Transportation Workshop Frits van der Schaaf | Adam Pfister 24 September 2015, Southfield, MI

weather

fleet management

Isors

smart grid

smart mobility

water gauges

soil sensors

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precision agriculture

smart city

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indoor navigation

A Global Company

130+ Countries

Privately Held

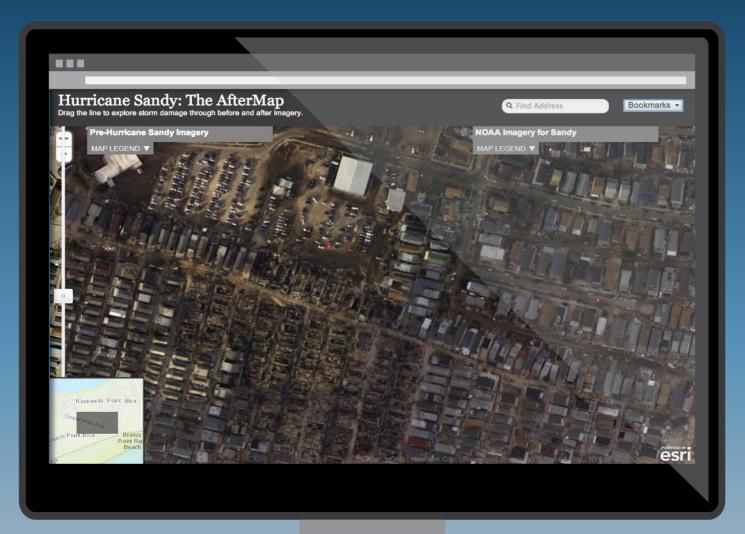
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Esri OEM customers



Maps at Work > Enable you to quickly see changes that impact your business



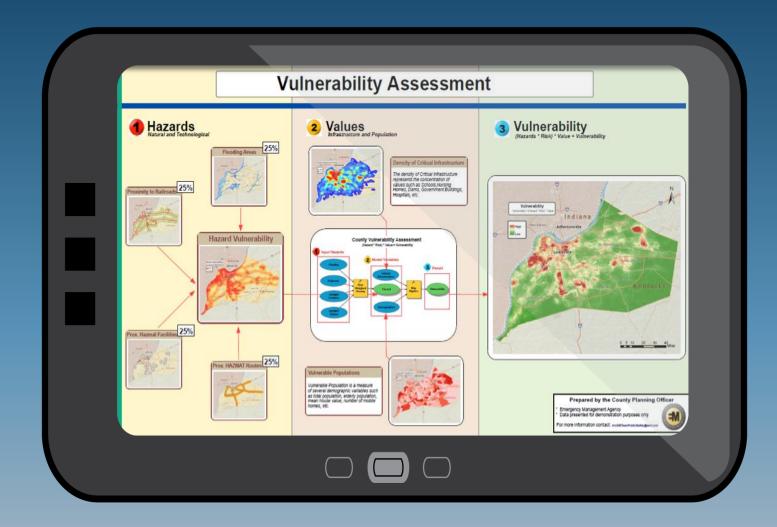
Maps at Work > Reveal patterns and trends in your data that brings new insight



Maps at Work Illustrate time, show status and performance, and support decision making

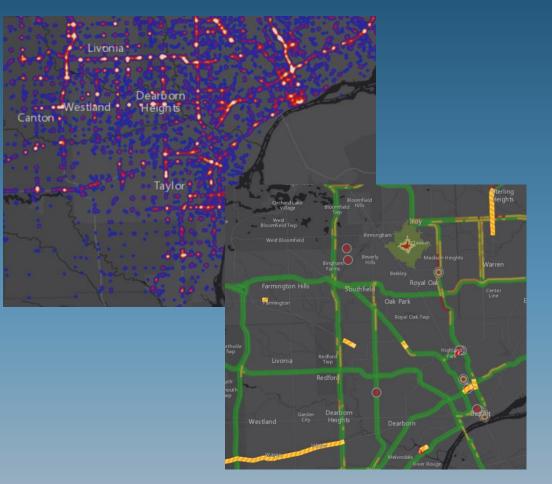


Maps at Work > Enable evaluation and simulation that support strategic decision making

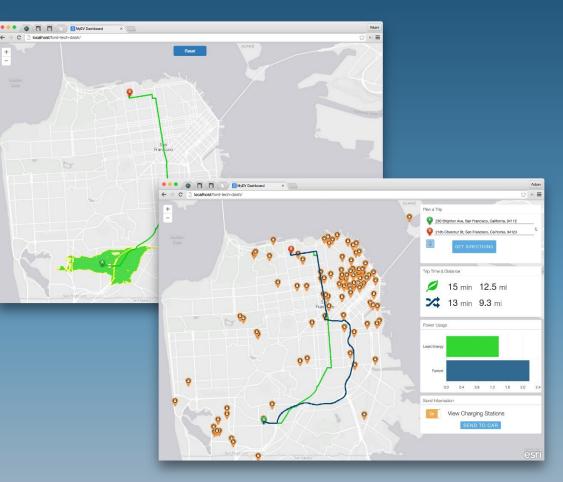


Demo's

Connecting to ecosystems and proximity of cars



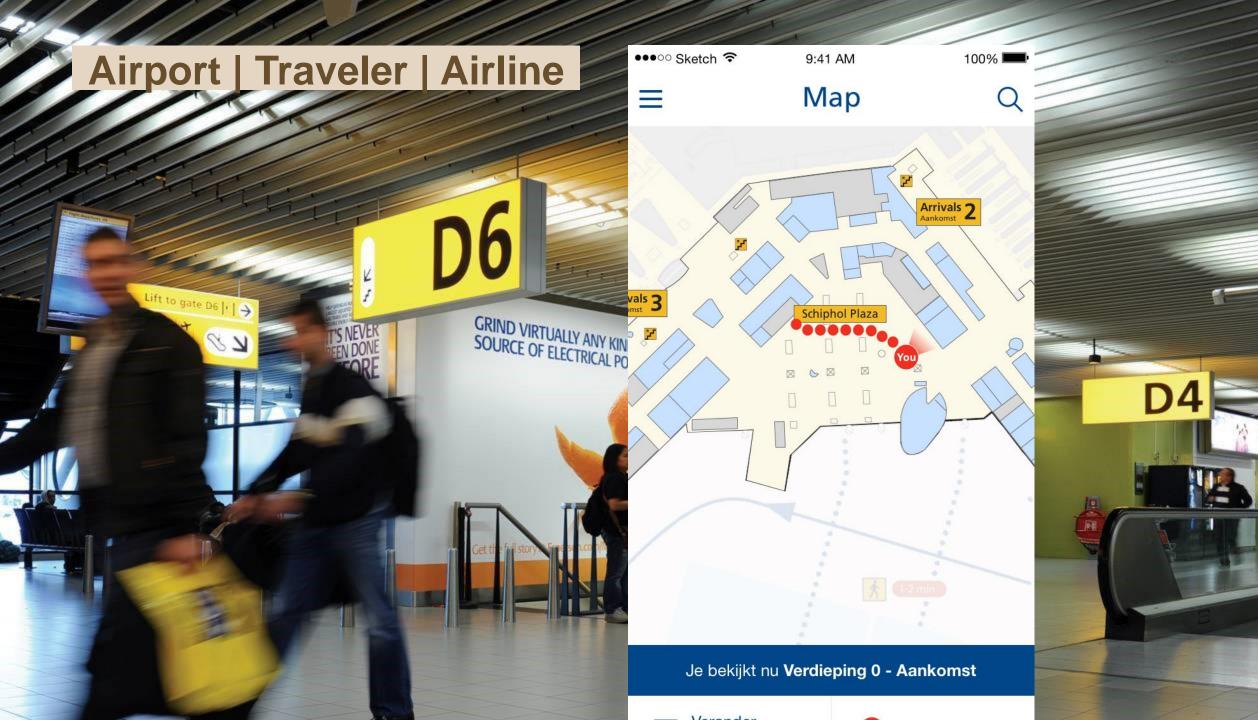
Road impedance and proximity to available charging stations



Advancing Technologies are providing more Data, Computing, and Connectivity

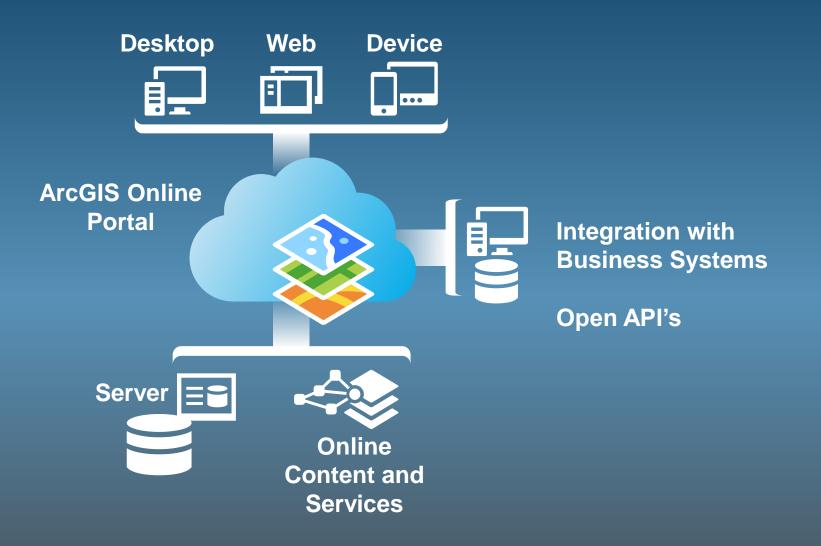
Measuring Everything That Moves and Changes





ArcGIS an integrated Location Platform

providing mapping, analysis, data management, and collaboration

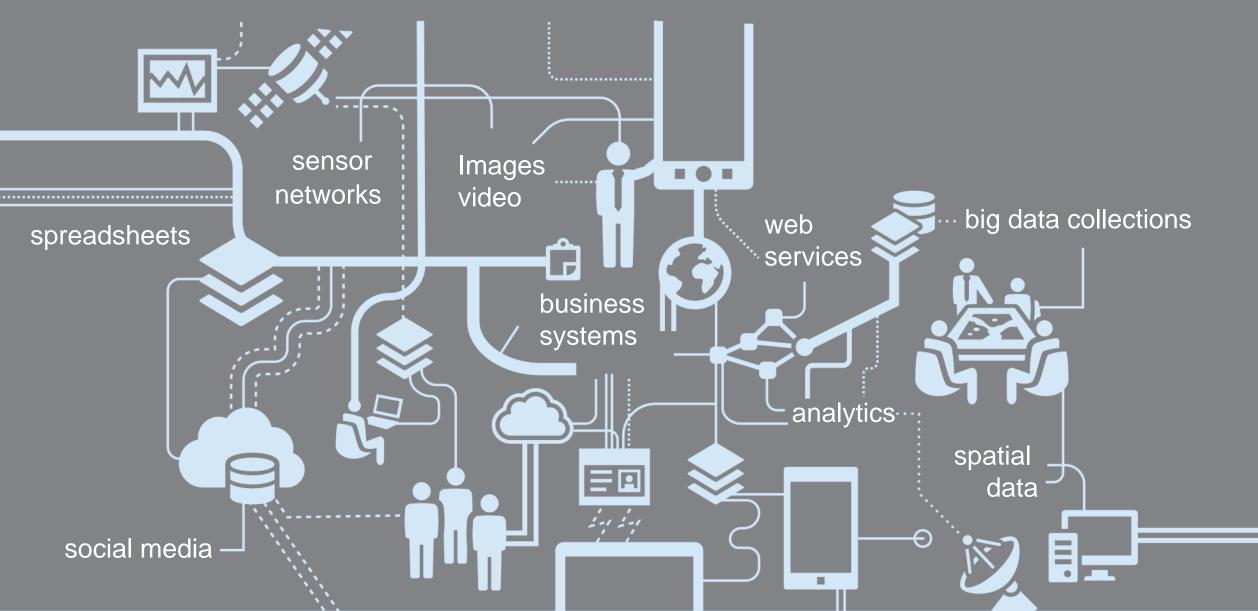


ArcGIS is a Platform

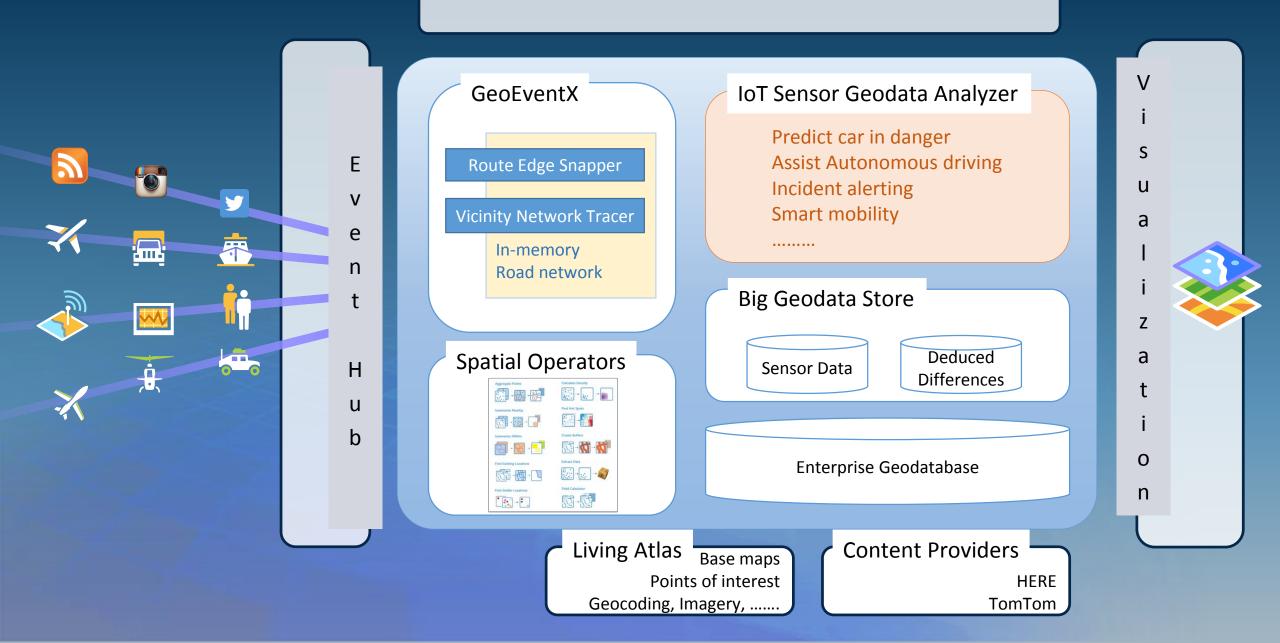
making mapping and location aware apps available across your organization



Leveraging location inside your business application



Device State Store



ArcGIS Content – a living atlas



Premium content – user generated content – open data



Ecosystem of connected worlds





- Connected world by creating collaborative hubs
- Location platform cuts across lines uniting technologies, sectors and disciplines

Connecting the smart city, intelligent highway system, smart grid, smart insurance Boston, Minneapolis, Singapore, German Highways, DTE, Consumers, Dong Energie, Alliander, IBM, Cisco, Schneider, Osisoft, Oracle, Microsoft, Ericsson, Metrotech, University of Michigan Mobility Transformation Center



Delivering exactly the right content at exactly the right time anywhere

based on where we are,where we are goingbased on intent, life style,demographics





Services platform – smart services



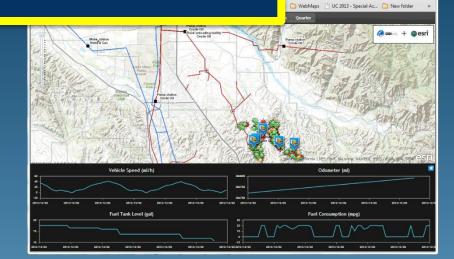
Software-defined platforms – smart data

Networked infrastructure – smart spaces

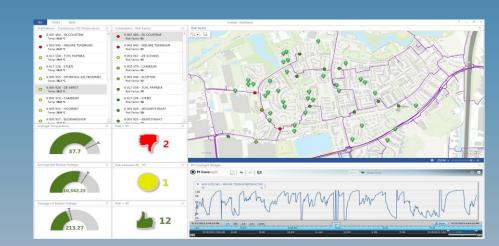


Networked infrastructure – smart spaces

- Sensor locations, status, points of interest
- Geocoding and routing



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Software-defined platforms – smart data

- Data fusion •
- Spatial analytics & patterns
- Predictive forecasting & temporal data
- Measuring size, shape, and distribution
- Determining proximity and how places are related
- Finding the best locations and paths
- Detecting change and quantifying patterns
- Making predictions

Aggregate Points



Calculate Density













Find Existing Locations

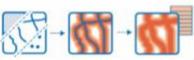






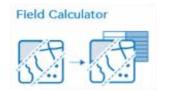






Extract Data

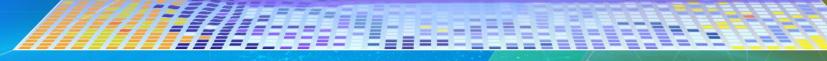




Bringing together data from an ecosystem

Lifestyle, demographics Construction areas Weather, traffic

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vector and raster data

Services platform – smart services

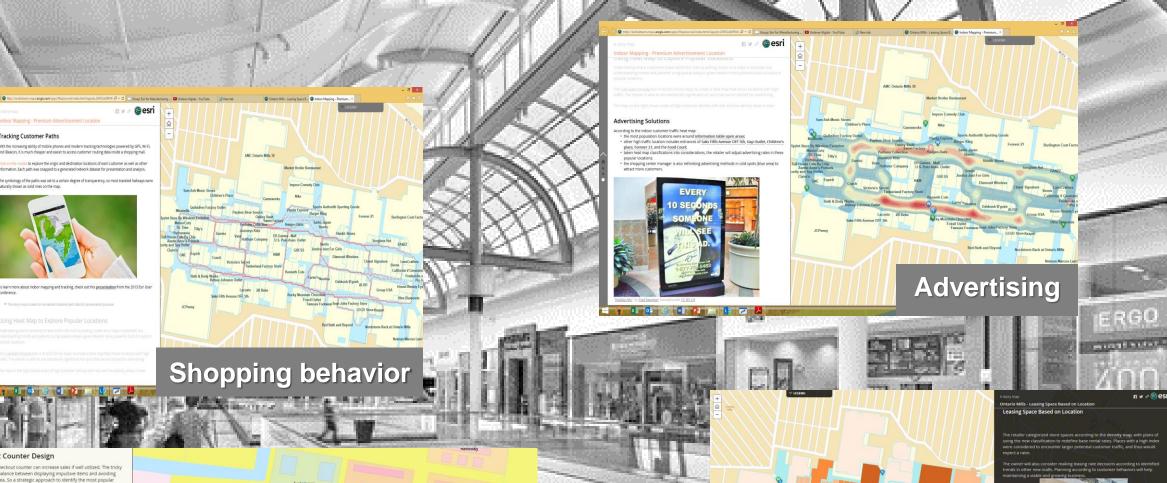
- Visualization
- Location based services geofencing and triggering



Software-defined platforms – smart data

Networked infrastructure – smart spaces





Checkout Counter Design

Tracking Customer Paths

aturally shown as solid lines on the ma

The space of checkout counter can increase sales if well utilized. The tricky part is to find balance between displaying impulsive items and avoiding blocking the area. So a strategic approach to identify the most popular nerchandises in store is necessary.

According to the traffic density map, the items that customer would most likely to purchase include seasonal clothes and dresses, so the retailer es such as belt and fashions decided to put co ewelries at checkout , and would also switch to scarves and cloves according to the changes in seasonal clothing.

Analysts have also identified that customers are likely to make a purchase of clearance clothing, so they utilized the back wall behind the checko counter to display brands, deals, and promotions on clearance items.

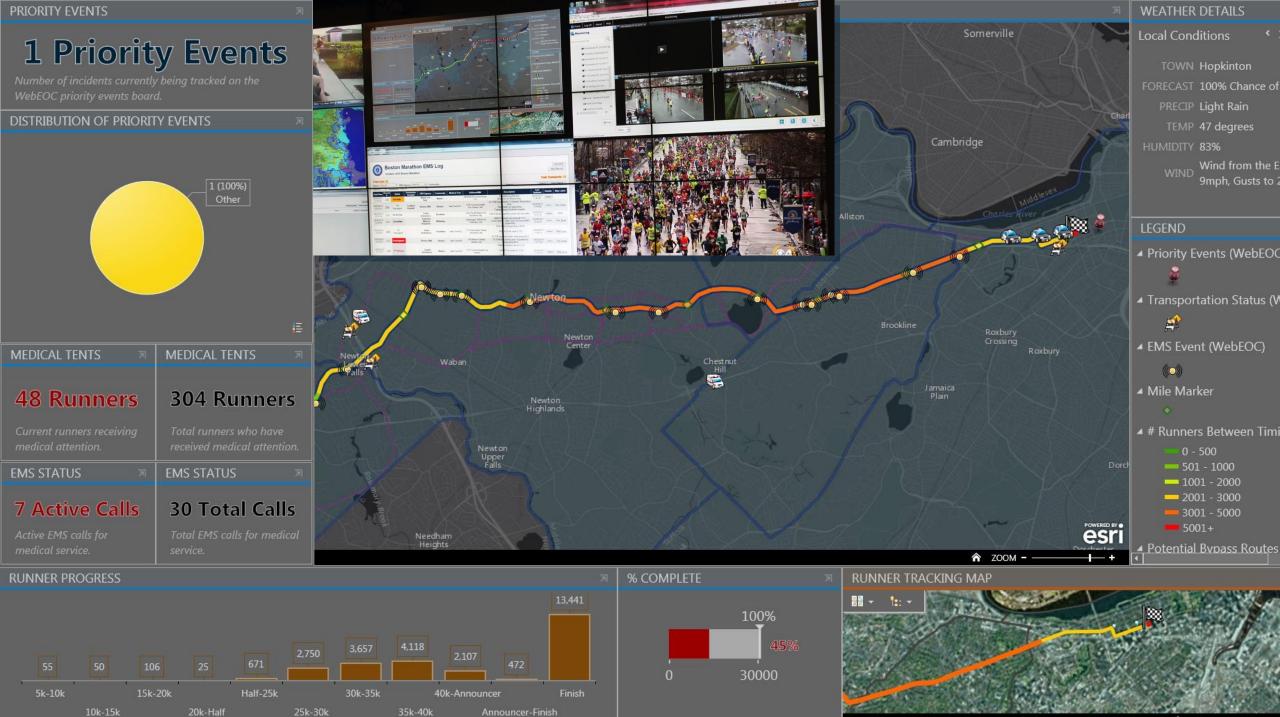
The retailer added two POS stations in high traffic density areas for store associate to assist in fast checkout. The purple pushpin on the map shows the location of newly added POS.

Click here to cross-reference customer density map/go back to previous

Check out counters

Store performance

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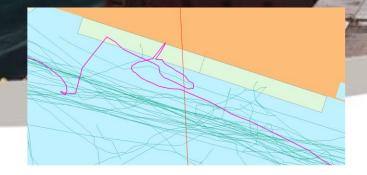
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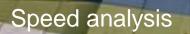




Safety and collision analysis

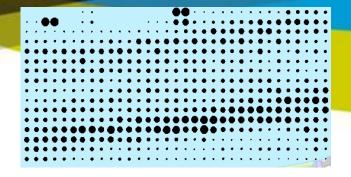
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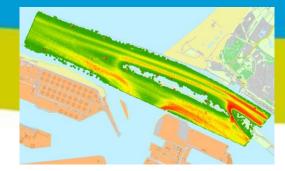


Most used routes



Ship density

and share which the



Location is now more relevant than ever



A location platform giving access to authoritative data is key in today's business

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