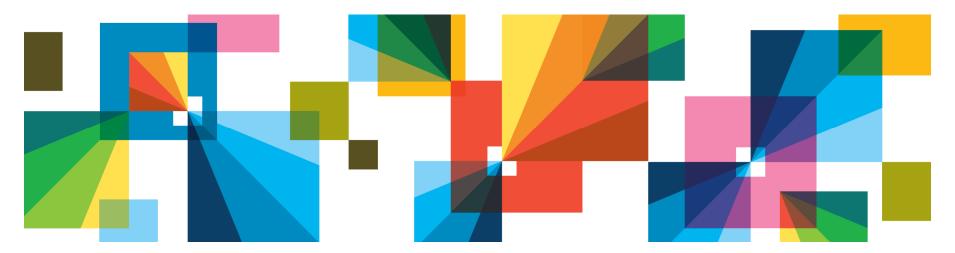


Converting Big Data into Big Knowledge

Lauren Walker, Europe Sales Leader, Big Data Analytics, IBM Information Management <u>lauren.walker@uk.ibm.com</u>





Agenda

- The Paradigm Shifts that "created" Big Data
- The IBM customers that built Big Knowledge

IBM, Ö

New era of computing in a Instrumented, Interconnected, Intelligent Smarter Planet





Information from Every Entity – Machine

640 Terabytes 1 Billion Lines of Code EACH go gine generating tags B/30 minutes (483 Blight 2065 ery day > Bly 20 British Airways alone in BMW 7 series 1 Terabyte of Trade ➢Intelligent Tractors information Captured every day by the New York Stock Exchange 200 million smart meters by 2014 ILTD: HWWW ≻Yearly Reading ➤120M Readings a Month ≻3.65B Readings a Day **350B Transactions/Year**



Information from Every Entity – Man



4.6 billion Camera phones world wide ≻Geospatial tagging

Location based advertisingLocation based monitoring



12+ Terabytes of tweet data every day



25+ Terabytes log data every day

IBM. **T**

Big Data Paradigm Shift

VOLUME & VARIETY	REAL TIME VELOCITY
Structured & Unstructured	Data in Motion Analytics
STOP	FIT FOR
SAMPLING	PURPOSE
Move to Absolute Knowledge	New Technology, New Skills

IBM Big Data Platform



Analytic Knowledge Accelerators

- Text Analytics, Sentiment Analytics
- Statistical & Predictive Analytics (ML)
- Entity Integration, Entity Analytics

Enterprise Robustness

- Visualization & Application Tools
- Cluster and Workload Management
- Security & Governance

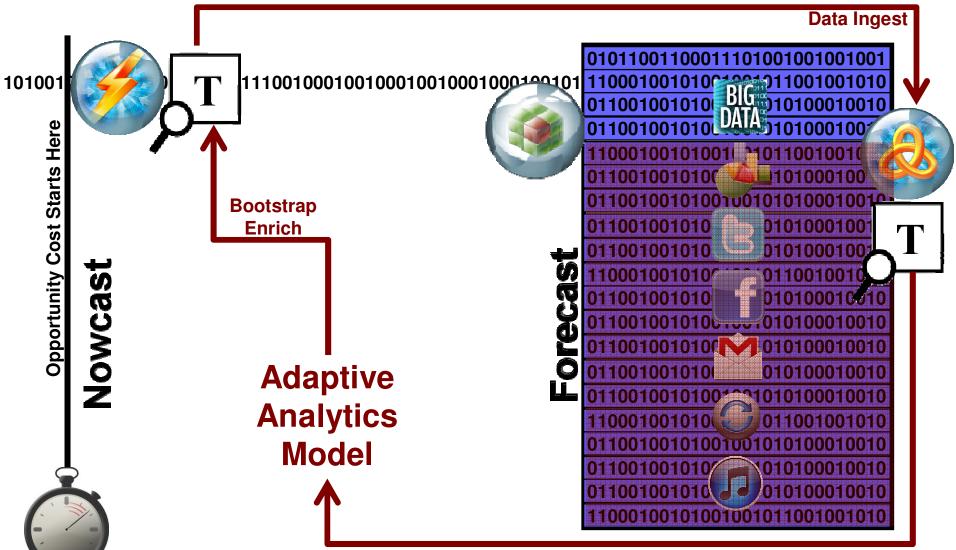
Integration

- With current sources
- With new Big Data sources

IBM, Ö

Smarter**Analytics**

The Big Data Knowledge Factory, just add your Big Data Brain People





Big Data Analytic Accelerators Designed for **Big Knowledge**



Telecommunications CDR streaming analytics Deep Network Analytics



Retail

Enhanced 360 Degree view with Big Data Customer Sentiment & Social Exhaust



Finance Counter Party Risk Streaming new Big Data sources into decision engine



Social Media Analytics

Sentiment Analytics, Intent to purchase



Public

Real-time monitoring and routing optimization

Multi-format monitoring (audio, image, text. . .)



Energy & Utilities

Streaming statistical analysis Enabling & Accelerating Big Math



Agenda

- The Paradigm Shifts that "created" Big Data
- The IBM customers that built Big Knowledge



Why Didn't We Use All of the Big Data Before?





"IBM had **experts** within **data mining**, Big Data, and Apache **Hadoop** and it was clear to use from the beginning we wanted to improve our business, not only today, but **also prepare for the challenges we will face in three to five years, we had to go with IBM**."

- Lars Christian Christensen VP Plant Siting & Forecasting



Cisco automates Big Knowledge with Big Data Analytics



Automates monitoring, preventive and corrective maintenance of building corrective systems

ibm ö

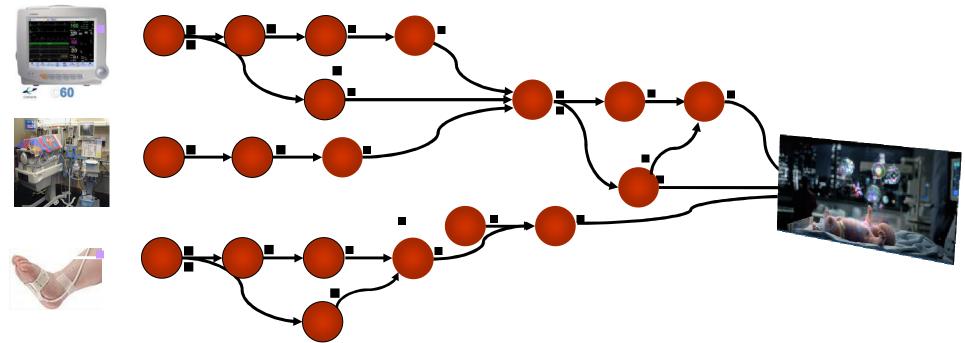
Big Data In Motion brings Big Knowledge to Doctors & Nurses



 Analyzing 1000 pieces of unique medical diagnostic information per second and stored in a dynamic model

SickKids foundation

Perspective: 20% drop in mortality of control group in trials



Big Data for Diabetes uncovers "MUSIC" new Big Data Knowledge

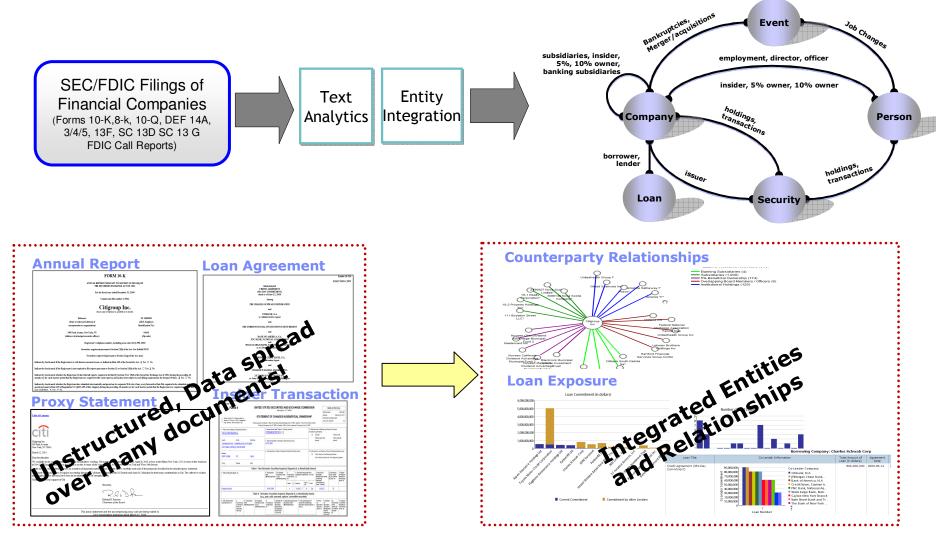


"Big Data for Diabetes" is a collaborative initiative undertaken by WMG, Warwick Medical School, the University of Warwick, IBM, Maverick TV, NHS Local, the University Hospitals of Coventry and Warwickshire and Experian.



iem, öʻ

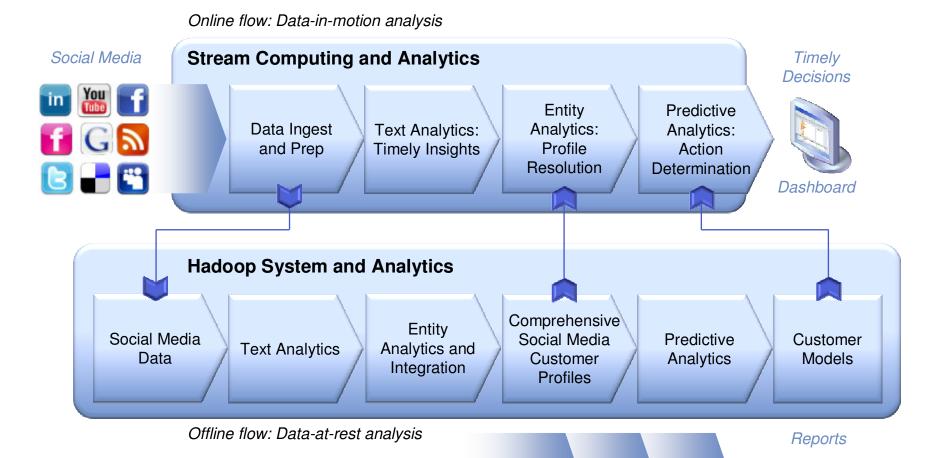
Big Data Analytics enables Banks with better Counterparty Risk Knowledge



Counterparty exposure, Investment decisions, Credit risk and Systemic risk analysis



Solution Architecture – Social Media Big Data Analytics



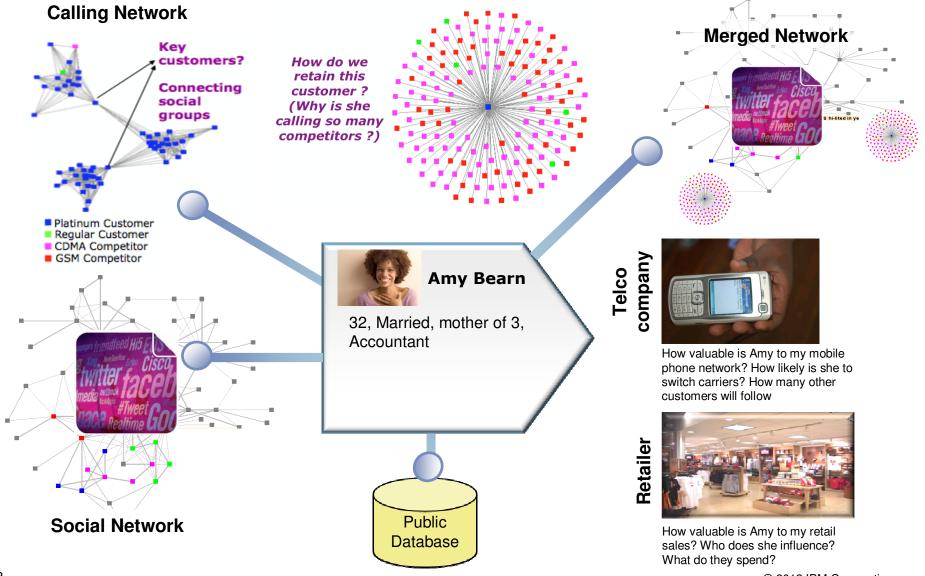


Visualization -- Social Media Big Data Analytics



IBM. 🕉

Adding Big Data Knowledge to Improve Monetization of Relationships



Big Data Platform Directions

Enterprise capabilities Ecosystem & Skills Accelerators to time to value

IBM can help you ingest, manage and discover AND enable big data analytics to move you from Big Data to Big Knowledge

