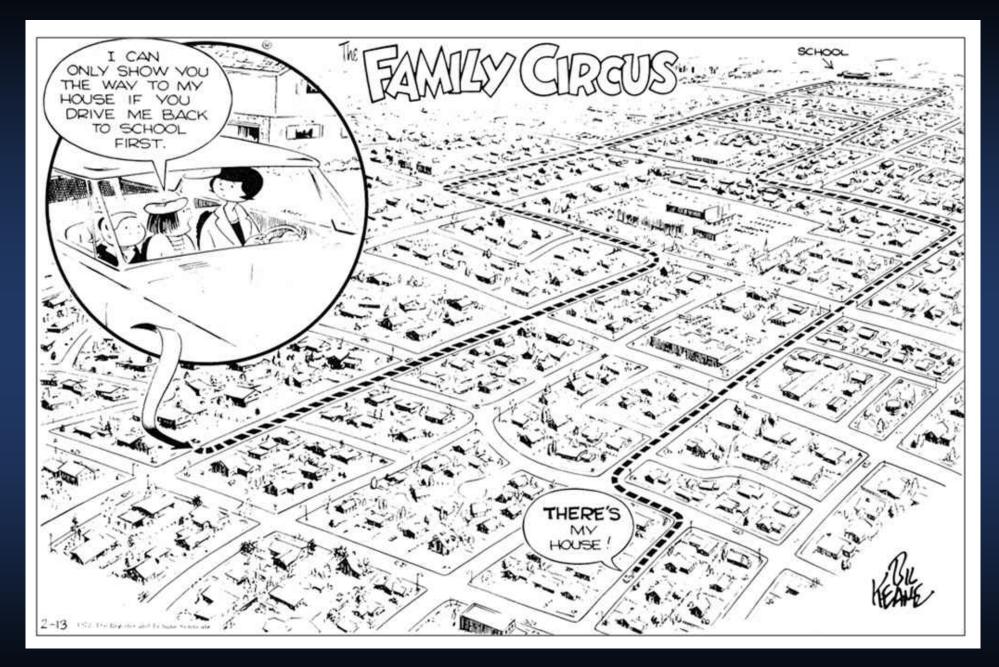
# Making the Most of Maximo and ArcGIS Integration

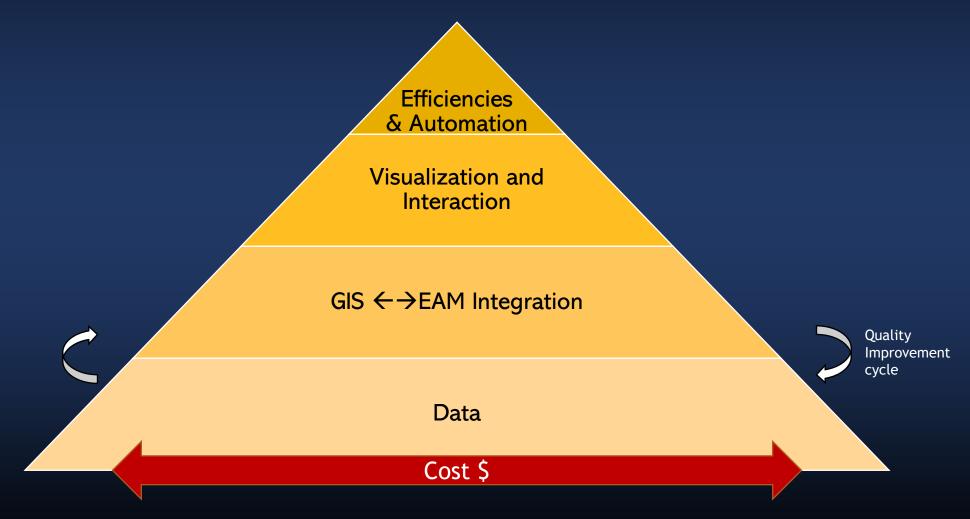
Andy Stewart ActiveG - Managing Partner





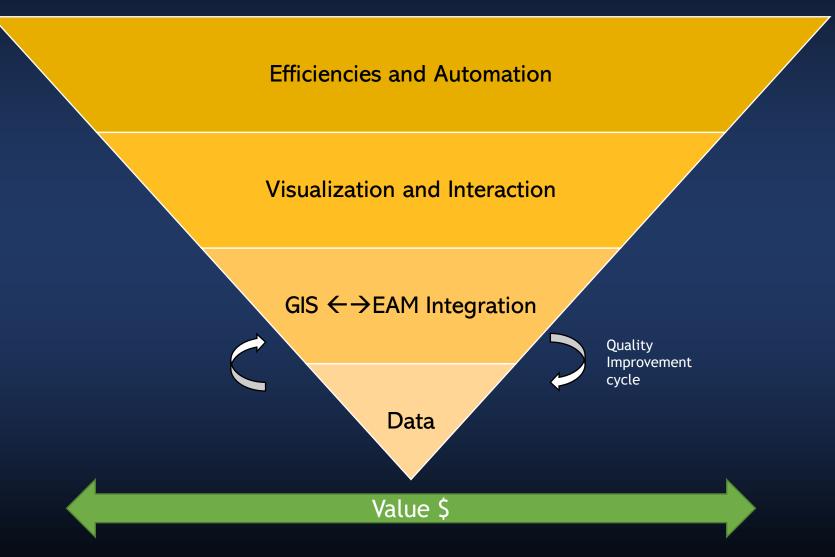


## Building the GIS/EAM integration pyramid



2023 © ActiveG, Proprietary and Confidential

## Building the GIS/EAM integration pyramid



# Esri Solutions







# Esri Solutions



• Public

Notification

Operations

Agriculture Monitor invasive pests • Protect Water Quality

Elections Assessment and Taxation Election Management • Address Field

• EMS

• Damage

assessment

• Debris reporting

Emergency Fire Service Management

• Hydrant

Fish and Wildlife • Fire incident dashboard Conservation easement inspection monitoring Wildlife Observations Health and Human Services

• Community Health Assessment • Homeless Pointin-Time Counts

 Mosquito Surveillance



Natural Resources • Dam Safety Conservation easement monitoring





Public Works **Transportation**  Lead Service Line • ROW Asset Inventory Inventory • ROW Asset • Capital Project Inventory Tracking Citizen Problem Participatory Budgeting Reporter Public Citizen Problem Notification Reporter

• Fleet Management

Enforcement • Daily Activities Dashboard • Special Event **Operations** 

Development • Public Notification Citizen Problem Reporter Code Enforcement

#### Lead Service Line Inventory

Apps

Lead Service Line Viewer Lead Service Line **Replacement Manager** 

Web App



Web App

Lead Service Line Viewer ArcGIS Field Maps



Lead Service Line Dashboard ArcGIS Dashboard



ArcGIS Hub Lead Safe Community



Lead Service Line **Public Viewer** Web App



Lead Service Line Editor ArcGIS Field Maps

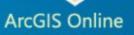


Lead Service Line Editor Web App



Lead Service Data Manager ArcGIS Pro

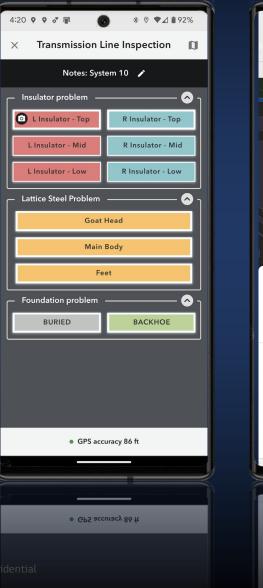




# Esri Field Apps

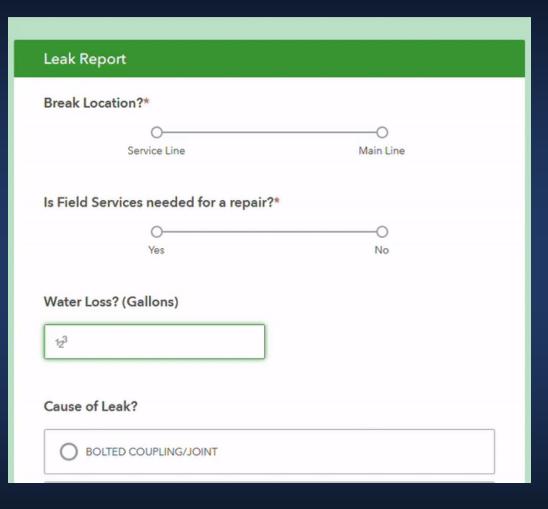
Esri Field Apps help you to:

- Create and configure maps to fit your organization's Maximo and GIS workflows.
- Collect and update information in the field and log your current location.
- Use the apps online or offline regardless of your network availability.



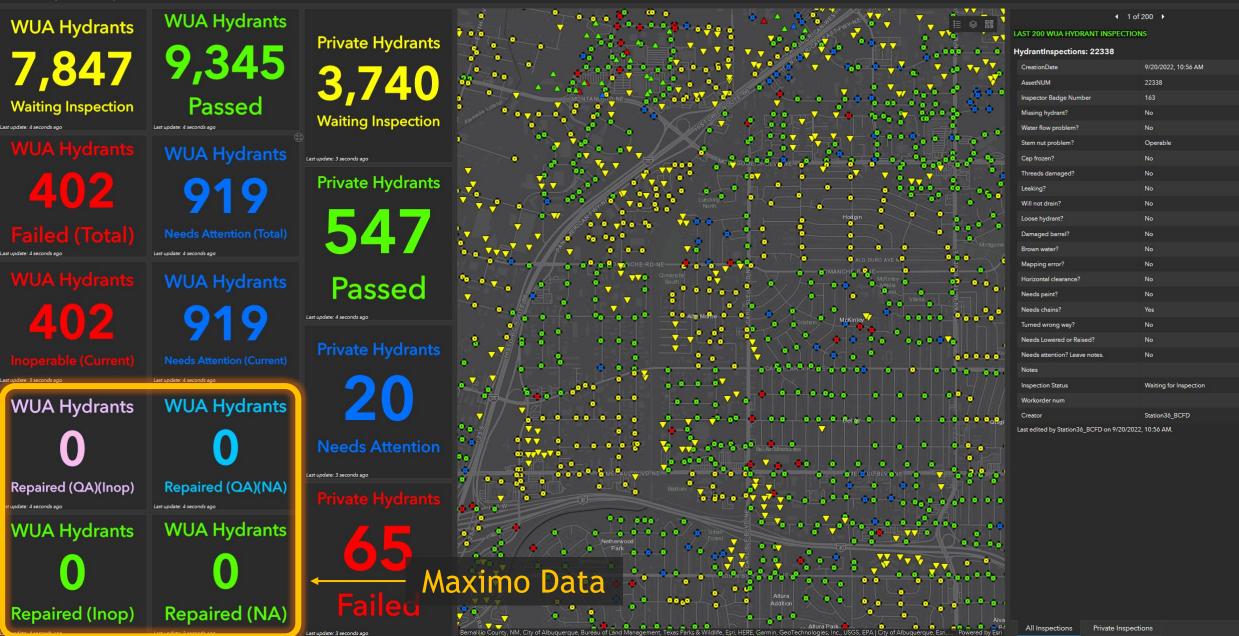
4:46 📾 🚇 🤎	* ♥ ♥⊿ ∎90%
× Collect	~
GPS accuracy 27.8 ft	
0 0000 0	
	E century Ave
138660 33.349006°N 111.78	0411°W
UPDATE P	OINT
UPDATE P	OINT
Патаке рното	
Group 1 *	0 ATTACH
Group 1 *	0 ATTACH
Group 1 *	0 ATTACH

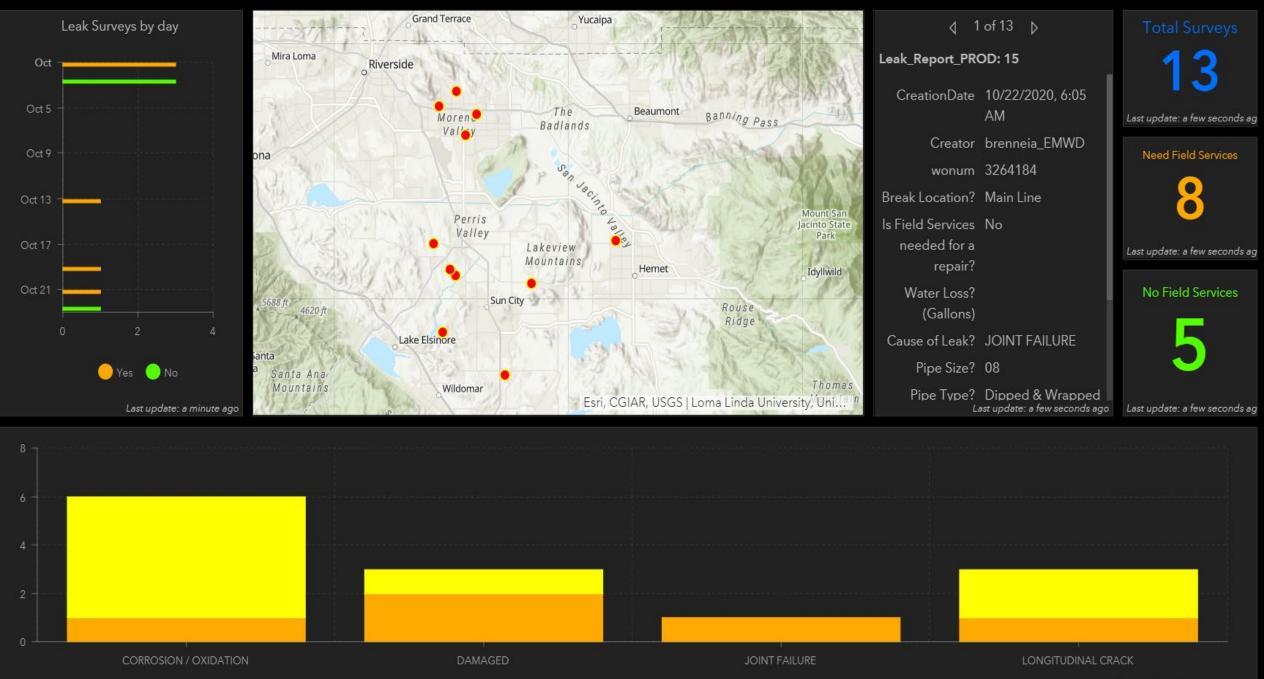
#### Reasons companies choose ArcGIS/Maximo Integration



- Easy to configure and deploy
  - No coding required
- Spatial visualization baked into the entire process
- Easy to tailor the process to client needs
- Robust reporting
- Closed loop
  - Report  $\rightarrow$  Validate  $\rightarrow$  Repair  $\rightarrow$  Report
- Simple, effective user interface

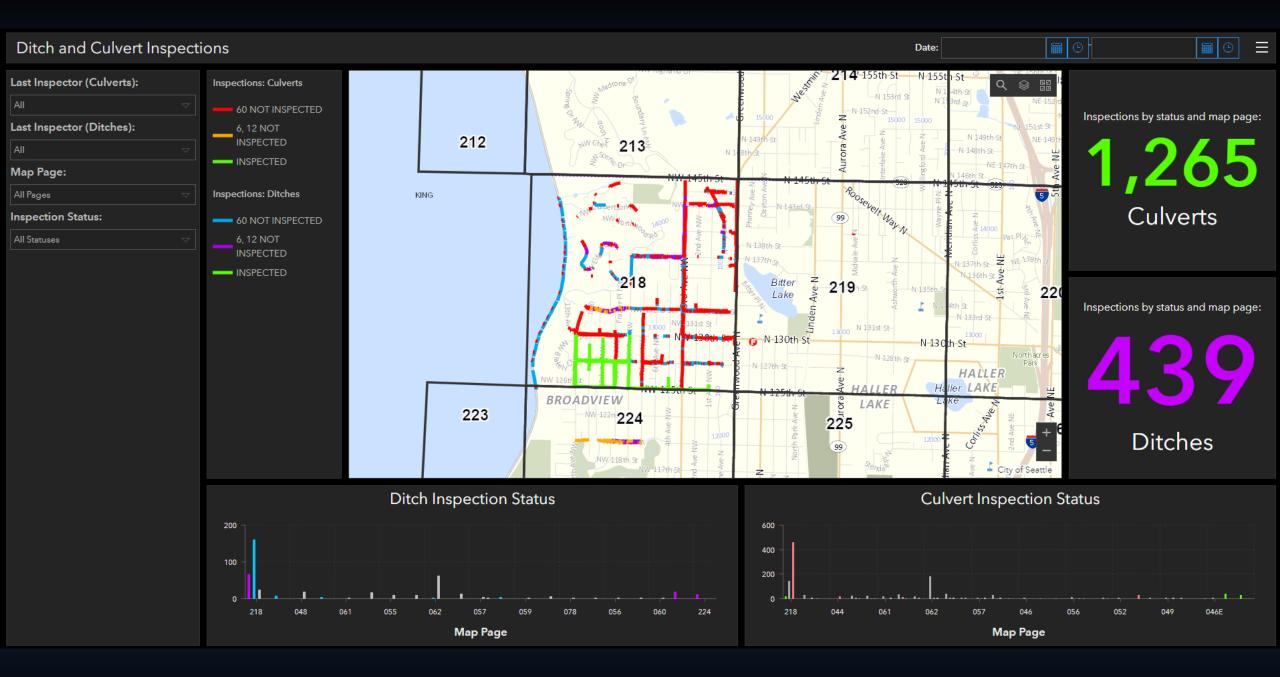
PROD Hydrant Inspections Dashboard ADMIN



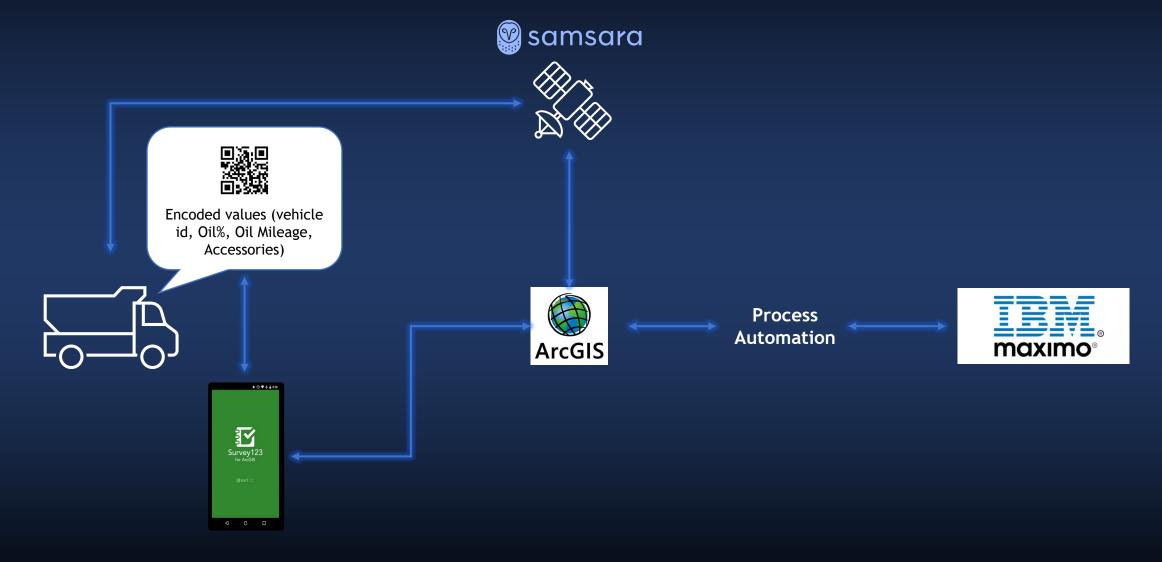


Last update: a few seconds ago





#### Fleet safety and maintenance management with ArcGIS



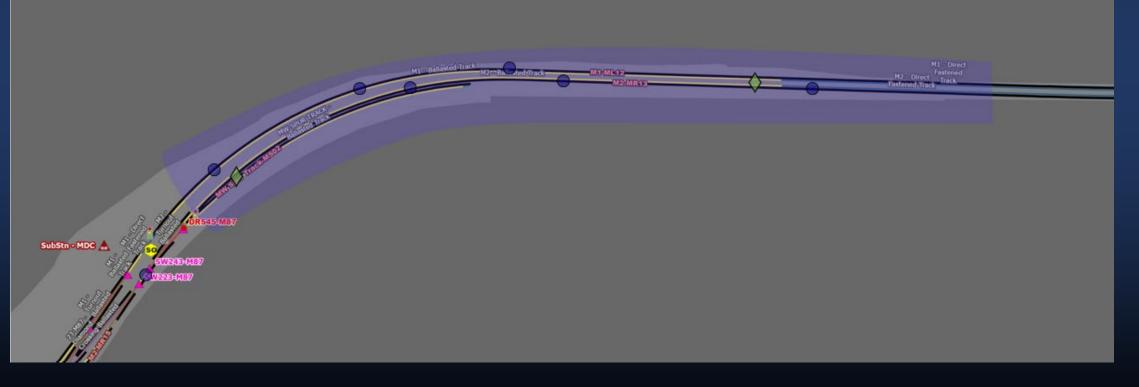


Corrective Maintenance Maximo WO

Planned Mitigations (Projects)

System Access Request (APPR)

# Transit Rail Maintenance



#### Emergency Dispatch

**Background:** Rapid response to reported gas leaks is critical. Client needed a way to assign the nearest, available, qualified crew to gas emergency work orders.

Somerville Raritan

Princeton

Hopewell

Job Code:	290 - Leak Repair		
Description:	Leak Repair Workorder		
Status:	APPR		
Location:	LKMX2135016		
Address:	167 JEFFERSON AVE RAHWAY,		
	NJ 07065		
Asset:	2320467 - R 275 Temperature		
	Compensa	ited	
Field Lead:	null - null		
Find V	ehicle Add	to Maximo List	í l
Name		Travel(min.)	Miles
Cape May Utility	Worker #4	65	56.8

**Use Case**: Assigning the driver of the nearest vehicle (based on travel time) to an emergency gas leak work order.

#### 3 Parts:

Flemington

L ambertville

Frenchtown

Storid: burg

 Visualize real-time vehicle locations (originating from Fleetboss) via Esri map services provided

Pompton Lakes

ect a Lave

Keansburg

34

Port Monmouth

List of vehicles closest (est. travel time) to a reported leak (Maximo work order).

Jamesburg

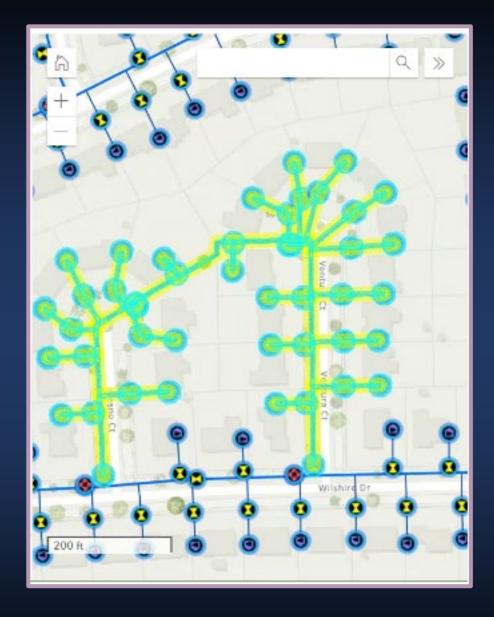
Kendall Park

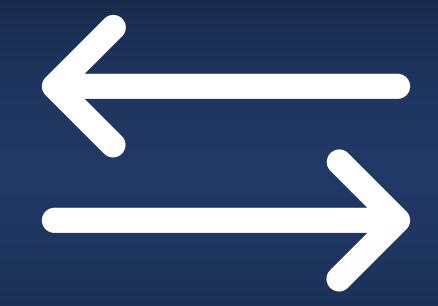
Monmouth Junction

Assign emergency work order to closest vehicle with relevant skills
(Maximo labor/skills)

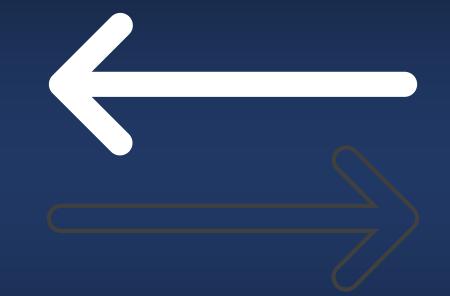
# ArcGIS Utility Network

- Network domains let you model operation and structural networks in an integrated fashion,
- Network rules help you build networks that suit your business requirements.
- Trace network features upstream or downstream from a given location.
  - water utilities can determine which valves to shut off when a pipe bursts.
  - an outage from an electrical network can affect the delivery of another resource, such as gas or water.



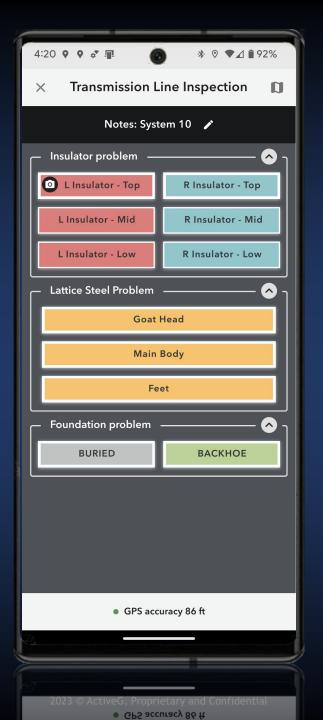


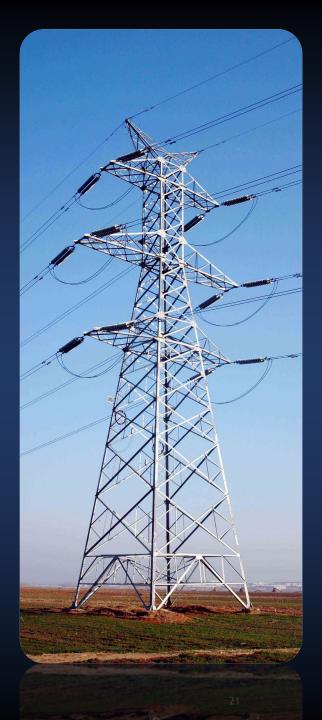
#### Start with data sync



#### Only sync essentials for decisions

#### Build fit-forpurpose processes





Leverage location intelligence to streamline user experience







# 4 Keys to Useful GIS/Maximo Integration

- Start with data sync
- •Only sync essentials needed for decisions
- Build fit-for-purpose processes
- •Leverage location intelligence to streamline user experience