# Global Decision Management Citigroup

June, 2017



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# Data and Computing power are growing exponentially ...

## We are experiencing a data explosion

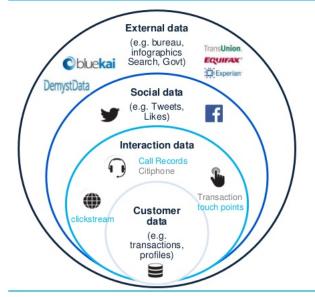
- Volume, Velocity and Variety

#### 2.5 Exabyte

90%

of data is being created in the world every day \*

of the data today has been created in the last 2 years\*



## Along with advancements in computing

Faster, Adaptive and Smarter

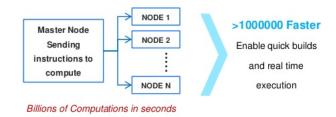
## 50% decrease Hadoop

In computing cost, every 18 months

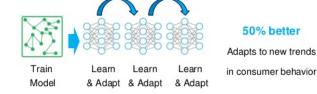
reduces execution time

Adapt
to changes in data,
automate learning

### Faster results with distributed computing



## Learn Continuously with smarter algorithms



# That is changing business models and client expectations ...

## Analytics has evolved over this period

has changed client interactions & expectations

# Innovation Driver

- · Thought Leadership
- · Context/Content
- Digitize

## Value Delivery

- · Increase Revenue
- Drive Efficiency
- · Optimize Decisions

## **Insight Provider**

- · Share insights
- · Standardization & Centralize
- · Economies of Scale



Change in customer expectations demands

New Business Models and Sales strategies

### Trigger Real Time Offers based on Location



Who: Macy's, Target, Walmart

Trigger real time offers based on
location tracking through the store app

#### Social Media Offers on Favourite Brands



Who: Amex, Charles Schwab

Offers on favourite brands redeemable
on the Amex site / social media page

## One Click Commerce through Card Linkage



 $\label{eq:Who:FB} \mbox{Who:FB, Twitter, Pinterest}$ 

Buy buttons on Posts and one click experience through cards linked to the social media account

# Artificial Intelligence will keep replacing manual work ...

# In organizations across industries...











Provides customer service without call centers

Recommends products without sales executives

Authorization without passwords

Driving cars without drivers

Identifies you in a picture without your input

## Al / Machine Learning are replacing key functions ...



Geo location based Contextual servicing through the app



Machine Learning Based Recommender Systems



Biometrics and Voice Recognition



Artificial Intelligence



Image Recognition

AI

# We need to change ourselves to make it successful ...

# Building blocks for Big Data Capabilities ...



360° real time customer data availability in Data Platform with seamless Frontend integration



- ✓ Fully Integrated Machine learning Hadoop stack
- √ Automated modeling
- ✓ End user visualization

Tools & Platforms



- ✓ Layered Structure Develop, Deliver, Consult
- ✓ Industry expertise
- ✓ SME Digital, Text, Social Media, Research





- ✓ Solution in a Box –
  faster time to market
- √ Standard processes
- ✓ Business Sponsorship & leadership connect

**Processes** 

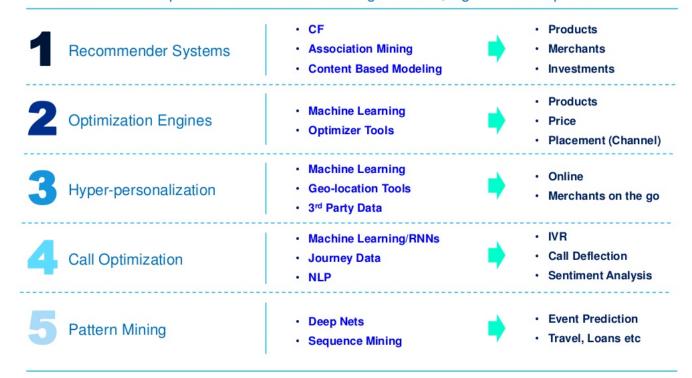
**Data** 



- Data Silos No 360 view , Non-Standardized Data across markets
- Traditional toolkit limited exposure of Next Gen programming, Access Restrictions
- Align organization for agile deployment Execution systems not capable to deliver instantly
- Non standard processes for modeling, approvals and execution
- Patience & Sponsorship : Research & Capabilities take time Rome was not built in a day

## Our Journey so far ...

Over the last 2 years, we have developed and implemented multiple solutions to drive revenue and customer experience across markets using new data, algorithms and platforms ...



# The future beholds more promise ...

Better Algorithms

**Faster Execution** 

3<sup>rd</sup> Party Partnerships → More Data

Chatbots

Voice & Speech