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Big Data Analytic Products -Look Into The Future

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Three disruptive trends

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Big Data Increasing data volume, variety and velocity

User Expectations

Business users easily access data at internet speed and scale

Modern Enterprise

Scale out services on commodity hardware in the cloud or data center



Current tools are not ready



Hard to use – designed in an age of specialized skills

- Focus on the "power user"
- Complicated workbench interfaces
- Require SQL coding quickly

Cannot scale – deployed on desktops or monolithic servers

- Limited user scalability
- Poor performance
- Not built for embedding in other applications

Slow performance – designed for relational databases only

- Loss of functionality
- Poor performance
- Limited data scalability



Visual analysis requires a new approach



Responsive – interactive, visual & designed for business users

- In-context functionality prompts vs. expert workbooks
- Visually-driven exploration vs coding
- Push-based updates for real-time information

Agile – application architectures are cloud-native

- Designed for multi-tenancy
- Deployment is a choice not a constraint: on-prem, public or private cloud
- Applications components are fully embeddable and extensible

Fast – data processing is parallel & multi-framework

- Purpose-built processing engines have evolved for speed
- Massively parallel processing is the standard for data at scale
- Results are a combination of SQL, search, streaming and machine learning frameworks



Zoomdata company overview

Founded: 2012 Employees: 86 Investments: 21M \$ Headquarter: Reston, USA









How it works



Purpose built for Big Data sources



Smart Connectors leverage unique processing in each data framework

- Search facets
- Impala partitions
- Data streams

Zoomdata Fusion makes multiple

sources appear as one

- Data is processed in-place
- Does not require data architect to pre-define
- Leverages scalability of Spark

Zoomdata Server takes the query to the data

- Data is processed in-place
- Uses patented Micro-Queries
- No pre-built cubes or lenses



Native Smart Connectors are optimized for Big Data

Use full functionality of native API's not available through JDBC/ODBC

Leverage Spark to supplement capabilities of the source





Fusion makes multiple sources appear as one





Process big data sets faster



Zoomdata's Streaming Architecture provides the fastest experience for both real-time and historical data

Data Sharpening shows results instantly so users can act without waiting

Zoomdata leverages Spark and other technologies for highscale performance



Built for the Broadest Range of Users

Current BI products are specialized tools for *data experts* Zoomdata empowers *any business user* to consume data





Easy to embed and extend Zoomdata capabilities



Easy to White-label

Easy to embed in Custom Apps

Easy to Share







Custom Data Source Connectors

Custom Visual Development in Visualization Studio

Built as a modern distributed application

Modern apps must scale

- Scale out on commodity hardware
- Scale for more users and scale for more data independently
- Designed for multi-tenancy

Modern apps are deployable

- Deploy on-premises or on the cloud
- Package as a container for automated deployment





Use Case 1 : Visual analytics on Impala for IoT support portal



A Major Network Devices Company

Problem:

Monitor thousands of in-field devices through personalized, real-time support portal dashboards.

Solution:

Every support client has access to both an aggregate and detailed view of their devices. Enables:

- Immediate visibility
- Ability to pinpoint issues at any level of the solution network, device, or application
- Consistent communication across parties





A Major Pharmaceutical Company

Problem:

Provide sales executives with a simple way in the field to reveal potential gaps in prescribed therapies. Previously, queries took hours to return.

Solution:

An interactive iPad application backed by big data analysis that can query 9 billion rows in 6 seconds. Enables:

- Touch-driven navigation of regional insurance claims by hospital region
- Immediate access to statistical clustering
- · Increase in evaluation rates of new therapies



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Demo

Thank You!

Any Questions?

Contact Me



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