### **IBM Cognitive Solutions**

## **Bank to the Future**

Vivek Bajaj Vice President, Global Banking & Financial Markets

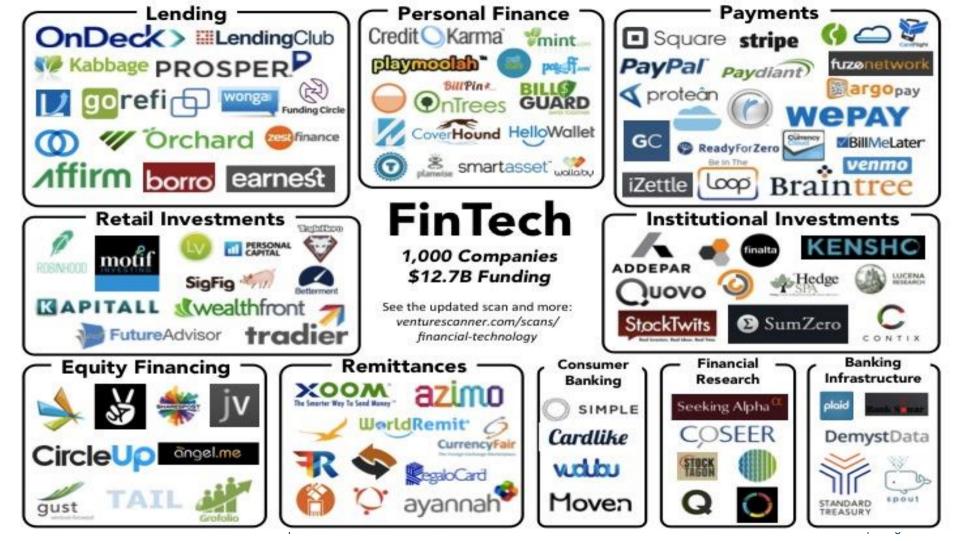


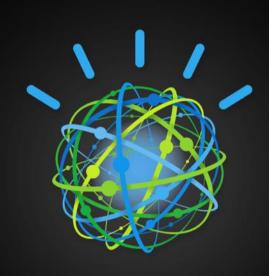


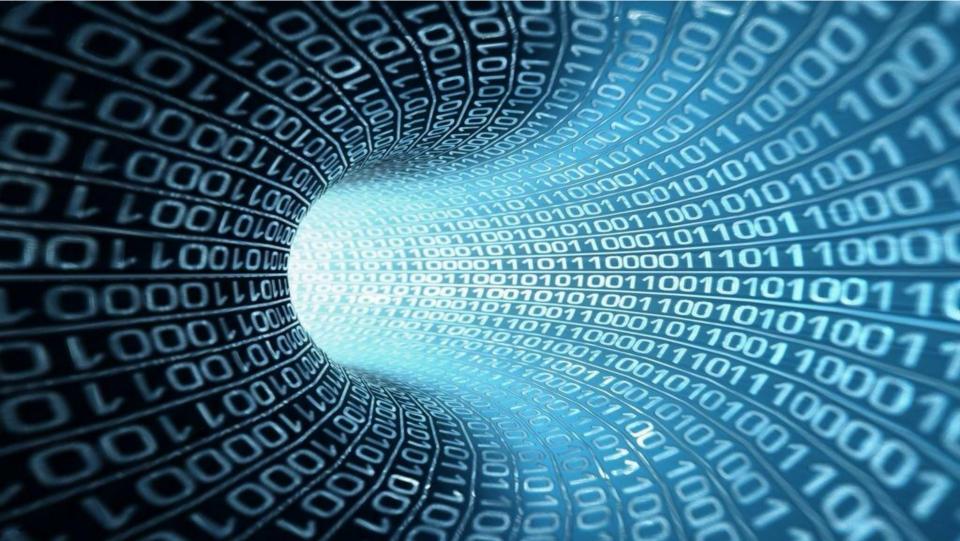


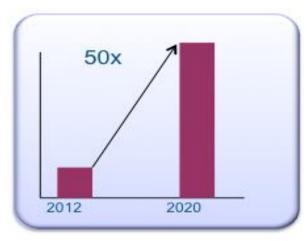
# It's not personal It's just business





























# CONTEXT IS KING

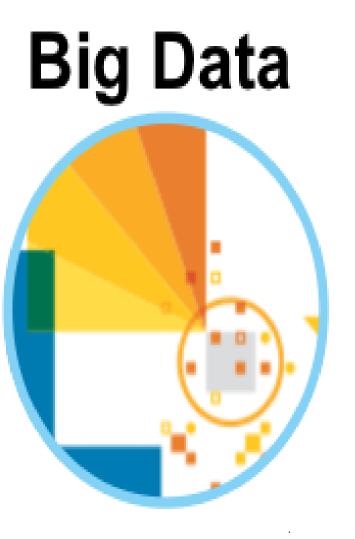
Are people who spend a lot after 9pm MORE LIKELY to overdraft?



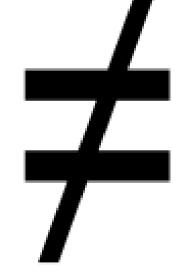








# Hadoop





#### Sentiment

#### Communications

#### Transactions

#### Master Data



### What is Cognitive?

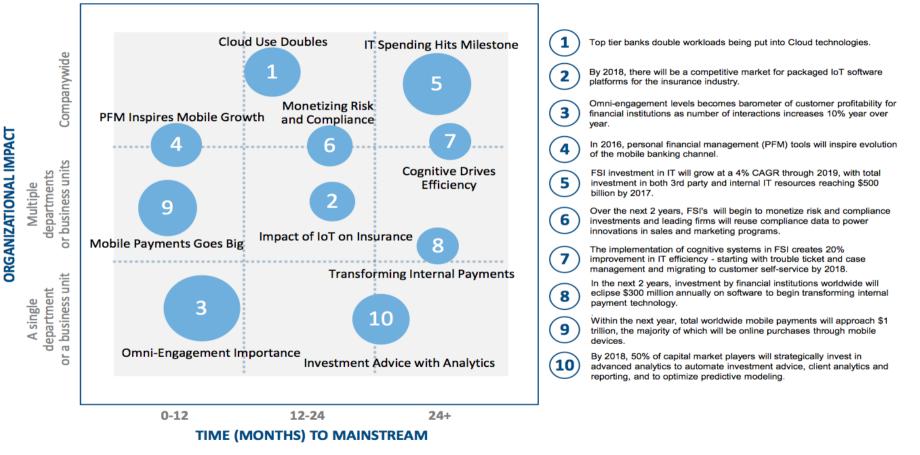
Cognitive understand, reason, learn

Predictive predict, decide, act

Descriptive discover, report, analyze

TDM.

# IDC Financial Insights: Top 10 Global Predictions



Note: The size of the bubble indicates complexity/cost to address. Source: IDC Financial Insights, 2015



#### **Cognitive Solutions for Call Center Agents**

Empower agents to better respond to requests and improve call conversion rates



The call center agent dashboard delivers a comprehensive, real-time view of the client with the ability for an agent to ask questions or gain deep insights around clients including personality and preferences

#### Value Add

- Aggregate relevant customer information in real-time
- Personalize the client experience with deep insights into preferences and interaction history
- Deliver consistent and accurate answers to agent questions
- Efficiently scale expertise to novice agents

#### One of the world's largest banks employ cognitive to help mass market customers at call centers select higher value investments





#### NEED

One of the world's largest banks wanted to help its call center mass market customers decide to invest in higher value assets instead of retaining cash deposits Bank implements cognitive at its call center as many mass market customers do not understand what alternative investment options they have other than cash

deposits.

SOLUTION

#### BENEFIT

Cognitive provides customers with answers to their questions about investments and dialogues with customers to reassure them about their investment options

Source: IBM case study



#### **Cognitive Virtual Agent**

Provide the expertise of an agent in a user-friendly application



#### A Virtual Agent digitally engages clients in intelligent conversations about complex topics personalized for every client

#### Value Add

- Deliver accurate, evidencebased information
- Cross- and up-sell seamlessly
- Decrease call center volume
- Save call center training costs

# Banks will provide better financial advice more widely through cognitive, with limited human intervention (robo-advisors)



Allan, 28 year old, recently joined a technology company on an average income



**Cognitive solution** 



Tom, branch manager of retail bank XYZ, has dealt with thousands of banking customers over the years

Allan wants his bank to understand his financial needs at his time in life

Millennial such as Allan can service himself and digitally engage by having meaningful dialogue about their financial needs with cognitive system-based virtual relationship managers (automatic-advisors) Cognitive expert system can enable bankers to understand retail customer's financial needs and answer customer queries in natural language

Tom wants to provide a seamless omni-channel and personalized experience to all customer segments

Tom can use **cognitive** to **draw insights** about his customers from internal and external structured and unstructured data to provide a seamless experience



#### **Case Study - DBS**

A transformative Watson engagement has enabled DBS relationship managers to efficiently deliver personalized, consistent and fact-based investment advice

Challenges	Solution	
<ol> <li>Overwhelming amounts of data for RMs</li> <li>Increasingly informed and digitally- enabled clients</li> <li>Expectations of personalized product recommendations</li> </ol>	<ul> <li>Watson (with a suite of integrated IBM technologies):</li> <li>1. Analyzes large volumes of structured and unstructured data</li> <li>2. Delivers personalized market and client insights to advisors</li> <li>3. Dynamically engages relationship managers through natural language dialogue</li> </ul>	

#### Outcomes



25% productivity uplift for DBS relationship

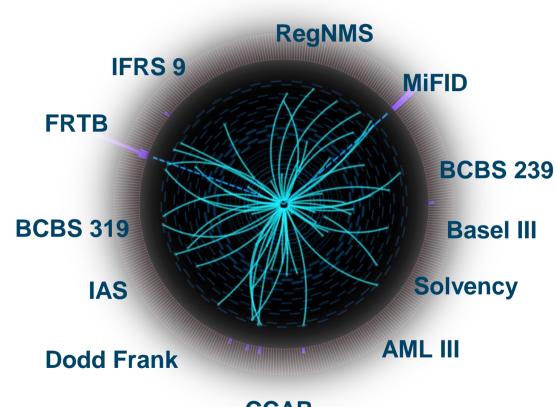


**Consistent level of service** across advisors, channels, and geographies



Powerful and easy to use consumer experience tool

#### **Cumulative Effective of Regulations on Cost Structures**



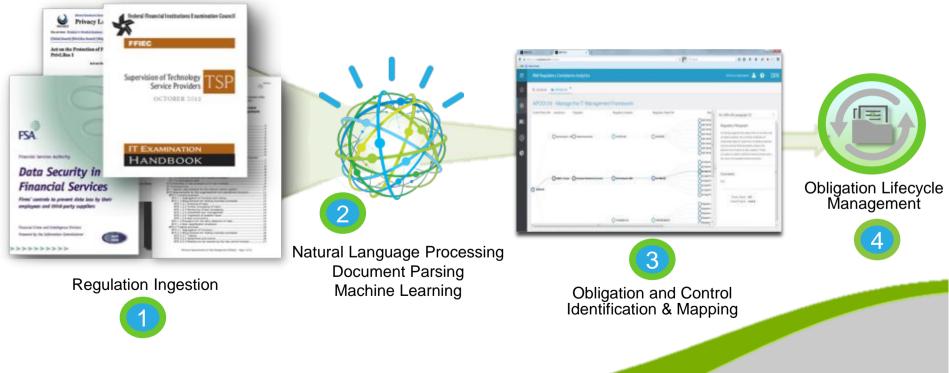
Citigroup has hired about **10,000** people in regulatory and compliance-related roles, even though its overall employment number has fallen about 20,000 over the past two years...

Wall Street Journal

**Top 50 Banks** have an estimated 5,000 to 15,000 employees focused on managing regulatory change and compliance.

#### **Regulatory Compliance empowered by Cognitive Computing**

Helps compliance specialists streamline the identification of potential obligations and controls required to address constantly changing regulations and manage the lifecycle of implementing those controls

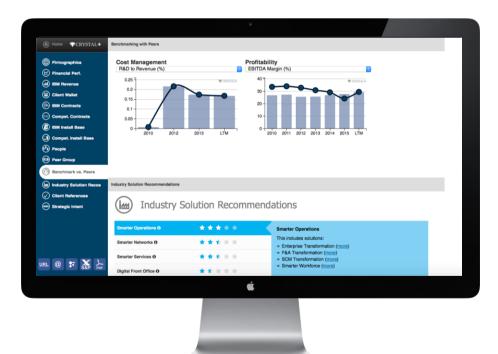


#### **IBM Cognitive Solutions**

# Cognitive computing to explore internal and external information to provide a comprehensive view of companies

**MVP** 

- Comprehensive insights from internal & external sources
- Entity recognition analysis
- Solution recommendations
- Benchmarking and financial performance
- Real-time news
   classification and monitoring



# A large European bank uses cognitive to gain insights into institutional client behavior to predict future transactions





#### NEED

Bank wanted to invest in a technological capability that would provide a competitive edge

Bank identified business functions to apply cognitive, such as sales, trading, and risk management. Insights were sought on competitor and institutional client behavior, trading patterns and external data

SOLUTION

#### BENEFIT

Fund managers have better understanding of market sentiment real time and are better able to time their transactions in the financial markets

Source: IBM case study

**Getting Started** 

