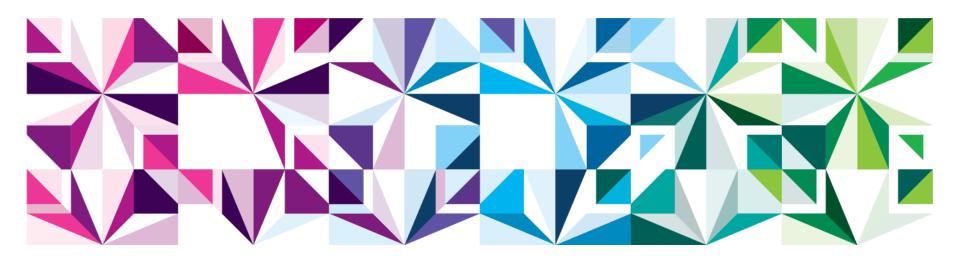
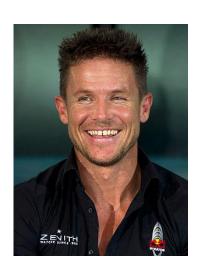


Big Data & IBM PureData Systems





Felix Baumgartner

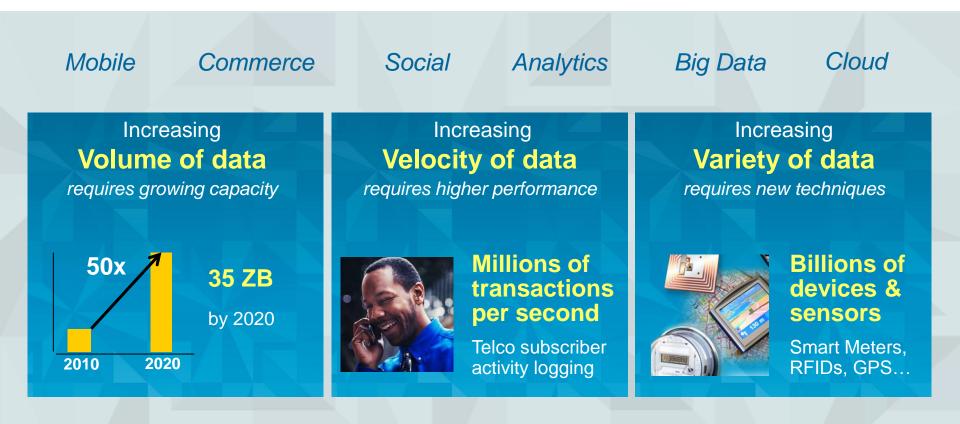




"I need to see the data....."



Today's big data challenges for both transactions and analytics are increasing demands on data systems

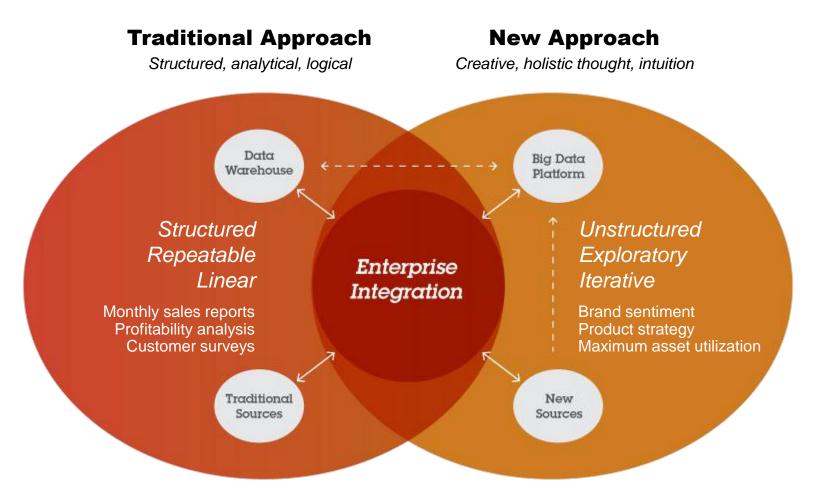


A smarter approach to meeting data challenges is required to:

Reduce complexity • Accelerate time to value • Improve IT economics



Combined Approaches for Analytics

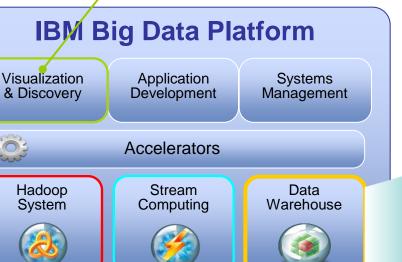


PureSystems





InfoSphere Data Explorer



Information Integration & Governance

PureData



for Analytics

Optimized systems delivering data services for analytics & reporting

Analyze Raw Data and reduce costs with Hadoop

InfoSphere BigInsights Analyze Streaming Data

InfoSphere Streams

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Stream Computing – why is it different?





New announcements for the PureSystems family that change the economics of IT and accelerate time to value









IBM PureData System: Optimized exclusively for data services

Optimized for data services:

- Transactional
- Analytics

Expert integrated:

- Data platform
- Infrastructure
- Unified platform management
- Built-in expertise



Data load ready in hours

Data workload optimized

Integrated management

Single point of support

Automated and

integrated maintenance

PureSystems



IBM PureData System for Transactions

Speed

Industry leading DB2 performance

Simplicity

- Data load ready in hours
- Simplified system management

Scalability

 Highly reliable and scalable databases deployed in minutes

Smart

- Supports existing DB2 applications virtually unchanged
- Supports existing Oracle Database applications with minimal or no change¹



Delivering highly scalable transactional data services



Integrated Value of PureSystems Family (Retail Example)



Under the covers



Application Services:

- Session management
- Shopping cart management
- Transaction management

Database Services:

- Shopping cart content
- Shopper profile
- Product catalog

High scalability with high availability for core business databases

Database Services:

- Master customer database
- Master inventory database
- Customer order details and status
- Payment details and status
- Shipping details and status



IBM PureData Systems for Analytics

The Simple Appliances for Serious Analytics

Built-in Expertise

- Data model agnostic
- Fully parallel, optimized In Database Analytics

Integration by Design

- Server, Storage, Database in one easy to use package
- Automatic parallelization and resource optimization to scale economically
- Enterprise-class security and platform management

Simplified Experience

- Fast time to value
- Standard interfaces to best of breed Analytics, BI, and data integration tools
- Built-in analytics capabilities allow users to derive insight from data quickly
- Easy connectivity to other Big Data Platform components







Up to 2000X faster than before Growing by 30% every month

"The system has allowed us to reduce the complexity of regulatory reporting and processing of exchange data from days down to minutes."





Up and running 6 months before having any training

200X faster than Oracle system ROI in less than 3 months

"Allowing the business users access to the box was what sold it."



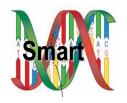
- Steve Taff, Executive Dir. of IT Services



1 PB of data7 years of historical data100-200% annual data growth

"NYSE ... has replaced an Oracle IO relational database with a data warehousing appliance from IBM, allowing it to conduct rapid searches of 650 terabytes of data." - ComputerWeekly.com





SUNY Buffalo researchers reduced the time to perform quintillions of computations from 27 hours to 12 minutes "Once we had the data on the appliance we were able to do the same analysis and much more complex analysis in minutes. The research draws on medical records, lab results, MRI scans, and patient surveys." Dr. Murali Ramanathan, SUNY Buffalo





A Leading • Operational Data Warehouse -- 80 million transactions per day

Global Credit Supports fraud assessment, customer care & SAS analytics

■ >2500 avg. concurrent users

Card Provider - >5 TB of data loaded per day – including throughout peak hours





But how do you achieve that?

There are many challenges to overcome

Do you face these challenges:

Do you face these challenges:	Then you need a platform that provides:
Difficulty adding new data or analytic capability	Increased Agility
Lack of analytical insight	Accelerated Time to Value
Broad spectrum of workload and SLA requirements	Fit for Purpose Solutions
Growing data volume, variety and velocity	Tools for gaining insight from Big Data
Complicated system lifecycles	Reduced Complexity
Administration complexity	Simplicity
Growing costs of IT	Increased Efficiency

Then you need a platform that provides:

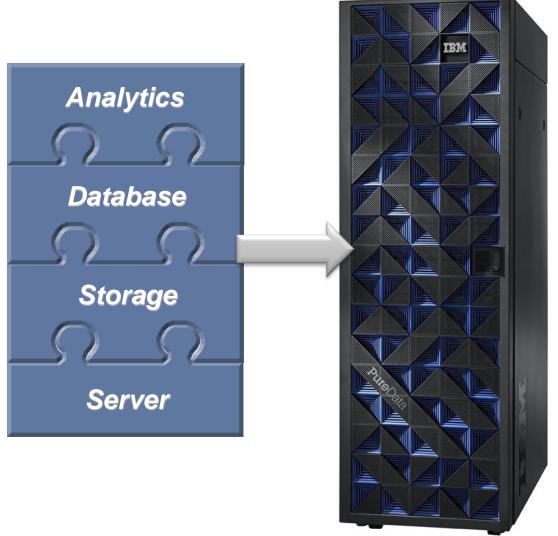
PureSystems



Simplify

Move analytics into the Data Warehouse

- Integrate the server, storage, database and analytics into one optimized package
- Move complex analytics into the database
- Integrated, high performance analytics within the data warehouse



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