



**IBM ASEAN  
Leadership Exchange**



# Intelligent Enterprise

Building the foundation

## Session agenda (To be deleted)

Can you predict and respond to opportunities and threats? Optimize operations to reduce costs and capitalize on new sources of revenue? Proactively manage risk while ensuring efficiency? Learn how intelligent enterprises are harnessing breakthroughs in analytics and business optimization to manage pervasive information, analyze it to gain insight, predict risks and opportunities, and drive faster, smarter decisions and actions.

Globalization, massive interconnections and increased risk, combined with an explosion of information, results in a challenging and continuous cycle of inefficiency and operational complexity. Unfortunately, many leaders are making crucial business decisions based almost entirely on intuition and personal experience rather than intelligent information.

A fundamental shift to a smarter, fact-based enterprise is imperative. How can this help your organization? A more predictive information strategy and a clearly defined information agenda will pave the way for more intelligent decisions. Harness the power.

# What have you been telling us?

- Business leaders regard their experience and intuition as inadequate tools for optimizing their enterprises
- Enterprises are making important decisions without access to the right information
- New analytics applied in businesses can close gaps and create new advantage
- It's not too late to start



**IBM report surveyed of 225 business leaders worldwide**

Source: *Business Analytics and Optimization for the Intelligent Enterprise*, April 2009.  
<http://www-935.ibm.com/services/us/gbs/bus/pdf/gbe03211-usen-00.pdf>



### **Volume of Digital Data**

Every day, 15 petabytes of new information are being generated. This is 8x more than the information in all U.S. libraries.

By 2010, the codified information base of the world is expected to double every 11 hours.



## Variety of Information

Today, 80% of new data growth is unstructured content, generated largely by email, with increasing contribution by documents, images, and video and audio



**Velocity of Decision Making**

70% of executives believe that poor decision making has had a degrading impact on their companies' performance

Only 9% of CFOs believe they excel at interpreting data for senior management

# Organizations are operating with blind spots

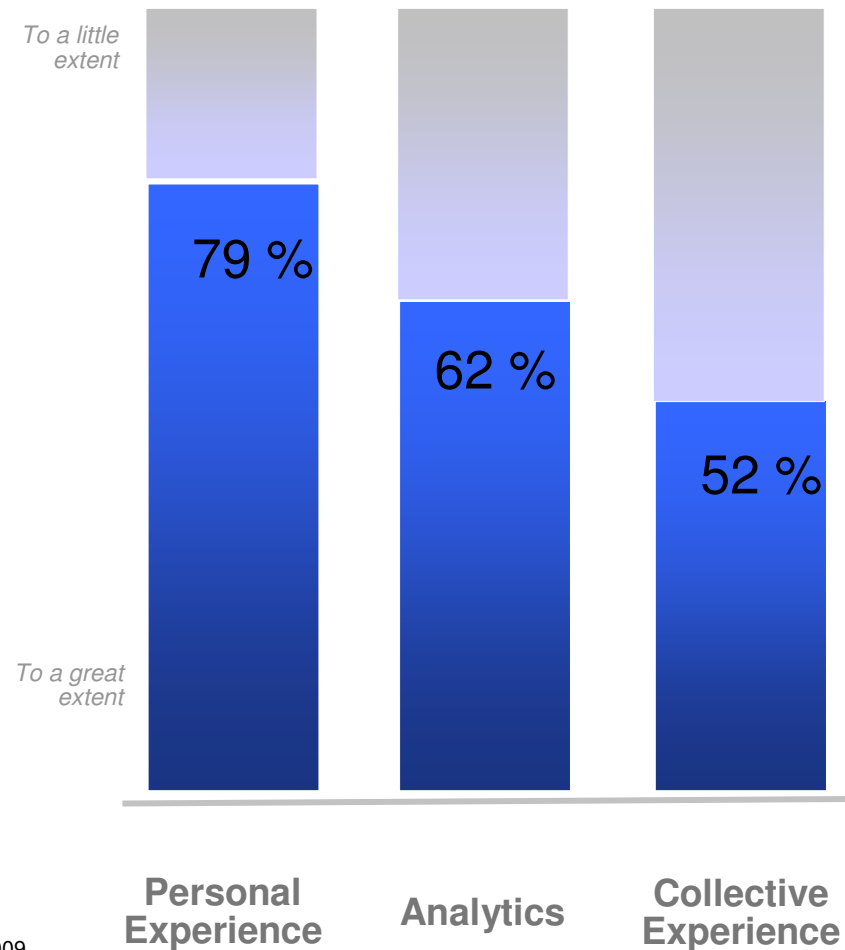
# 1 in 3

business leaders frequently make critical decisions without the information they need

# 53%

don't have access to the information across their organization needed to do their jobs

### Factors supporting major decisions



Source: *Business Analytics and Optimization for the Intelligent Enterprise*, April 2009.  
<http://www-935.ibm.com/services/us/gbs/bus/pdf/gbe03211-usen-00.pdf>

Most organizations recognize the opportunity for analytics, but are still very early in the adoption process

**3 in 4**

business leaders say more predictive information would drive better decisions

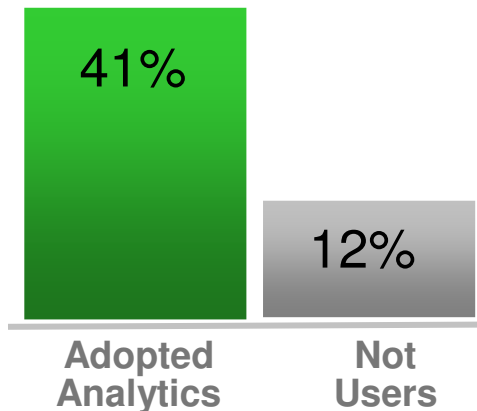
**2 in 3**

business leaders see the opportunity to leverage information and are just beginning to act

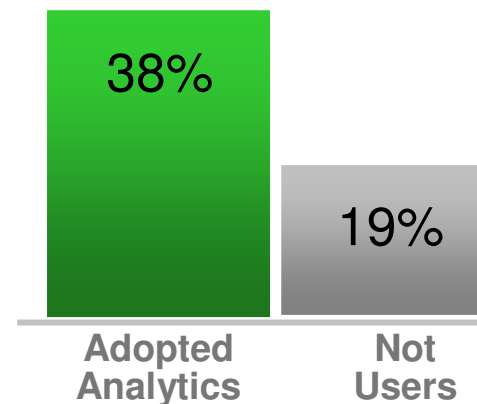
**1 in 5**

business leaders haven't thought about how to use information for new advantages

**Understand risk**



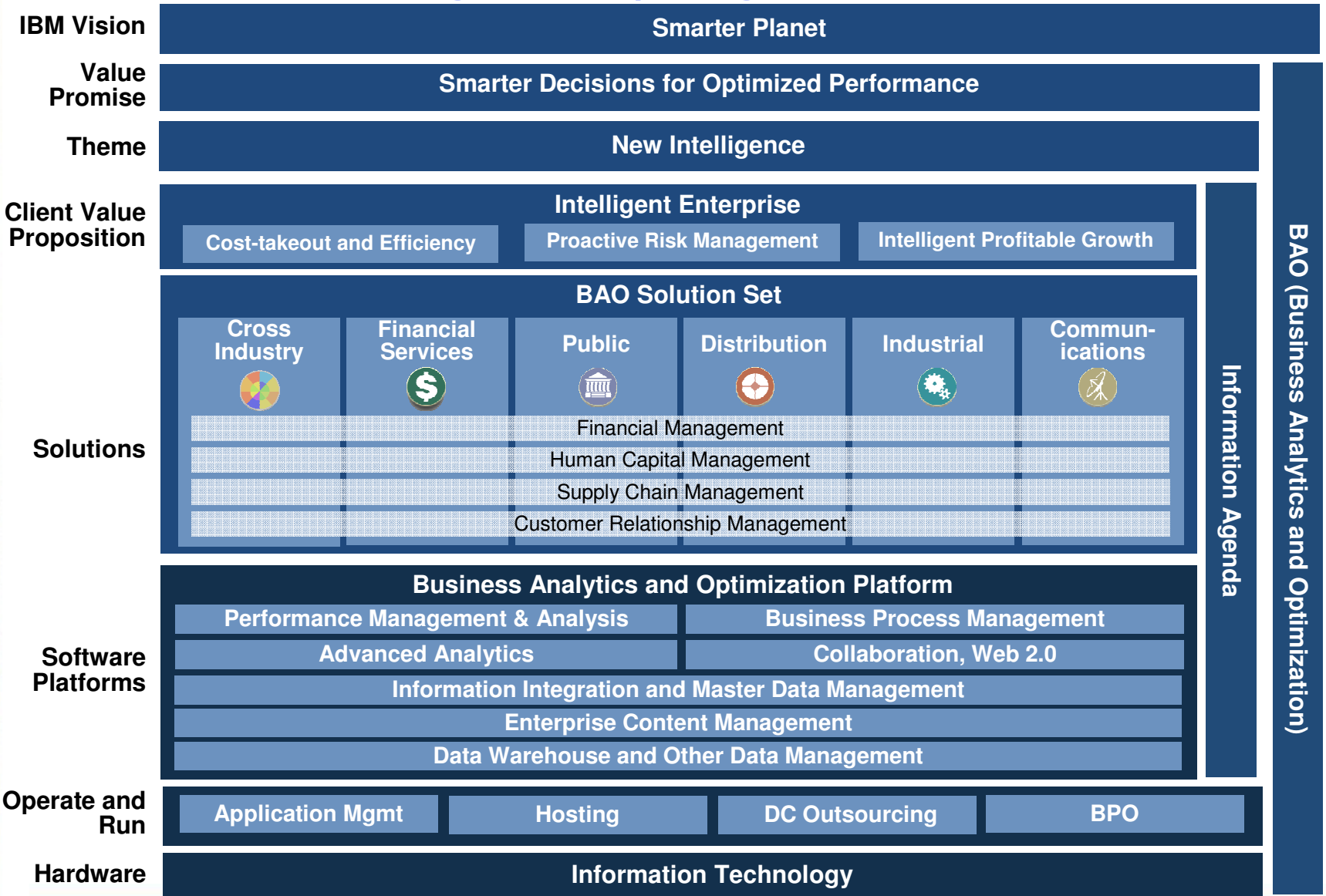
**Ability to predict**



Source: *Business Analytics and Optimization for the Intelligent Enterprise*, April 2009. <http://www-935.ibm.com/services/us/gbs/bus/pdf/gbe03211-usen-00.pdf>



# What is IBM doing to help organizations



# Intelligent Enterprise integrates information into business decisions and operations at increasing levels of sophistication

BAO Maturity Stage

## Business Optimization

How the business applies information to achieve it's goals

- Policies
- Biz Processes

- **Data and Analytics simplification**
- Credit Risk assessment

- **Single view of the customer**
- Marketing Dashboard
- Quality management
- Brand and reputation analysis

- **Customer loyalty and event management**
- Risk Management
- Segment-specific products and pricing
- Supply chain optimization

## Business Analytics

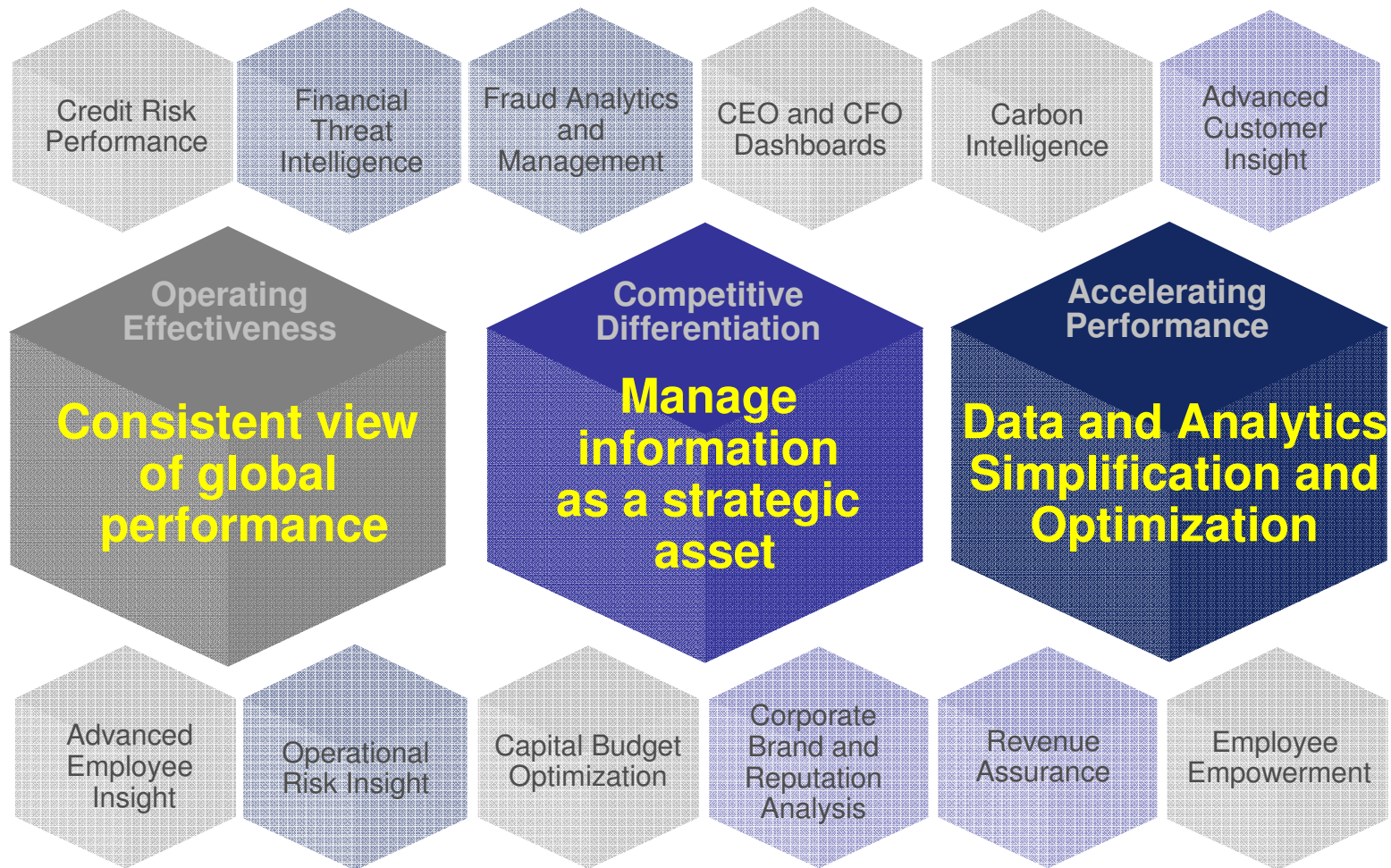
How the business manages information and learns from it

# If you can't get past data integration – Survival may be in question...

Organizations are focused on six key elements:

	Quality	Trust	Cost	Velocity
<b>1. Capture of detailed transaction &amp; interaction data</b> <ul style="list-style-type: none"> <li>Enables “right time” actions to acquire, grow, and retain customers</li> <li>Provides base level customer insights</li> </ul>	✓	✓		✓
<b>2. Integrated data</b> <ul style="list-style-type: none"> <li>Data synchronization to facilitate organizational flexibility</li> <li>Enables customer and financial management across the entire enterprise</li> </ul>	✓	✓	✓	✓
<b>3. Customer valuation / segmentation / prioritization</b> <ul style="list-style-type: none"> <li>Understand current and potential customer value</li> <li>Bases for sales and customer management strategies</li> </ul>	✓		✓	✓
<b>4. Right Time = Progressively removing delays from Business Process *</b> <ul style="list-style-type: none"> <li>Provides a new way to sell and enhance customer experience</li> <li>Becomes the foundation of the business model</li> </ul>		✓		✓
<b>5. Dynamic channel management</b> <ul style="list-style-type: none"> <li>A uniform and consistent customer management across all channels</li> <li>Ability to move to near segments of one in sales and marketing</li> </ul>	✓	✓		✓
<b>6. Flexibility and agility</b> <ul style="list-style-type: none"> <li>Test and learn discipline key to success</li> <li>Fast reaction time to market, customer, and competitive change</li> </ul>	✓	✓	✓	✓

# Using analytics to deliver optimized performance



# BAO addresses critical client needs through big plays

## Client Pain Points

- **Cost Complexity due to Acquisitions**
- **Need Data Simplification**
- **Operating expense too high**

**Analytics and Data Optimization**

## Industry Focus

**Launch: Banking**  
**Secondary: Life Sciences**

## Client Pain Points

- **Limited access to customer data**
- **Need for customer loyalty & profitability**
- **Need for revenue assurance**

**Cost Take-out and Efficiency**

## Industry Focus

**Launch: Telco**  
**Secondary: Banking, Retail**

**Intelligent profitable growth**

**Proactive risk management**

## Client Pain Points

- **Need for risk transparency**
- **Losses due to unmanaged Risk**
- **High rates of Fraud and Abuse**
- **Increased regulatory oversight**

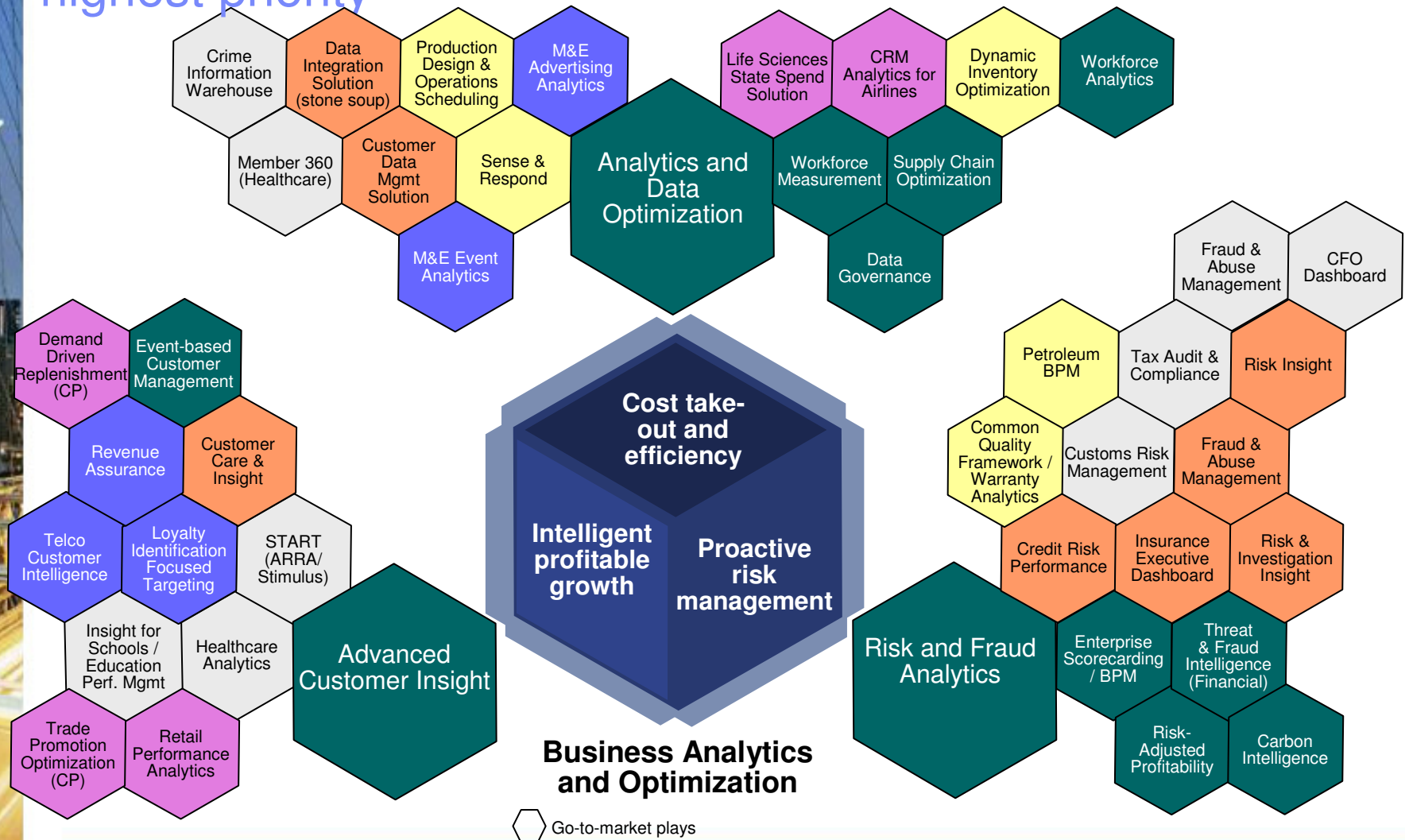
## Industry Focus

**Launch: Banking**  
**Secondary: Government**

**Advanced Customer Insight**

**Risk and Fraud Analytics**

# Extending our extensive portfolio of industry-based solutions and building additional big plays is our highest priority



# What does BAO mean for healthcare companies?

Data and Analytics  
Simplification  
and  
Optimization

Corporate Brand  
and Reputation  
Analysis

Clinical Decision  
Intelligence

  
WELLPOINT

HCA<sup>®</sup>  
Hospital Corporation of America<sup>®</sup>

UnitedHealthcare<sup>®</sup>  
A UnitedHealth Group Company

GEISINGER

Horizon 

Horizon Blue Cross Blue Shield  
of New Jersey

  
CIGNA

CMS  
The Medicare,  
Medicaid, and  
SCHIP Agency

 Aetna<sup>™</sup>

  
ESTABLISHED 1884

Memorial Sloan-Kettering  
Cancer Center

 MAYO CLINIC

  
UNC  
HOSPITALS

# What does BAO mean to shoppers, consumers & customers?

## Featured case studies

Marketing and Brand Intelligence

Customer Equity and Lifetime Management

Business Measurement and KPIs

Trade Promotion Dashboards

## Nestle Challenge

Shoppers



Consumers



How do we optimize for all three?



Customers

## Select Client List



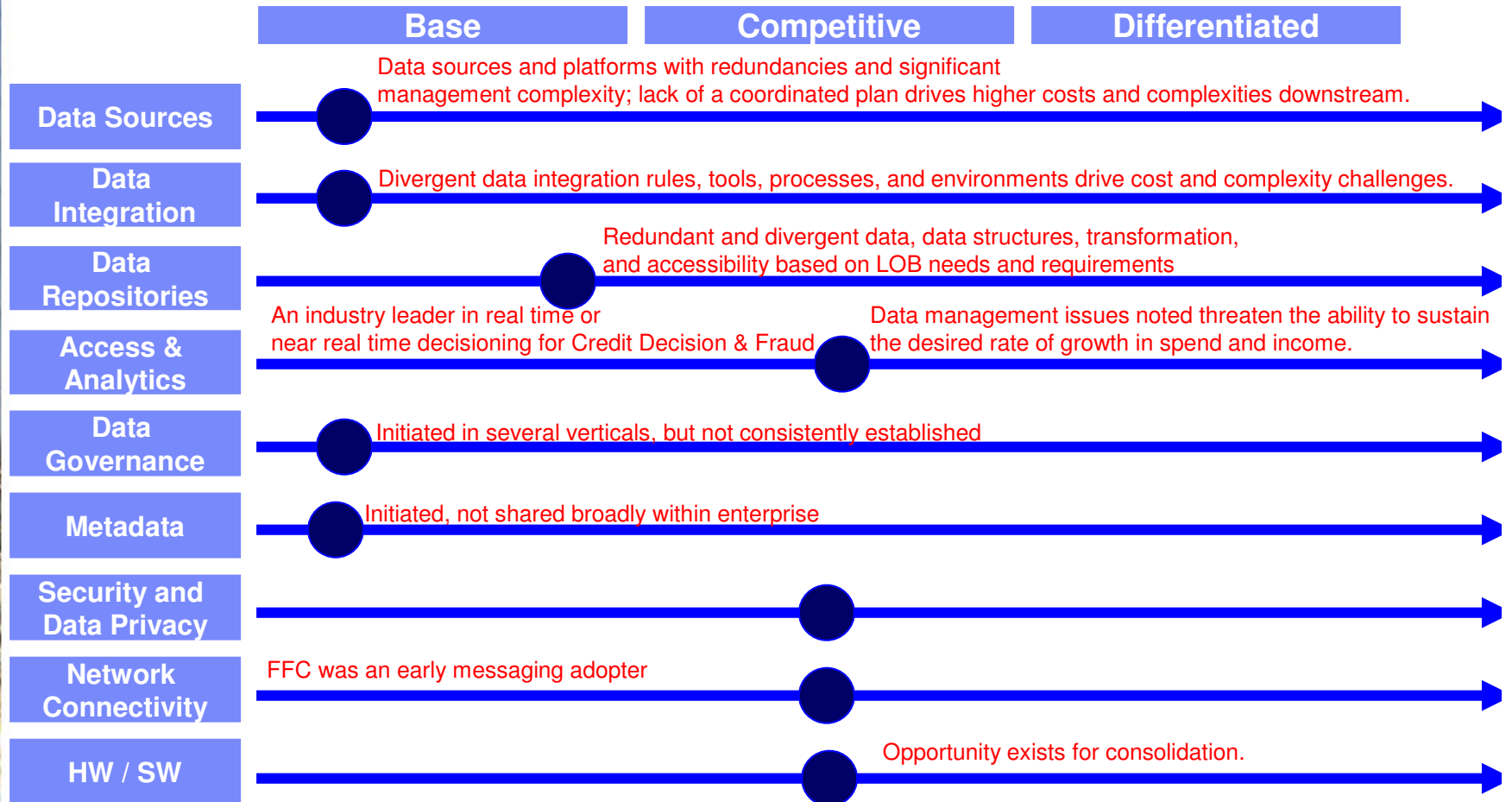
Unilever



UBS

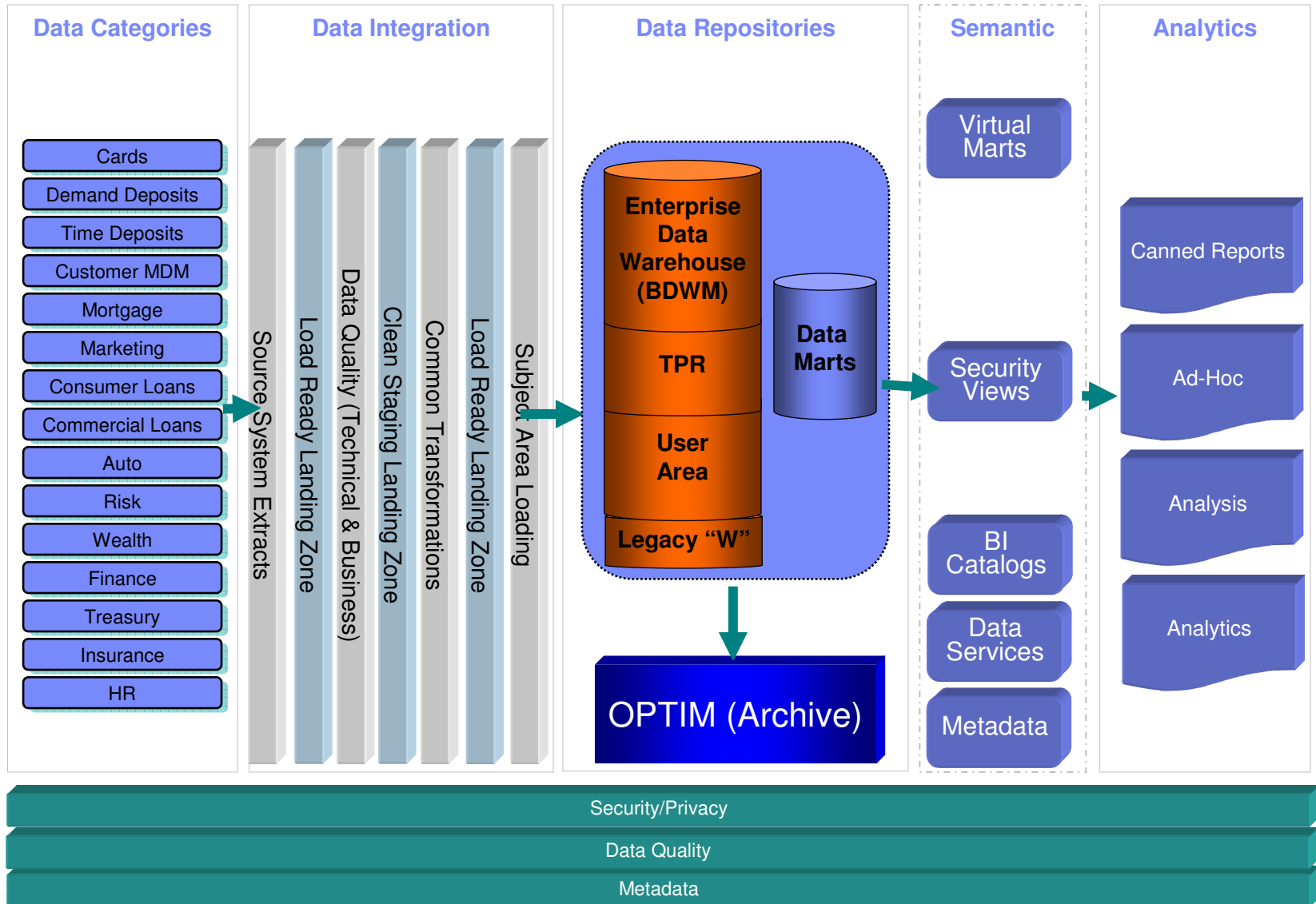


# Assessment of data infrastructure appears to be challenged to support future business strategy

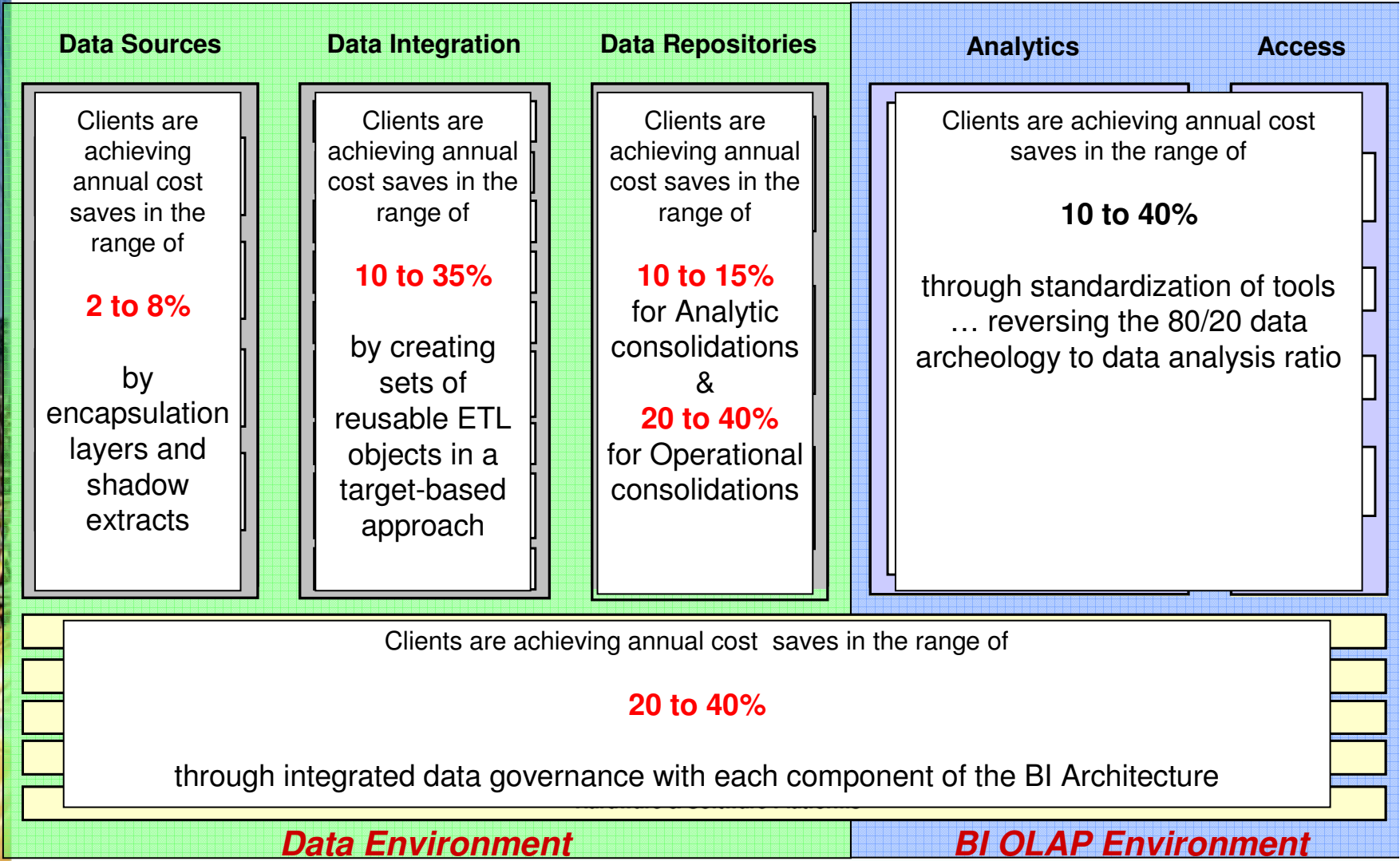


*The current state of the data environment impedes the ability to consistently transform data into information quickly and efficiently.*

# Transformation Conceptual Architecture

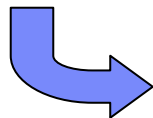
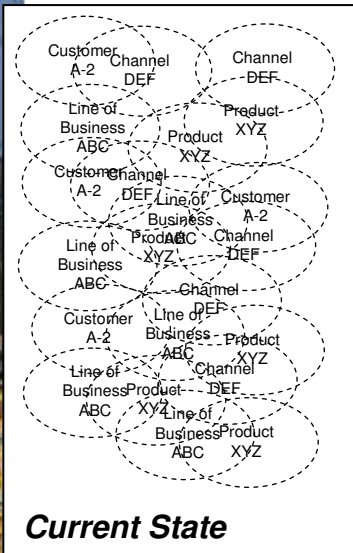
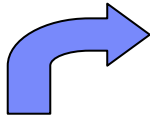


# IBM's Business Intelligence Reference Architecture and associated benefits



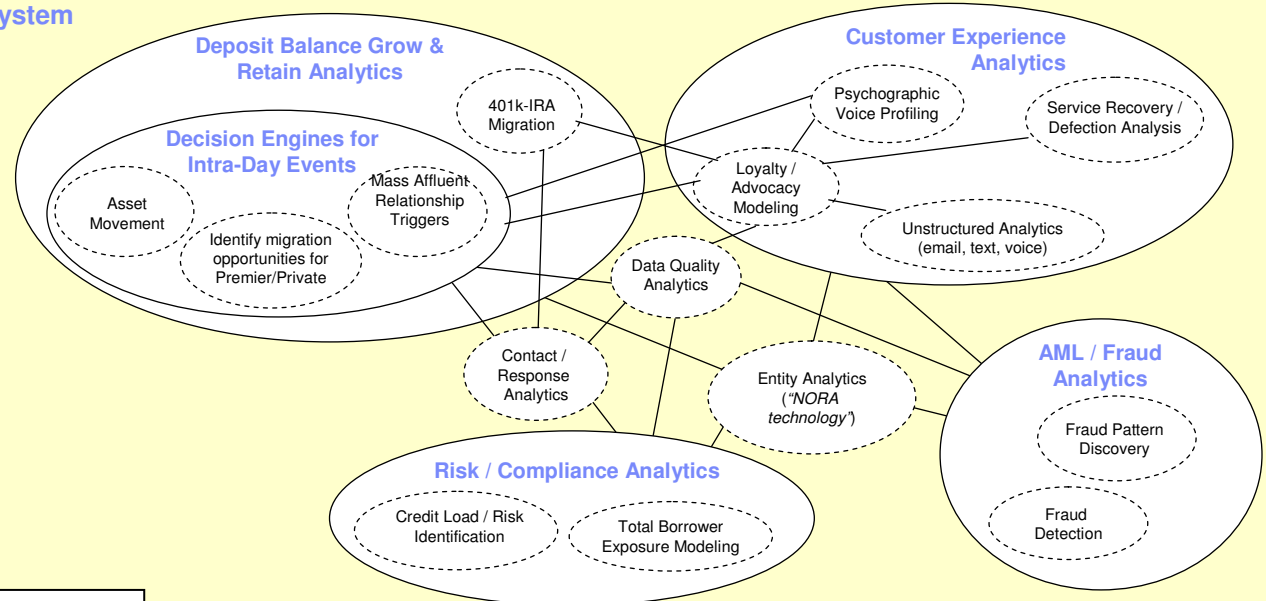
# The Future State can be described as an Analytics Ecosystem of shared information services supported by key productivity and process improvements

**Transformation Fuel**

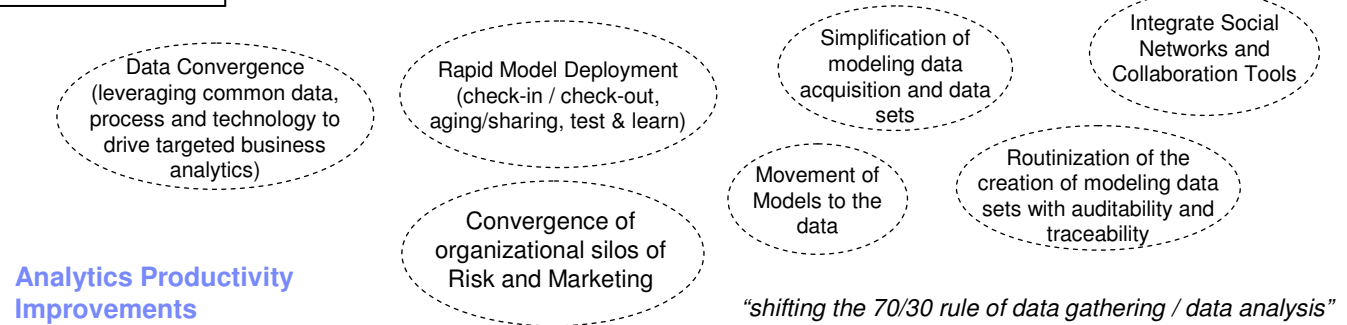


**Transformation Fuel**

## Analytics as an Ecosystem

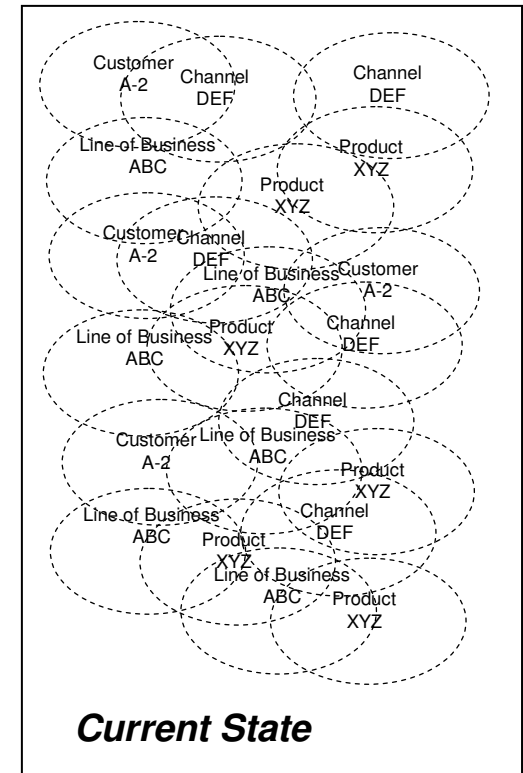


## Future State

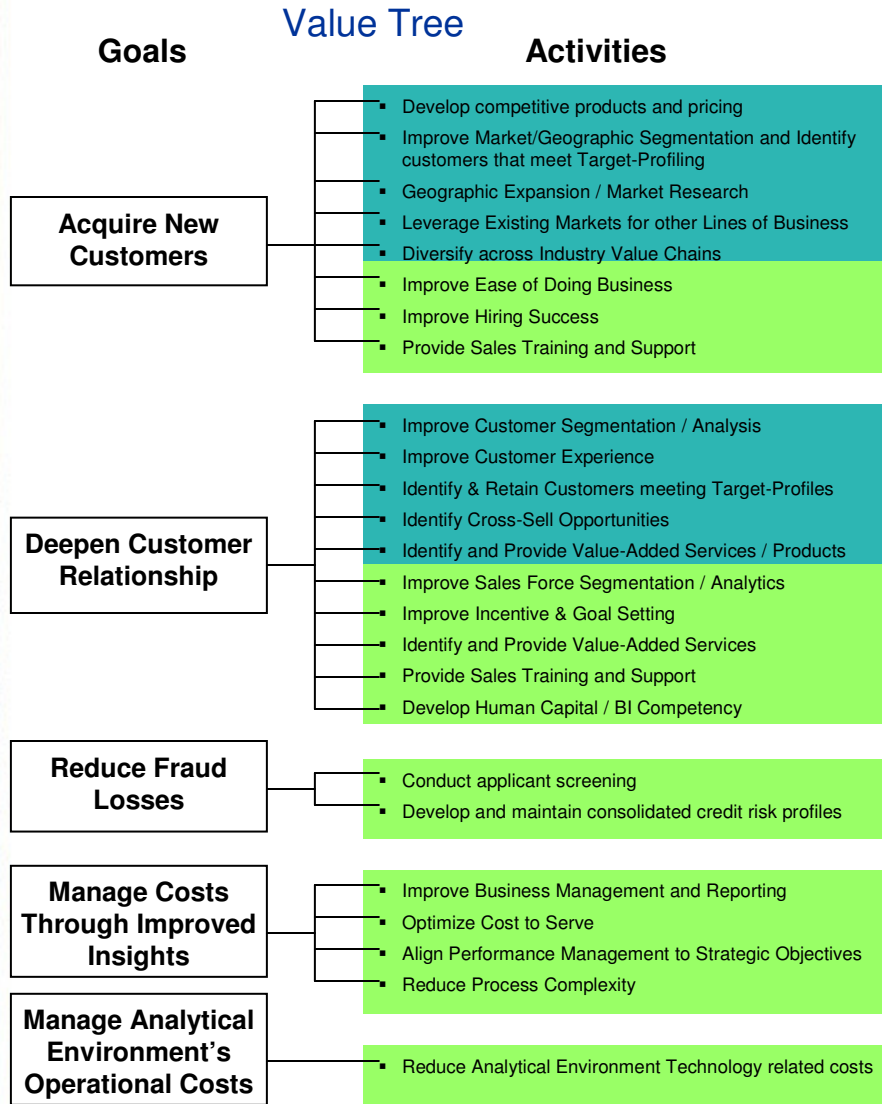


# How do we assess the current status of the information management practices across the enterprise

- **At the start of the assessment, many will not understand the full extent of data management business and technical challenges.**
- **Our analysis uncovered a number of challenges:**
  - Many data architectures – no standard
  - 10,000+ Tables
  - Conflicting and overlapping extracts
  - 25,000 ETL programs
  - Over 30 cubes for 60 Analysts
  - 70% of time gathering data
  - Poor information availability and access
  - Poor data quality
- **Current State: often a mess of un-integrated collection of highly redundant, overlapping and hard to manage LOB-centric, product-centric, channel-centric and/or customer segment-centric data**



# Drive incremental benefits by knowing the value tree



## Representative Benefits

### Improved Return on Marketing Investment (ROMI)

Improvement	Business Areas	Annual Net Benefit
25%	Customer Marketing Events Identification	\$5M to \$7M
10%	Campaign Analysis Effectiveness	\$2M to \$3M
10%	New Product Value Proposition Creation	\$5M to \$7M

### Improved Customer Treatment

Business Areas	Annual Net Benefit
Ability to decision at the Customer Level	\$4M to \$5M
Improved assessment and actioning of Borrower exposure	\$4M to \$5M
Reduced poor performing customer communications	\$4M to \$5M
Improved Customer Retention	\$2M to \$5M
Additional significant business opportunities / events	\$1M to \$1M

### Improved Productivity

Improvement	Business Areas	Annual Net Benefit
50%	Analysts time in Data Acquisition	\$0.5M to \$1M
20%	New Product Development Cycle Time	\$1.5M to \$2M
10-15	Additional significant business opportunities / events	\$5M to \$7M

**Legend:**

- Customer facing
- Business facing



# Questions?

