

Connecting Space and Time

Presented by Laura Berman





OSIsoft. PI SYSTEM ROADSHOW 2014

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big data collections

sensor networks

business systems

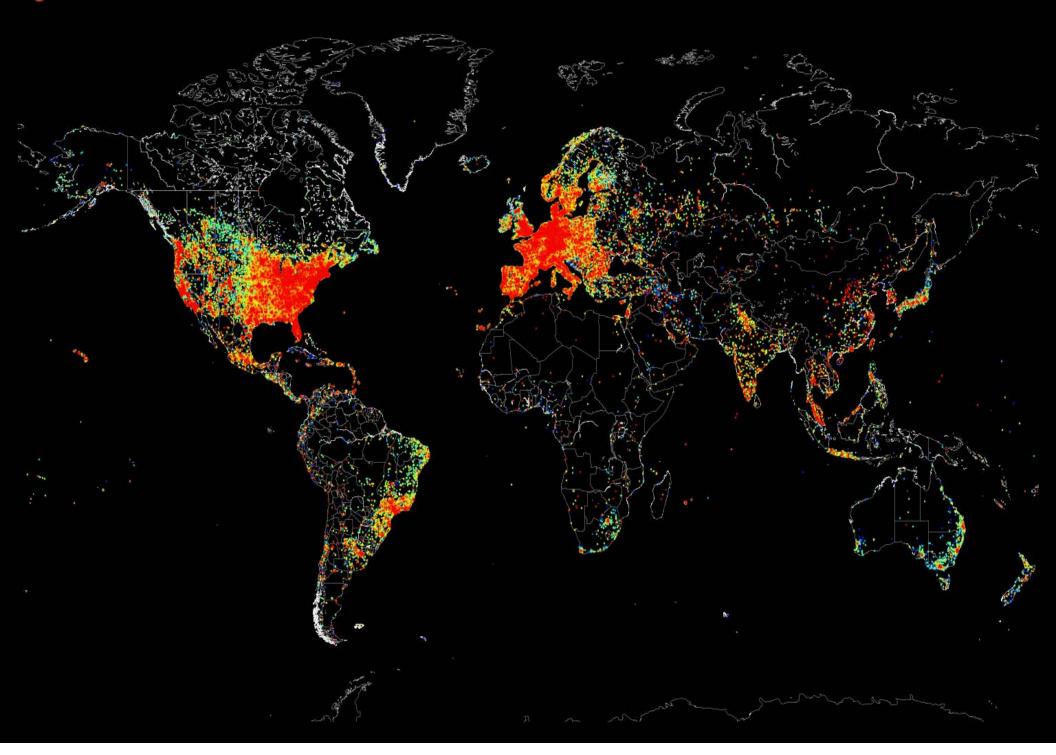
spreadsheets

web services

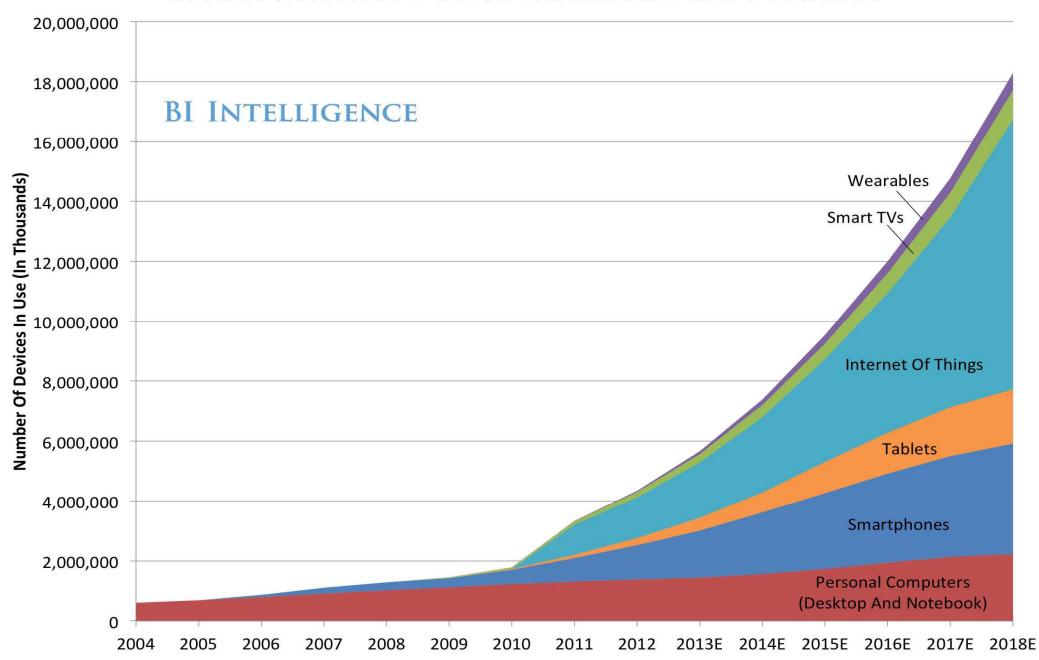
social media

images / video

analytics

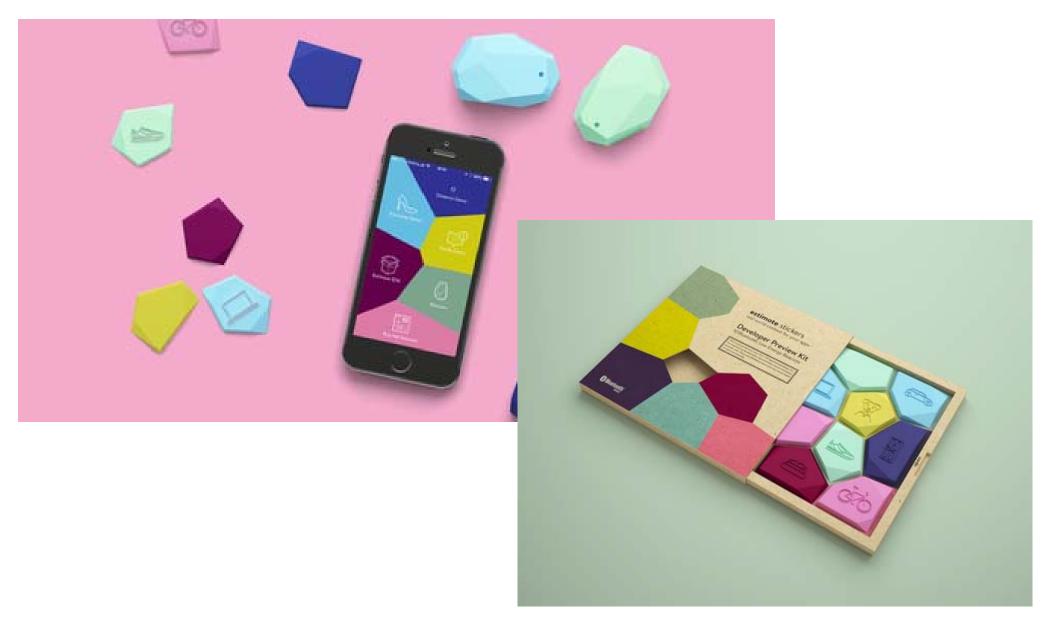


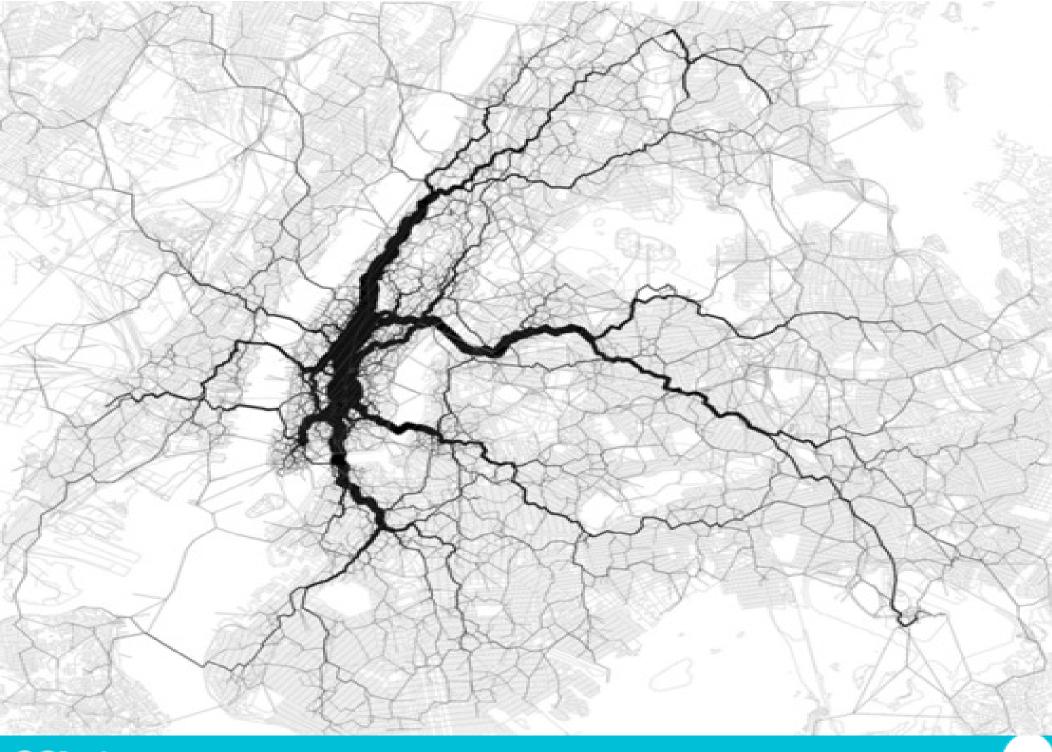
Global Internet Device Installed Base Forecast



Source: Gartner, IDC, Strategy Analytics, Machina Research, company filings, BII estimates

Estimote Stickers – Hyper Local Sensor Networks Nearables





GIS Is Being Transformed

Into a Location Platform



Making it Pervasive
. . . Involving Everyone



How important is location in business?



Source: Ventana Research Location Analytics Benchmark Research 2013

More than Location





Value of Understanding Place Tobler's 1st Law of Geography



Esri | Privately Held

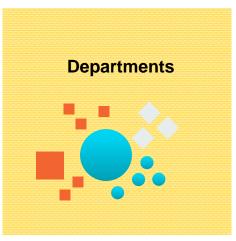
Making a Difference . . . And Contributing to Society



OFFERINGS





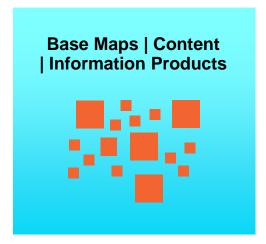




PRODUCTS

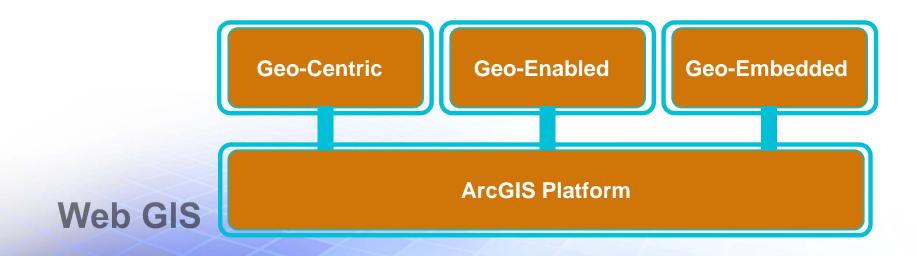






Strategy

Build, Sell, and Support Common Platform For Three Communities



... and Provide Partners with Technology, Services, and Support

Web GIS Supports Everyone

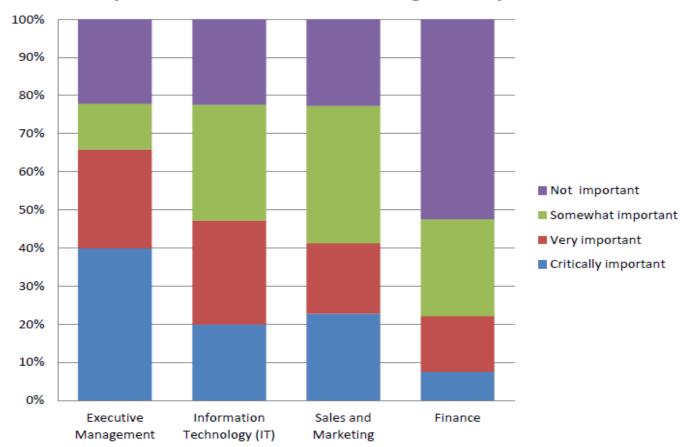
Providing a Common Location Platform



Across Organisations and Across Partners
. . . a Framework for Integration

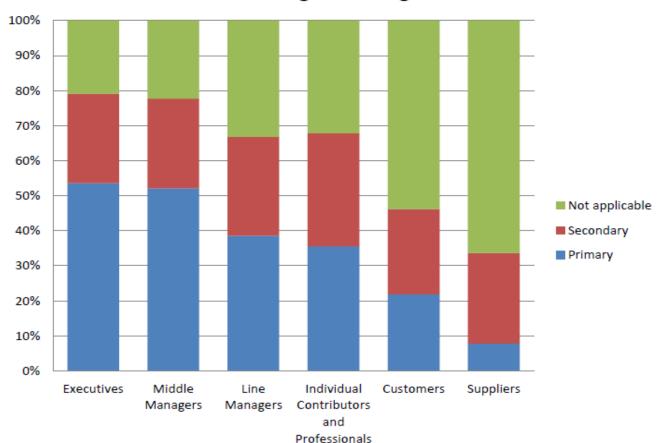
Wisdom of Crowds® Location Intelligence Market Study 2014 2014 Dresner Advisory Services

Importance of Location Intelligence by Function



Wisdom of Crowds® Location Intelligence Market Study 2014 2014 Dresner Advisory Services

Location Intelligence Targeted Users



They don't want any

limitations for all their users.

They want one corporate system.

They want information at everyone's fingertips in

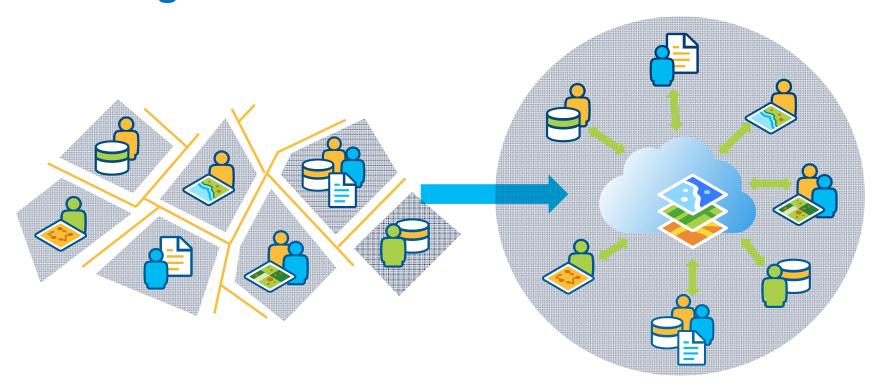
3-clicks or less.

They want uniformity in all their maps.

And, they want this to be as easy to use as their iPhones.

Web GIS Helps Integrate Our Partner Solutions

Breaking Down the Barriers



Creating New Relationships

. . . Supporting Collaborative Approaches

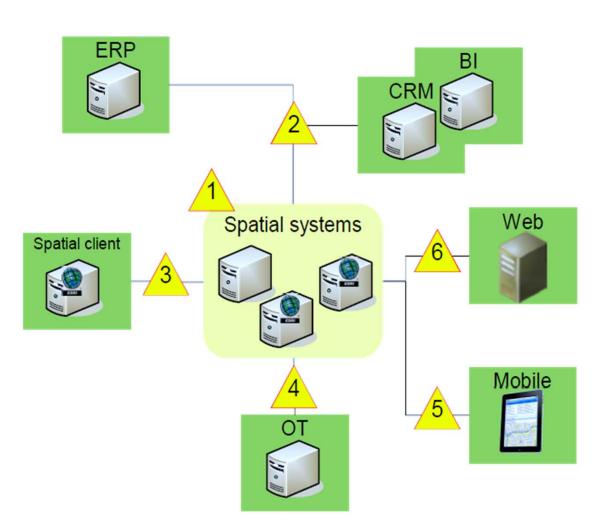


Without Integration

The Past - Sinking Feeling



Our Communities Struggle with Important Questions



- 1. Which spatial system has my data and which version?
- 2. How do I sync data between business and spatial systems?
- 3. How do I access my business data from my spatial client tools?
- 4. How do I merge business and spatial data with my operations systems?
- 5. How do I connect and sync spatial data to mobile devices?
- 6. How to I provide web?

Traditional Integration



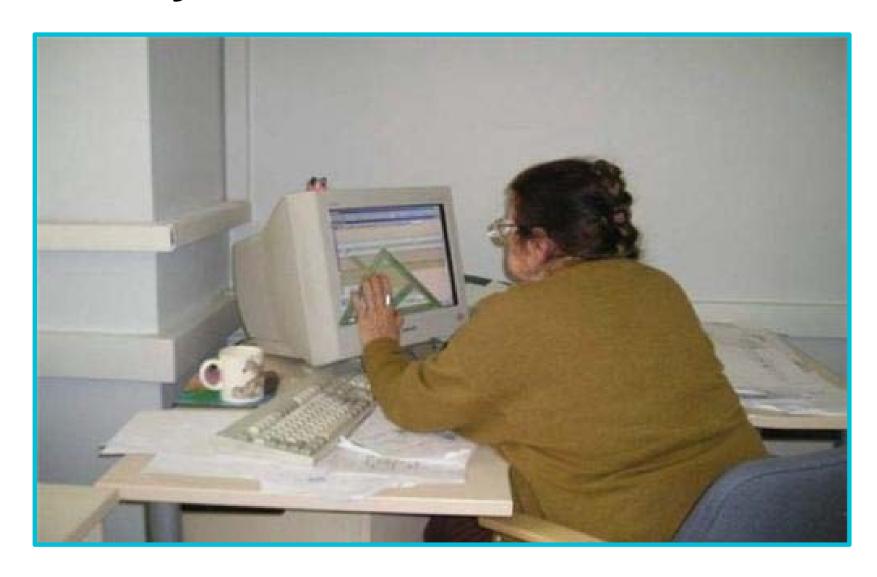
Complexity



Over Engineered



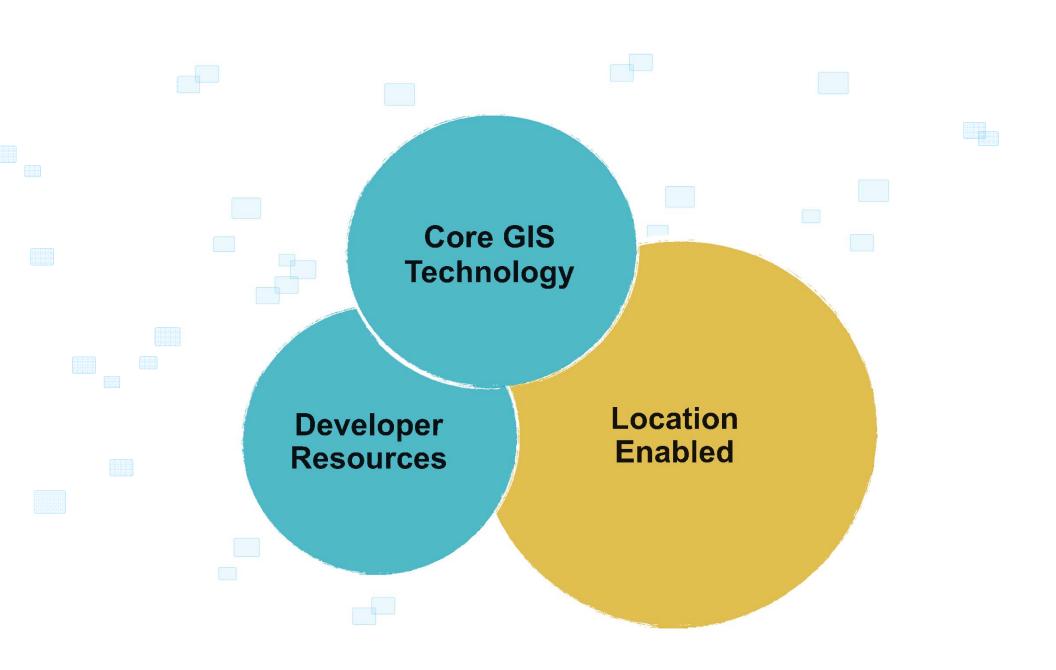
Usability

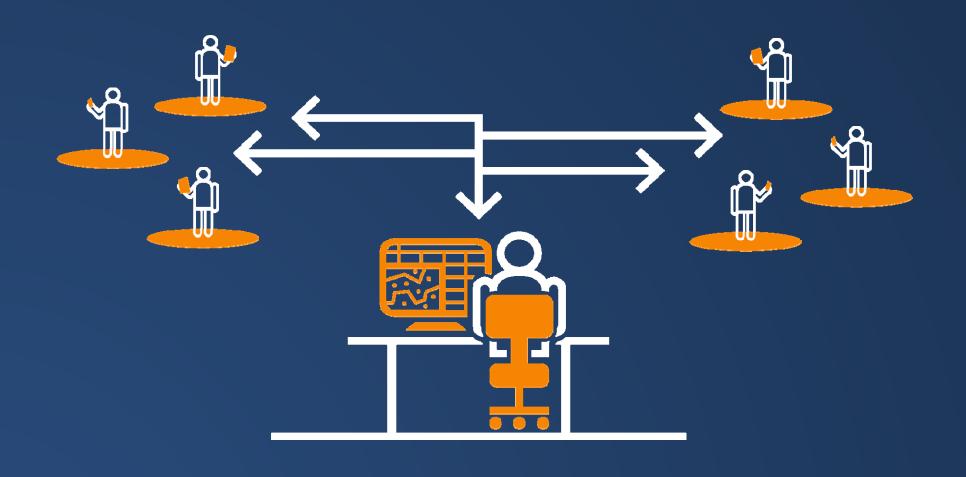


Lack of Agility



Complementary
Non-disruptive
Frictionless
Transparent





After Integration



Partners

Delivering Thousands of Solutions, Apps, Services, Data and Technology

SPATIAL DIMENSION GIS SOLUTIONS SCHNEIDER ELECTRIC

SPATIAL DIMENSION GIS SOLUTIONS SCHNEIDER ELECTRIC

APPLIED GEOGRAPHICS GEONAMIC PARTNERS WHITESTAR CORPORATION WSB & ASSOCIATES

MOTION COMPUTING ISG CONSULTORIA E SISTEMAS

GEOINT CIA GEOSECURE INFORMATIK VESTRA LANTMATERIET GREBIT SOLUTIONS

TECHNO BRAIN

JMT
SEILER INSTRUMENT LIM GEOMATICS

SEILER INSTRUMENT LIM GEOMATICS

THE SCHNEIDER CORP
GEOCGI VALTUS IMAGERY SERVICES

THE SCHNEIDER CORP
GEOCGI VALTUS IMAGERY SERVICES

LATITUDE GEOGRAPHICS

KIRSTY BURT GIS M O S S COMPUTER

WORLDVIEW SOLUTIONS ACCUWEATHER
TECHTARGET MARKLOGIC CORPORATION

NEW CENTURY COLER & COLANTONIO CITRIX ARC GREENLAB DATA TRANSFER SOLUTIONS

LIZARDTECH GISI MDA INFORMATION SYSTEMS



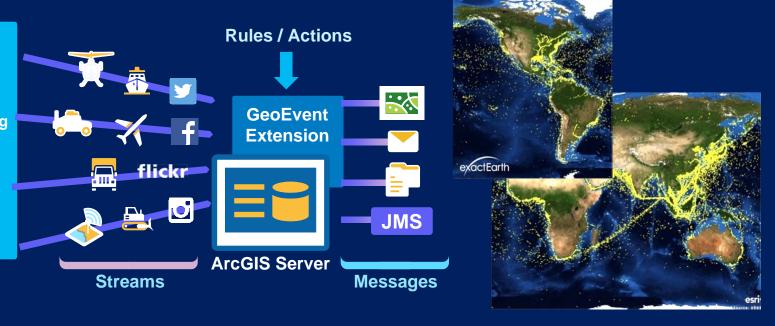
Connecting Space and Time OSIsoft & Esri

Real Time

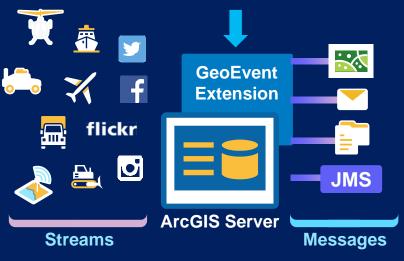
ArcGIS GeoEvent Extension for Server Integrates and Exploits Real Time Data

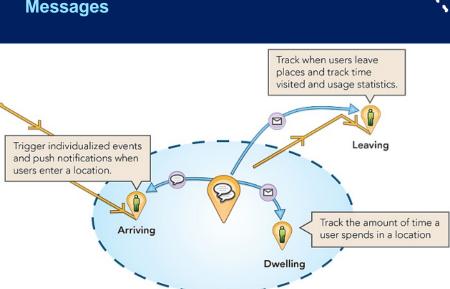
Enabling

- Big Data
- Stream Processing
- Geo-Fencing

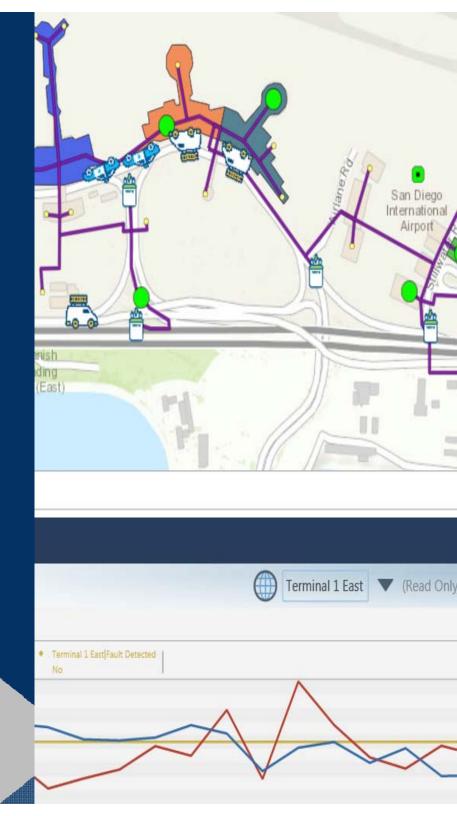


Continuous Processing and Analysis

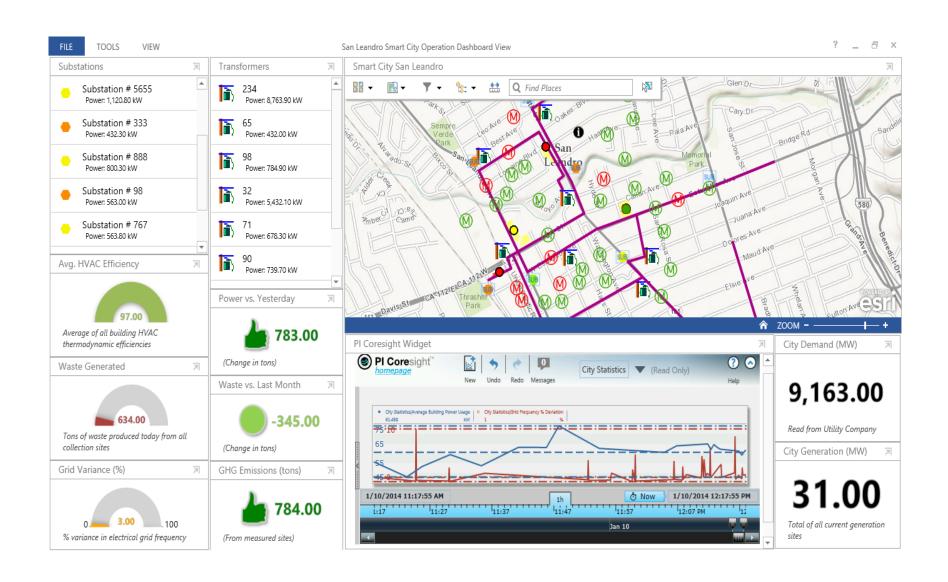




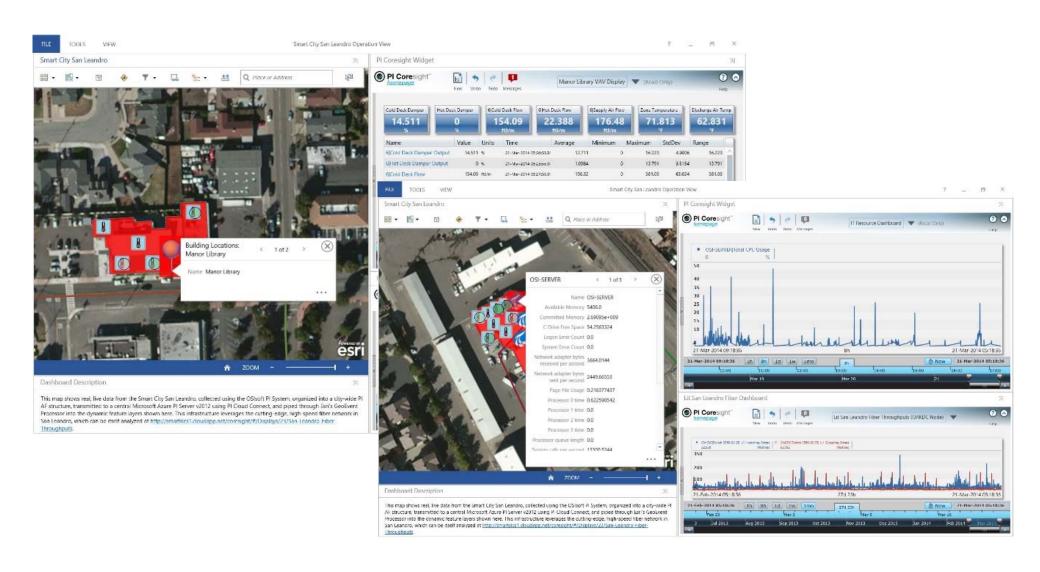
OSIsoft & Esri



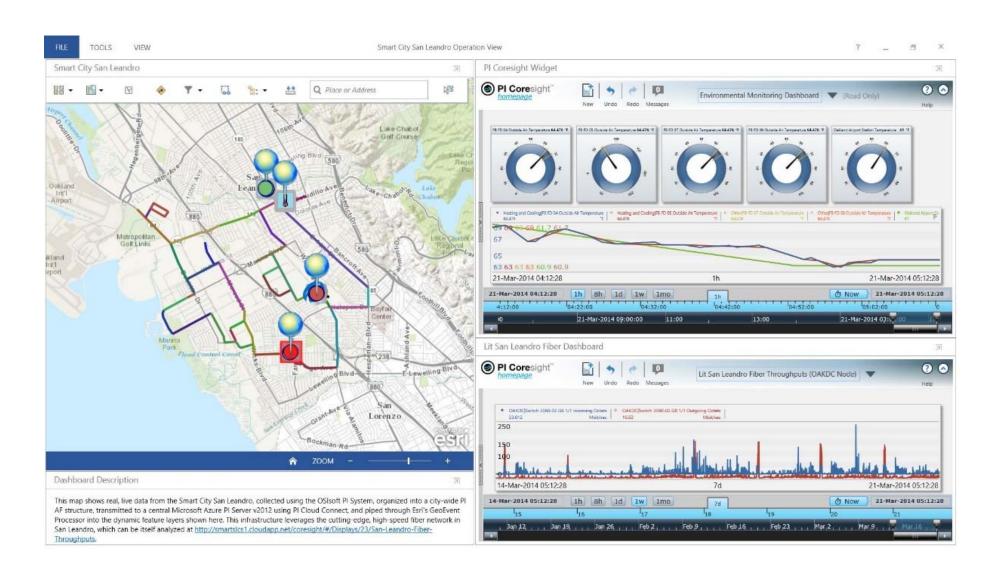
Operational Performance View



Energy Management

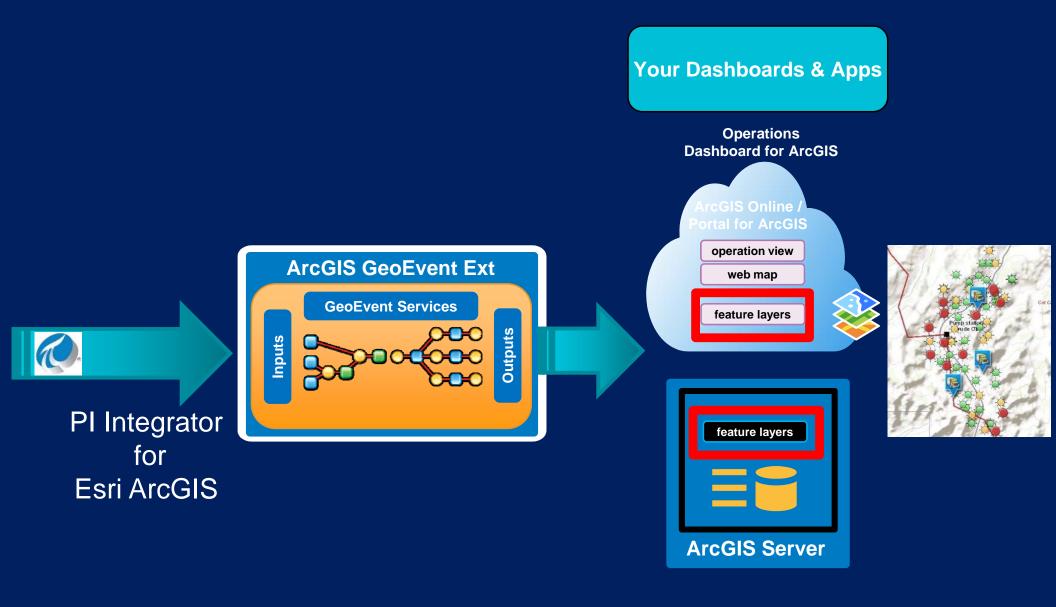


Environmental Monitoring



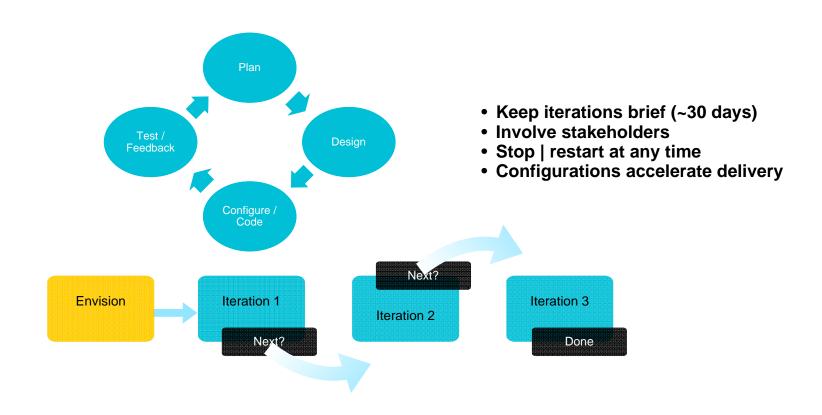
Smart Building





Use an Agile Methodology

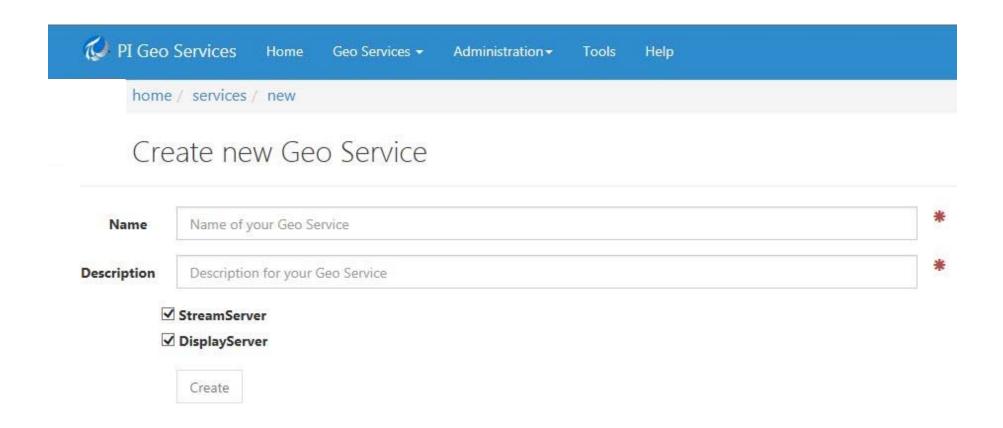
Iteratively and Incrementally Add New Capabilities using COTS



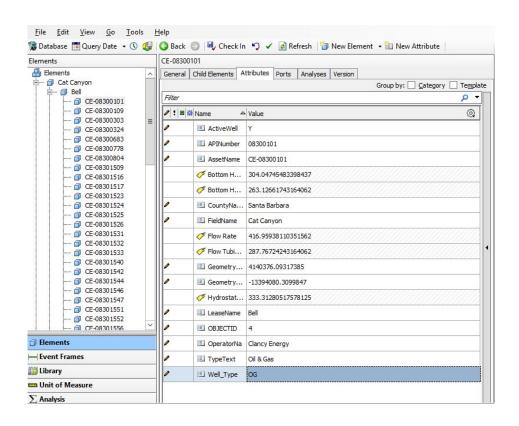
... Each iteration results in deliverables you can use

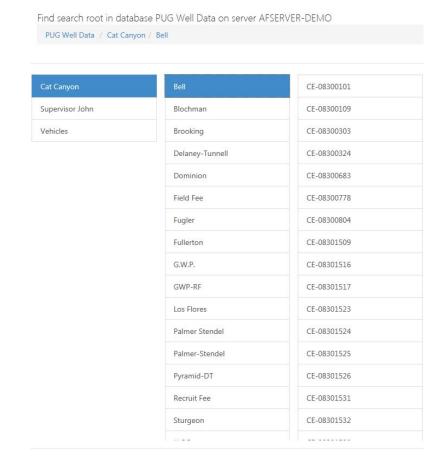
Portal Configuration Experience

Not a programming project!



Publish your layer





Preview the Elements

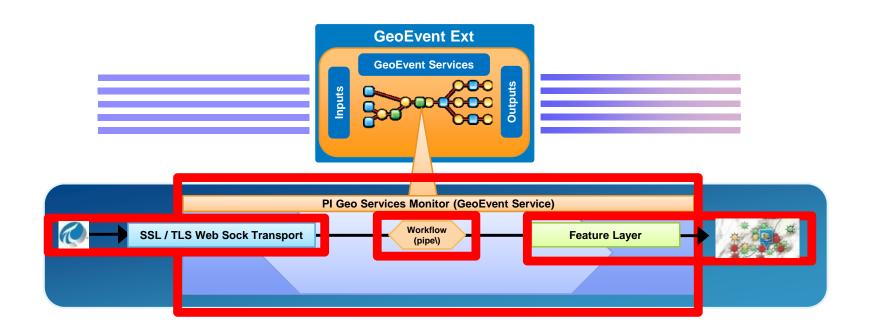
1	Sort: A - Z Z - A					
urora 15-8-7-20		Aurora Federal 3-20D-7	-20	BBC 1-32D-36 BTR		
pi	43-047-51509	api	43-047-52005	api	43-013-50979	
ounty	Uintah	county	Uintah	county	Duchesne	
latum	NAD83	datum	NAD83	datum	NAD83	
d	912	fid	924	fid	927	
low	120.59617614746094	flow	120.59617614746094	flow	120.59617614746094	
racture_d	0001-01-01700:00:00	fracture_d	0001-01-01T00:00:00	fracture_d	0001-01-01T00:00:00	
eometryLatitude	4897739.843655001	geometryLatitude	4895459.45020187	geometryLatitude	4892367.09544241	
eametryLongitude	-12210958.105615238	geometryLongitude	-12211124.750869216	geometryLongitude	-12309842.875318035	
stitude	40.218464	latitude	40.20282	latitude	40.1816	D
angitude	-109.692903	longitude	-109.6944	longitude	-110.5812	
perator	Bill Barrett Corp	operator	Bill Barrett Corp	operator	Bill Barrett Corp	
df_seqid	31300	pdf_seqid	31296	pdf_seqid	31295	
roduction	O)	production	Oil	production	Oil	
sublished	0001-01-01700:00:00	published	0001-01-01700:00:00	published	0001-01-01700:00:00	
_seqid	968	r_seqid	972	r_seqid	973	
tate	Utah	state	Utah	state	Utah	
otal_wate	840706	total_wate	663228	total_wate	972794	
rue_verti	8048	true_verti	9974	true_verti	9456	
vell Pressure	88.42372131347656	well Pressure	88.42372131347656	well Pressure	88.42372131347656	
vell_name	Aurora 15-8-7-20	well_name	Aurora Federal 3-200-7-20	well_name	BBC 1-32D-36 BTR	
vellhead Flow	88.42372131347656	wellhead Flow	88.42372131347656	wellhead Flow	88.42372131347656	
BC 5-27D-37 BTR		Beckstead 11-17-4-2W		Beckstead 14-17-4-2W		
pi	43-013-50847	api	43-013-50446	api	43-013-50448	
ounty	Duchesne	county	Duchesne	county	Duchesne	
latum	NAD83	datum	NAD27	datum	NAD83	

OSIsoft does the work for you with each layer

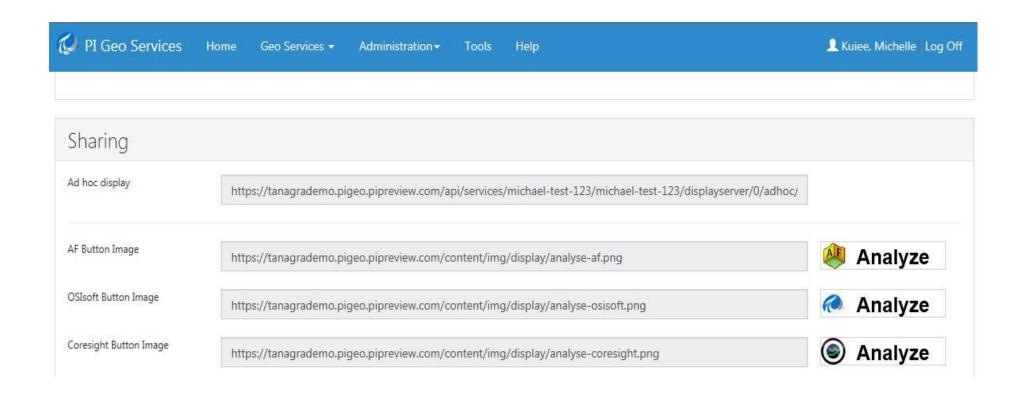
- Automatic Configuration
 - ArcGIS GeoEvent Extension Input Connector
 - ArcGIS GeoEvent Extension Output Connector
 - ArcGIS GeoEvent Extension Workflow
- Create PI Coresight Endpoint

Stream Service

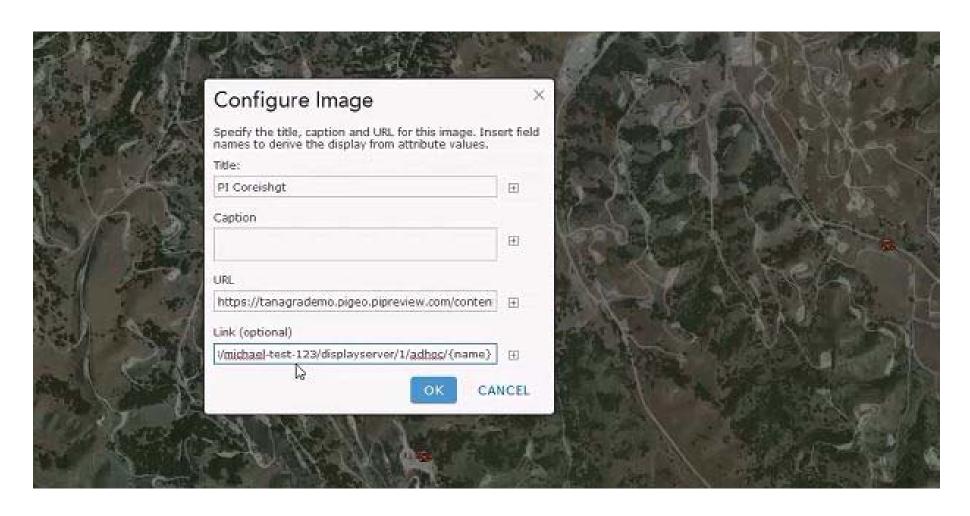
Configuration Results



Coresight End Point Created



Configure Pop Up to Launch Pl Coresight



Pop Up with PI Coresight Hyperlink



PI Integrator for Esri ArcGIS

- Automatic Configuration of GeoEvent Ext
- Send PI Current Values to ArcGIS Platform
- Analyse historical data with PI Coresight
 - Ad Hoc Trends
 - Processbook Displays via PB Viewer
- Jump Start PI AF

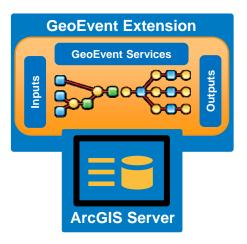
Cloud Architecture







PI System



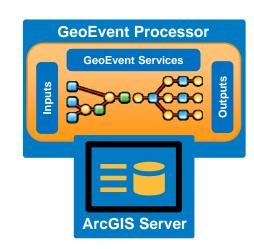
On Prem Architecture





PI System

PI Integrator for Esri ArcGIS

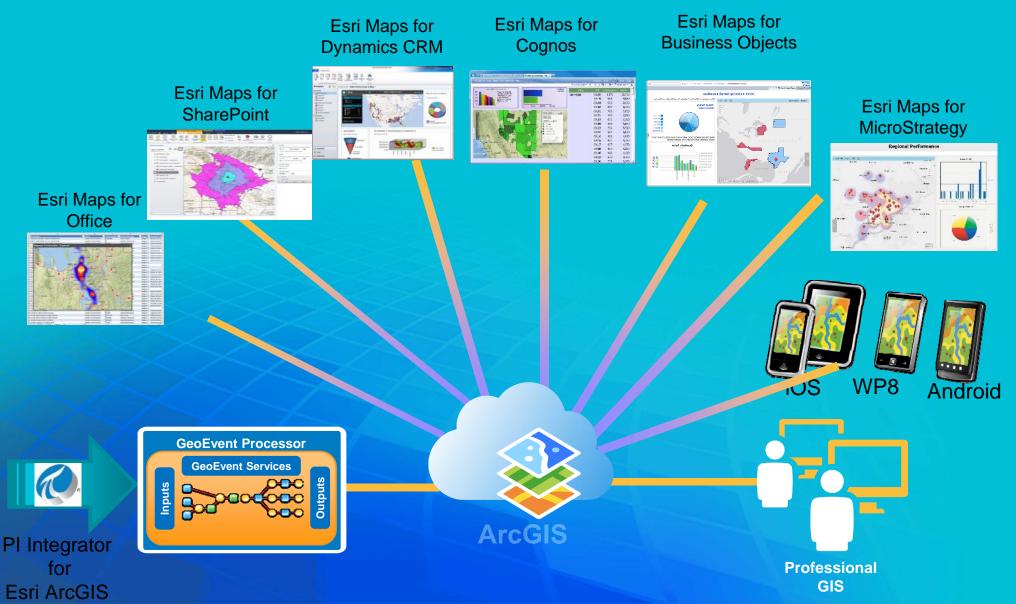


OSIsoft and Esri Supports Everyone

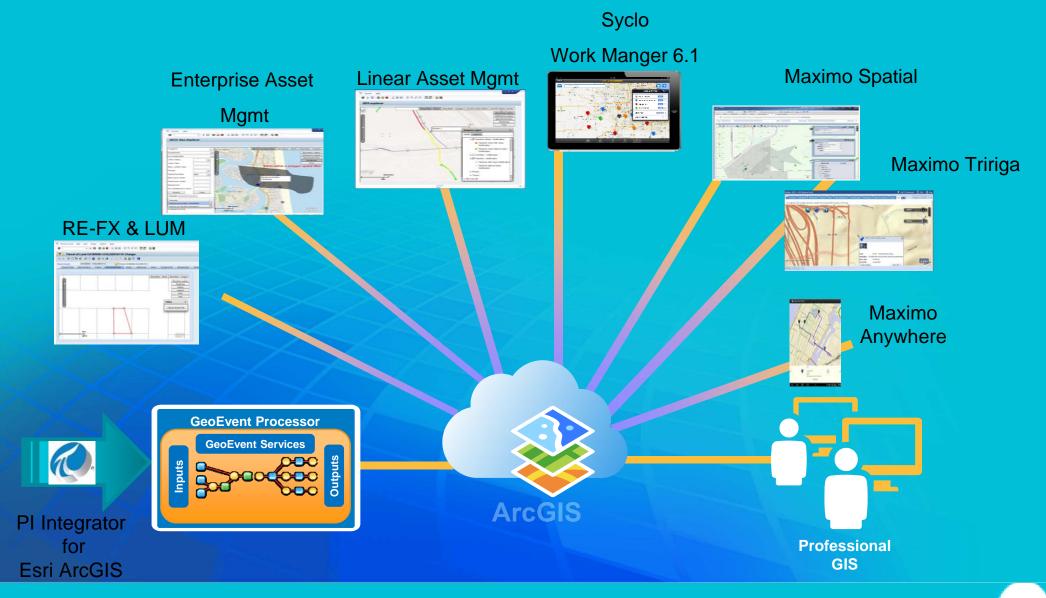
Providing a Common Real Time Location Platform

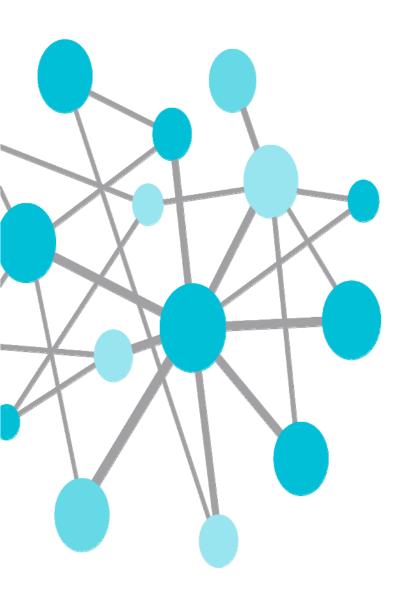


OSIsoft and Esri Supports Real Time Across the Enterprise



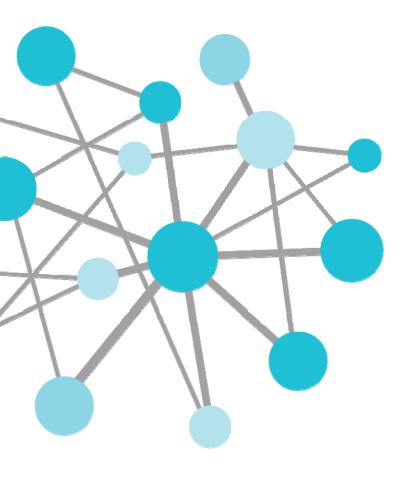
OSIsoft and Esri Supports Real Time Across the Enterprise





Top 7

- 1. Configurable Integration
- 2. Deliver Real Time data across the organisation on any device, any app, any time
- 3. Designed for non technical users
- 4. Increase Speed of Deployment
- 5. Greater Agility to meet changing business need
- 6. Better Business Decisions
- 7. Reduced Costs and Higher Value



THANK YOU



