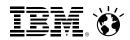


Jan 2014

# **Big Data Solution Strategy: Gain Insight; Make Decisions**





### What is BIG Data





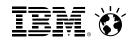




#### **BIG Data Problem**

High Volume High Velocity, **High Variety** assets that require **new** forms of processing or **Analytics** to enable enhanced decision making, insight discovery and process optimization





### Why Analytics for Big Data is Needed

#### **All information**

All information
Transaction data
Application data
Machine data
Social data
Enterprise content

#### All people

All departments
Experts and non-experts
Executives and employees
Partners and customers



#### All perspectives

Past (historical, aggregated)
Present (real-time)
Future (predictive)

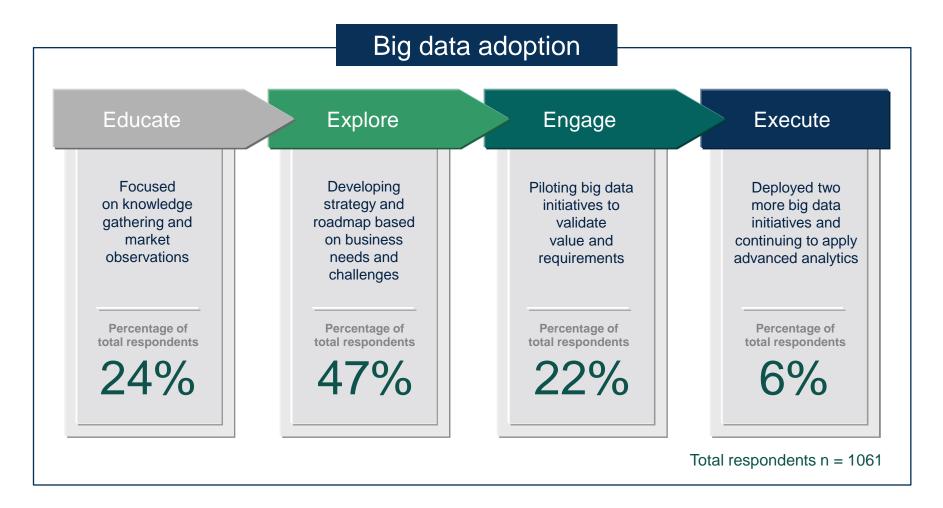
#### All decisions

Major and minor Strategic and tactical Routine and exceptions Manual and automated

65% of business are not using big data for business advantage

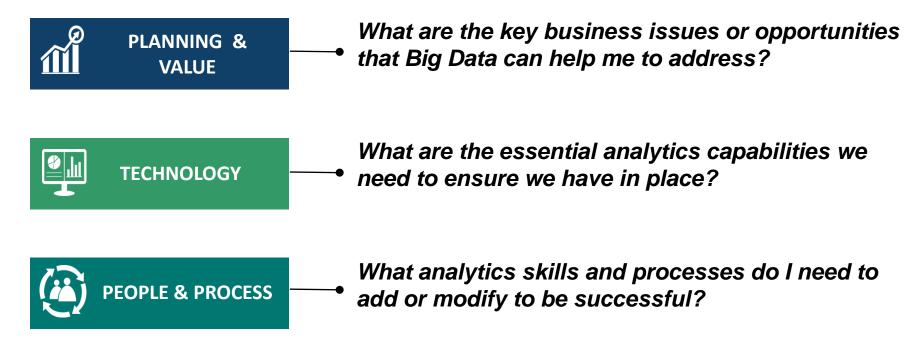


# Organizations moving from the possible to the proven are gaining first mover advantage...





### How Organizations are Evolving their Analytics Strategy







# It is Imperative to Develop a Plan that Identifies where Big Data and Analytics can Add Business Value



360° view of the customer

Social media sentiment analysis

Reduce customer churn



Surveillance and intelligence
Threat and fraud reduction
Predictive maintenance





Predictive forecasting & budgeting Profitability modeling

Risk



Increase returns and optimize use of capital Reduce cost of regulatory compliance





# ...and ensure the initiatives align with key industry imperatives for the organization

#### **Banking**

£€ \$¥

Optimize profitability and cross-sell

#### **Telecommunications**



Network analytics

#### Manufacturing



Predictive Maintenance

#### Healthcare



Understand patients and populations

#### Retail



Deliver personalized customer engagement

#### Government



Anti-fraud, waste, and abuse

#### Insurance



Claims fraud

#### **Energy and Utilities**



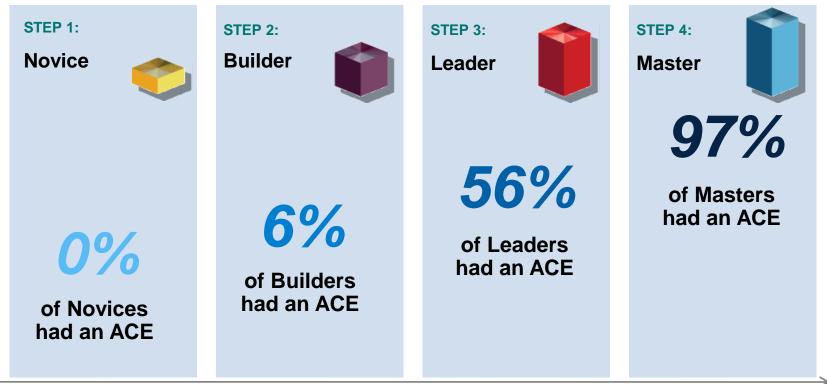
Predict and manage demand





### IBM provides Guidance and Resources as you Develop your Roadmap and Establish your ACE

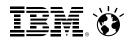
#### Strong linkage between analytics maturity and Analytics Centers of Excellence (ACE)



Manual, slow, error prone, cumbersome, fragmented data quality concerns

n = 5748 organizations
IBM Study of AQ respondents, 2012

Automated, instant, accurate, seamless, converged Data governance is in place





### **Analytics Capabilities Expand for Big Data**

#### From

Assemble & Combine relevant mix of information

**Discover & Explore** with smarter visualizations

Analyze, Predict & Automate for more accurate answers

- Reconcile sources together
- Query relational warehouses
- Individual transaction records
- Graphs and reports
- Hierarchical navigation
- Managed and adhoc delivery
- Manual analysis and action
- Sample based models
- Data analyzed at rest
- Humans interpret patterns

#### To

- Surface data directly from source
- Query specialized systems
- Data relationships and networks
- Visualize masses of data
- Context and relationship navigation
- Exploration of what's important
- Automated visualization
- More accurate models
- Analyze stream data in motion
- Algorithms uncover hidden patterns





### Fuel all Decision-Making with Powerful Analytics











Natural language processing

Entity and predictive analytics

Social network analytics

Content and text analytics

Trend, pattern and temporal deviation

Find what is relevant



Specialized visualizations

Result Sets

Real-time Scoring

Decision Management

Inform and automate



Reporting & Analysis



Operational Systems



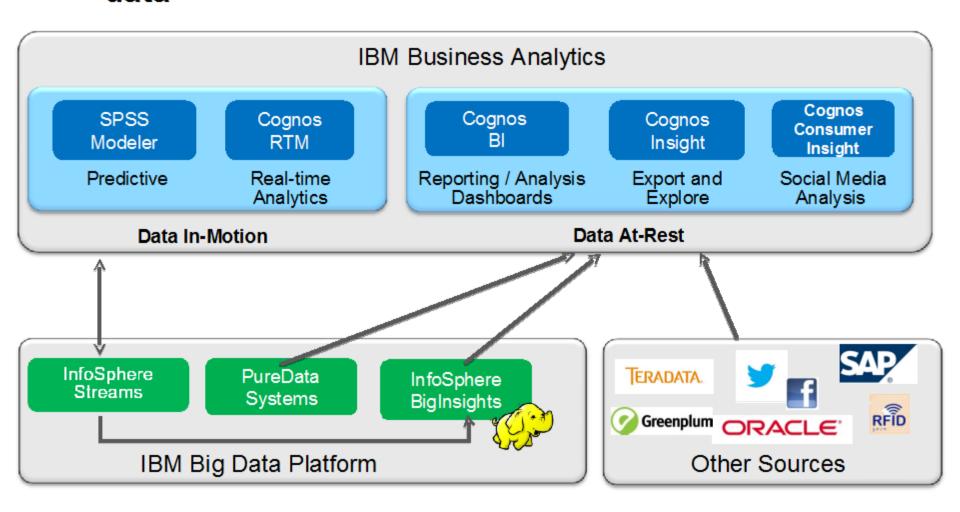
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**TECHNOLOGY** 

## Example: Integrate big data sources with enterprise data







### **Accelerate Business Value with Solutions**

**Analytic Skills** 

Big Data Use Cases

**Products** 

Research

Marketplace Experience

#### Social

Social Media Analytics

**Fraud** 

anti-fraud, waste, and abuse

Asset

predictive asset optimization

Customer

next best action























Life Sciences



IBM Provides a Holistic and Integrated Approach to Big Data and Analytics



- Fuel all decision-making with powerful analytics
- Broaden analytic adoption without silos
- Analyze all data wherever it lives
- Accelerate business value with solutions that have built-in analytics expertise

**Analytics innovation that matters** 

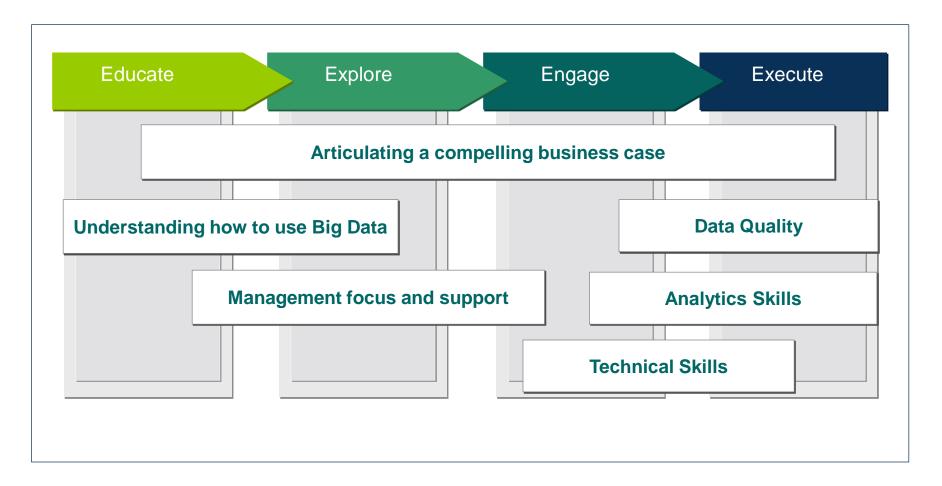
**Deep business expertise** 

Trusted analytics advisor with a proven track record for delivering value





# **Skills and Processes also Need to Evolve as Organizations Move through the Adoption Stages**

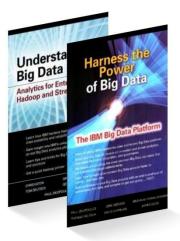






# IBM Offers Support to Help you Achieve Success with your Big Data and Analytics Initiatives





Accessing expertise and education Analytics and Big Data at IBM AnalyticsZone.com, Big Data University

Closing the skills gap
Partnering with 200+ Universities

**Training and collaboration IBM Analytics Solution Centers** 

**Enabling the Business Partner community Certifications and practice accelerators** 

Leveraging the power of IBM Research IBM Customer Experience Lab



#### **Get Started!**









# Thank You

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