



# ***Big Data: Show Me The Money***

*Merv Adrian*

*Research Vice President, Information Management*

**Gartner**

# Digital Business

The creation of new  
business designs by  
blurring the digital and  
physical worlds

# The NEXUS ... Biggest IT Inflection Point in 35 Years

Information

Cloud

# 2013: \$31B DBMS Market Grew 7.8% - And the Rules Began to Change

	2011 (\$M)	2012 (\$M)	2013 (\$M)	2013 Growth%
<b>Total</b>	26,611.8	28,681.6	31,260.9	8.3

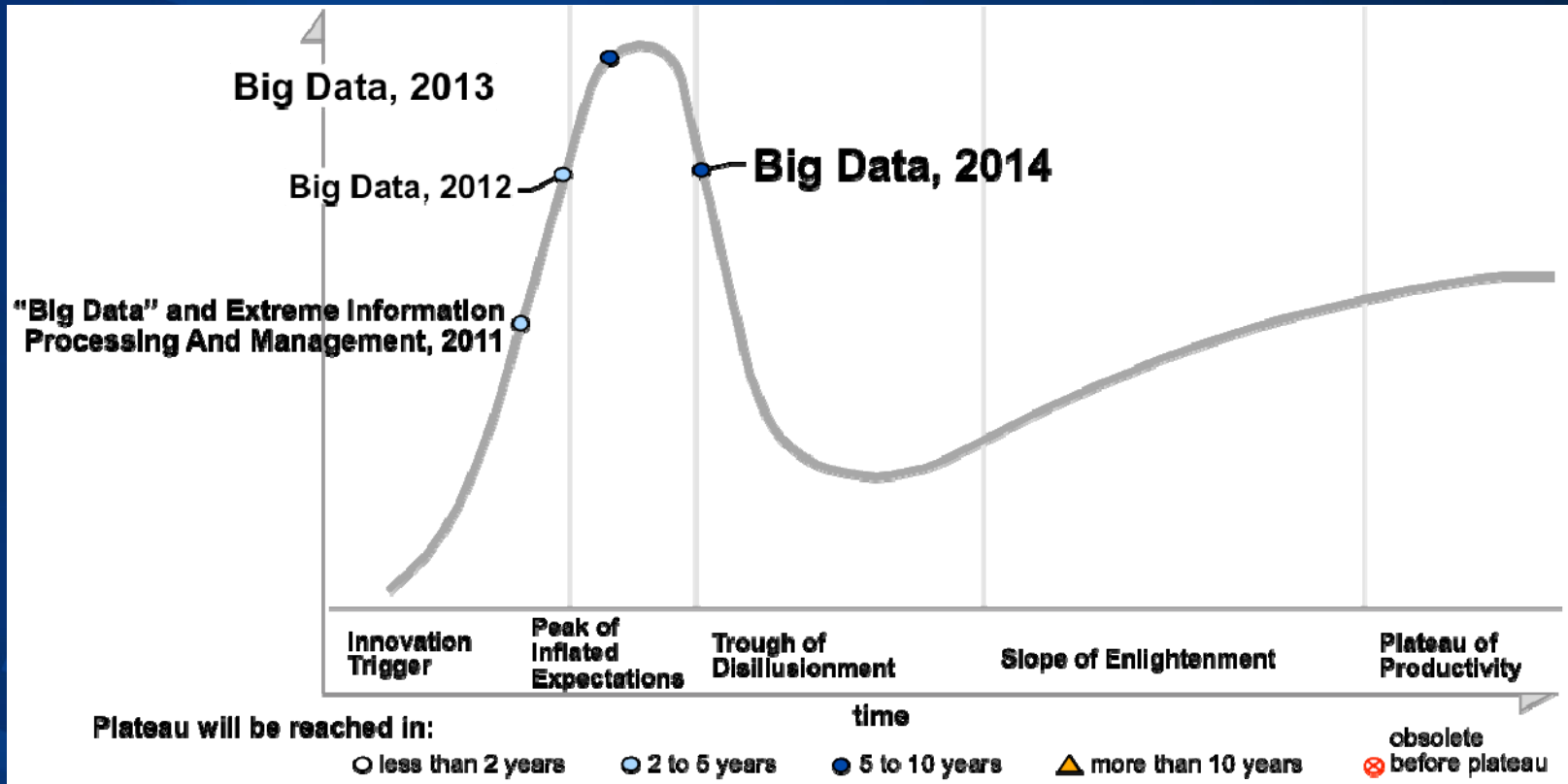
Source: "Market Share: All Software Markets, Worldwide, 2012"

- **Rule #1 – “my strategic DBMS first” – is history**
- **A polyglot data world with traditional Transactions, Interactions, and Observations**
- **Each has its rules, styles, languages and structures**

# Enter "Big Data" – And Things Change More

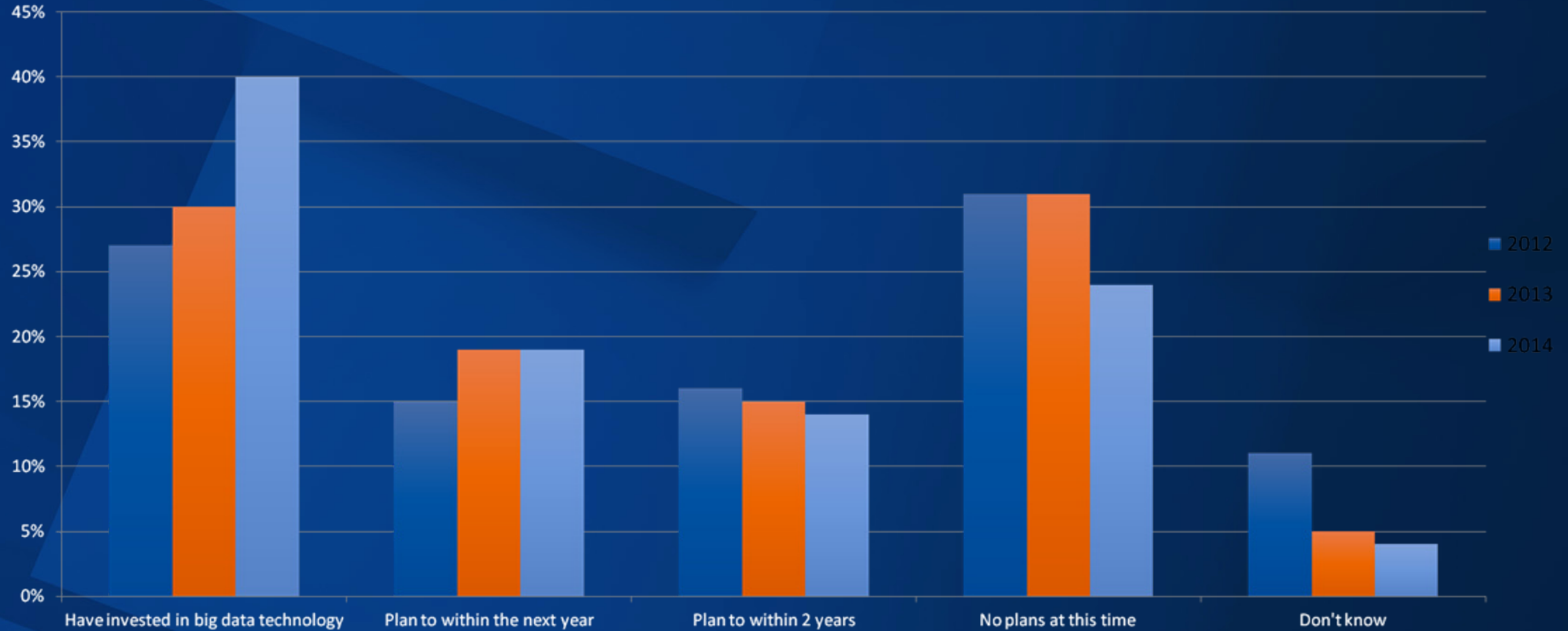
"Big data" is high-volume, high-velocity and high-variety information assets *that demand cost-effective, innovative forms of information processing for enhanced insight and decision making.*

# Big Data – Journey Beyond Hype



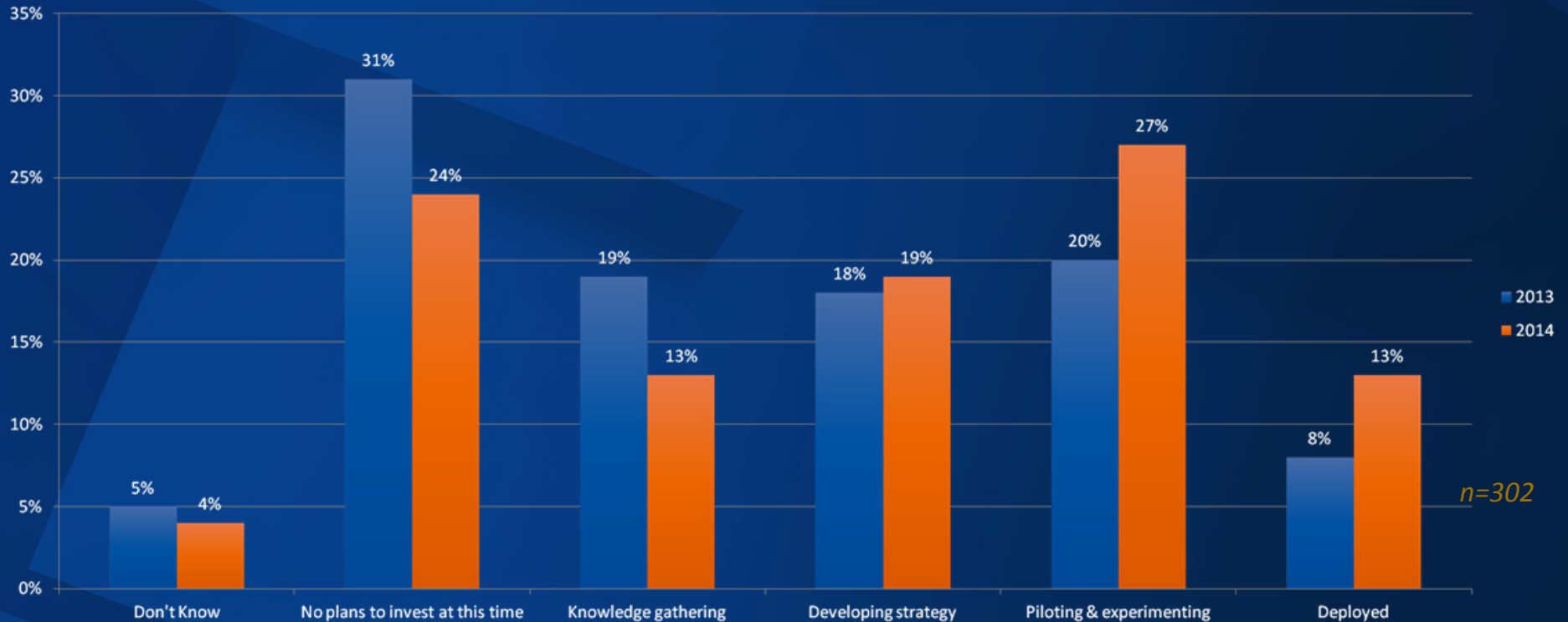
# Big Data Investment Continues to Rise

Has your organization already invested in technology specifically designed to address the big data challenge?



# State of Big Data Adoption

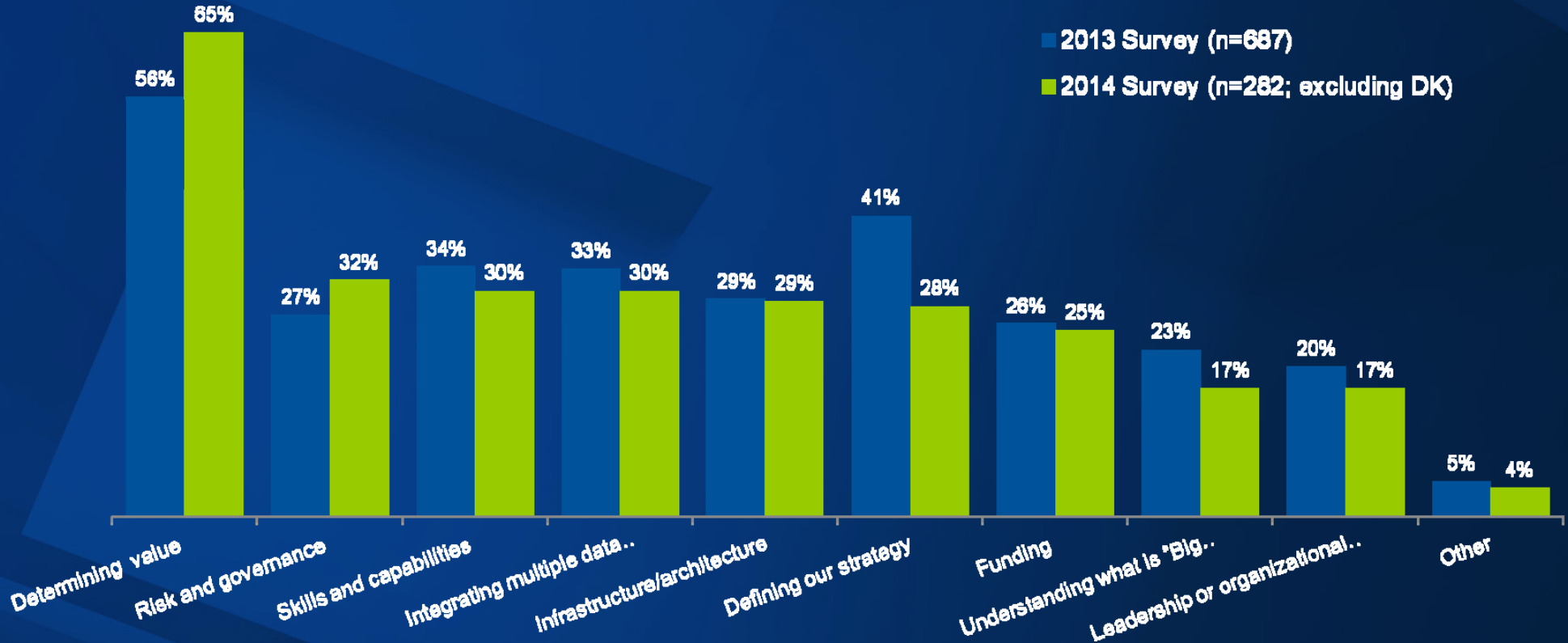
Which of the following best describes your organization's stage of big data adoption?





# Big Data Challenges

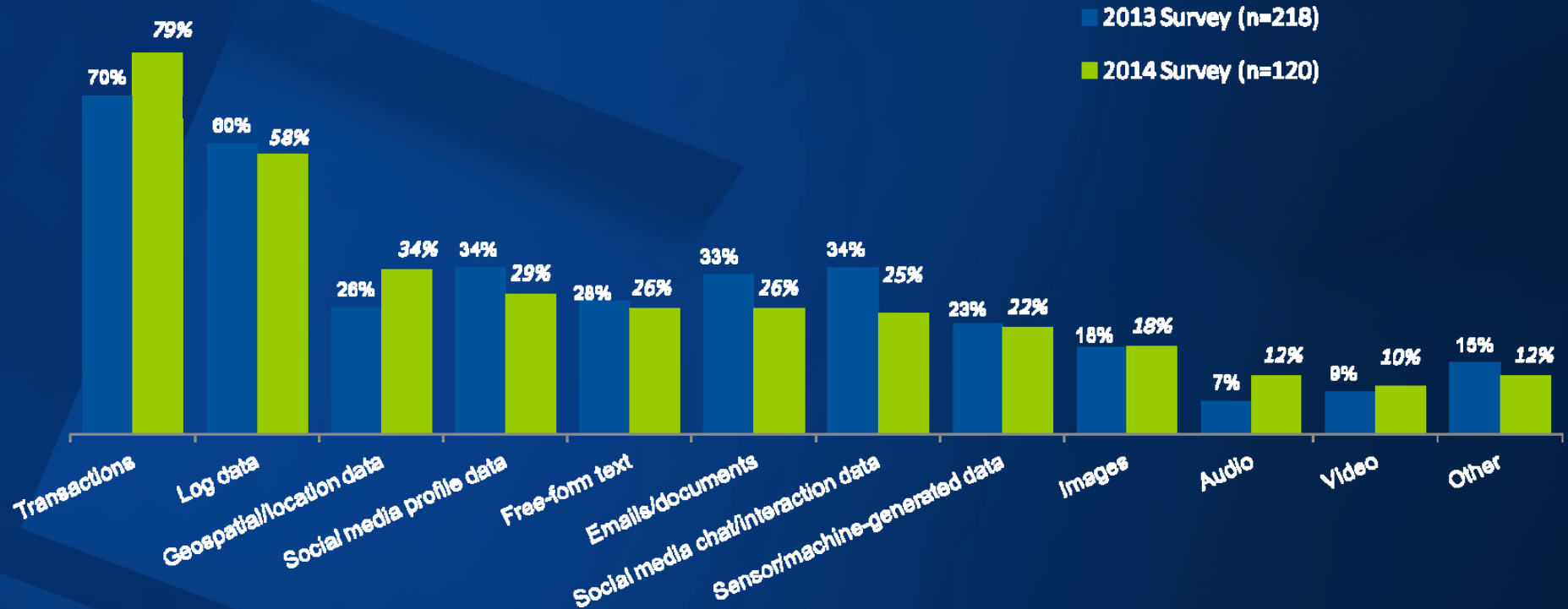
What are your organization's top 3 hurdles or challenges with big data? Rank Summary



# Types of Big Data analyzed

Which types of big data does your organization currently analyze?

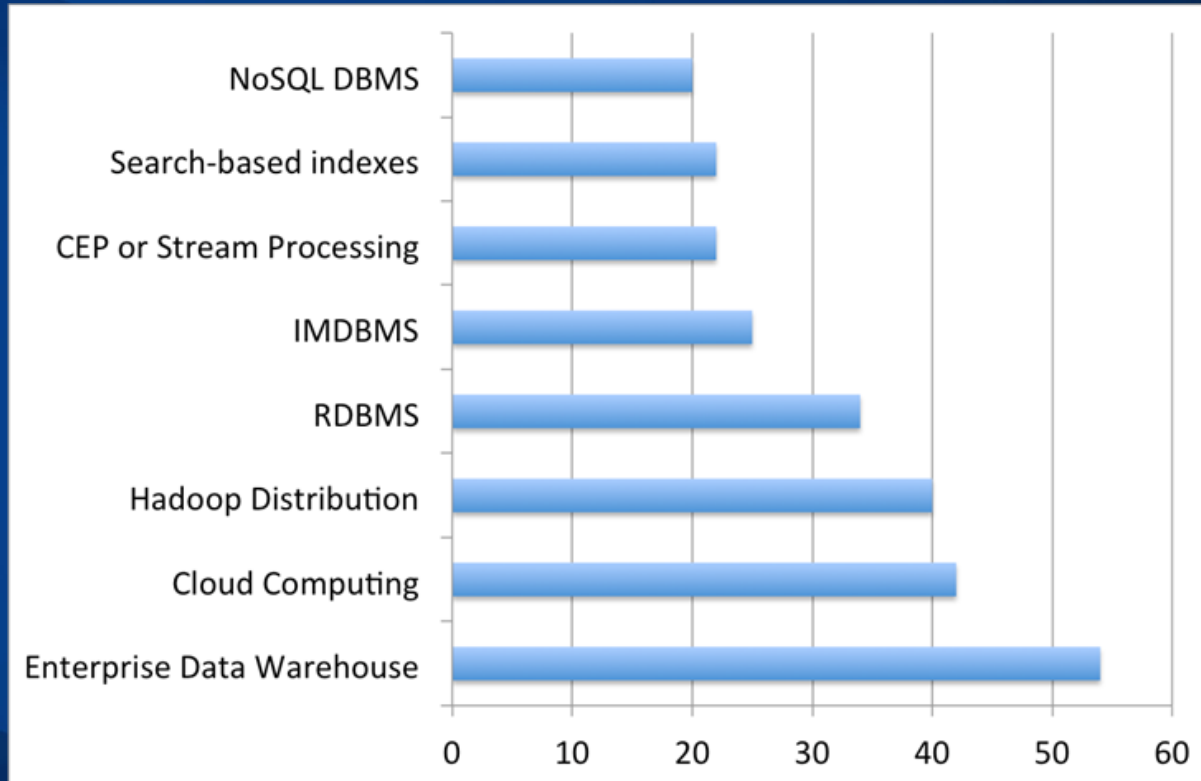
Base: Invested in big data technology (Q1)



Multiple responses allowed

# Is It “All Hadoop, All the Time?” No.

What technologies are your organization using or planning to use to derive value from big data?





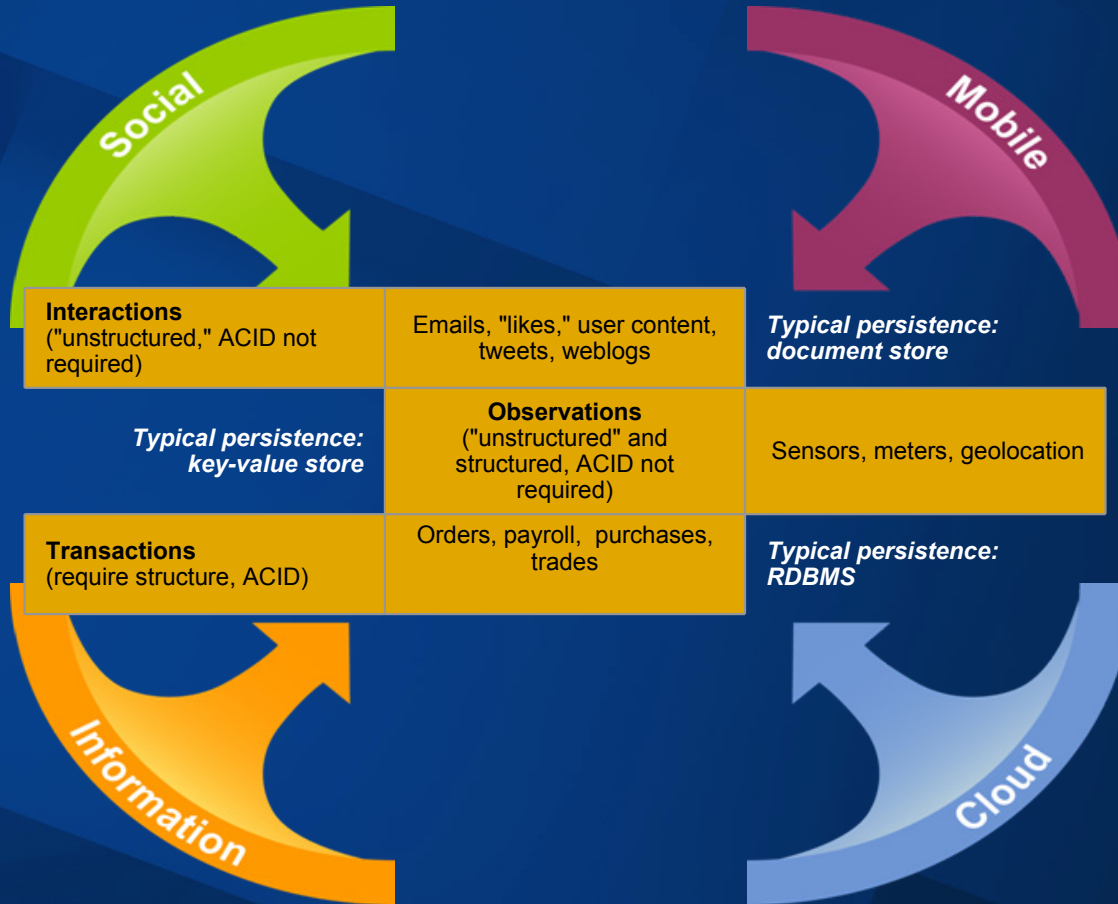
# Hadoop Changes With YARN— Driving More Use Cases



**YARN**  
*Cluster Resource Management*

**HDFS**  
*Distributed Storage*

# Data Passing Through Hadoop Won't Always Stay There – Enter NoSQL



# Why the Fuss About Mobile?

**2009**  
Personal Devices  
**1.6 Billion**

**2009**  
Internet of Things  
**.9 Billion**

# What's the Impact of Mobile AND the Cloud? The IoT

**2020**  
Internet of Things  
**30 Billion**

**2020**  
Personal Devices  
**7.3 Billion**



# What's So Great About Cloud Deployments?

- Inherently mobile
- Rapid innovation
- No large-scale upgrades
- Staff redeployment
- Complexity avoidance
- Easy to scale up or down
- Economics
- Opex, not capex



*For  
Employees*



*For  
Operations*

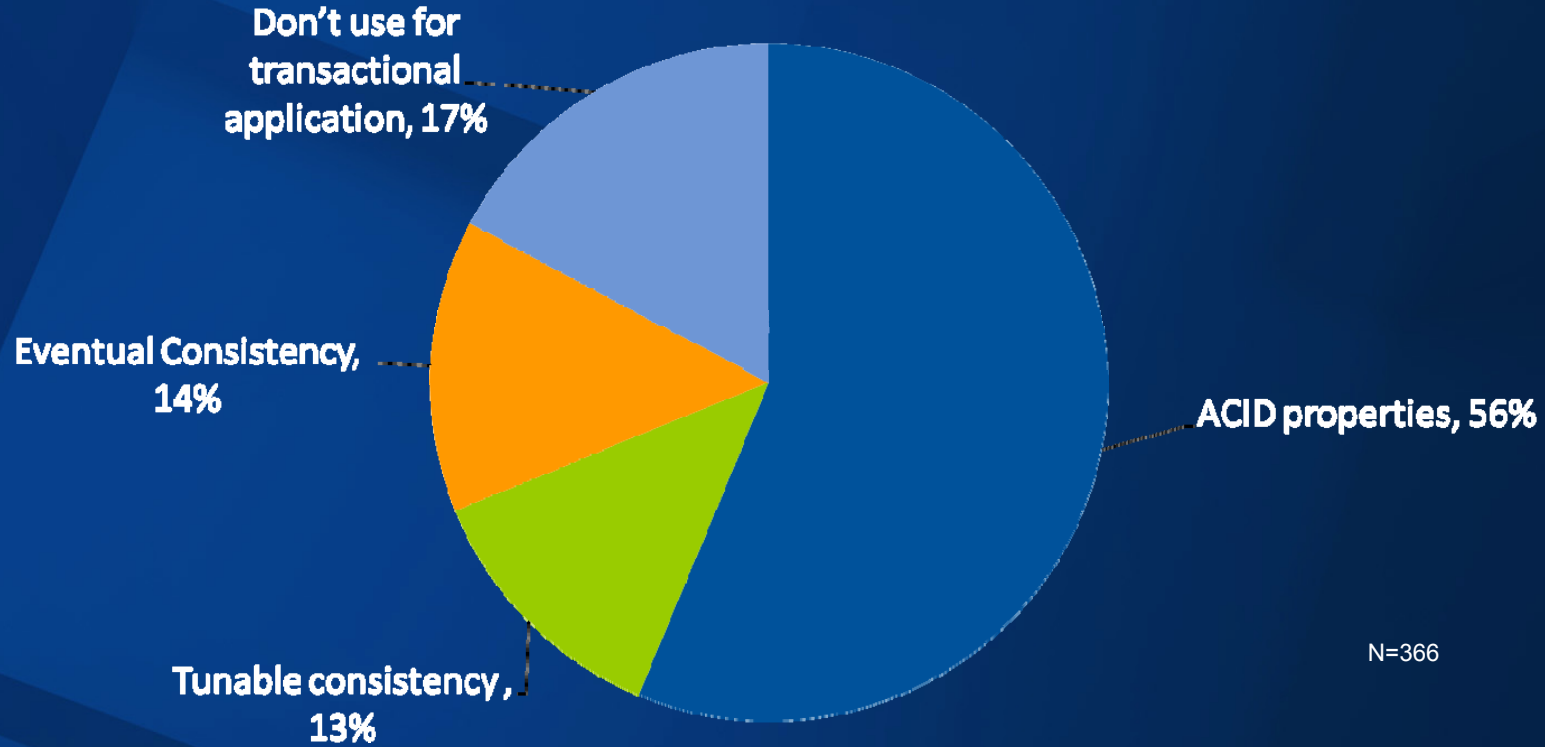


*For  
Finance*

*The Cloud provisioning model holds widespread appeal for multiple constituencies*

# Why Did Gartner Combine New DBMS Products With the Traditional DBMSs?

Survey Question: What consistency requirements apply to the application(s) that is(are) the subject of this survey?



Source: Gartner Primary Research Reference Survey for OPDBMS MQ — July 2014

© 2013 Gartner, Inc. and/or its affiliates. All rights reserved.

**Gartner**

Data lake...

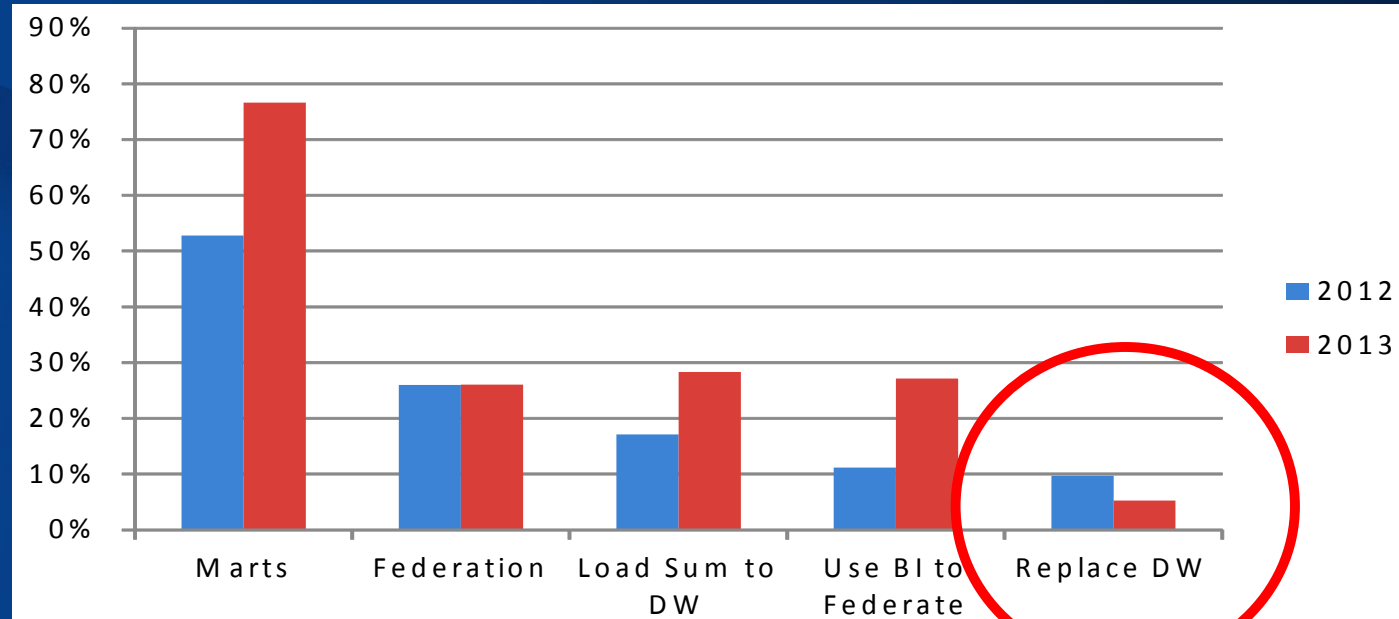


...or reservoir?



# "Big Data Replacing the Data Warehouse?" Not a Relevant Notion. It Joins the Warehouse.

What Are  
Organizations  
Planning for  
Their DWs?



Source MQ DW DBMS Survey, Nov. 2013 and Nov. 2012

***Data warehouses are collections of data — not technology platforms.  
A data warehouse can be made out of anything that manages data.  
The key point is that when we find value, it is indeed managed.***

A large concrete dam with three spillways is shown from an elevated perspective. The dam is surrounded by lush green trees. Water is cascading down the spillways, creating a misty spray at the base. The reservoir behind the dam is visible in the background.

A reservoir  
contains  
water that is...

Managed  
Transformed  
Filtered  
Secured (somewhat)  
Portable  
Potable (fit for consumption)



***Thank You!***

*Merv Adrian*

*@merv*

**Gartner**