



GIS FOR OPERATIONAL INTELLIGENCE

Presented by **Bill Meehan, Esri**
Dave Twichell, Esri





Stanley's Intelligence

=Operational Intelligence

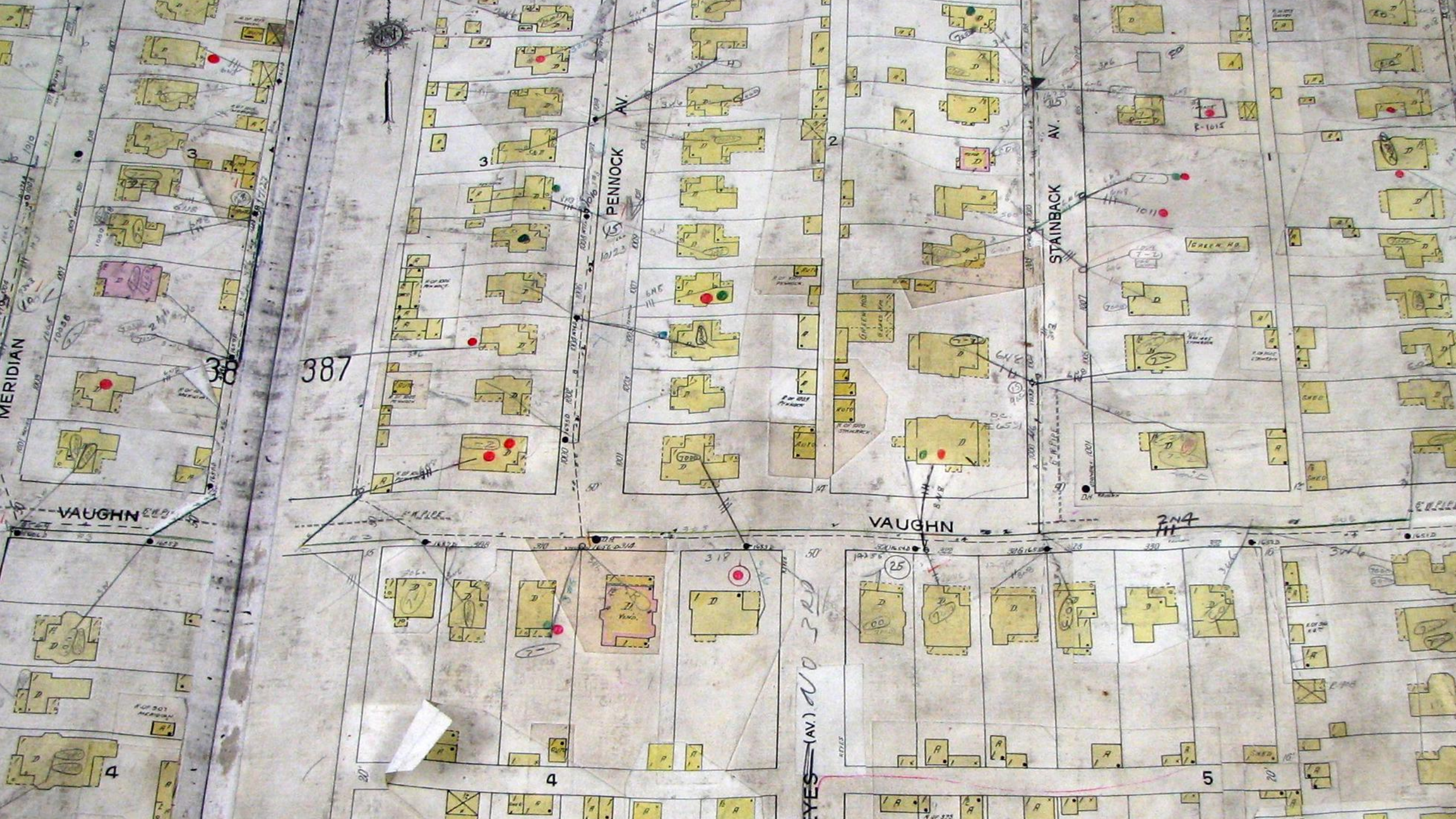
Operational Intelligence

delivers the knowledge that you need to run
**efficiently, maximize revenue, and deliver
better experiences** to your customers



1 Word to Describe GIS?

MAP!











Analytics

Big Data



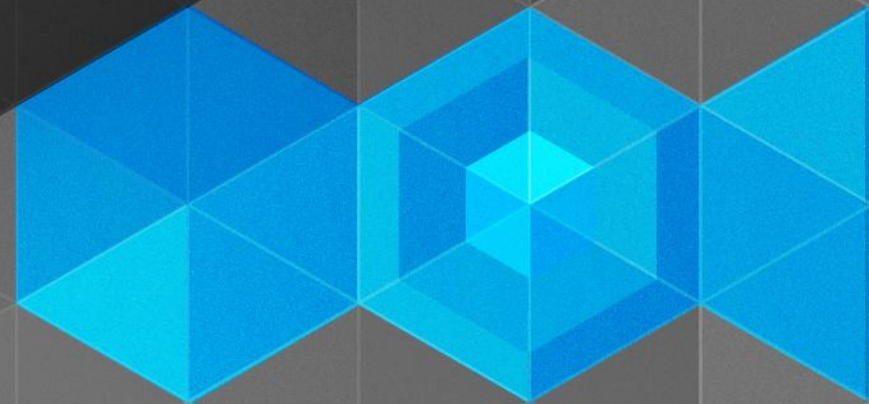
Sharing

Real-Time Operations



Efficiency

Are you seeing the whole picture?





WHUD Discovers \$430k in Annual Savings

\$315,000 In the first week!

DMA Zone Details

MulloyNorth Zone

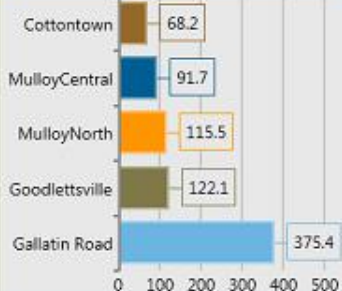
Cost per Day 332.61
GPM at Stake 115.49
Min Night Flow 180.99
Survey Date 9/21/2016 04:30 AM
Target PI 0.05
GPM per Conn 0.14
Miles of Pipe 62.04
Num of Conn 1310
Comments target 66 mnf

Total Cost per Day

\$ 3685.76021986561

Cost is \$2.00 per 1000 gallons

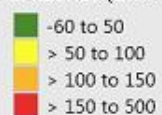
Top 5 GPM at Stake



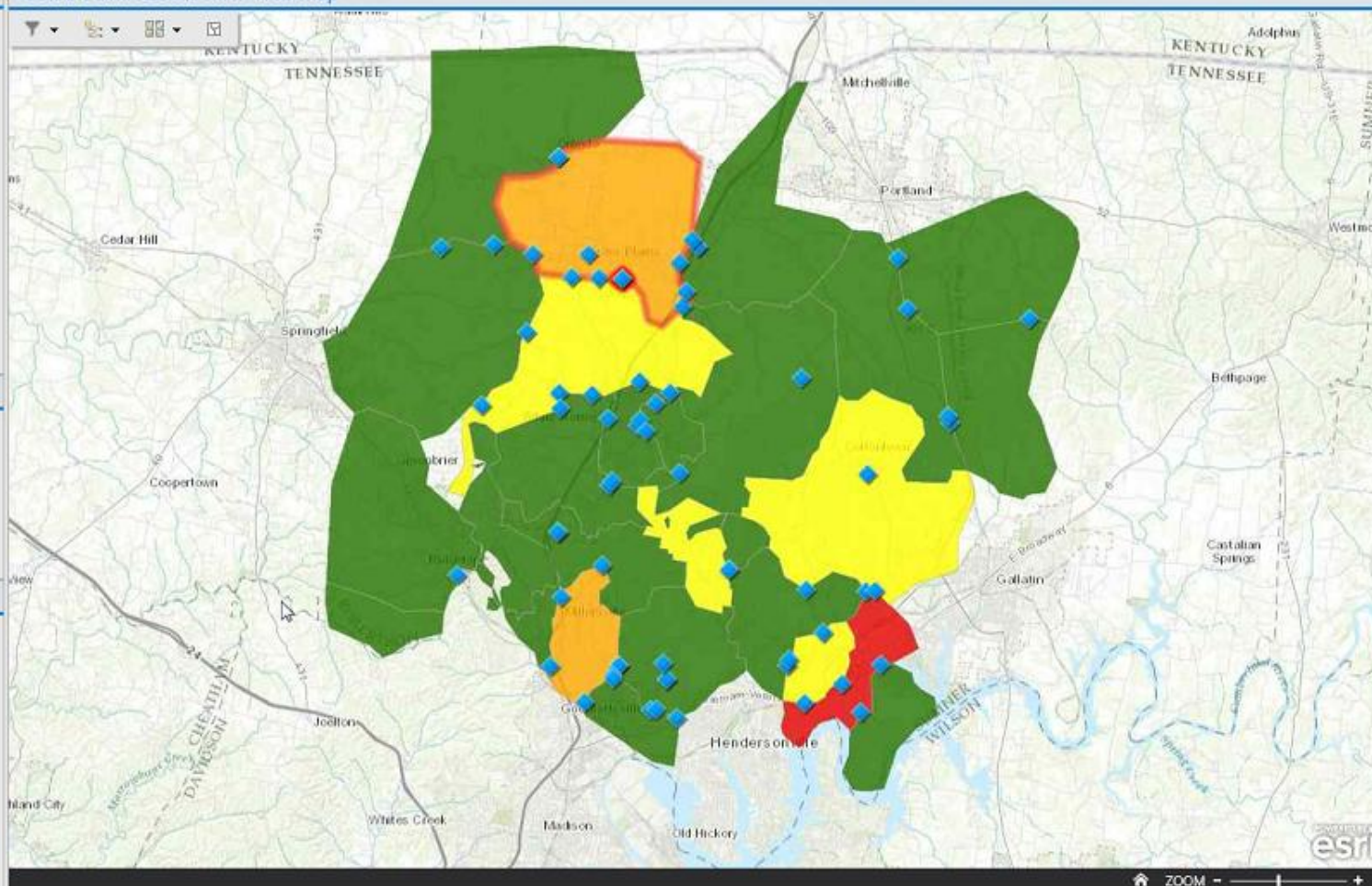
Legend

DMA Meters

DMA Zones (GPM at Stake)



OSiSoft DMA Zones MNF Web Map



DMA Zones

- MulloyNorth
MNF 180.989990234375 @ 09/21/2016 4:30:00 AM
- Mount Olive
MNF 16.0400009155273 @ 09/21/2016 4:00:00 AM
- Hwy 41
MNF 76.1556954887849 @ 09/21/2016 3:50:51 AM
- Station Camp
MNF 120.980010986328 @ 09/21/2016 3:45:00 AM
- Lower Centerpoint
MNF 93.5475997924805 @ 09/21/2016 3:11:11 AM

DMA Zone MNF History Web Map



DMA Zone Flow

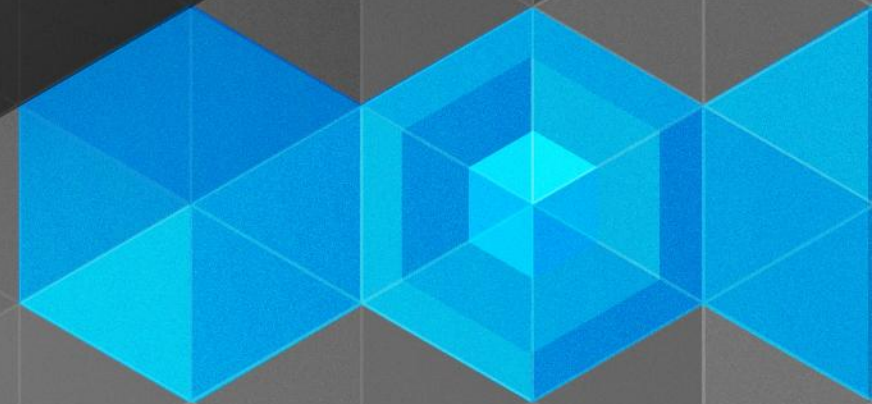


DMA Meter data



Revenue

Are you increasing cash flow?

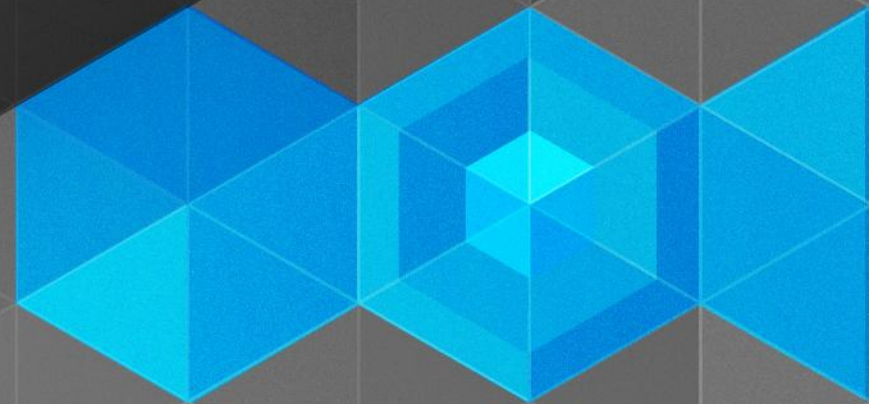



Bell Aliant Delivers New Services to 650,000 Customers



Customer Experience

Are your customers satisfied?





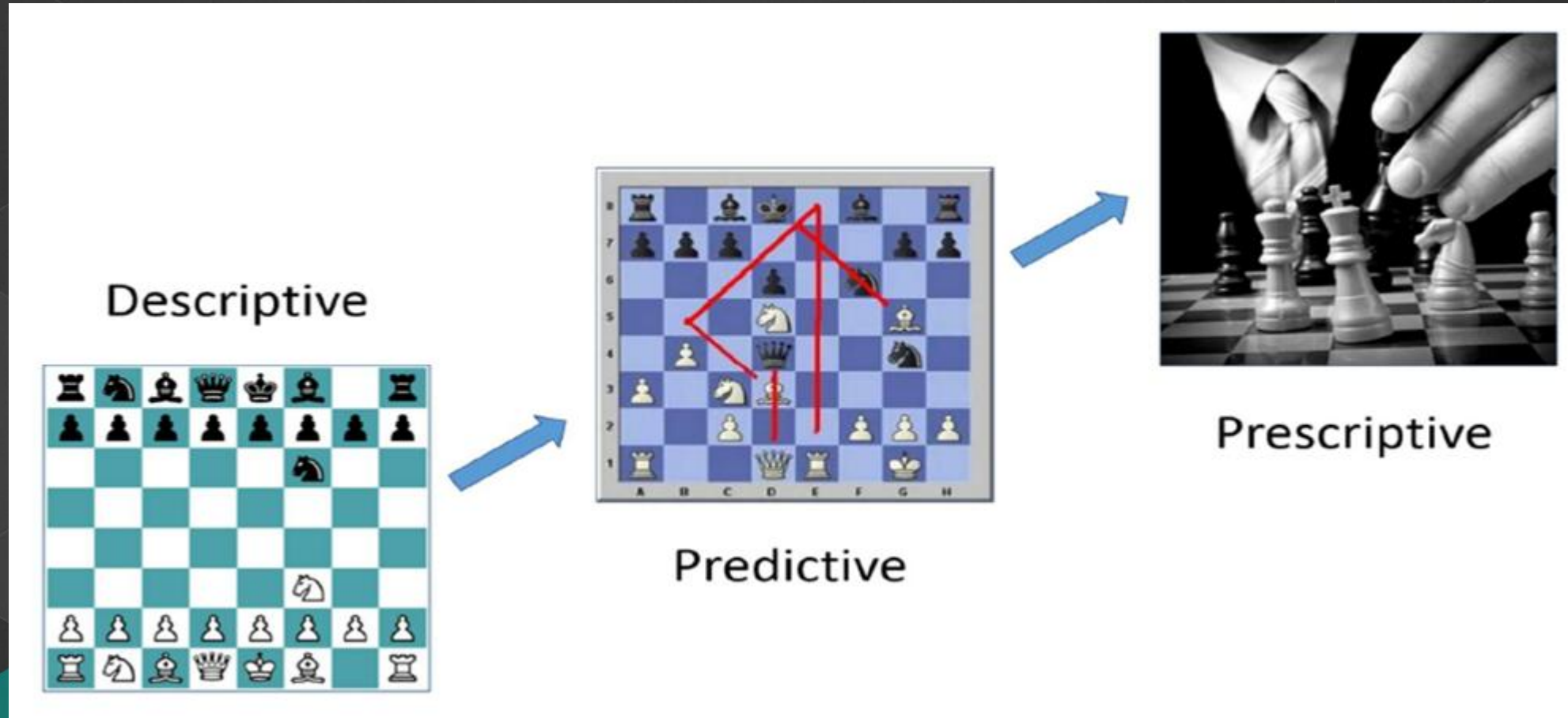
Santa Clara County Improves Congestion for 1.8 M Commuters

Meet Stanley's Replacement

Bob



GIS + PI System can Advance Operations





5 Steps to OI

1

Map Critical Assets

Create Connection Between Physical & Digital

Connect Data Feeds

Real-Time, Field, Social, ERP, EAM, Drones

Define Operating Rules & Workflows

Set Alerts, Geofencing, On-the-fly Analysis

Share Intelligence Securely

With all stakeholders (both internal & external)

Perform Optimized Work

Field, Manual, Automated

System Events Down-Assigned

2

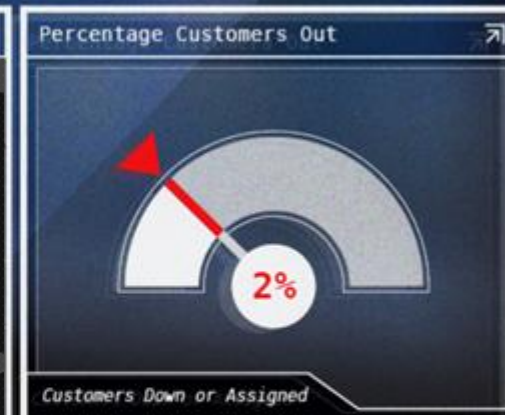
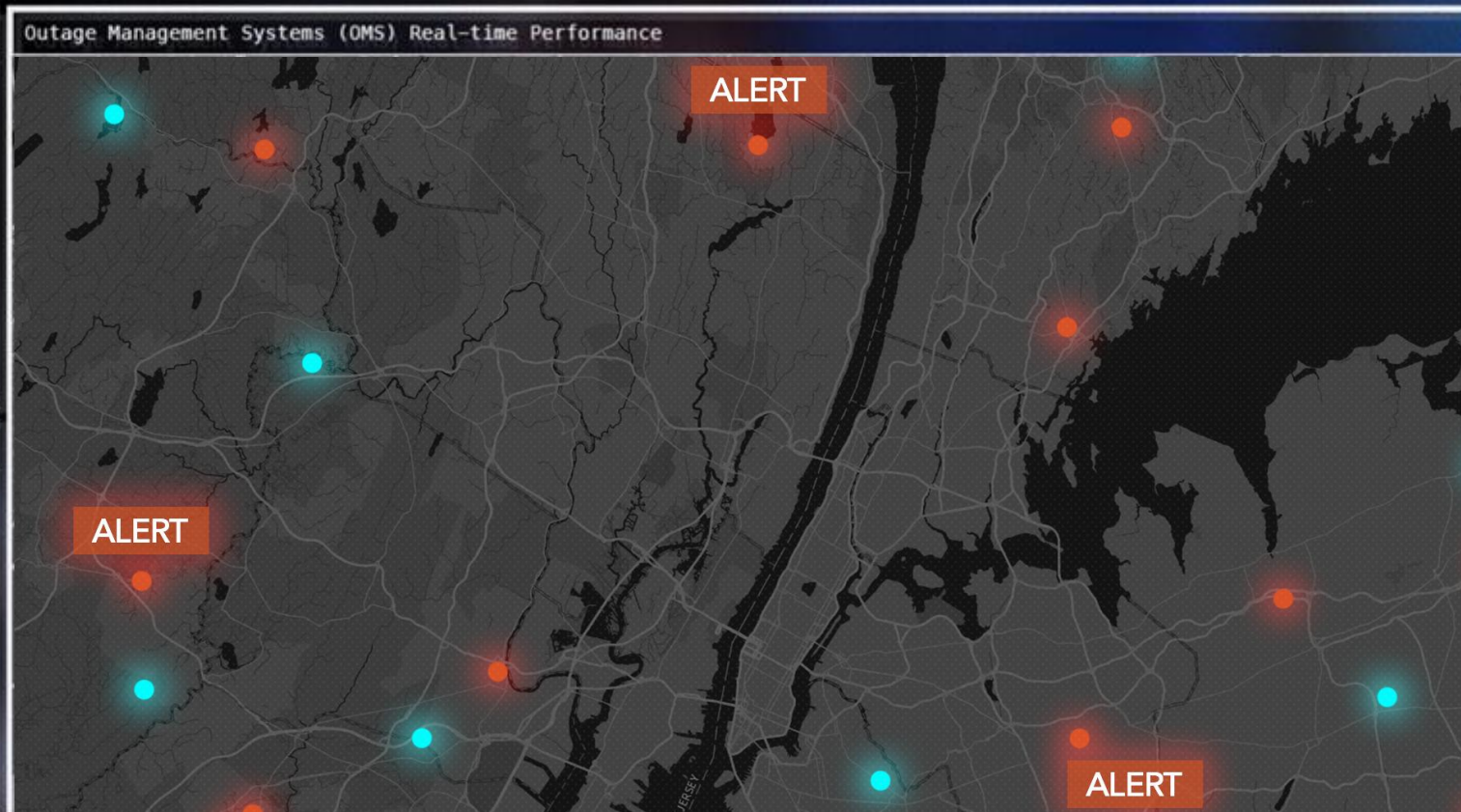
Down or Assigned Events



Recent System Events

- Outage: Fuse**
Time: August 30, 2016
Status: Down
- Outage: Transformer**
Time: August 30, 2016
Status: Down

Recent System Events



Recent Outages

- Premise ID: 193130860**
Time: 8/30/2016 01:51:07 PM
Status: Down
- Premise ID: 109834010**
Time: 8/30/2016 01:51:06 PM
Status: Down
- Premise ID: 135279117**
Time: 8/30/2016 01:51:05 PM

Urgent Damage

ALERT

Urgent Damage Events

7

Urgent Damage

ALERT

Total Damage Locations

33



Esri + OSIssoft Quiz

Mapping Your Real-Time Data? Or Adding Real-Time to Your Map?



Esri + OSIssoft Quiz

Mapping Your Real-Time Data? Or Adding Real-Time to Your Map?

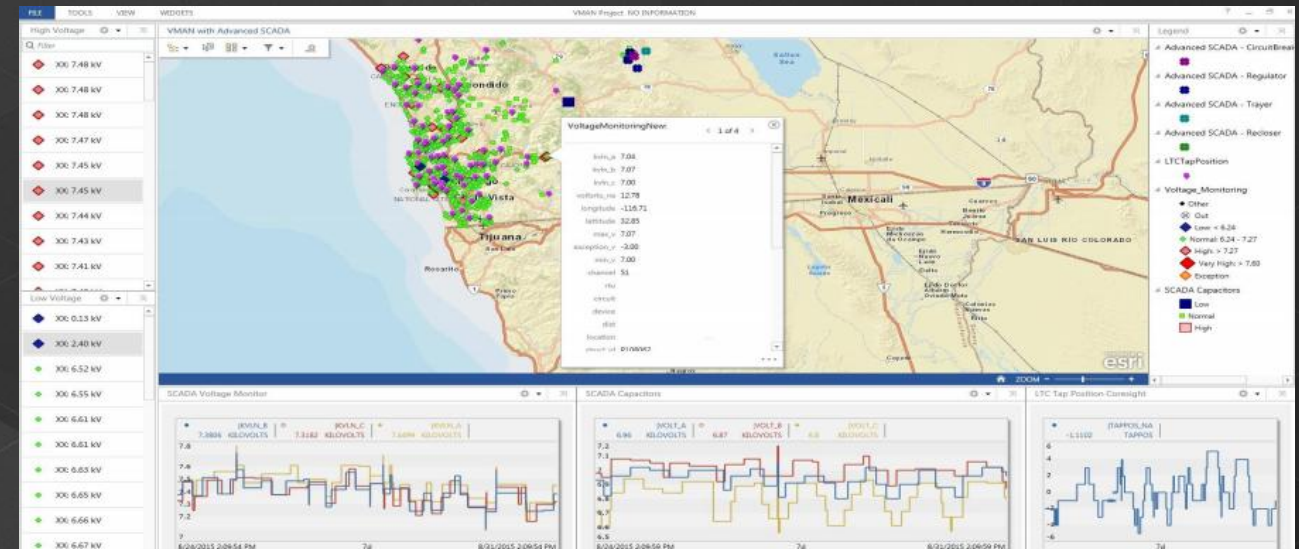
NEITHER



Esri + OSIsoft



- It's a revolutionary change
- **SDG&E Creates New Information for Operators**
 - Real-Time Circuit Watch list
 - Voltage Monitoring
 - Weather Monitoring
 - Shared automatically to Ops Center, Managers, Field, etc.



Contact Information

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Questions

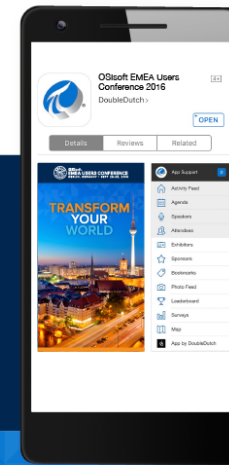
Please wait for the **microphone** before asking your questions

State your **name & company**



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