



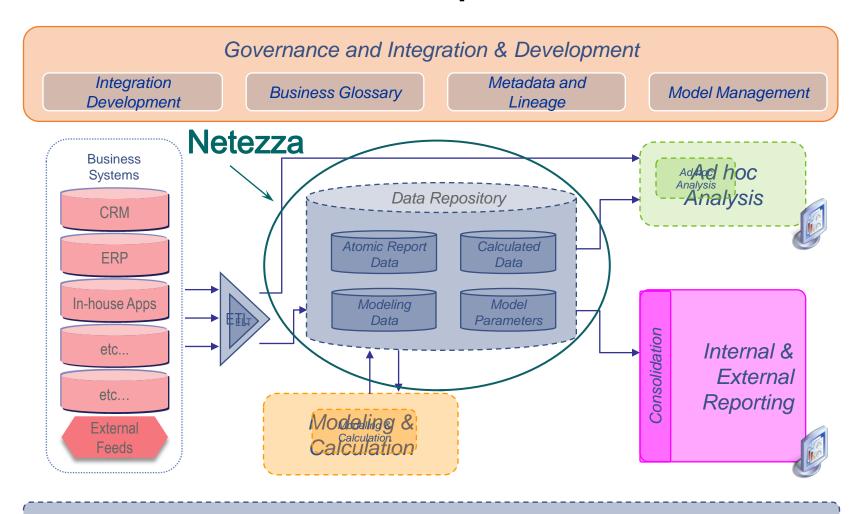
an introduction to the data warehouse appliance Session Number IDW-3149B

dai clegg, IBM

**IBM Software** 

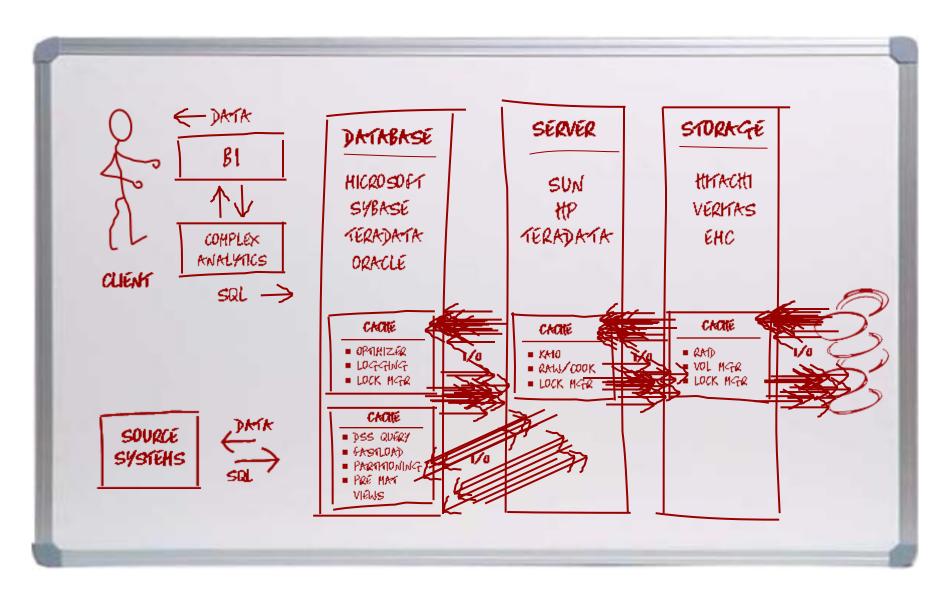
Information On Demand 2011

## **The Datawarehouse Solution Space**

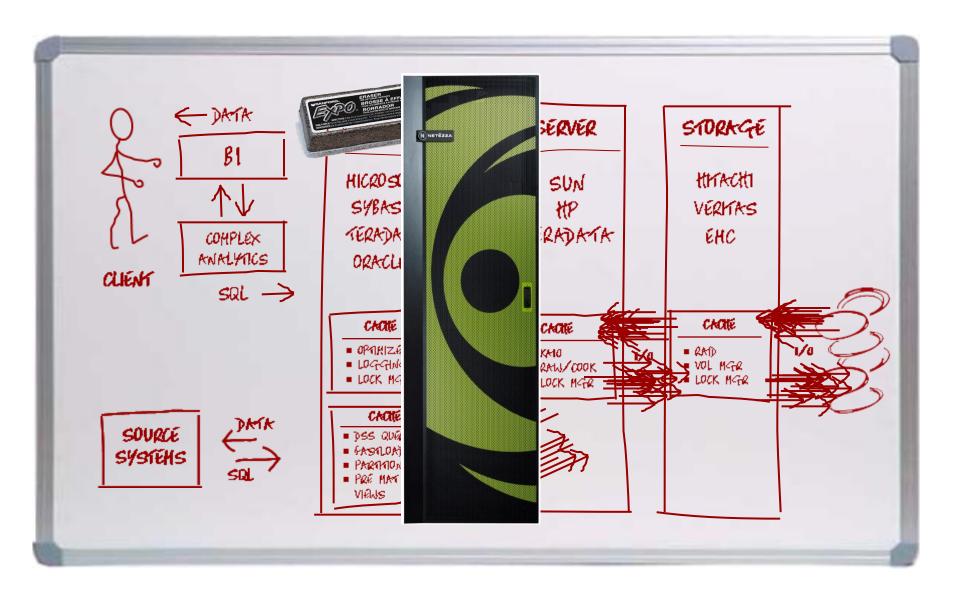


Data Integration and Task Automation, Archiving and Test Data Management

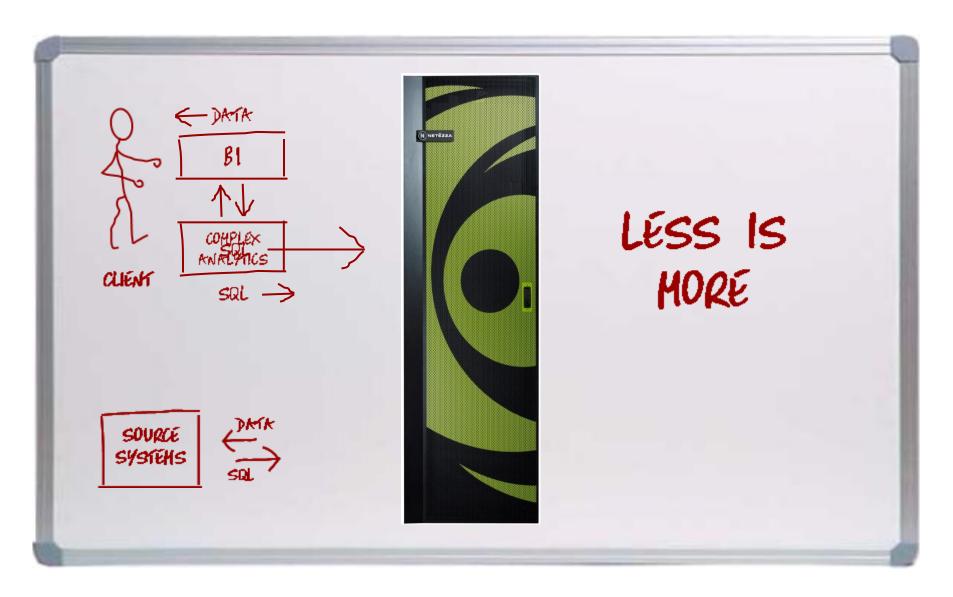
## Big data overwhelms traditional data warehouses



## Let's simplify this mess ...



## ... and bring analytics into the warehouse



## The IBM Netezza Appliance: Revolutionizing Analytics

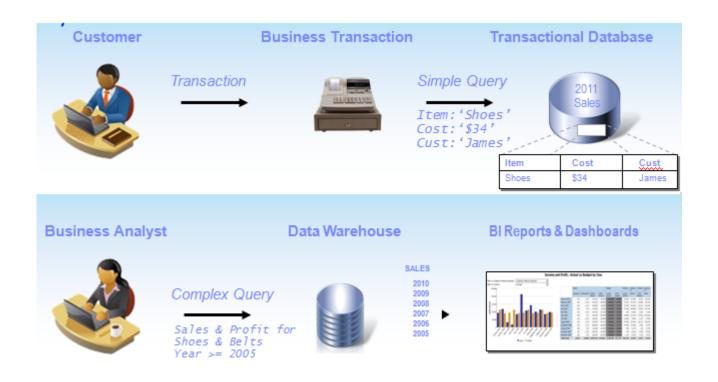


- > Purpose-built analytics engine
- > Integrated database, server & storage
- > Standard interfaces
- Low total cost of ownership

- Speed: 10-100x faster than traditional systems
- Simplicity: Minimal administration
- Scalability: Peta-scale user data capacity
- Smart: High-performance advanced analytics

## Transactional workloads vs. analytic workloads

Two very different requirements for storing and processing data



## The Netezza Appliance – Loading

## Data Integration

**IBM Information Server** 

Ab Initio

**Business Objects/SAP** 

Composite Software

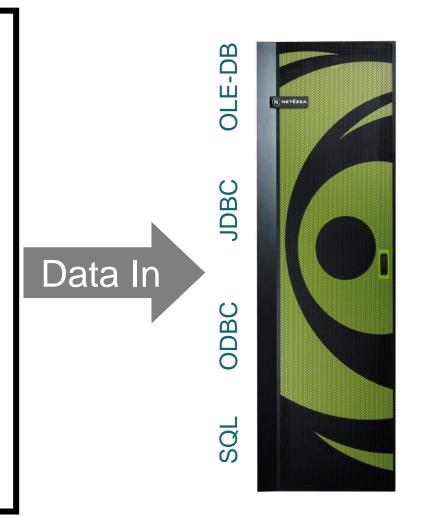
**Expressor Software** 

GoldenGate Software (Oracle)

Informatica

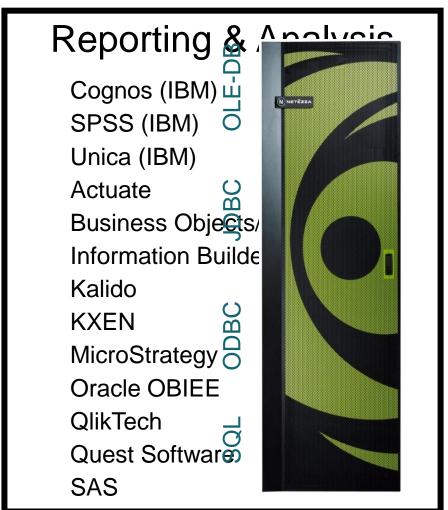
Sunopsis (Oracle)

WisdomForce



## The Netezza Appliance – Querying





#### **Digital Media**

















**Financial** Services















Government















**Health & Life Sciences** 













Retail / Consumer **Products** 



















**Telecom** 















Other













## Netezza delivers speed

- 15,000 users
- Running 800,000+ queries per day



...when something took 24 hours I could only do so much with it, but when something takes 10 seconds, I may be able to completely rethink the business process ...



-- SVP Application Development, Nielsen

http://www.youtube.com/watch?v=yOwnX14nLrE&feature=player\_embedded

## **Netezza delivers scalability**

- 1 PB on IBM Netezza
- 7 years of historical data
- 100-200% annual data growth





NYSE ... has replaced an Oracle 10 relational database with a data warehousing appliance from Netezza, allowing it to conduct rapid searches of 650 terabytes of data.





-- ComputerWeekly.com

#### Netezza delivers smarts

- Identifies items that shoppers are likely to buy in future visits
- Coupon redemption rates as high as 24%



Because of (Netezza's) in-database technology, we believe we'll be able to do 600 predictive models per year (10X as many as before) with the same staff.



-- Eric Williams, CIO & Executive VP

## **Catalina Marketing:**

building loyalty one customer at a time

Coupon redemption rate 1% 6-10% 25%	Identifies it	of one – 195 million US loya ed is unique to the individual g on three years' worth of pur from 4 hours to 60 seconds t	Basic targeting e.g., offer dog food coupon to customer buying dog food	Using predictive models to find latent correlations
	Coupon redemption rate	1%	6-10%	25%

Because of (Netezza's) in-database technology, we believe we'll be able to do 600 predictive models per year (10X as many as before) with the same staff.



-- Eric Williams, CIO & Executive VP

## **Netezza delivers simplicity**

- Up and running 6 months before being trained
- 200X faster than Oracle system
- ROI in less than 3 months





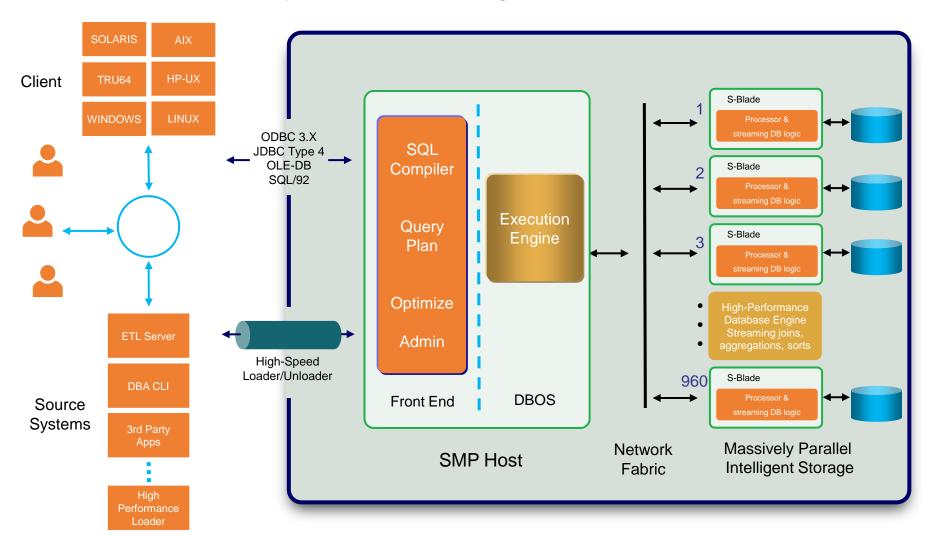
Allowing the business users access to the Netezza box was what sold it.



-- Steve Taff, Executive Dir. of IT Services

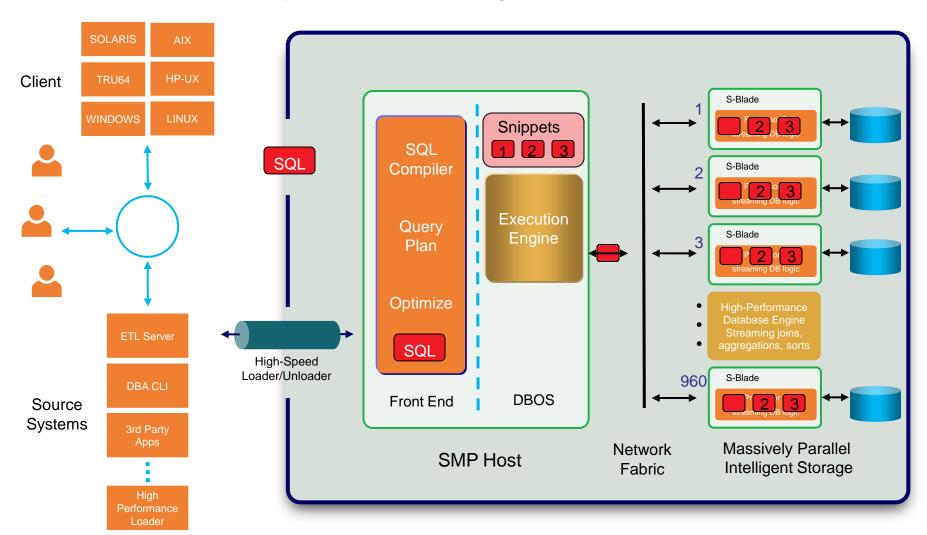
#### **IBM Netezza:**

True Appliance, Massively-Parallel Processing

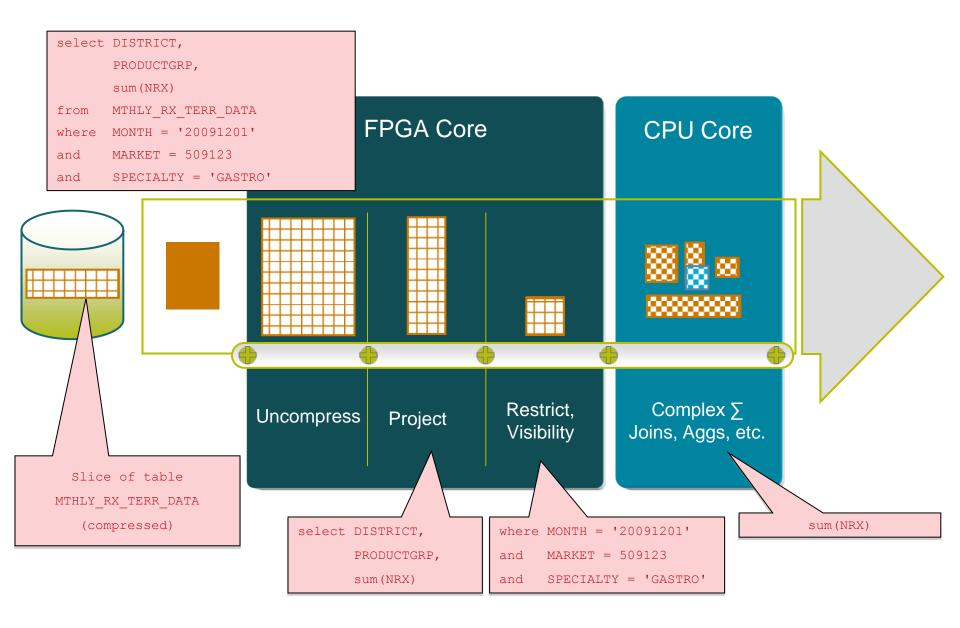


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True Appliance, Massively-Parallel Processing

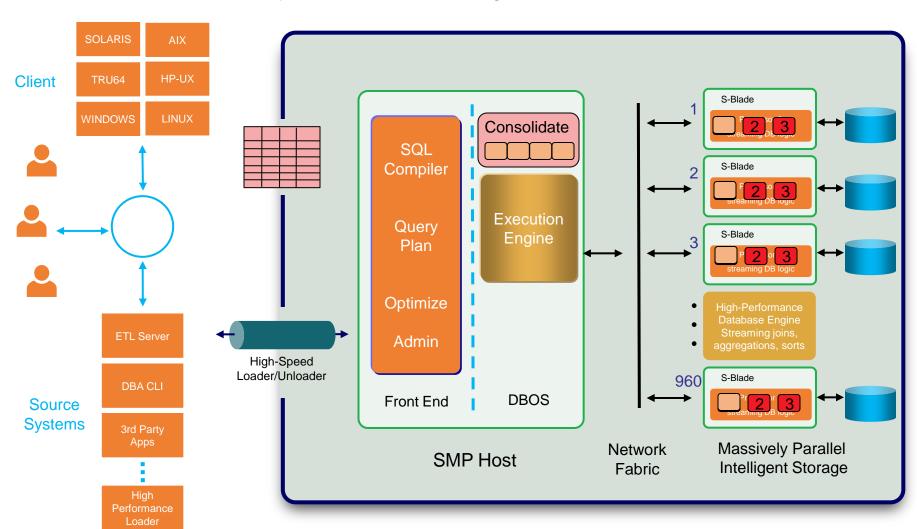


### **Our Secret Sauce**



#### **IBM Netezza:**

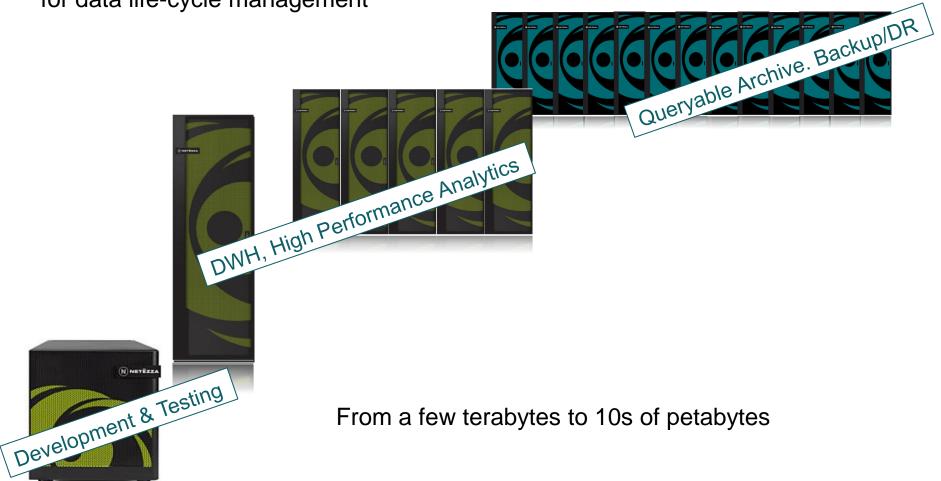
True Appliance, Massively-Parallel Processing



# EM

## IBM Netezza data warehouse appliance family

for data life-cycle management





## The IBM Netezza Appliance: Revolutionizing Analytics





- Speed: 10-
- Simplicity: I
- Scalability: Peta-scale user data capacity
- Smart: High-performance advanced analytics

