

Big Data and Location Location

Jay Terrill, Esri Canada

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Consumer experiences are changing expectations

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The four trends that are shaping today's enterprise – mobility, social, cloud and big data – give you an unprecedented opportunity, the opportunity to reevaluate and transform your company's business strategies.





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⊛ Mobility

The proliferation of new device types, along with the connectivity of the cloud, is making us more mobile and changing the way we work and play.



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Social

Social networking is changing how people expect to interact. Not only with other people, but also with the products and services they care about.



⊙ Cloud

The cloud is changing what we expect from technology. With an alwayson connection, apps can provide innovative new services with instant scalability and attractive economics.

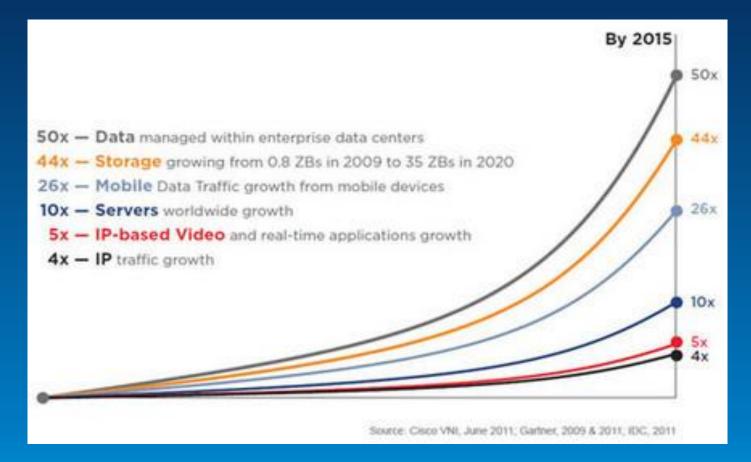


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⊙ Big Data

The explosion in connected devices and apps is generating an exponential growth in data and the need to get better insights.

Prediction



McKinsey & Company

- 2015 50x the amount of data in your enterprise
- Traditional BI inadequate for large problem spaces

Big Data Definition

Gartner IT Glossary

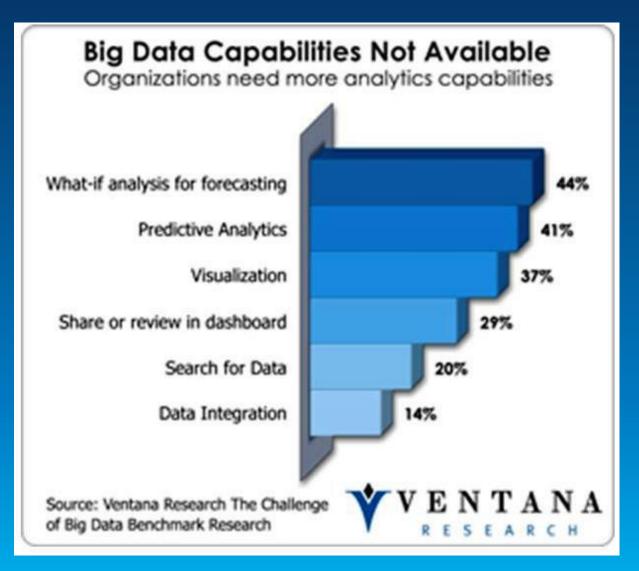
Big data is high-volume, high-velocity and high-variety information assets that demand cost-effective, innovative forms of information processing for enhanced insight and decision making. **Big Data – the V'S** (source: Mike Rhodin, Senior Vice President IBM) Big Data described using the Three "V"s: Volume, Velocity, Variety Utility companies record 350 *Billion* meter readings per year (= Volume); Financial service industry 5,000,000 trade events *per second* (= Velocity);

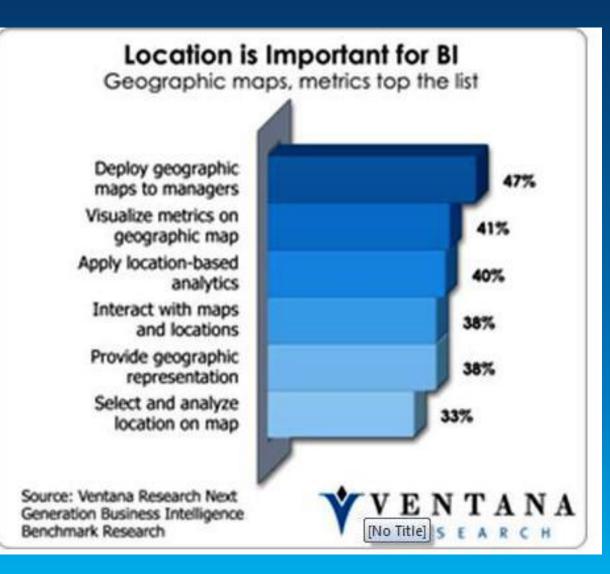
Data formats range from structured - traditional files unstructured - video

- audio
- imagery
- email
- web logs, and
- anything you can think of (= Variety)

What about the other V – Business Value?







Market Drivers







Location Analytics

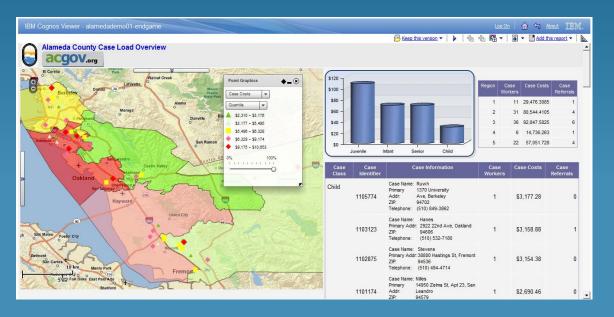


Location is Fundamental to All Aspects of Business...



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Alameda County Social Services



Tabular data and charts not conveying information effectively to users

Want to map-enable their IBM Cognos BI Social Services reports Want to track by cost and other attributes.

Data sets

social worker case loads by region and by type of case child versus elderly versus adolescent

Result

Thematic shading for metrics - case costs, cases, case workers, and referrals Symbolization of points - cases tied to these metrics Ease of building the report

Location Analytics – Nutrino Study

Nutrino energy drink want to expand to the east coast

How

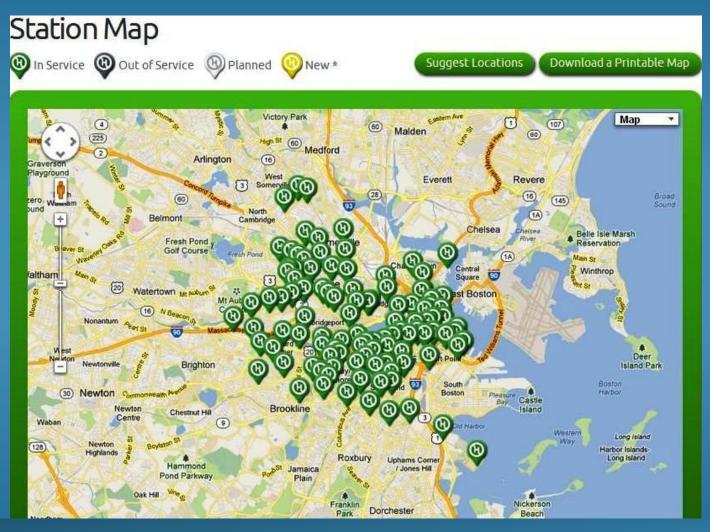
- Boston marketing campaign
- Target Boston Hubway bike sharing system active lifestyle
- Send teams to the bike stations to give away drinks to riders.

Challenge

- Large system of hubway stations
- Nutrino has limited resources
- Which Hubway stations to focus on?



Boston Hubway Map (from web)

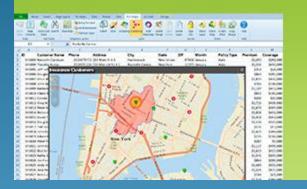


Nutrino Campaign Workflow

Find the Right Stations – Productivity Esri Maps for Office – .xls sort, add map and share via AGOL

Find Stores to Stock Nutrino - CRM Esri Maps for Dynamics show store account locations from CRM existing store accounts and store prospects close to top bike locations

Review campaign effectiveness – BI Esri Maps for Microstrategy



Nutrino Demo

Demo

Big Data includes Spatial Data Location Analytics deliver Value from Big Data

Benefits

Map Your Data Map-driven Analytics A World Atlas of Geographic Context

Work Smarter and Work Together Enterprise Class Solution











Understanding our world.