

顛覆企業傳統ROI Return on Information 資訊革新論壇 New ROI 資訊創造報酬率,迎接ROI大革新



Program Director Big Data Development IBM Silicon Valley Lab

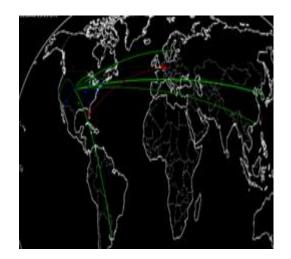


Big Data can solve problems that improve human life

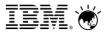


Actionable insights that anticipate situations are the keys to success

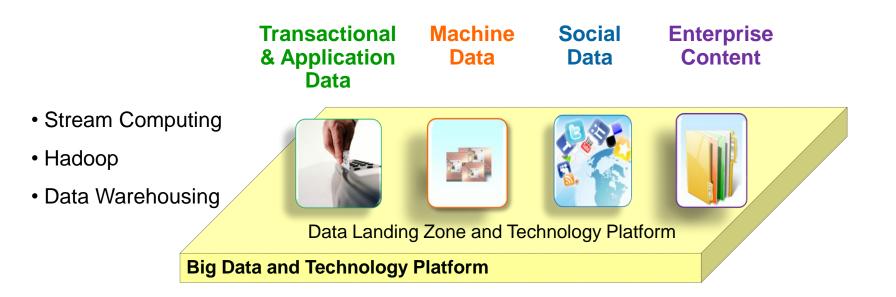




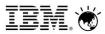




New Opportunities with Big Data & Analytics







New Opportunities with Big Data & Analytics

- Predictive Analytics
- Real-time Analytics
- Content Analytics

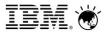


Data Scientist Business Analyst User 360 degree view of customer, fraud detection, risk analysis, trend analysis, event processing

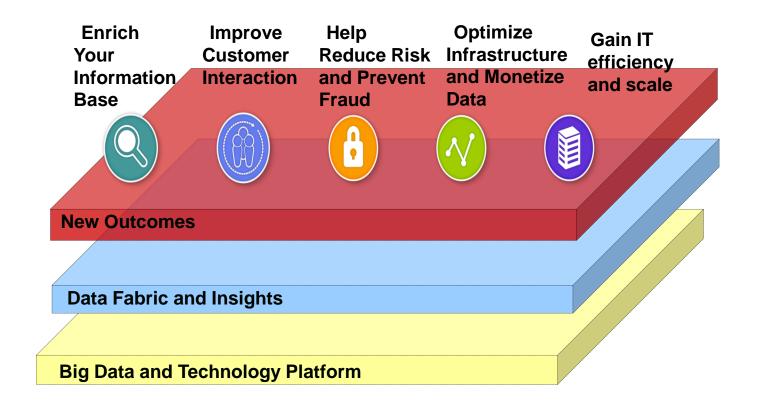
Data Fabric and Insights

Big Data and Technology Platform





New Opportunities with Big Data & Analytics







Capturing Interaction Data



- The problem with traditional systems is that they don't know a customers presence until checkout, after the shopping experience is pretty much complete
- A 360° view of a customer starts with interacting with him in real time identifying the customer means tracking and individual across channels, from point of sales (POS, to multiple store outlet brands, call center, technical support, and more)





The Segmentation of One and Customer State: Client D.N.A

Service Profile: Current Handset = RealPhone Next Upgrade = March 2013 Data Plan = Unlimited Domestic Features = Basic

Customer Insights: Customer Seg = SME Customer Value = High Influencer Score = Moderate Churn Risk = Mod/High Loyalty Member = No

Preference: Movies & video Sports International Travel Social Media (Facebook)





Usage Data Summary (3 mos): 80% of calls out-of-network Made 3 calls to a competitor call center 5 streaming video events per day

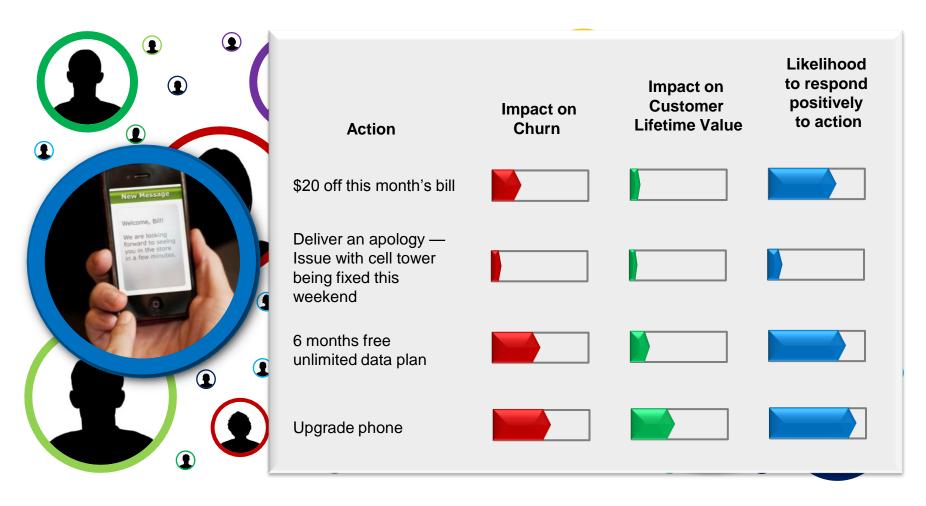
Heavily uses smartphone app Data roamed in Japan 6 times

Billing Profile: Average Bill = \$200 per mo Pays by autopay

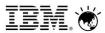
Customer Profile: Gender = Male Marital = Married Children = No Income = Upper/Mid Tier Language = English



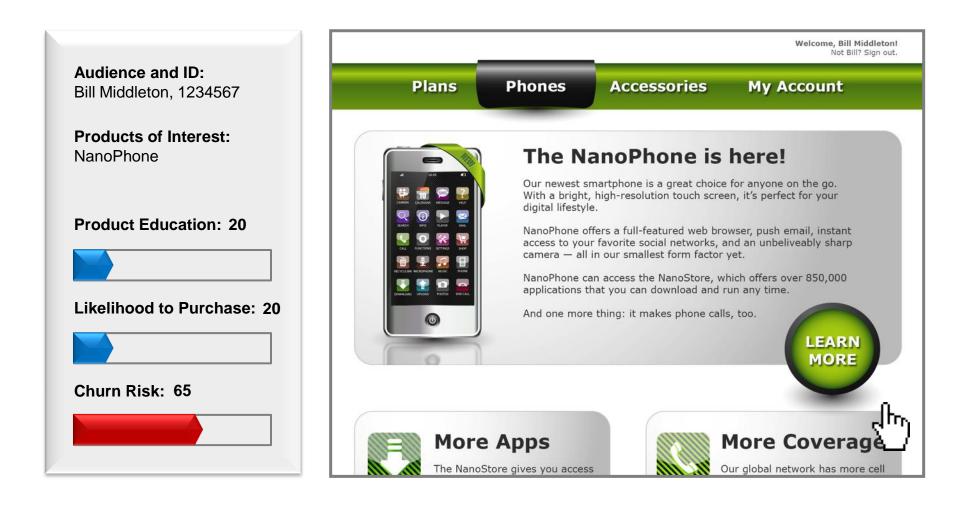
D.N.A. Based Next Best Action



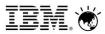




Real Time Web Behaviors: Client D.N.A



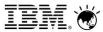


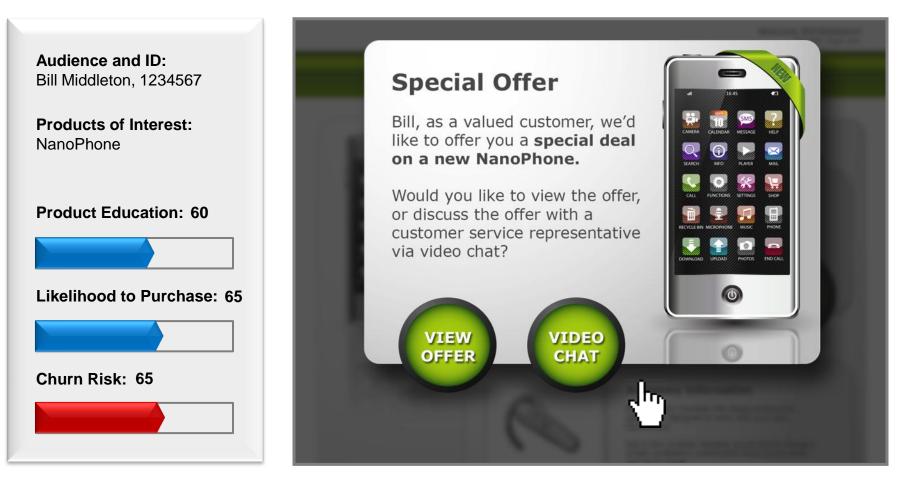


Real Time Web Behaviors: Client D.N.A

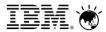




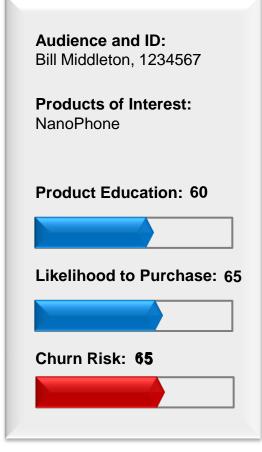


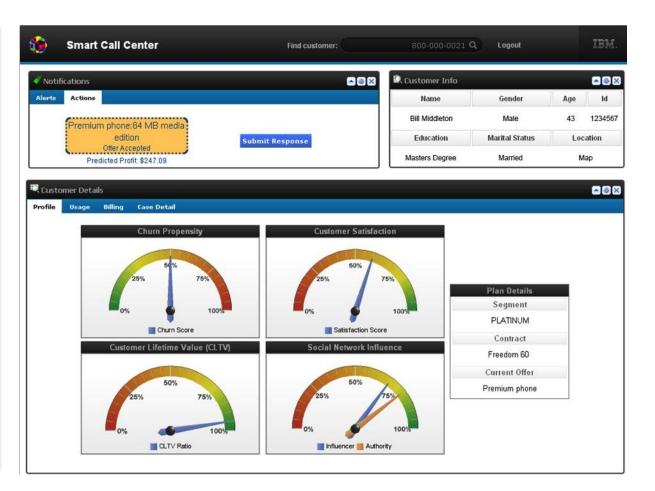






Real Time Web Behaviors to Address Churn: Client D.N.A









Map and Update the Customer Information

Service Profile:

Current Handset = uPhone Next Upgrade = March 2014 Data Plan = International Roam Features = Custom

Customer Insights: Customer Seg = SME Customer Value = High Influencer Score = High Churn Risk = Low Loyalty Member = Yes

Preference: Movies & video Sports International Travel Social Media (Facebook)



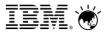


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Telemetry - "Connected Cars"



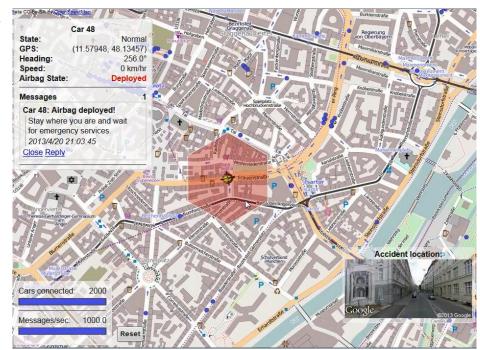
Automotive Company & Dealers

- Improve product quality
- Predict part failure
- Schedule Services



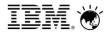
Insurance Companies

- Accident alerts
- Driver behavior
- Personalized pricing









Business challenges



Exploit, codify and take actions

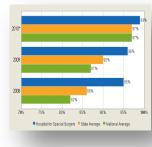


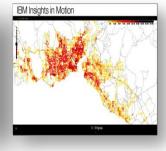


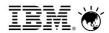
Leverage existing and new Big Data sources and apply analytics



Prove hypothesis determine patterns, build predictive models







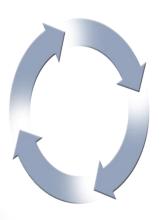
Business challenges

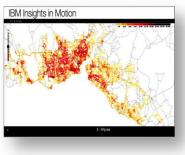


Exploit, codify and take actions

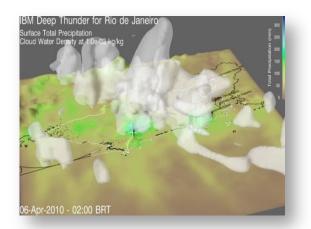


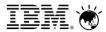






- 1. System needs to analyze the PAST, and *predict the FUTURE*, leveraging all available data





Business challenges



Exploit, codify and take actions



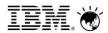


"What neurological condition contraindicates the use of bupropion?"



1. Systems needs to process complex natural languages and perform deep analysis.

> "2 b, r nt 2 b dat iz d Q. LOL!"



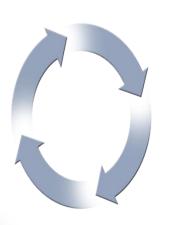
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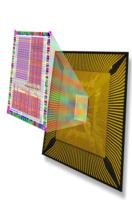


Exploit, codify and take actions









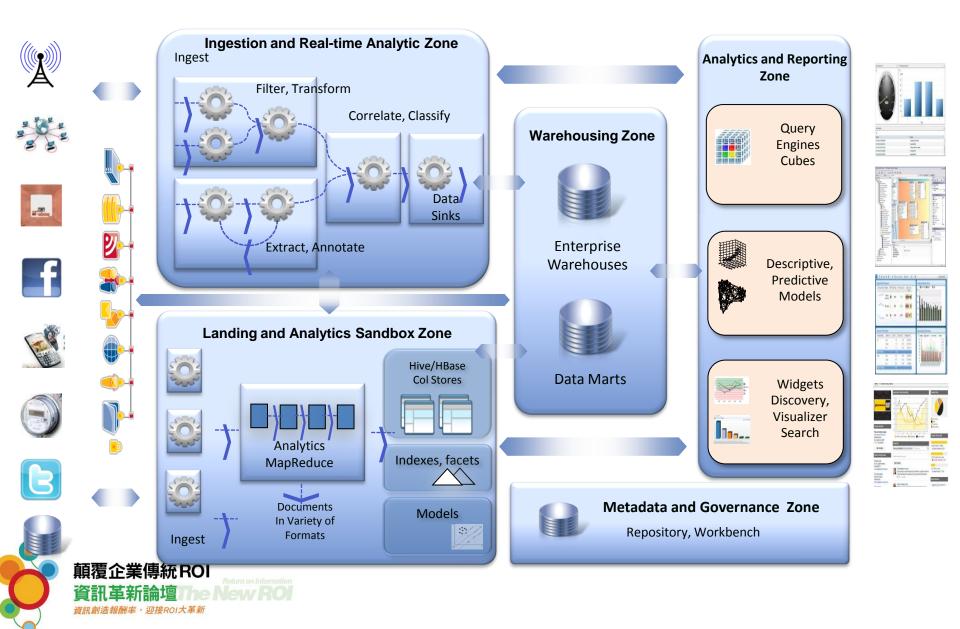


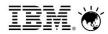
3. Systems needs to process images, audio and video streams to detect patterns





Pattern of Big Data and Analytics Implementation







Get Started. Be Bold. Think Big.



Organizations competing on information and analytics are more likely to outperform their peers. Source: IBM IBV Analytics Study 2012

