

Siva Ravada
Senior Director of Development
Spatial Technologies
Oracle



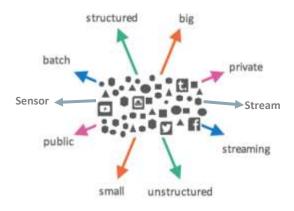
What is Business Intelligence

- Software that enables an organization to gain insight into its critical operations through reporting applications and analysis tools
- BI applications may include a variety of components such as tabular reports, spreadsheets, charts, dashboards, and maps



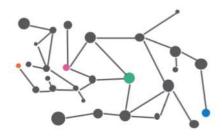
Challenges for Modern BI

Organizations need to Cope with Diverse Data



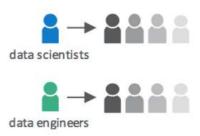
One solution to access all types of data

Emerging Technologies are Fragmented and Complex



Leverage emerging technologies using single unified platform

Specialized Skills in Short Supply



Empower Business users to achieve their goals by making it simple to use



Smart Analytics for Everyone



ANALYSTS

- Faster time to insights
- Share, collaborate and maximize community's wisdom

BUSINESS LEADERS

- Easy, timely, proactive business insights
- Empower to go beyond consuming others' findings

DEVELOPERS

</>

- Develop and deploy analytic applications for people to customize and personalize
- Embed analytics in any application context



Liberate All Data From All Sources



Easy access to a variety of data sources

- Few clicks to setup and use
- Vast number of sources should be supported
- Expanding coverage to enable access to every industry-specific source via native connectors or developer community































CLOUD























Access



















TERADATA ASTER







splunk>



Google BigQuery



















SEE & DETECT

Find Hidden Patterns with Smart Data Discovery

Automatic detection of data patterns

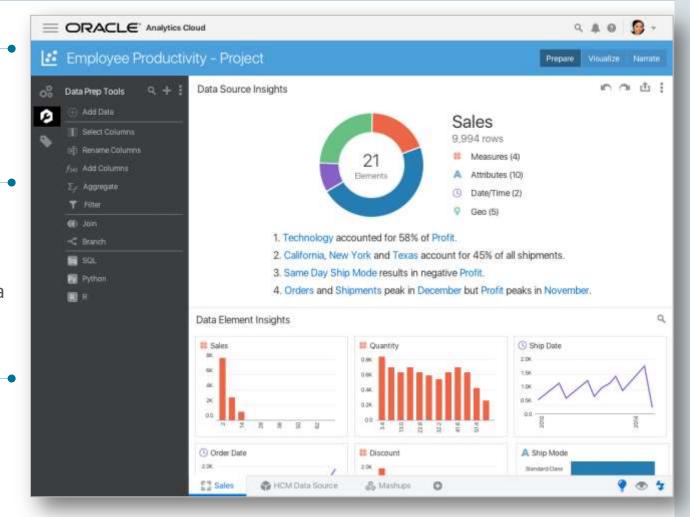
 Guide users towards strongest correlated factors and variances from norm

Auto-blending, intelligent visualizations

- Easy blending of data sets with the most appropriate handling to avoid double counting
- Auto-default to the appropriate visualization for a given data set

Search enablement everywhere

• Type ahead in expression editor, data set browser etc.







Embed Analytics Anywhere



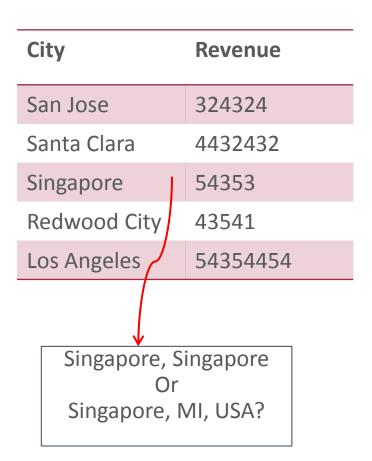






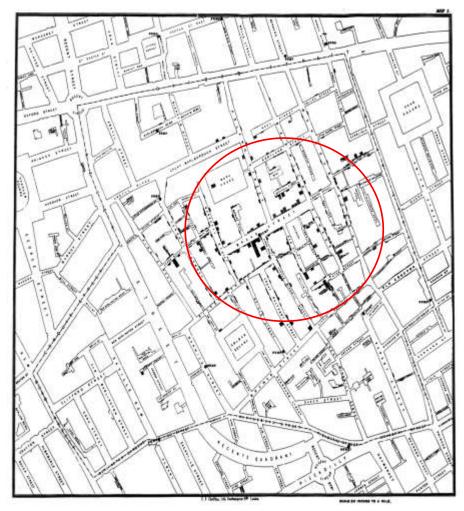
Spatial Analytics

- BI and Spatial Analytics used to be for specialists
 - Traditional systems needed specialists to describe what information must be supplied for business data to be rendered on a map (lat/long or address columns)
 - This was a big barrier for collaboration between these two technologies
- Newer generation BI tools do this automatically
 - Information automatically geocoded by introspection and reference data sets
 - software can automatically distinguish between Singapore and Singapore, MI, USA by looking at contextual cues

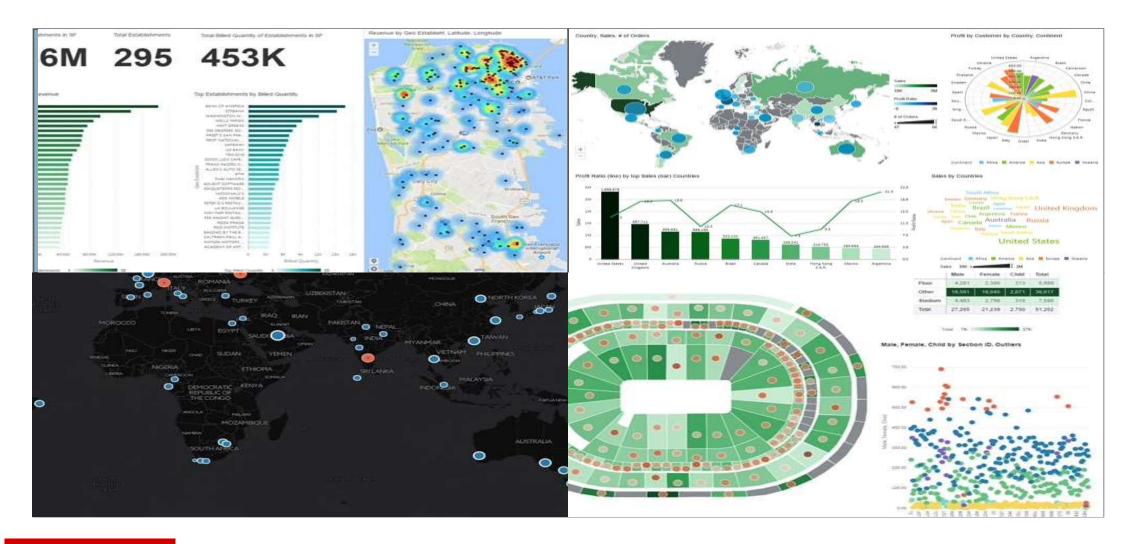


Spatial Analytics

- Specialized geospatial algorithms (distance and route calculations, etc.) are provided as one-click operations
- Layer geospatial data
 - custom base maps and markers
 - heat maps and temporal maps
 - clustering and geofencing (lasso a region or area as a new dimension) as basic APIs
 - 3D visualizations as well as animation on maps, such as a truck or storm moving
- Provide support for several built in map types

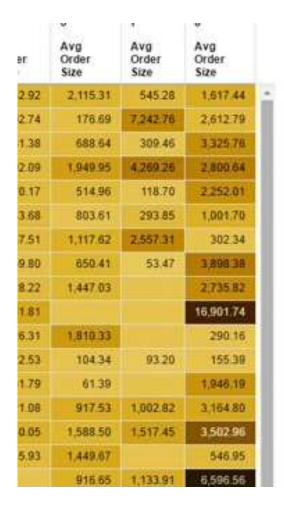


Support Multiple Map Types





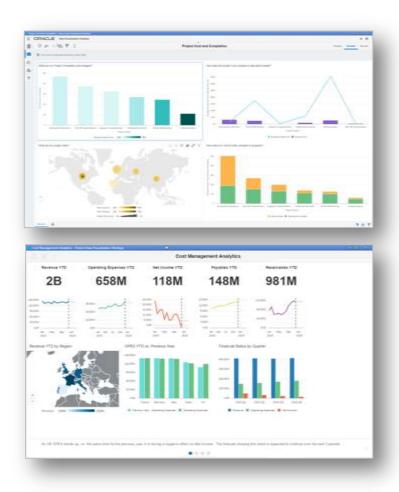
Show Multiple Dimensions of Data on the Map







Bring Spatial analytics into the BI







Future is all about Self Service

- Next generation Business Intelligence is all about "self-service"
- Businesses looking for deeper, customizable functionality do not want to turn to specialized vendors for advanced spatial analytics and additional data sets such as demographics
- Changes in the technology over recent years means that spatial mapping and analysis software is becoming more user-friendly, moving out of the sole domain of GIS professionals and into the realm of everyday users
- Self Service Maps is the next big thing in BI and Spatial Analytics



Tell Better Stories with Your Findings

Interactive data storytelling

- Evaluate each story point, "kick the tires" and validate conclusions
- Presentation mode enables focus on the story point, while offering complete interactivity
- Freeform text and images enable in-place discussions

Consume anywhere

- Mobile, desktop and browser
- Native integration with mobile platforms to enable seamless hand-offs, screen-shares, and more

