



Big Data for Government Symposium

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Big Data “Implementation Lesson’s Learned”

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Recovery Accountability and Transparency Board

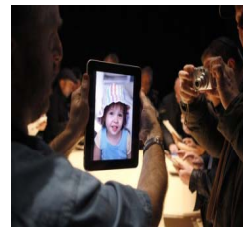
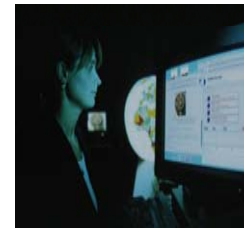
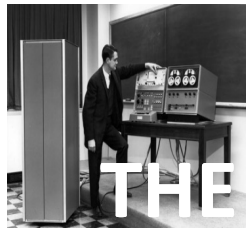
The Recovery Accountability and Transparency Board

- The **Recovery Accountability and Transparency Board** is an agency of the United States federal government, which manages the Recovery.gov website and oversees spending under the American Recovery and Reinvestment Act of 2009.
- Key Initiatives and Programs include:
 - Oversight of \$840 billion Recovery Act spending through Recovery.gov. It is the U.S. government's official website that provides easy access to data related to Recovery Act spending and allows for the reporting of potential fraud, waste, and abuse.
 - All Federal Spending "Testing" - Consolidate Appropriation Act of 2012
 - Hurricane Sandy Relief Funding Oversight - \$60 billion
- Nationally Recognized for Excellence
 - Twenty awards within four years
 - First Federal Wide System to Migrate to the Cloud "Amazon"
 - First Customer to migrate to the Microsoft 365 GovCloud

Our Business is "DATA"

Humans Have Always Desired Connecting

1962, a computer pioneer said,
"There is no reason to suppose the average boy or girl cannot be master of a
personal computer."
Soon after, PCs arrived and have kept changing and changing.

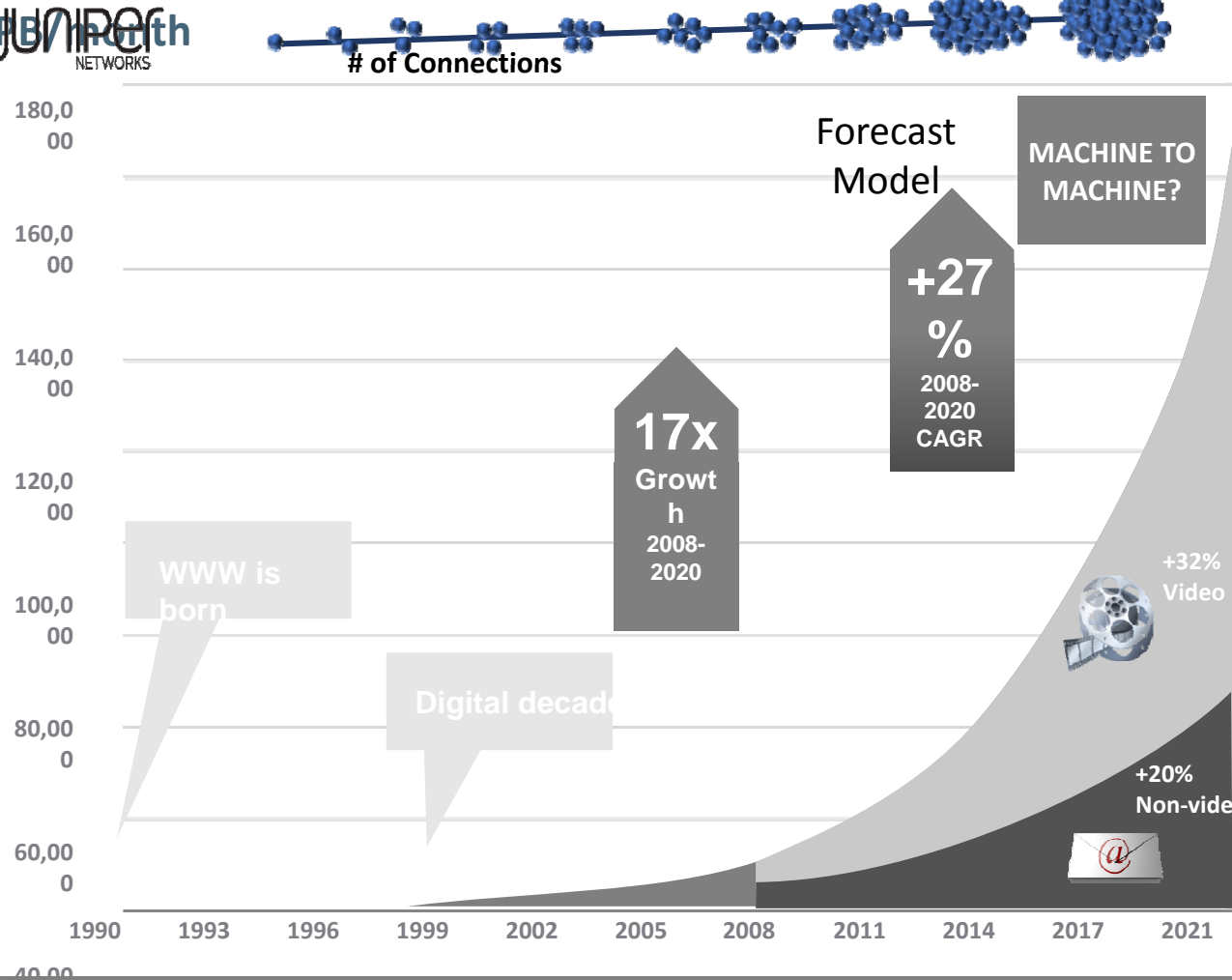


As Humans We Need More and More Data

Worldwide internet traffic, 1990-2020

Juniper
of Connections

•Source: Juniper, Cisco, M



Storage Cost Drop Increasing Usage

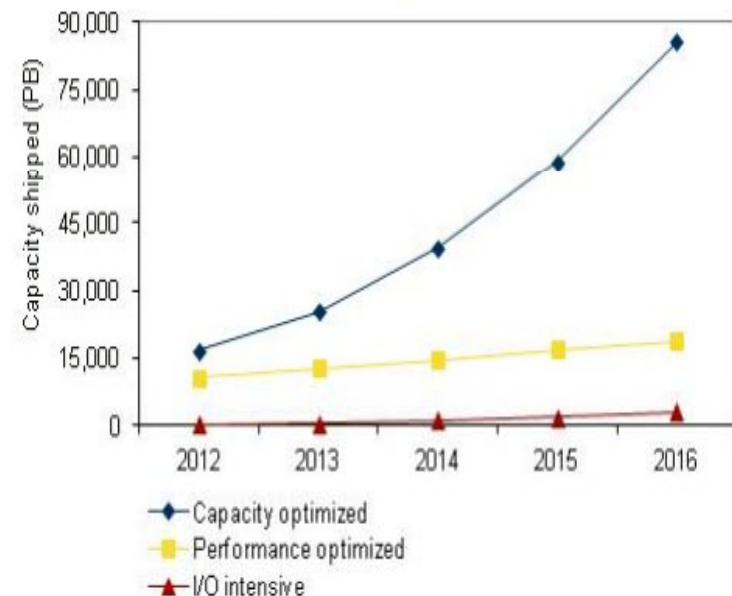
Cost per GB for Hard Drives

Prices Backblaze paid for drives from 2009-2013



(Image: Backblaze)

Worldwide Capacity-Optimized, Performance-Optimized, and I/O-Intensive Storage Systems Shipments, 2012-2016



(Source: IDC, 2013)

We Will Hit The Wall

*I predict by 2021 we will have to have a plan to
Make sense of the amount of data stored in the US.*

Data is growing, the price of storage is shrinking.

*This is not a technology problem,
rather a matter of being responsible.*

What is Big Data?

big data

Web definitions

Big data is the term for a collection of data sets so large and complex that it becomes difficult to process using on-hand database management tools or traditional data processing applications. ...

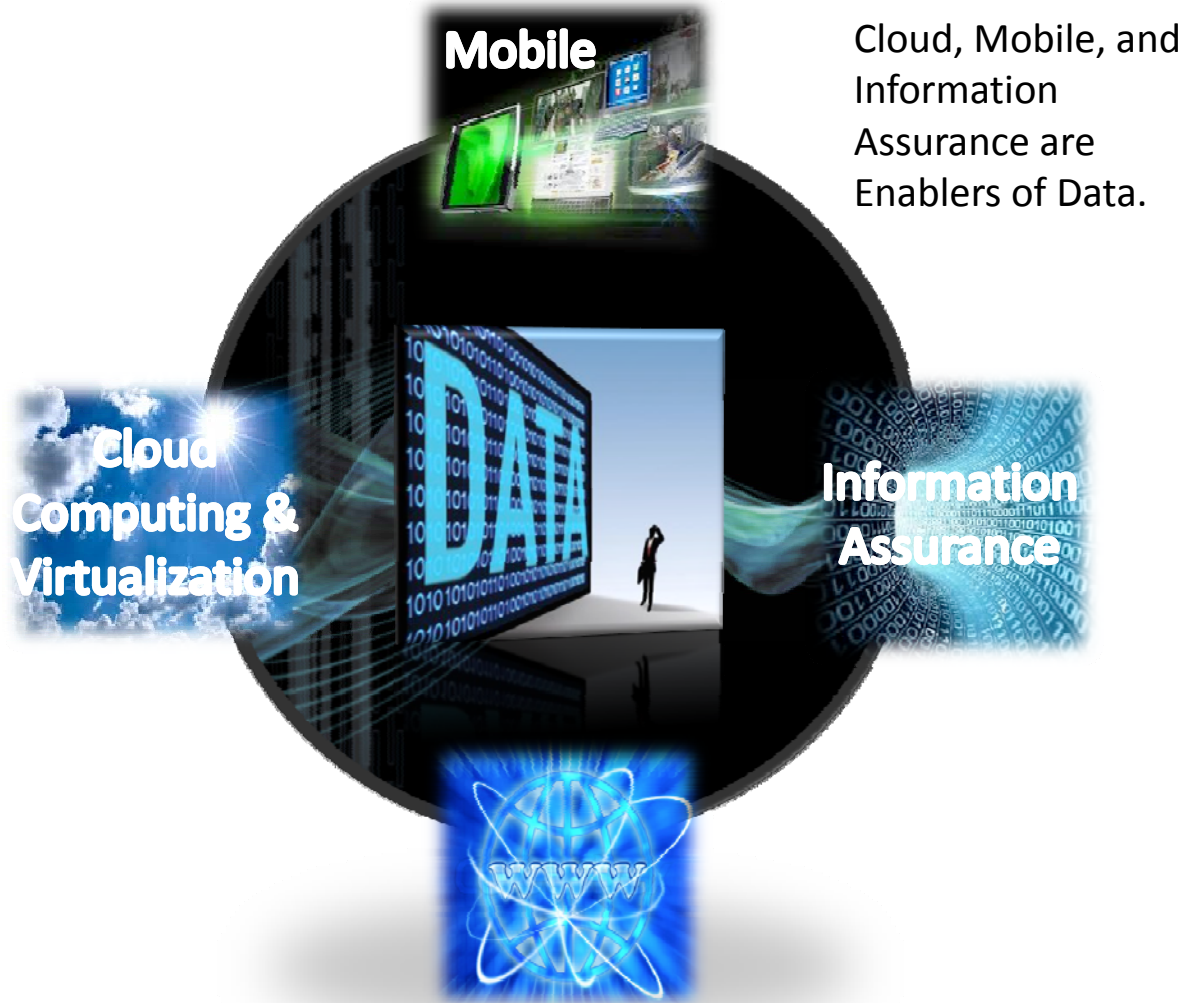
http://en.wikipedia.org/wiki/Big_Data

The Question for Today....

Do you feel you have a
“Big Data Problem”?

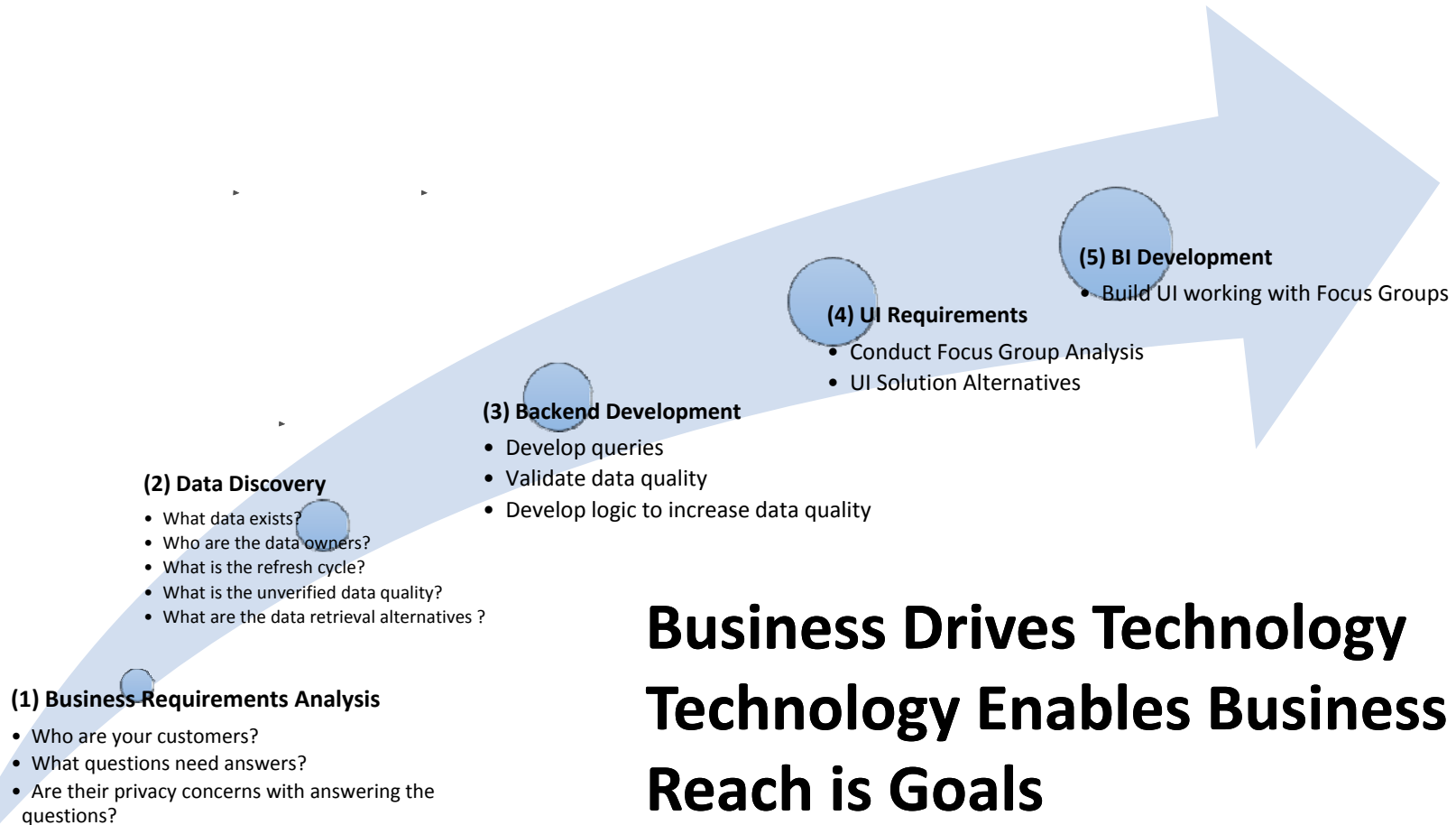
Why?

The Hype Circle – Data is the CORE





Five Step Agile Approach to Kick Start Business Intelligence / Analytics



**Business Drives Technology
Technology Enables Business to
Reach its Goals
and Objectives**

High Level Logical Architecture Advanced Data Management System

TIER 1

Display Analytic Layer / Data Federation



TIER 2

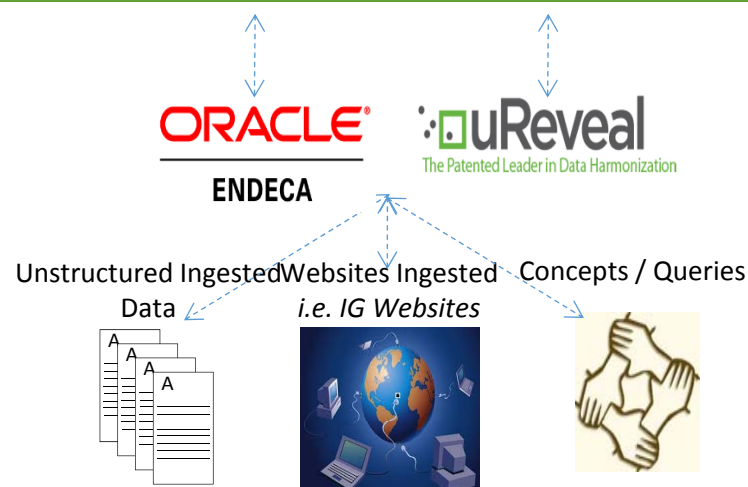
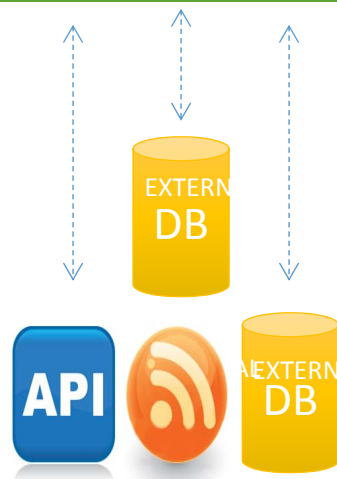
Data Layer

Data Automation
"SAP DATA AUTOMATION"

EXTERNAL FOCUSED INTERNAL FOCUSED



Unstructured Data Automation

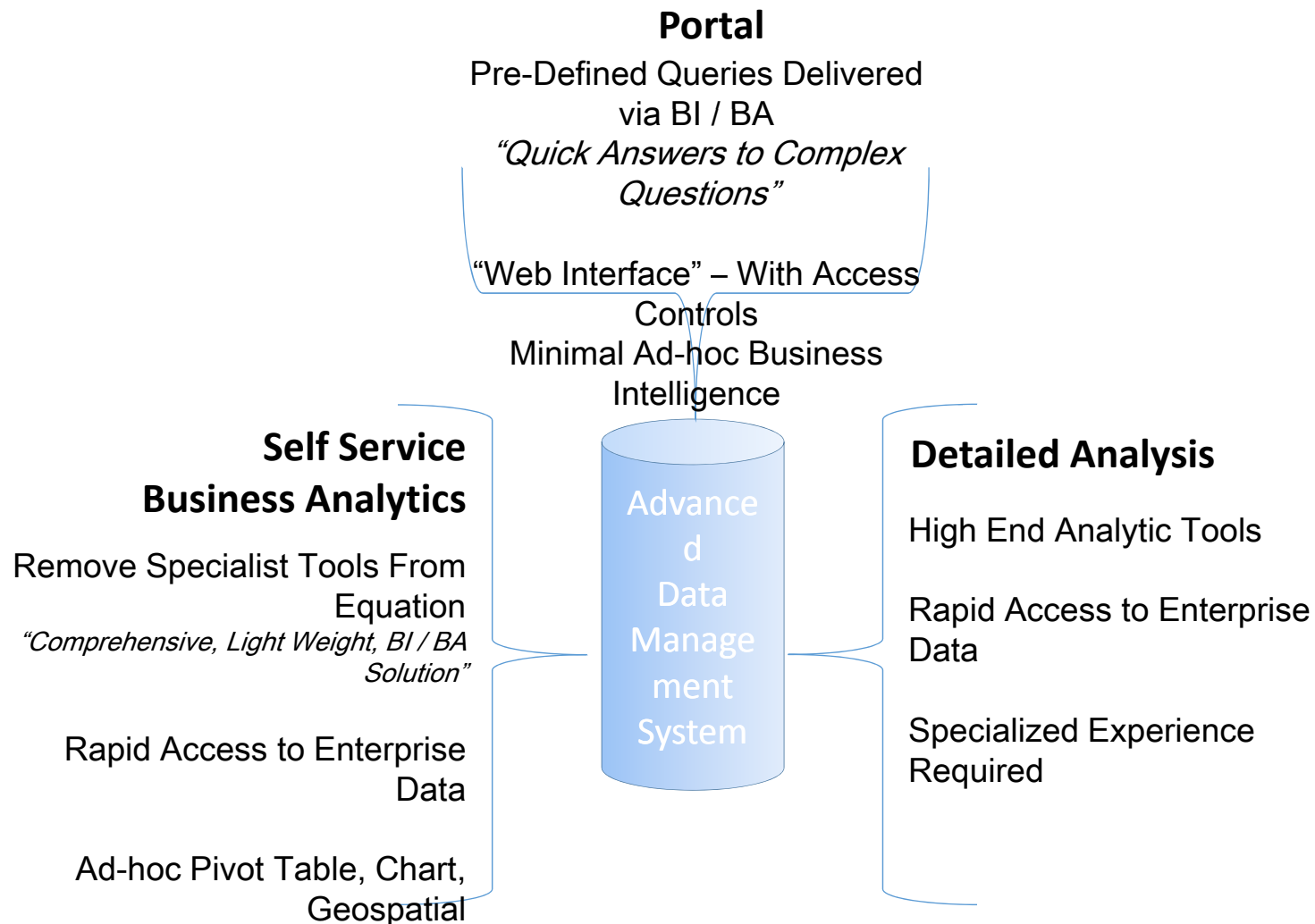


Data
Types

Resource Data – Entities Doing Business with the Federal Government

Risk Data – Supporting Bad Actors Risk Framework

Three Dimensions to Data Analytics



Lessons Learned

- Business Drives Technology, Technology Enables Business
- Stored Data is Growing and Must Be Responsibly Managed
- Technology is not the Problem Regarding Structured and Unstructured Data Analytics