259076	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF3.1003
20	27f981c0-8cdf-40e2-i	5259077	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF3.1003
21	27f981c0-8cdf-40e2-i	5259081	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF4.1002
22	27f981c0-8cdf-40e2-i	5259082	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF4.1002
23	27f981c0-8cdf-40e2-i	5259093	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF5.1002
24	27f981c0-8cdf-40e2-i	5259094	Family Type: L32 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L32		BRF5.1002
25	27f981c0-8cdf-40e2-i	5259096	Family Type: L30 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L30		BRF6.1002
26	27f981c0-8cdf-40e2-i	5259097	Family Type: L30 - TYPICAL 6FT SURFACE MOUNTED STAIRWELL LIGHT FIX Autodesk Docs://MD Andersc		190119	BIOSCIENCES RESEARC		LIGHTS,EMERGENCY	L30		BRF6.1002

# Benefits and Impact

- Hierarchical classification = better reliability tracking
- 95% data readiness across assets
- Attributes to drive predictive maintenance/RCM
- BIM-Maximo integration
  - BIM asset classification crosswalk
  - Ability to buildout equipment list early on in construction
- Electronic asset data collection process



# Lessons Learned



Involve field teams  
earlier

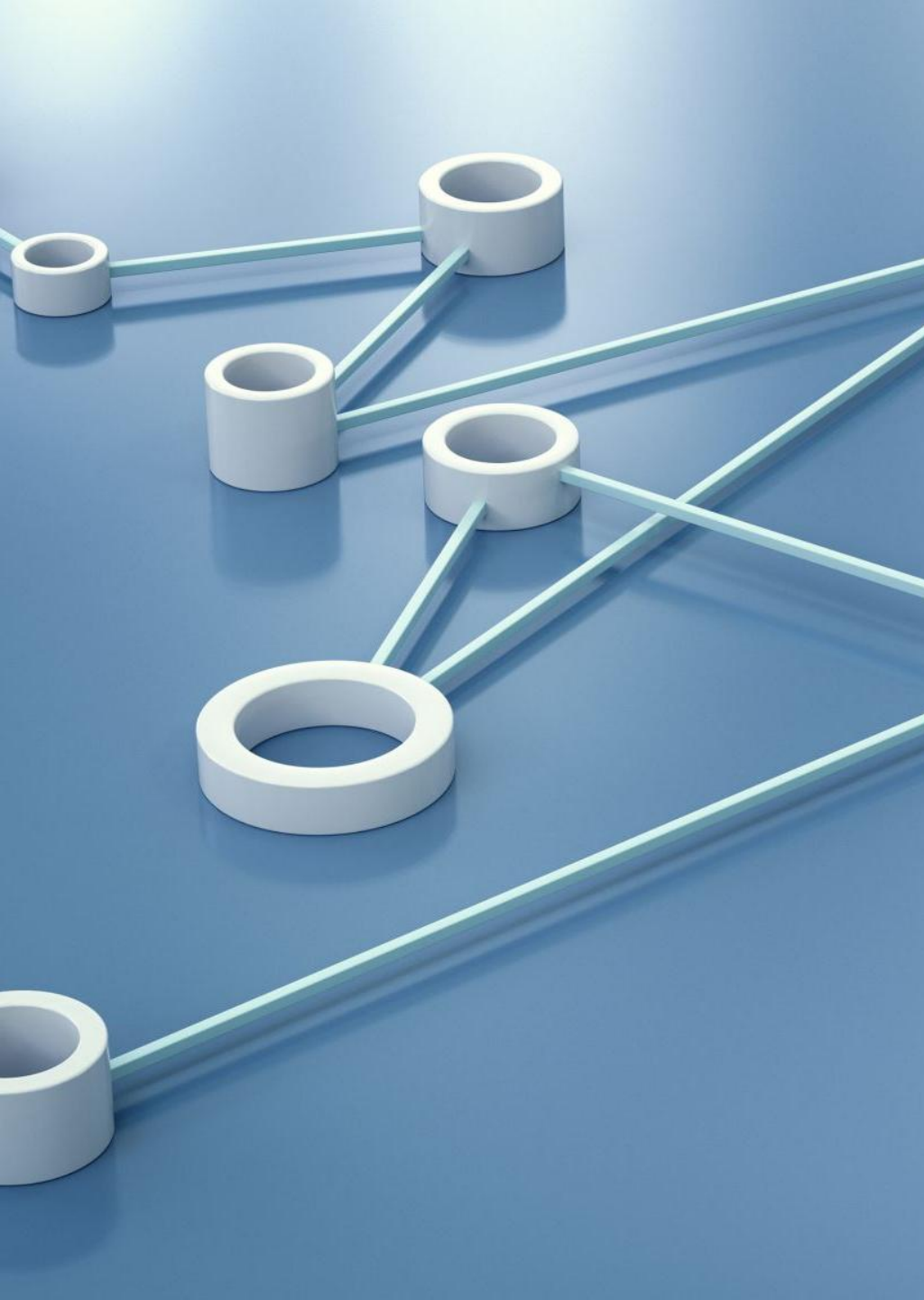


Clean data before  
integration



Define success KPIs





# Looking Ahead

- Asset life cycle management
- Predictive analytics via sensor inputs
- RCM expansion
  - Enhancing fault codes
  - Problem → Cause → Remedy structure
  - Reactive maintenance reduction
- Enhanced job planning with attributes

Thank you and Questions

