



13 January 2015  
Kurt Rosander & Bjørn Garmann

High performance. **Delivered.**



# Who we are

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**Kurt Rosander**

Digital Lead, Accenture Financial Services Digital and Analytics Nordics



**Bjørn Garmann**

Management Consulting Lead, Accenture Financial Services Norway



## Industry

n=1,007



BANK & insurance 301



COMMUNICATION 170



CONSUMER GOODS  
& SERVICES 120



ENERGY 130



HEALTHCARE  
PROVIDERS & PAYERS 100



RETAIL 176



## Revenue

n=1,007



\$250M-500M 76



\$500M-\$1B 231



\$1B-\$5B 335



\$5B-\$10B 185



GREATER THAN \$10B 180



## Job Title

n=1,007



COO 141



CIO 255



CMO 67



CFO 72



ANALYTICS LEAD 47



CHIEF DATA OFFICER 85



CHIEF ANALYTICS  
OFFICER 38



DIRECTOR OF ANALYTICS  
OR EQUIVALENT 65



DATA SCIENTIST 24



TECHNOLOGY DIRECTOR 126



SENIOR VICE PRESIDENT:  
DATA, ANALYTICS OR  
TECHNOLOGY 84



OTHER SVP 3

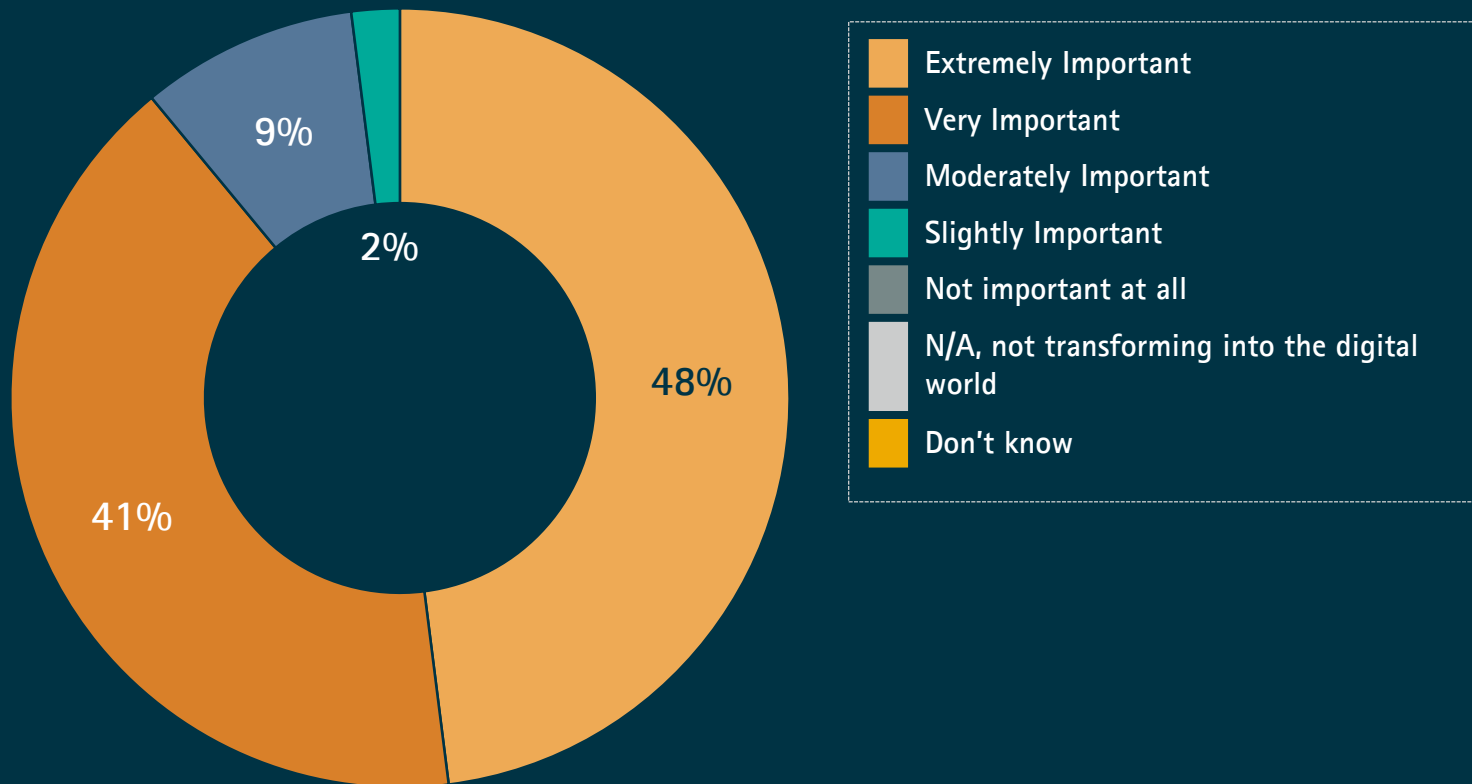
About 90 % of all companies across industries believe Big Data will revolutionize business operations in the same way the Internet did

...so what with Big Data

- Large amount of data; structured and unstructured
- Data from social networks (Twitter, Facebook)
- Advanced analytics
- Geospatial information
- Telematics
- Creating insight with visualization tools

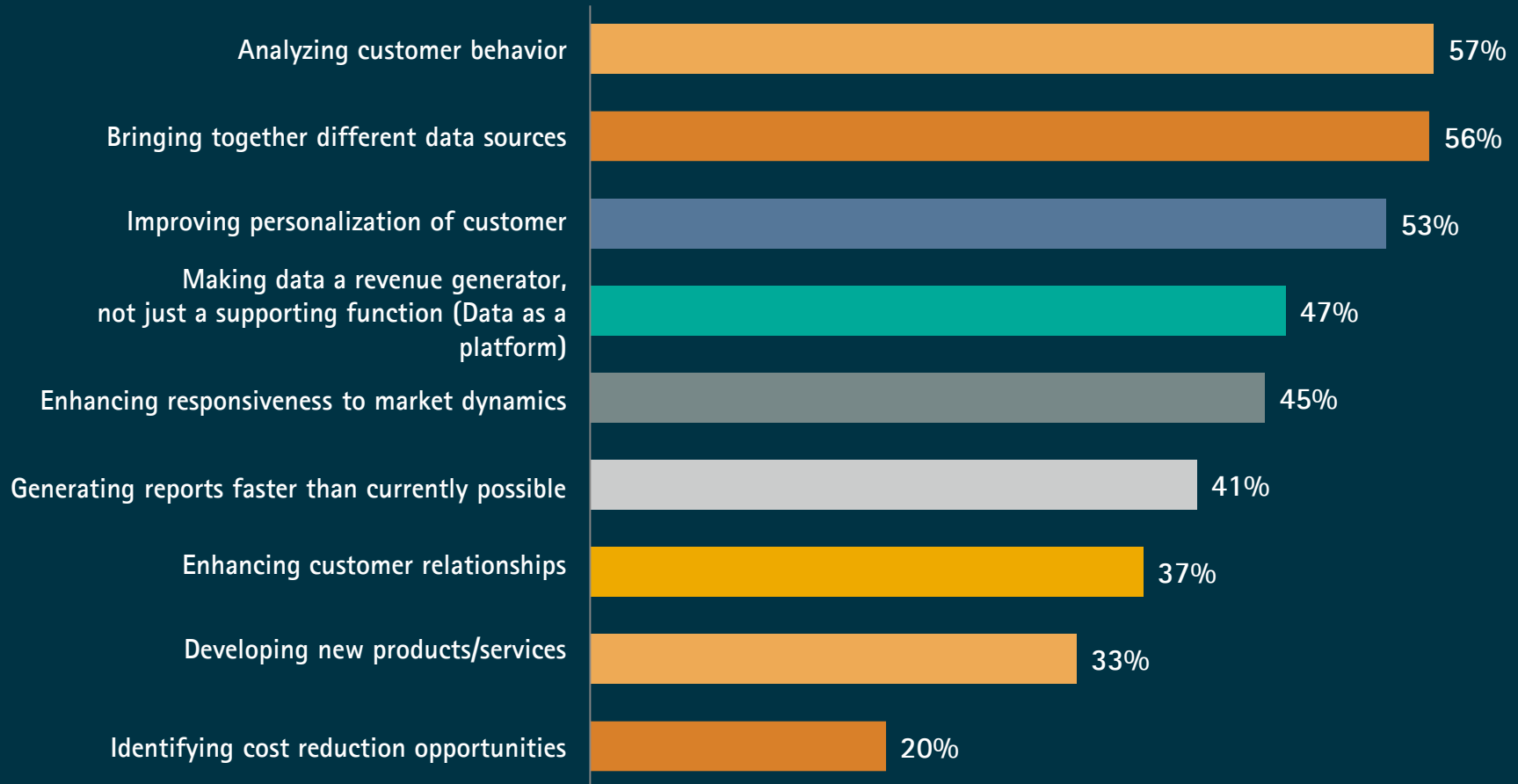
# For most companies, big data is very important to their transformation into digital

How important is big data to your company's transformation into the digital world?



## Immediate impact: Where big data is used today

Organizations use big data for analyzing customer behavior, combining data sources and improving customer personalization.



For which of the following reasons are you using big data?

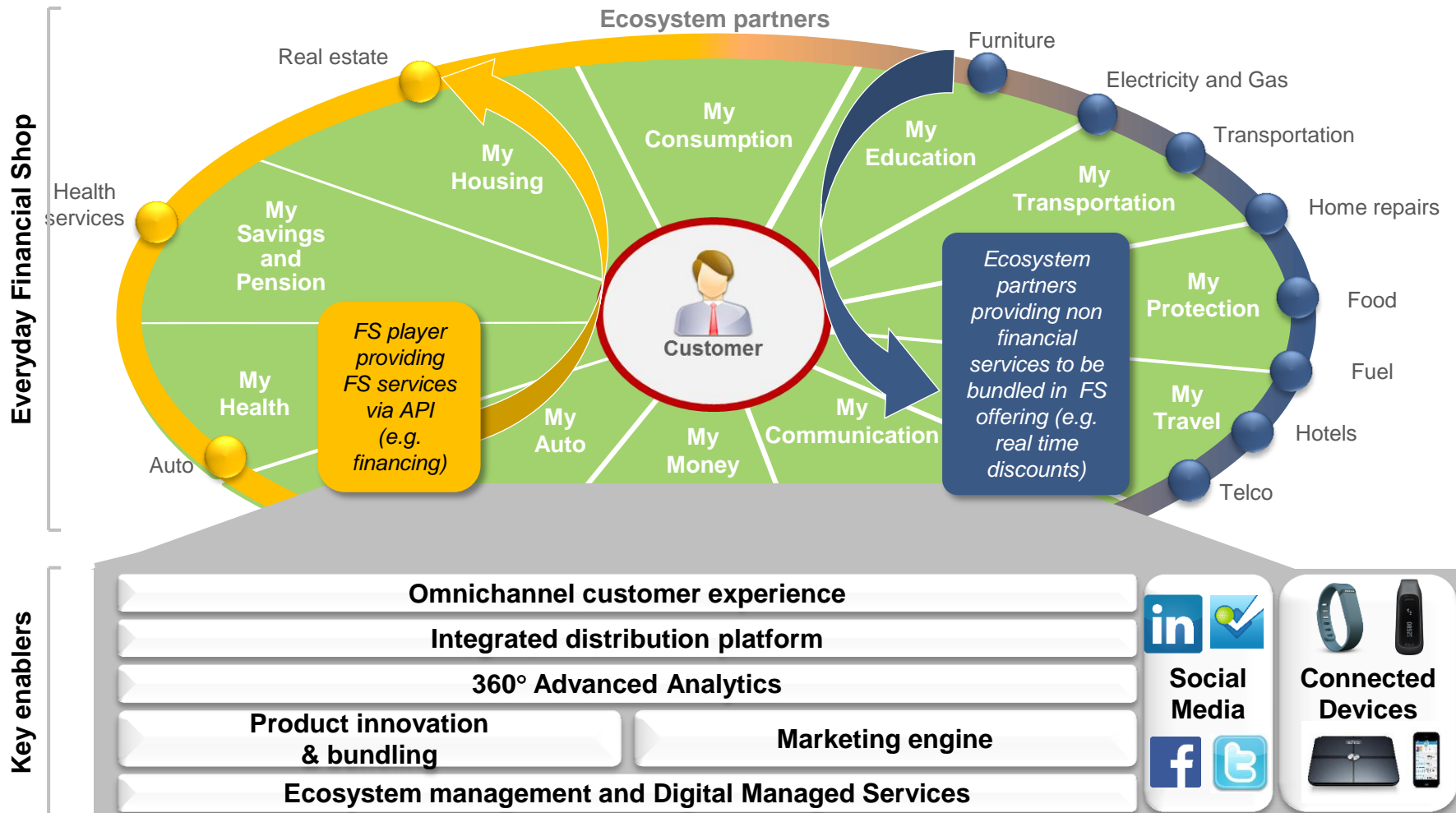
Source: Big Data, April 2014

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# Big Data is Big, but it's also fast and cheap: \$1000/TB if using a cloud solution



# An ecosystem together with Big Data will help insurers increase it's knowledge of their customers dramatically



# Insurance Companies can Benefit from Evolving Technology and Big Data

## Product Development

- Better understanding of market and customer
- New products through improved market research
- Better risk assessment and pricing

## Marketing & Sales

- Improved customer segmentation
- Cross-selling
- Churn prevention
- Campaign management

## Policy Administration

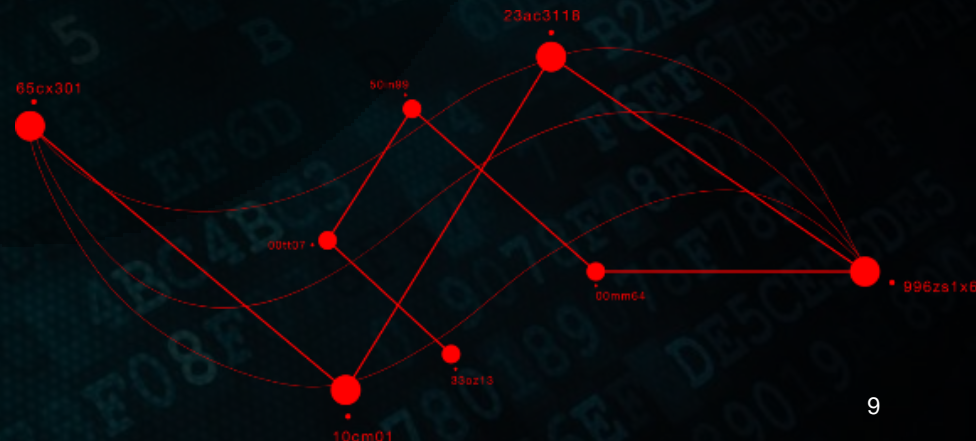
- Dynamic policy based on use
- New ecosystem partners

## Claims & Benefit Management

- Catastrophe planning
- FNOL automation
- Claims prevention and mitigation
- Fraud detection

## Asset management

- Trade pattern analysis
- Price per share prediction
- Social media monitoring



# Connected car is part of an eco-system where possibilities are endless



## Driver Behavior Monitoring

Warn driver when entering unsafe speed limit or unsafe driving behavior (e.g., falling asleep)



## Increase Awareness

Warn driver when entering accident-prone/dangerous zone (e.g. icing condition)



## Accident Inspection

Leverage GPS services to allow insurers to dispatch “assessors” to the accident scene

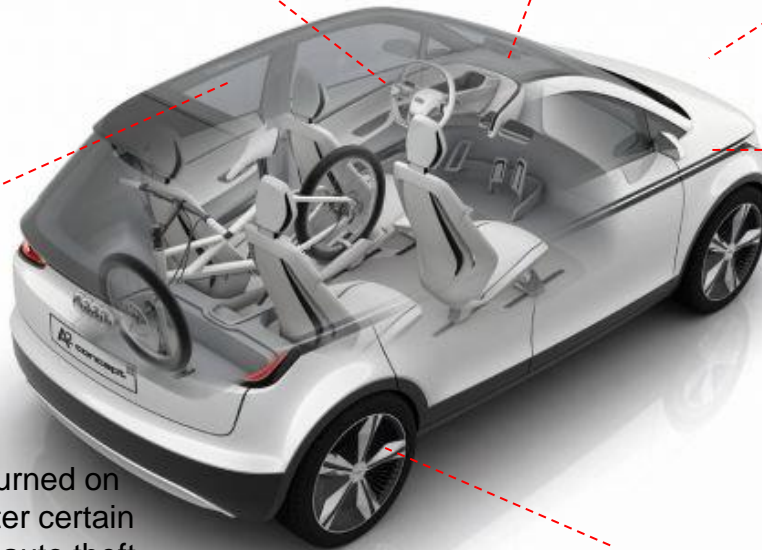
## Predictive Maintenance

Ensure key components of the car (e.g., engines, tires) are in good condition

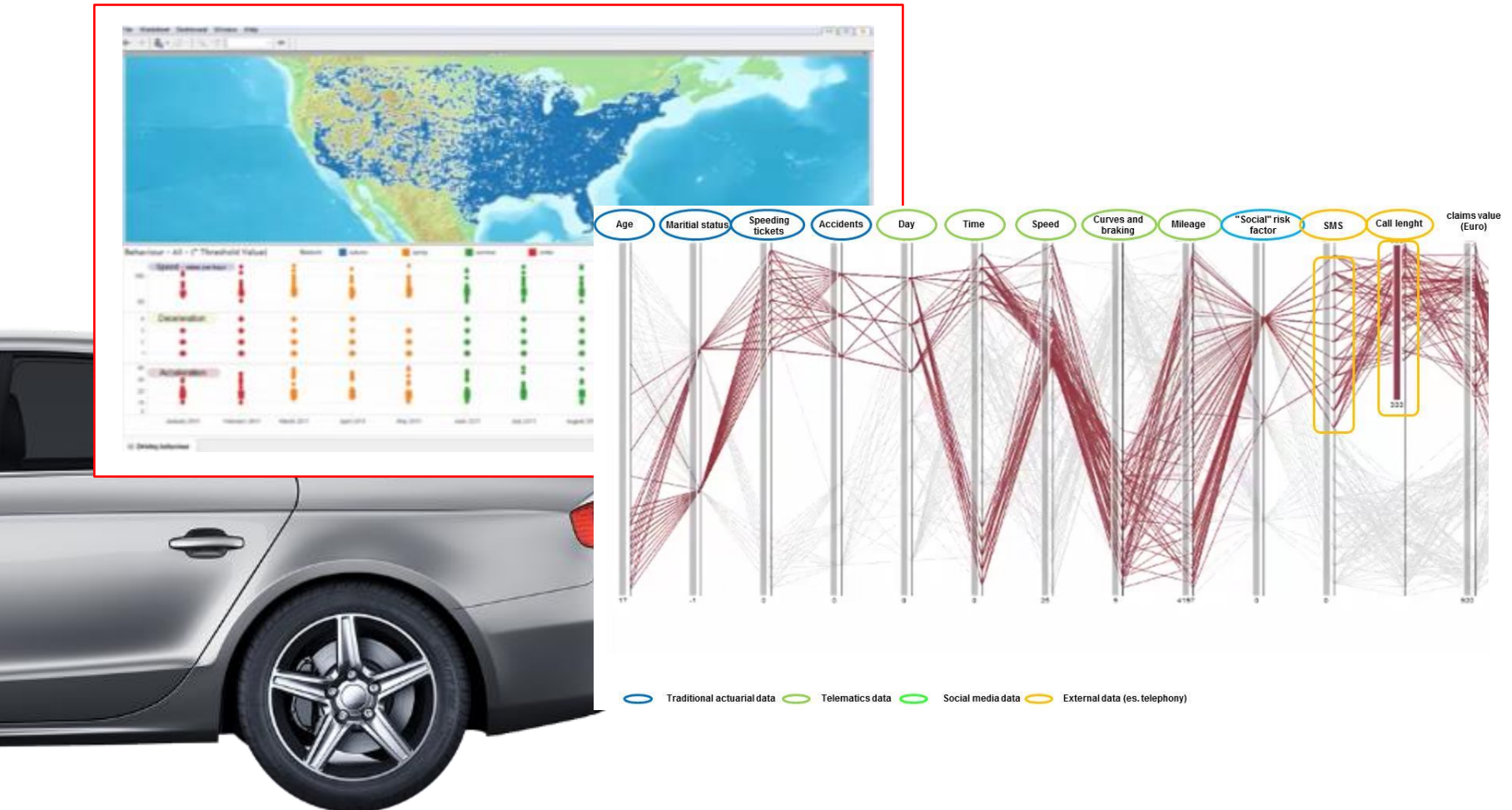


## Auto Security

Ensure security feature is turned on after a certain period (or after certain hours) and advise driver of auto theft in the nearby neighborhood



# Big Data is revolutionizing Underwriting, Risk Scoring and Cap Market predictions as it exposes all the causal and correlation patterns



# Utilizing a new set of devices brings new value adding propositions for insurers



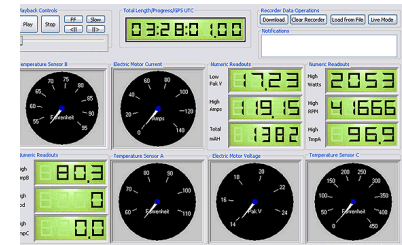
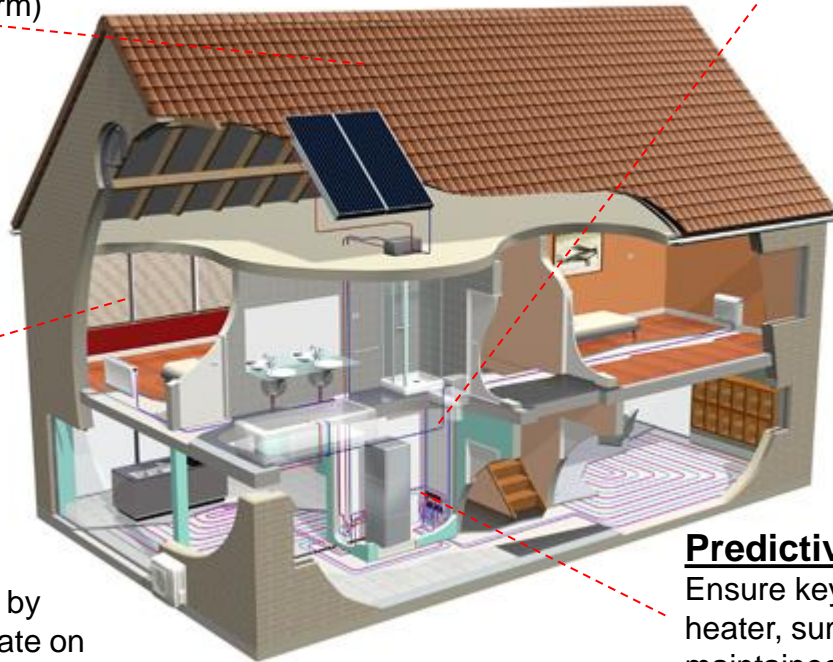
## **Automated Inspection**

As part of regular preventive maintenance of the house or after certain events (e.g., storm)



## **Home Security**

Reminds homeowner when doors/windows are not locked by certain time and provides update on any recent security/safety-related information in the neighborhood



## **Continuous Monitoring**

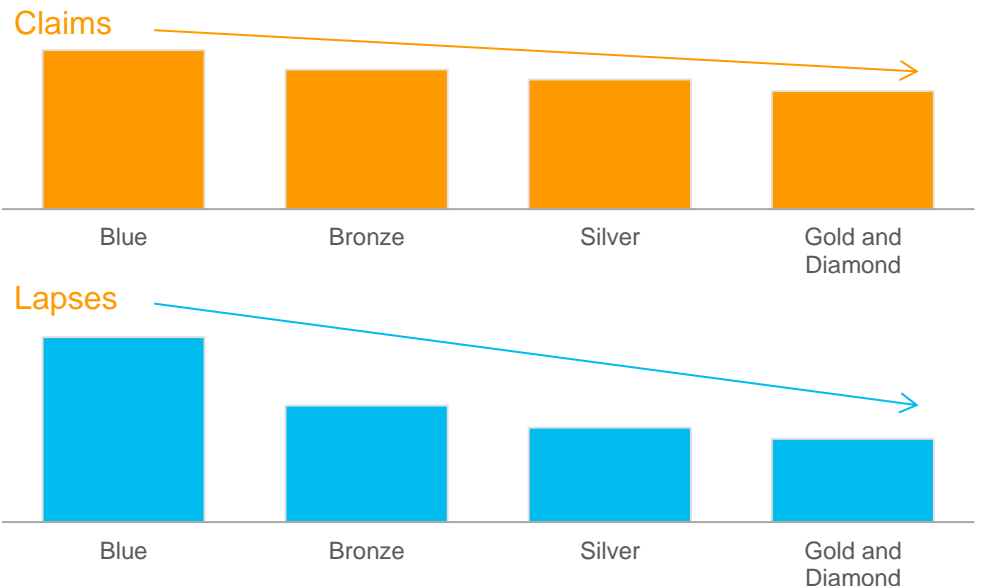
- Overall health of the house such as air and water quality, temperature, structural condition are continuously monitored
- Risky areas of the house such as basement, laundry area, kitchen are monitored closely for potential problems

## **Predictive Maintenance**

Ensure key appliances (e.g., furnace, water heater, sump pump) are in good condition and maintained properly especially given the upcoming weather condition. If necessary, a repair/maintenance person will be called for further inspection/repair.

# World-leader Discovery disrupts Life/Health insurance through Big Data and Retail Brand Communities

**Discovery promotes healthy lifestyles and returns 16% claims reduction through free fitness clubs and healthy food coupons**

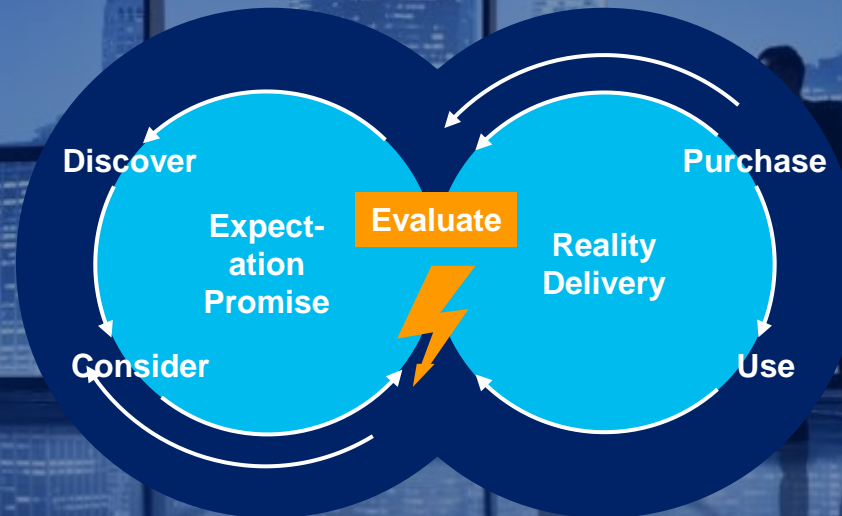


# A loyal person is someone who has not left yet

## Predict when and why they leave and turn into a competitive advantage

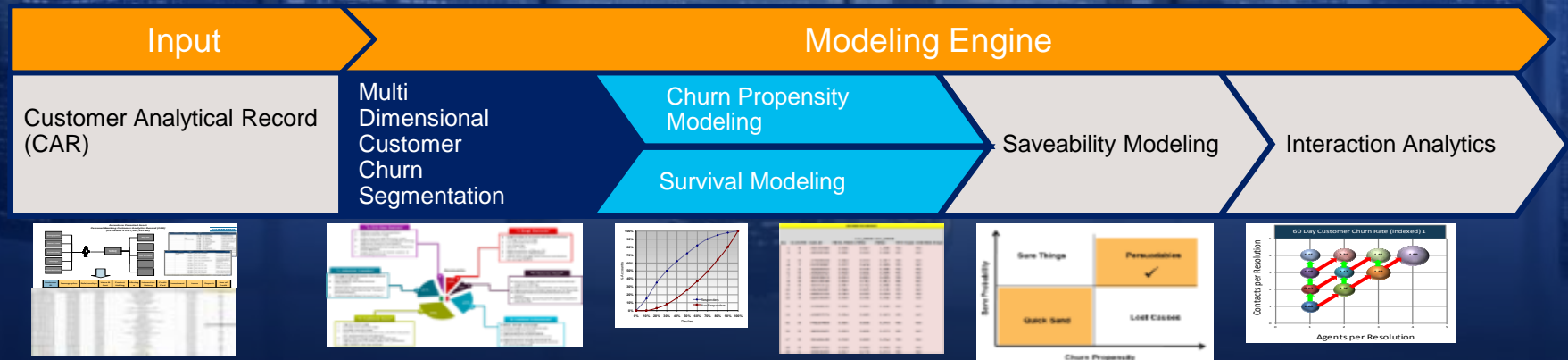
### Expectation Loop Churn Drivers

- Brand Perceptions
- Needs
- Social Influence
- Life stage



### Reality Loop

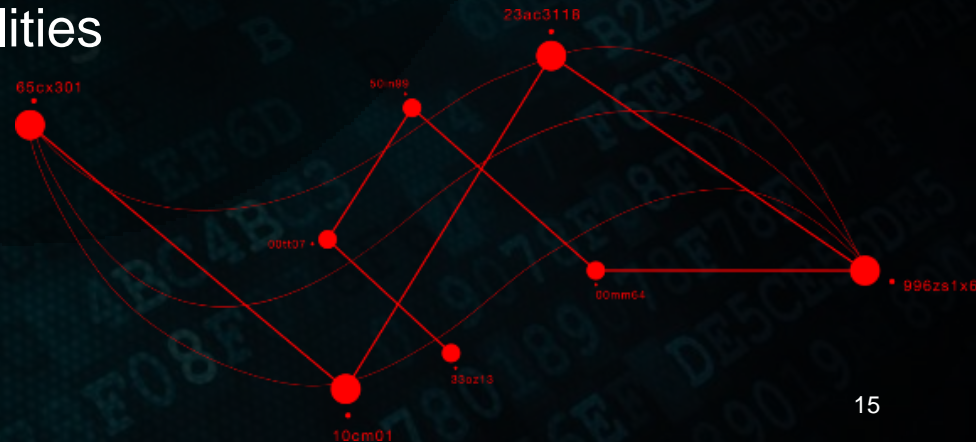
- Churn Drivers
- Usage
- Interactions
- Convenience
- Communication



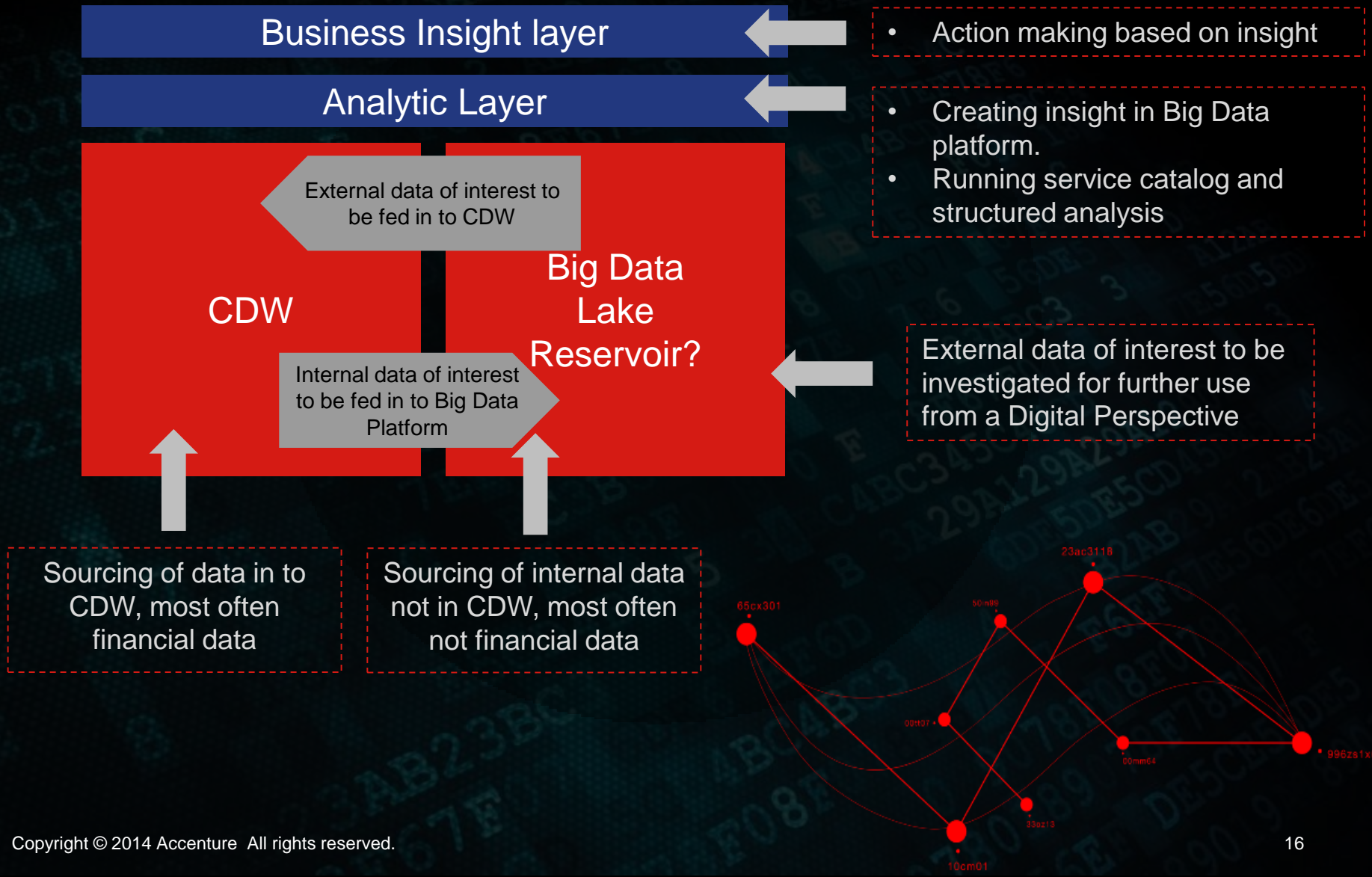
# Getting started with Big Data

Start small, scale fast – test and learn – be agile

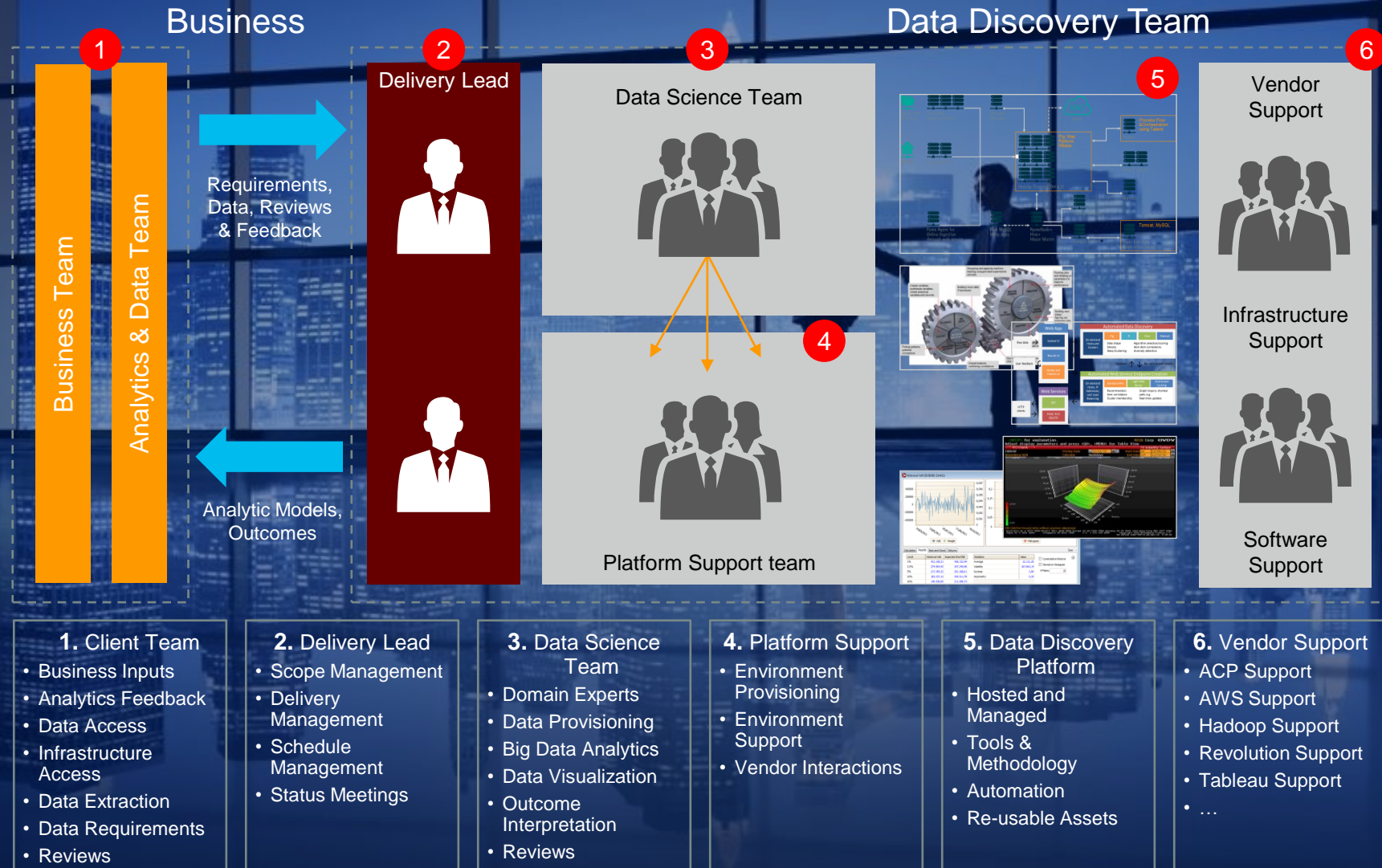
- Launch business pilots with available data and use existing cloud solutions if internal takes too long
- Expand pilots with internal and external Big Data
- In parallel develop a Digital value creation road map aligned with group strategy
- Develop Digital Factory / Big Data CoE capability on back of pilot streams
- Industrialize successful initiatives
- Build and expand real-time capabilities



# Data management considerations

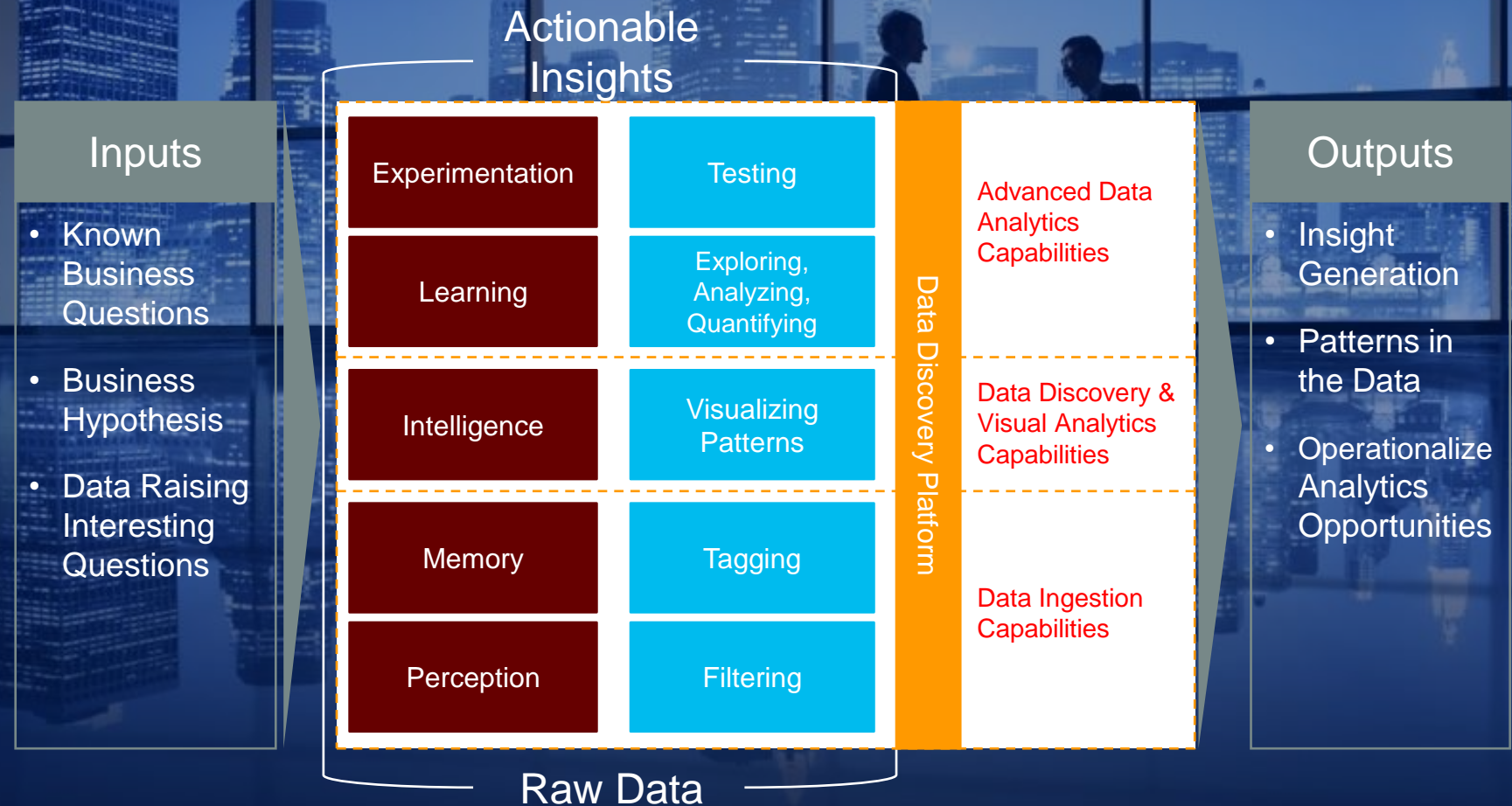


# Data Discovery Operating Model



# Example of Big Data Analytics Methodology

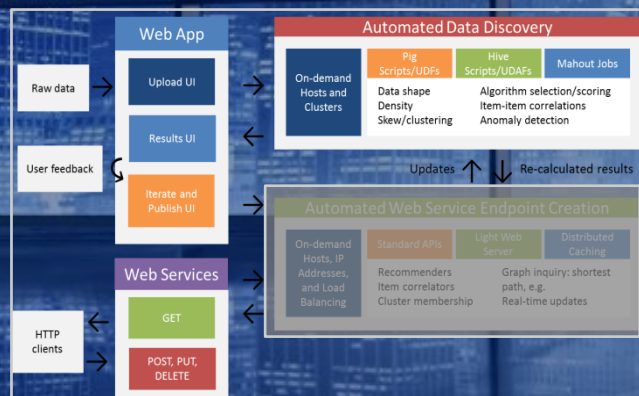
*Methodology allows for continuous data discovery platform where data from any source is rapidly mobilized to draw new insights, come to meaningful conclusions, and to innovate faster*



# Data Discovery Platform

We have developed unique assets and accelerators to help our big data analytics practitioners drive issues to outcomes in a big data world

## Data Discovery



## Asset: Accenture Automated Data Discovery Engine (ADDE)

Uses machine learning tools to automate routine data ingestion and organization tasks, making data discovery options available for less experienced users

## Data Visualization

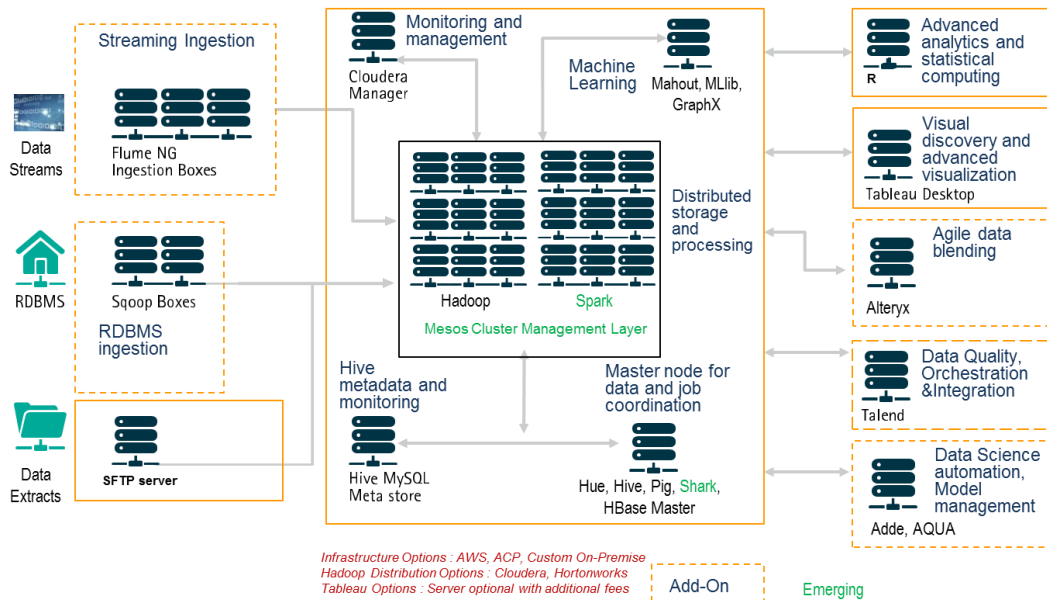


## Approach: Visual Analytics

Leverages a visual analytics approach with an interactive data interface to uncover actionable insights

# Data Discovery Platform

**Data Discovery platform has opened the market for new suppliers enabling new possibilities leveraging a variety of big data technologies and visualization tools**



- Hadoop – distributed filesystem
- Casandra – NoSQL DB
- Talend – Data quality
- Tableau Desktop – Visualization
- R – Advanced open source analytics
- And more

Note that vendors like HP, Teradata, SAS and Oracle is trying to find ways to operate

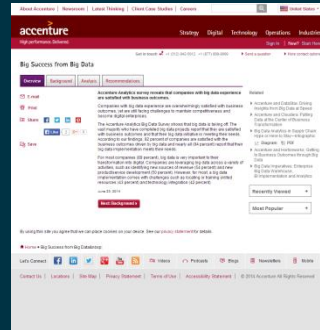
# Summarize

- **Performance and scalability**
  - ✓ Programming language close to the iron
  - ✓ Cloud if according to policy
- **Security**
  - ✓ Masterdata handling is very important
  - ✓ Recovery and replication is a must to always monitor information
- **Operations and cost**
  - ✓ Big Data platform and cost/performance ratio
  - ✓ Analytical capability
  - ✓ Still emerging and easy to go wrong, vendor landscape is changing rapidly
- **Data access**
  - Lake vs reservoir, the information sourcing can be changed.....

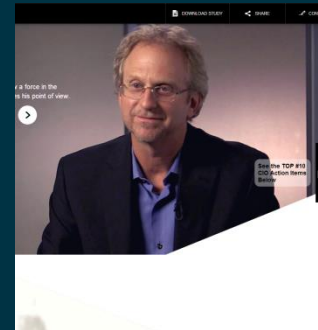
# Read more



JOURNEY TO ANALYTICS ROI



BIG SUCCESS FROM BIG DATA



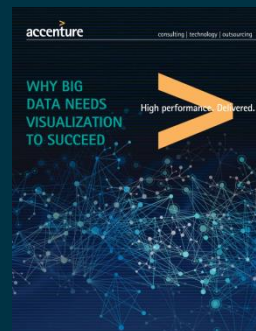
HIGH PERFORMERS IN IT:  
DEFINED BY DIGITAL



DATA ACCELERATION:  
ARCHITECTURE FOR THE MODERN  
DATA SUPPLY CHAIN



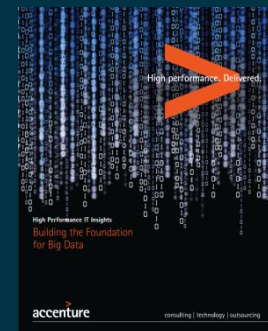
DATA MONETIZATION IN  
THE AGE OF BIG DATA



WHY BIG DATA NEEDS  
VISUALIZATION TO SUCCEED



EVERY BUSINESS IS A DIGITAL  
BUSINESS: FROM DIGITALLY  
DISRUPTED TO DIGITAL DISRUPTERS



BIG DATA @ ACCENTURE