



# Mission, Risk & Data Sustainment

Mission-Centric Results, Tactical Data  
Sustainment and Strategic Relevance

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**Jacobs**

Challenging today.  
Reinventing tomorrow.



What are we  
aspiring to?

[https://www.youtube.com/watch?v=xGc5in2F\\_Rg&list=PPSV](https://www.youtube.com/watch?v=xGc5in2F_Rg&list=PPSV)



# Video Relevance

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# Friends in the industry all trying to:



- Maximize constrained resources
- Enhance operational effectiveness
- Streamline decision making by leveraging existing data
- Effectively communicate the current state and the future trajectory
- **Identify mission risk**

# Simple Approach to Mission Risk using BUILDER



1. Link the missions to the facilities
2. Determine which asset types have the highest consequence of failure
3. Filter BUILDER's workplan requirements to the desired mission and the assets that pose the greatest risk



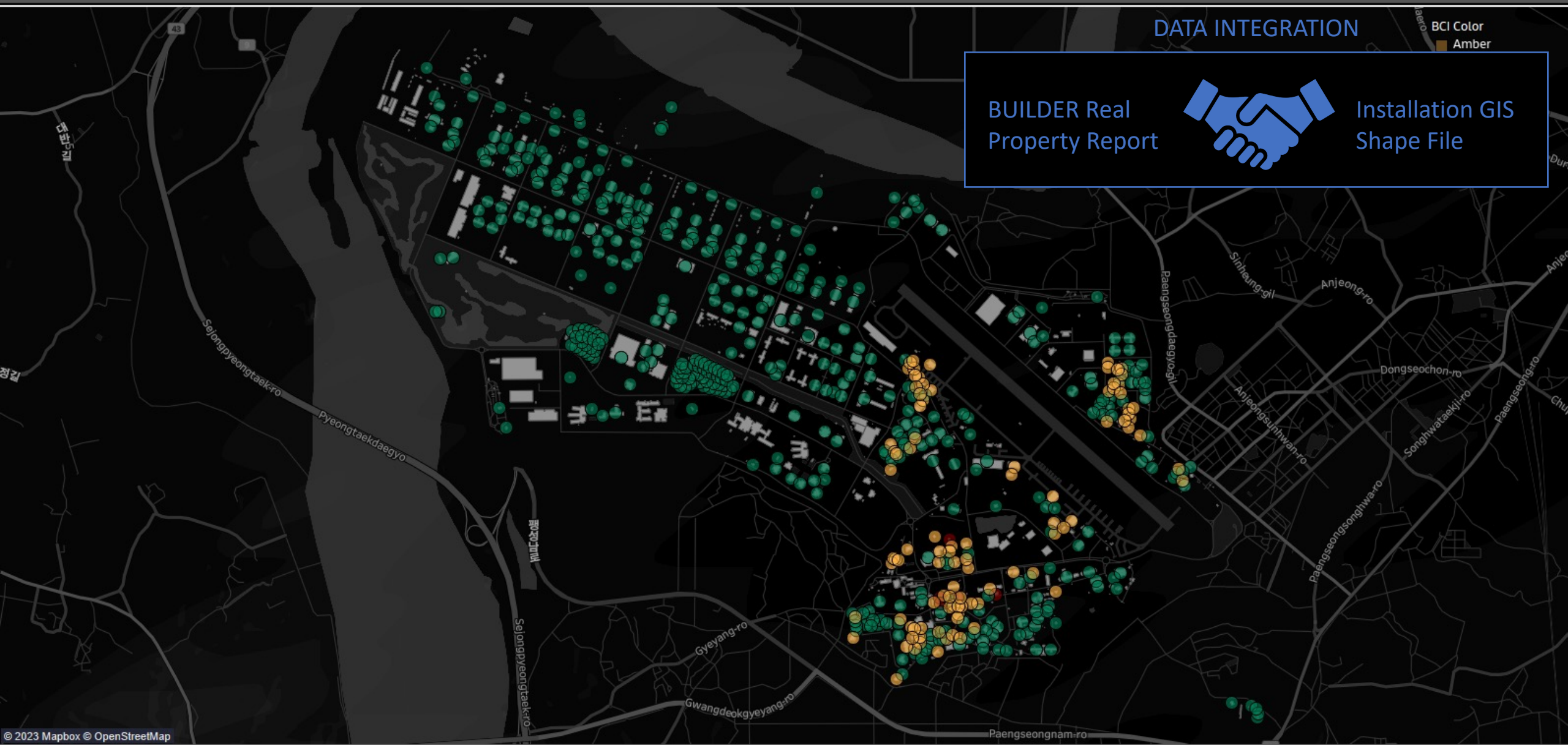
## Step 1: Link Missions to Facilities

## EXAMPLE INSTALLATION SHOWING ALL BUILDINGS

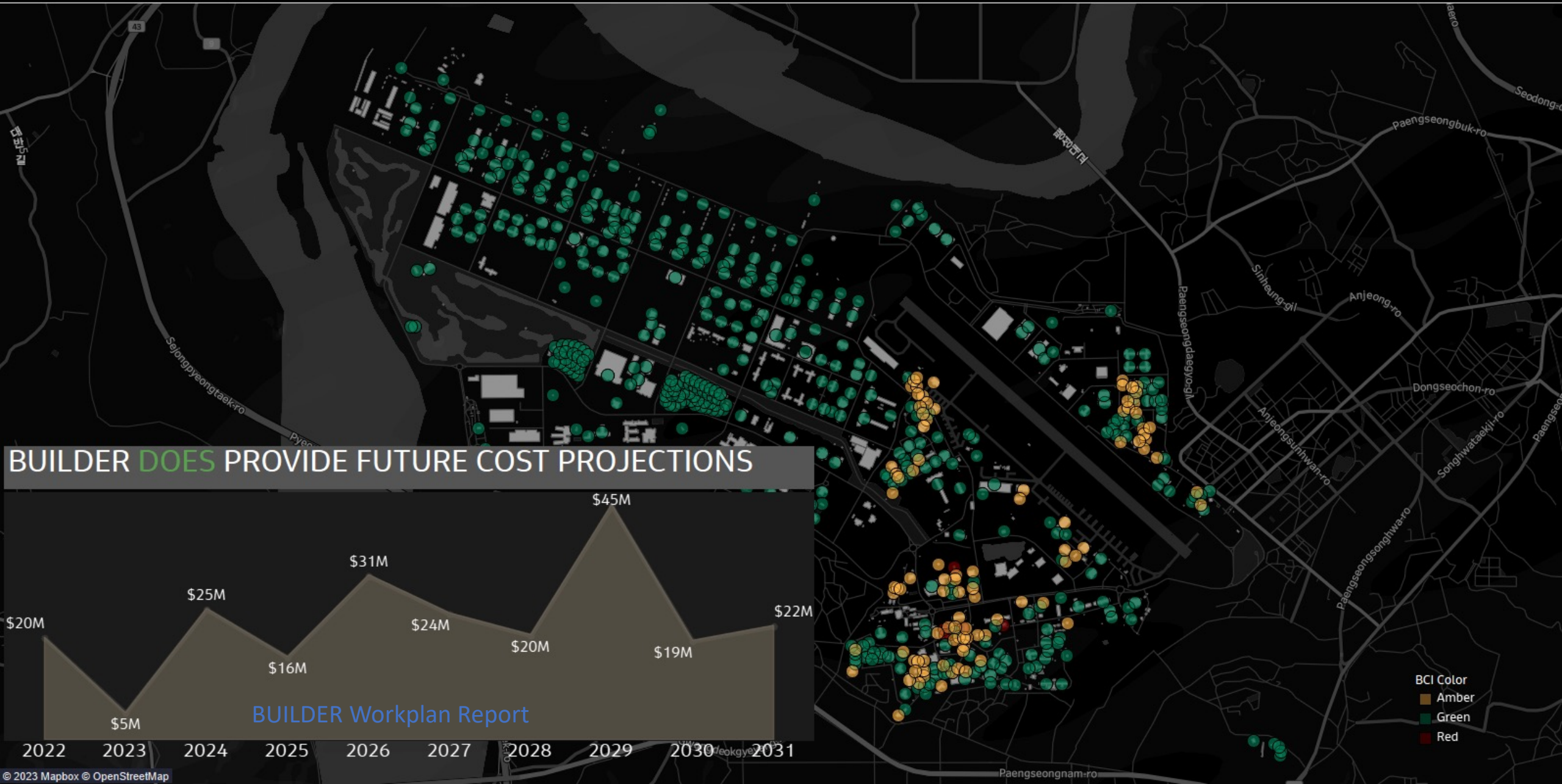




## BUILDER DOES PROVIDE OVERALL BUILDING CONDITION METRICS



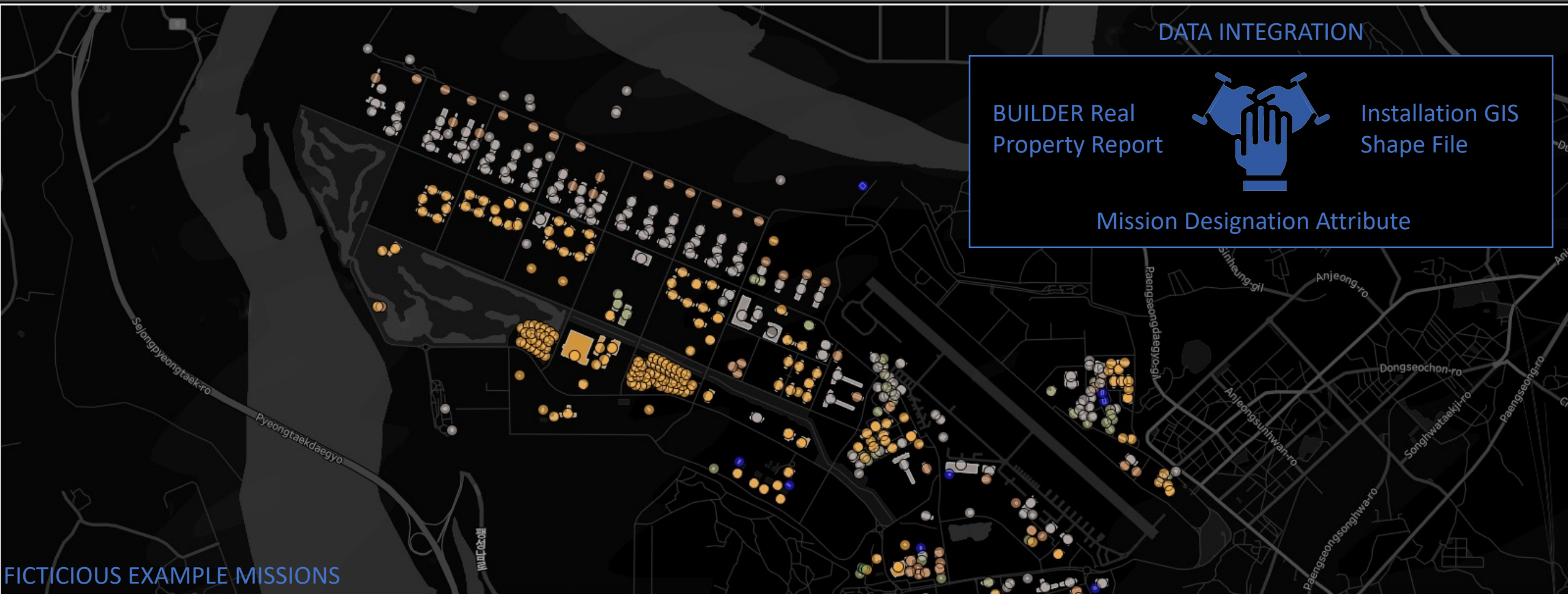




## BUILDER DOES PROVIDE FUTURE COST PROJECTIONS



## BUILDER DOES NOT CATEGORIZE BUILDINGS BY THEIR SPECIFIC MISSION



### FICTICIOUS EXAMPLE MISSIONS

F-4 Ressurrection



Abrams Maintenance



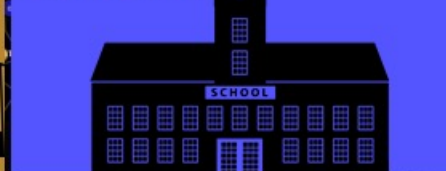
Public Works



Billeting



Education

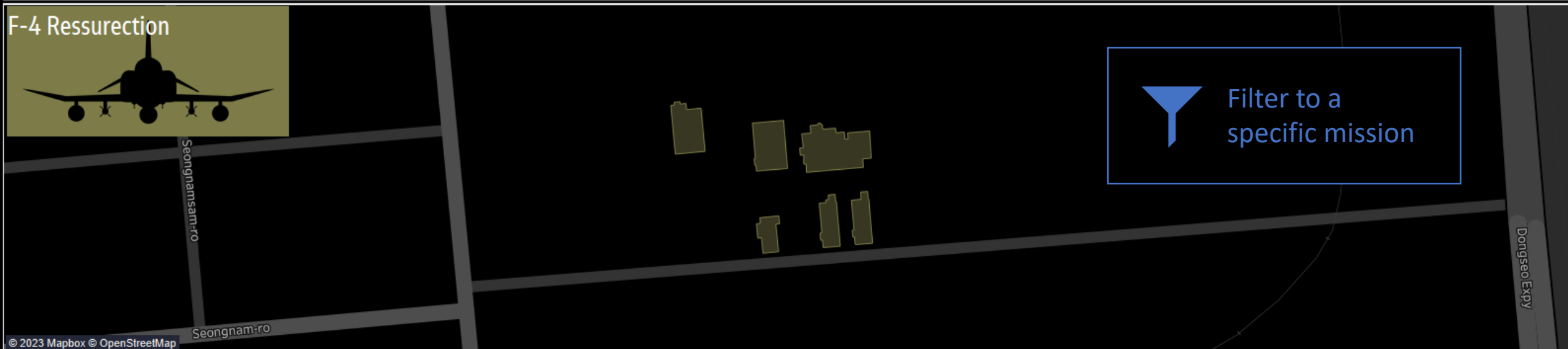


Community Services

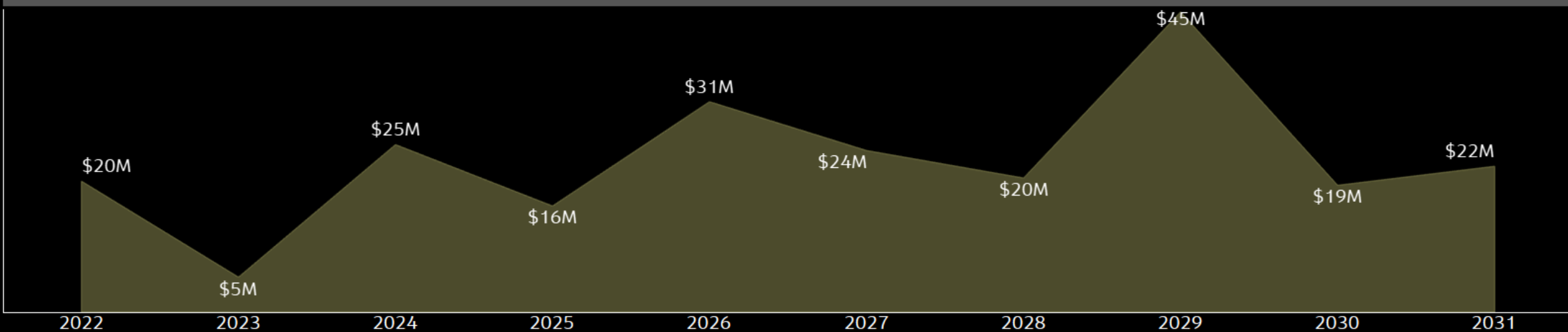


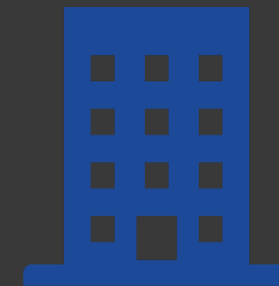


## BUILDINGS INCLUDED IN THE F-4 MISSION

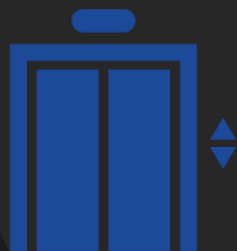


## F-4 MISSION-SPECIFIC 10 YEAR FINANCIAL PROJECTIONS




























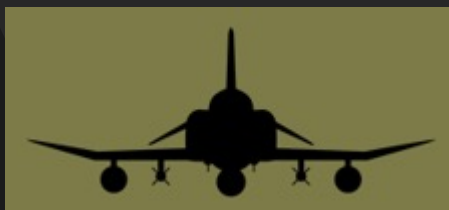
**Step 2:** Determine which asset types have the highest consequence of failure



## ASSET TYPES BY MISSION-SPECIFIC CONSEQUENCE OF FAILURE

		Abrams Maintenance	Billeting	Community Services	Education	F4 Mission	Public Works
B30 ROOFING	B3010 ROOF COVERINGS						
D10 CONVEYING	D1010 ELEVATORS AND LIFTS						
	D1020 WEIGHT HANDLING EQUIPMENT						
D20 PLUMBING	D2010 PLUMBING FIXTURES						
	D2020 DOMESTIC WATER DISTRIBUTION						
	D2030 SANITARY WASTE						
D30 HVAC	D3010 ENERGY SUPPLY						
	D3020 HEAT GENERATING SYSTEMS						
	D3030 COOLING GENERATING SYSTEMS						
	D3040 DISTRIBUTION SYSTEMS						
D40 FIRE PROTECTION	D4010 FIRE ALARM AND DETECTION SYSTEMS						
	D4020 FIRE SUPP WATER SUPPLY / EQUIP						
	D4040 SPRINKLERS						
D50 ELECTRICAL	D5010 ELECTRICAL SERVICE & DISTRIBUTION						
	D5020 LIGHTING & BRANCH WIRING						
	D5030 COMMUNICATIONS & SECURITY						
E10 EQUIPMENT	E1030 VEHICULAR EQUIPMENT						

**Step 3:** Filter BUILDER's workplan requirements to the desired mission and the assets that pose the greatest risk

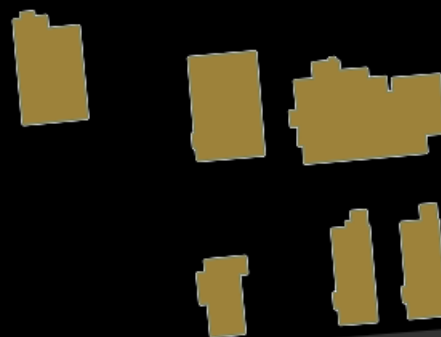


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## F4 MISSION BUILDINGS



### DATA INTEGRATION

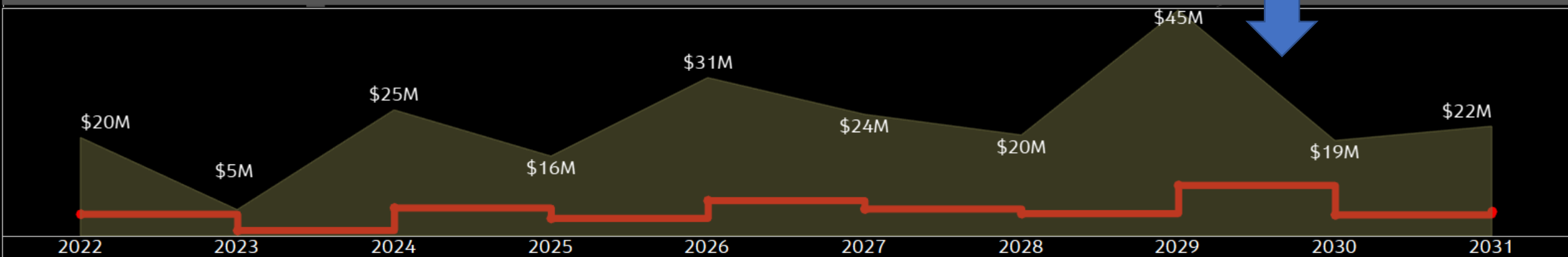
BUILDER  
Workplan



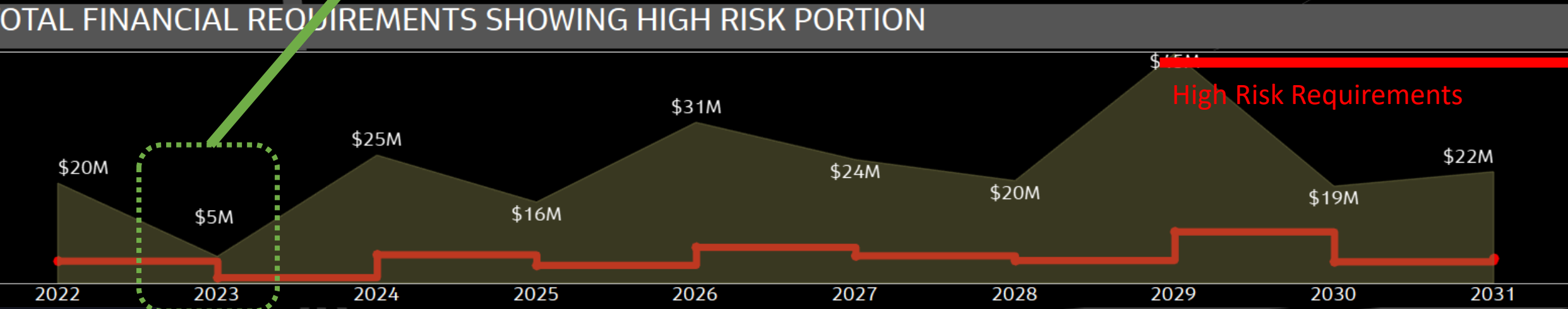
Mission  
Designation

Asset Consequence Rating

## TOTAL FINANCIAL REQUIREMENTS SHOWING HIGH RISK PORTION



Building Number	Building Name	Component	Description	Section Qty
252	OPERATION BLDG	D5010 ELECTRICAL SERVICE & DISTRIBUTION	Repair D5010 ELECTRICAL SERVICE & DISTRIBUTION KGS7-3 - PANEL LB D501004 PANELBOARDS Main lugs, 125 amp	1
			Replace D5010 ELECTRICAL SERVICE & DISTRIBUTION D501005 ENCLOSED CIRCUIT BREAKERS Enclosed Circuit Breaker, 30-100 Amp	2
			Replace D5010 ELECTRICAL SERVICE & DISTRIBUTION HALLWAY - PANEL LA D501004 PANELBOARDS Main lugs, 125 amp	1
			Replace D5010 ELECTRICAL SERVICE & DISTRIBUTION NORTH D501004 PANELBOARDS Safety Switch, 100 Amp	1





## Fitting the Intel

BUILDER is a great system, but sometimes you need to shim the outputs to fit your specific intelligence needs

A solid orange horizontal bar.

# The Link to Data Sustainment

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Is the data  
trustworthy?

## How do you intend to use BUILDER?

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Strategic vs. Tactical

- Long-Range Financial Planning
- Identify Project Requirements
- Identify Risk
- Integrate with other Systems of Record



# Where Should *Tactical* Data Sustainment Start?





1) Formulate a  
Prioritization  
Strategy

2) Analyze  
Data for Issues

3) Determine  
Location of  
Issues



# 1) Formulate a Prioritization Strategy

Priority Description	VERY HIGH	HIGH	MEDIUM	LOW
Affects Work Item Cost and Timeframe				
Affects Work Item Cost or Timeframe				
Affects Planning Detail, Clarity, or Data Structure				
Affects Comment Verbiage or Missing Photos				

## 2) Identify the Types of Data Issues

Priority	Data Issue Type	
VERY HIGH	Asset Qty Is Missing Or 0	■
	More Specific Asset Options Available	■
	Asset Not In Scope	■
HIGH	Section Qty Potential Errors	■
	Asset Install Date is Before Bldg Construction Yr	■
MEDIUM	Required Section Details are Missing	■
	Required Inv Comment is Missing	■
	Assets Cannot be Grouped	■
	Poor Rating and No Insp Comment	■
LOW	Missing Required Inspection Photos	■
	Bldg Level Comments-Wrong Format	■
	Exterior See Names Need Cardinal Direction	■

### 3) Identify the Locations of Data Issues



Bldg Number	System	VERY HIGH
147	A10 FOUNDATIONS B10 SUPERSTRUCTURE B20 EXTERIOR ENCLOSURE B30 ROOFING C10 INTERIOR CONSTRUCTION C20 STAIRS C30 INTERIOR FINISHES D10 CONVEYING D50 ELECTRICAL	■

## Strategic Relevance / Wrap-up

Mission requirements are outpacing our ability to keep up with the sustainment of our infrastructure.

Requirements across installations as a whole have changed yet we don't yet understand the TRUE resource impacts.

Global challenges in supply chain, aging workforce, resourcing and construction/replacement material costs



# Thank you

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