

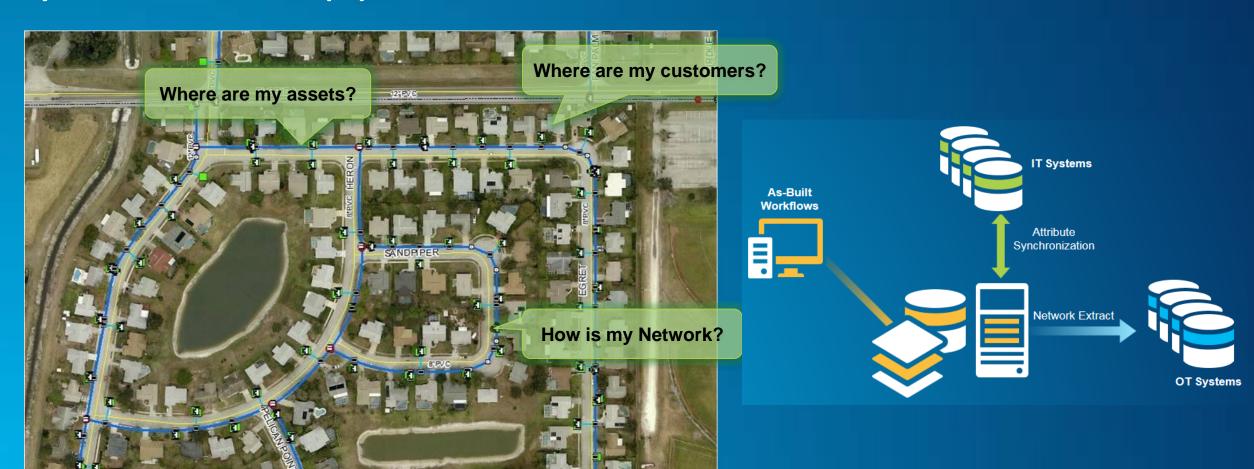
Esri's ArcGIS and ArcFM Software in Electric Utilities

S.No.	State Electric Utility	S.No.	State Electric Utility
1	Karnataka	13	J&K
2	Haryana	14	Jharkhand
3	Rajasthan	15	Himachal Pradesh
4	Uttar Pradesh	16	Sikkim
5	West Bengal	17	Assam
6	Gujarat	18	Manipur
7	Maharashtra	19	Meghalaya
8	Punjab	20	Mizoram
9	Madhya Pradesh	21	Nagaland
10	Andhra Pradesh	22	Sikkim
11	Tamil Nadu	23	Tripura
12	Uttarakhand	24	Odisha

S.No.	Private Utilities
1	BSES Yamuna Power
2	BSES Rajdhani Power
3	Reliance Energy
4	Essel

Current Status of GIS in Utility

System of Record – map, publish and view Asset Data





Utilities Are Evolving

Undergoing a Massive

Digital Transformation

Renewables Integration

"Prosumers"

Grid "Edge" Automation (SG/IoT)

AMI / SCADA

Mobile Applications

Increasing need to understand the business.... geospatially

GIS Needs to Transform

Connecting People, Processes, Things and Data About Them

Improving Efficiency, Collaboration and Communication

System of Engagement

Helping Utilities
Understand . . .

System of Record

System of Insight



Supports Multiple Types of Systems



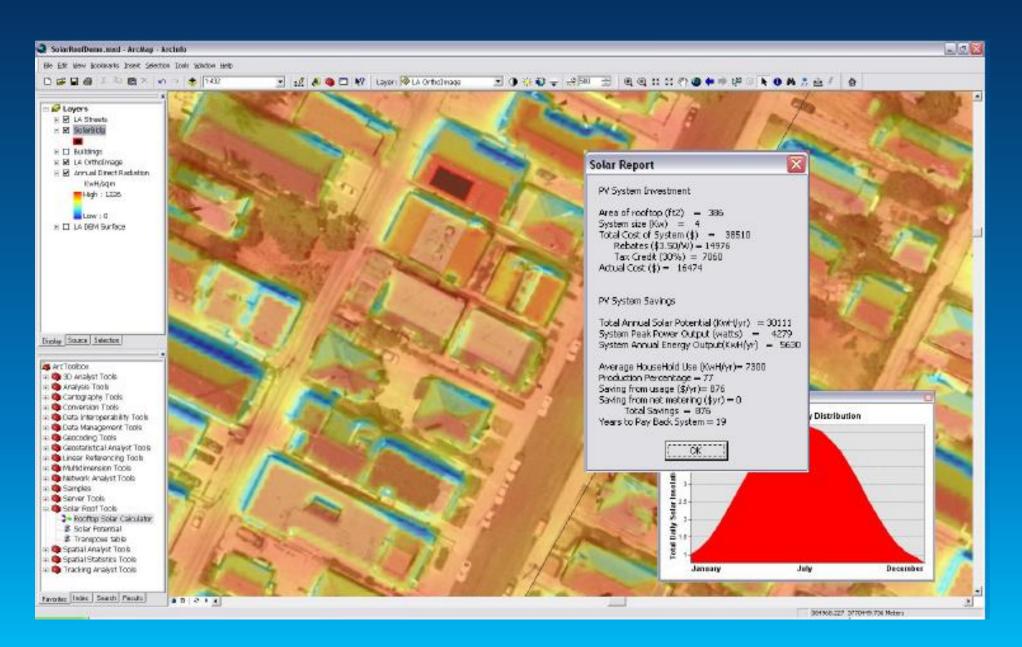


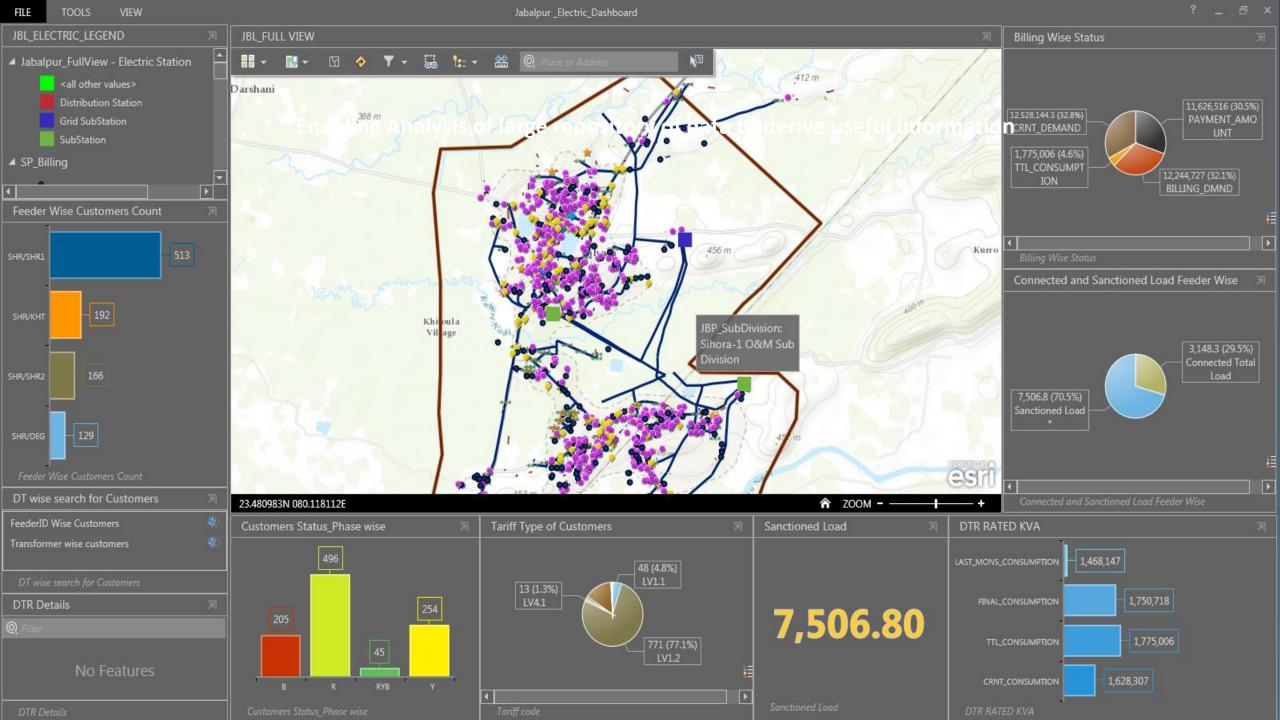
GIS needs to support Advanced Analytics and Visualization

Utilities are becoming 'Data Rich'



Renewable Potential













0:



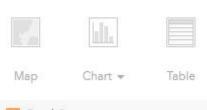
+ ADD DATA

Page 1

Output Page 1



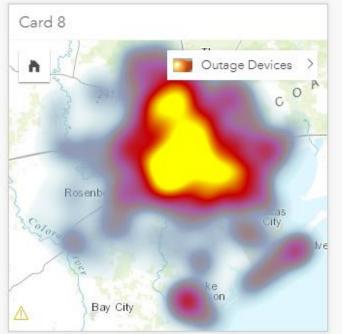




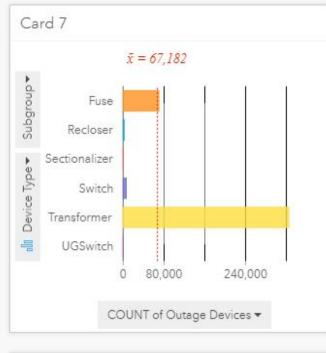


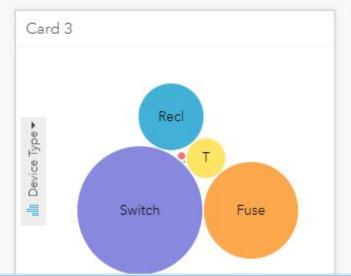
- ▶ E Card 3
- ▶ E Card 6
- ▶ 🔁 Card 7
- ▼ Outage Devices
 - Location
 - Outage ID
 - Outage Start Time

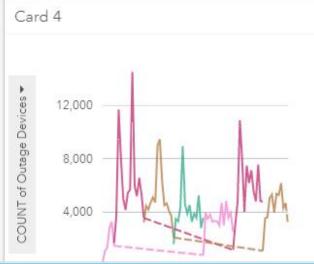
 - Outage End Time
 - Outage Minutes
 - Momentary Flag
 - Cusomer Count
 - Device ID
 - Device Type
- ▶ OutageSummaries2s...

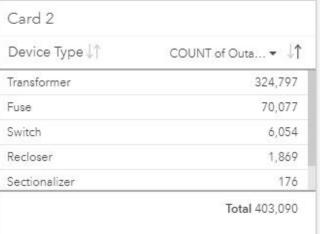












System of Engagement



Enabling System of Engagement



Production GIS Viewer



Transmission
- Web Viewer

IT



Manhole Inspections



Aerial Transmission Inspections



- Streetlight Billing
- Customer Analysis
- Tax Districts
- Etc.



Critical Facilities Map



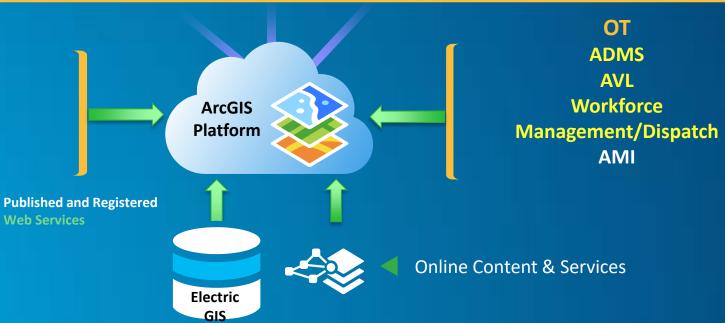
Management





Monitoring Emergency
Preparedness

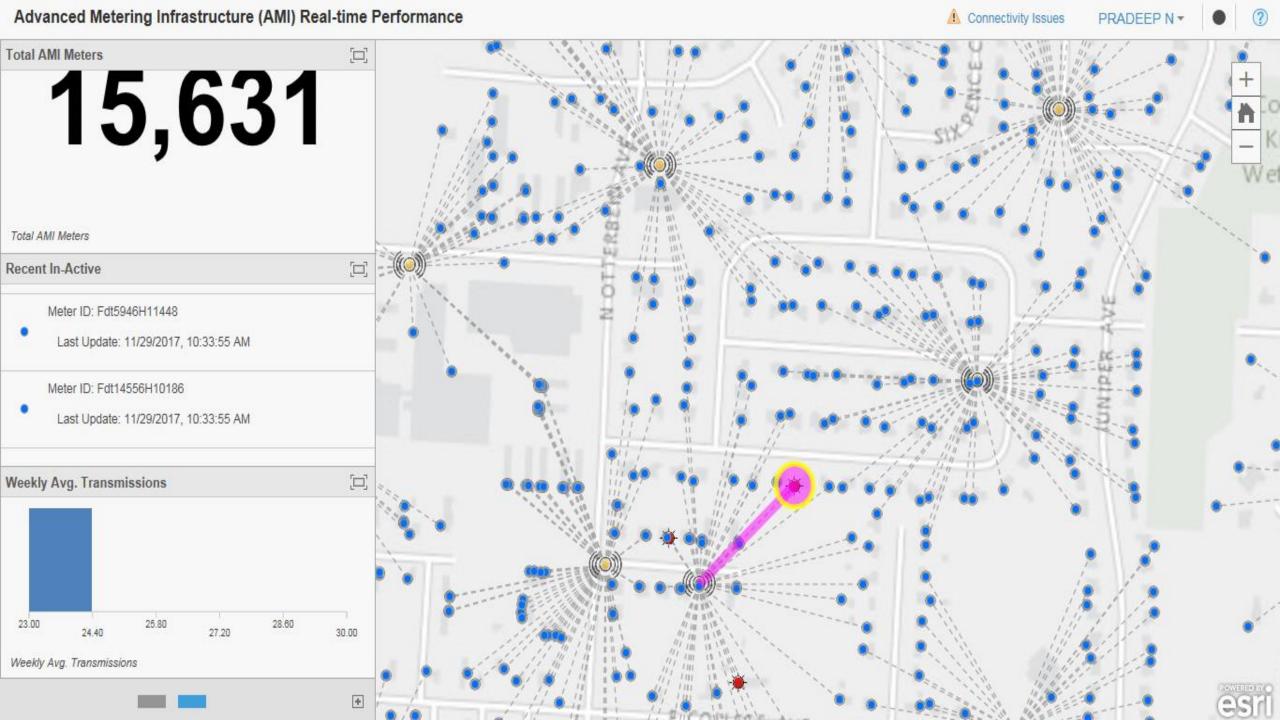
Historic Inspections Work Management Financial EPR

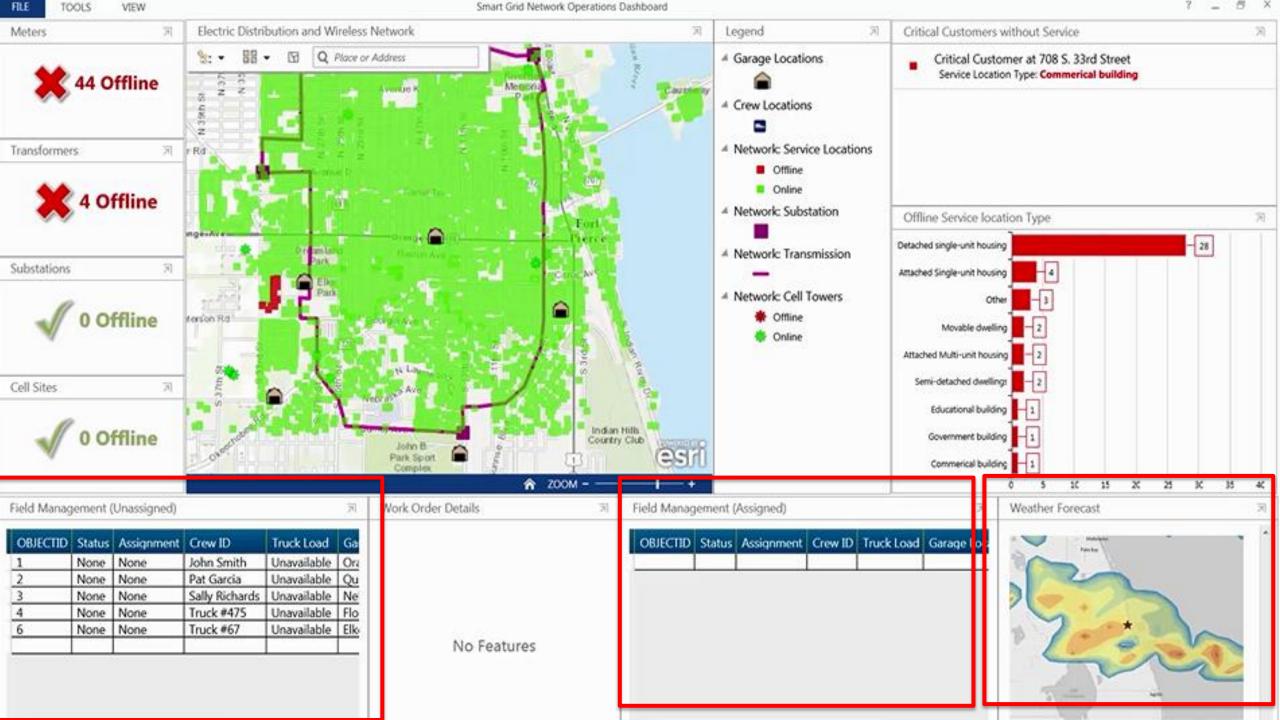


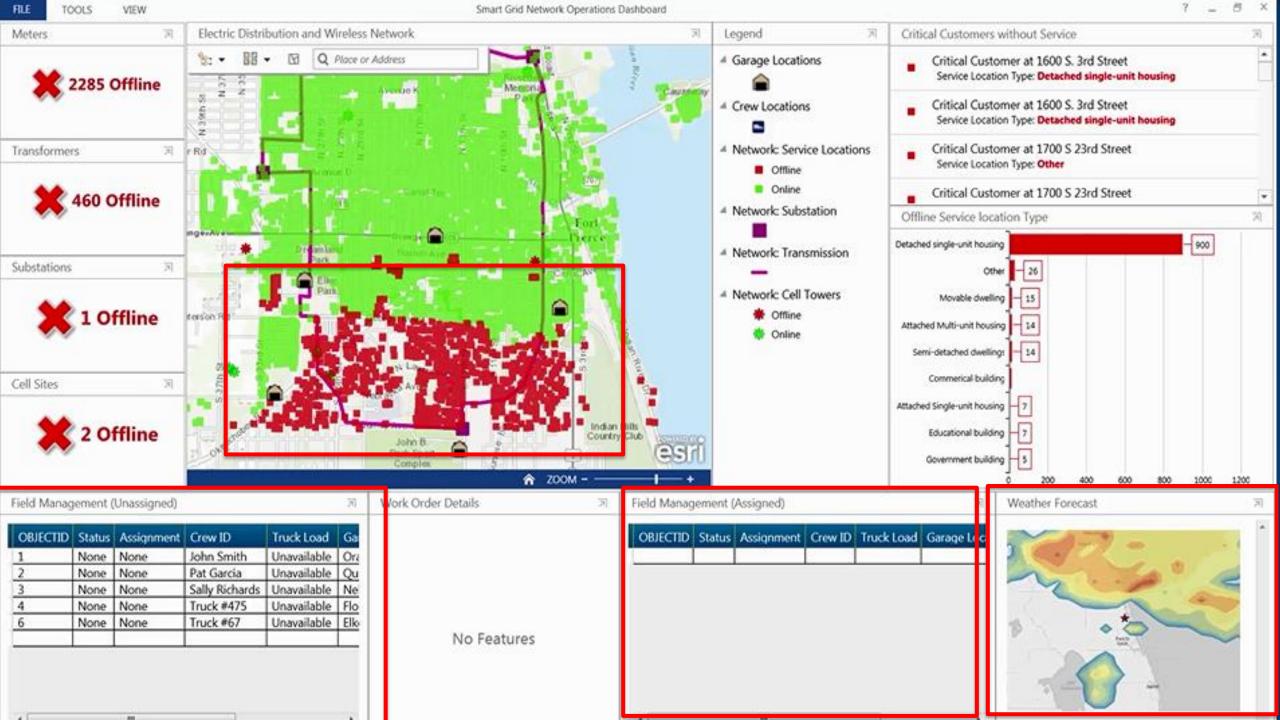
Enterprise ArcGIS Platform

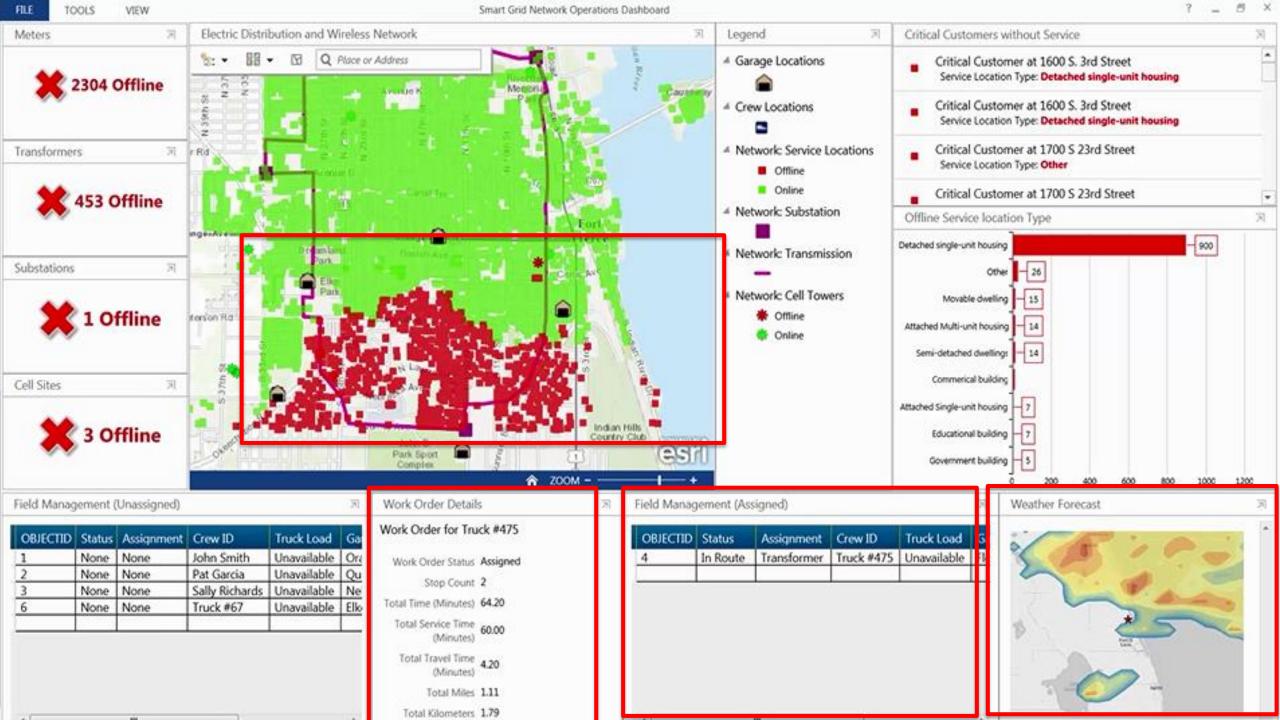
Cross Functional Utility GIS

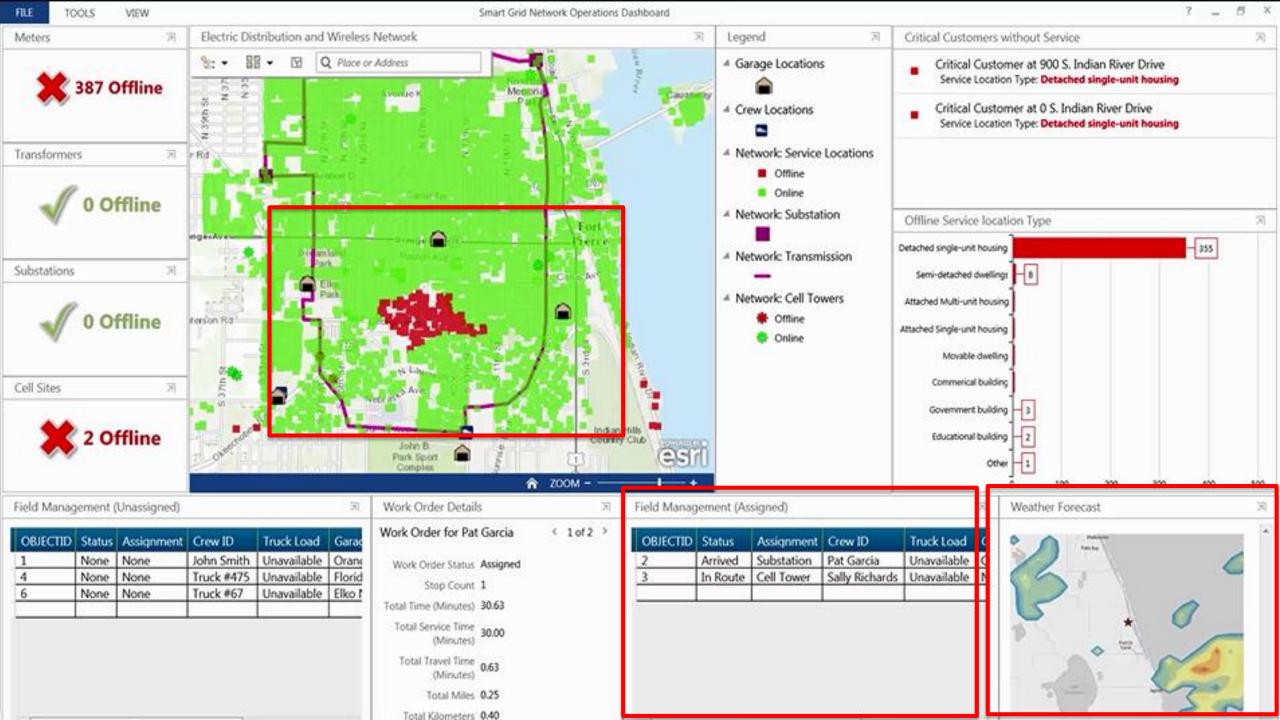






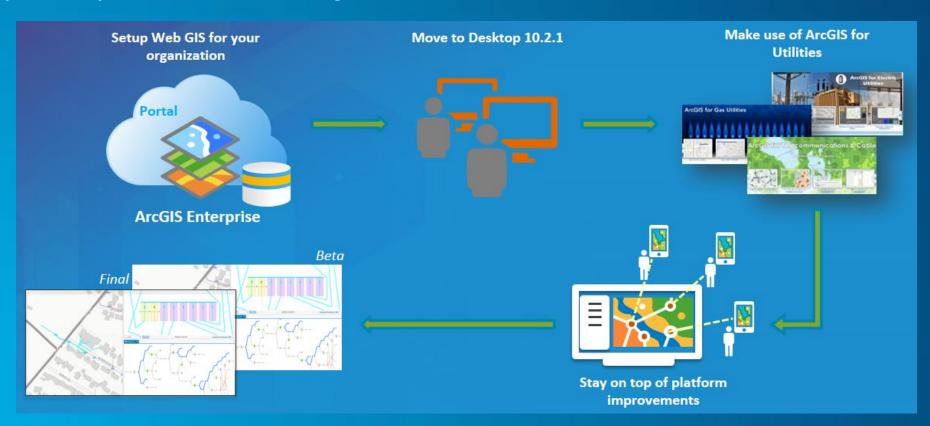






Way Forward..... Towards a Smarter Utility

- Technology has evolved We need to take advantage
 - Technology Updates Legacy Product to Current
 - Base Map updates Current
 - Utility Asset update LT/HT/Poles/Transformers etc.,
 - Application updates WebADF / Silverlight to JS HTML5



Thank You!



FAST@MPANY
THE WORLD'S
MOST INNOVATIVE
COMPANIES 2017

THE SCIENCE OF WHERE

One of Fast Company's 2017 Top 10 Most Innovative Companies in Data Science