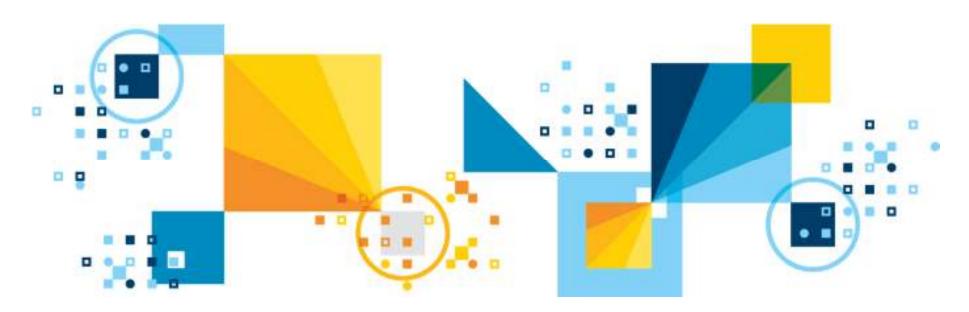


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Watson, Big Data and cognitive computing





Long Ago, People Danced @ Concerts, Now They Video / Click / Share / Tweet...

1990s 2010s







Welcome to the Big Data Opportunity

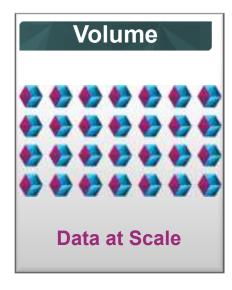
"The list of life's certainties has gotten longer.

Along with death and taxes we can now include information overload."

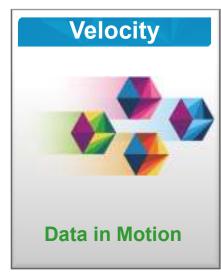


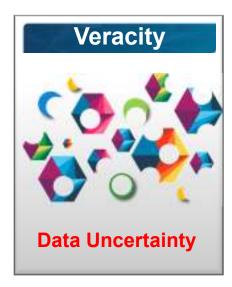


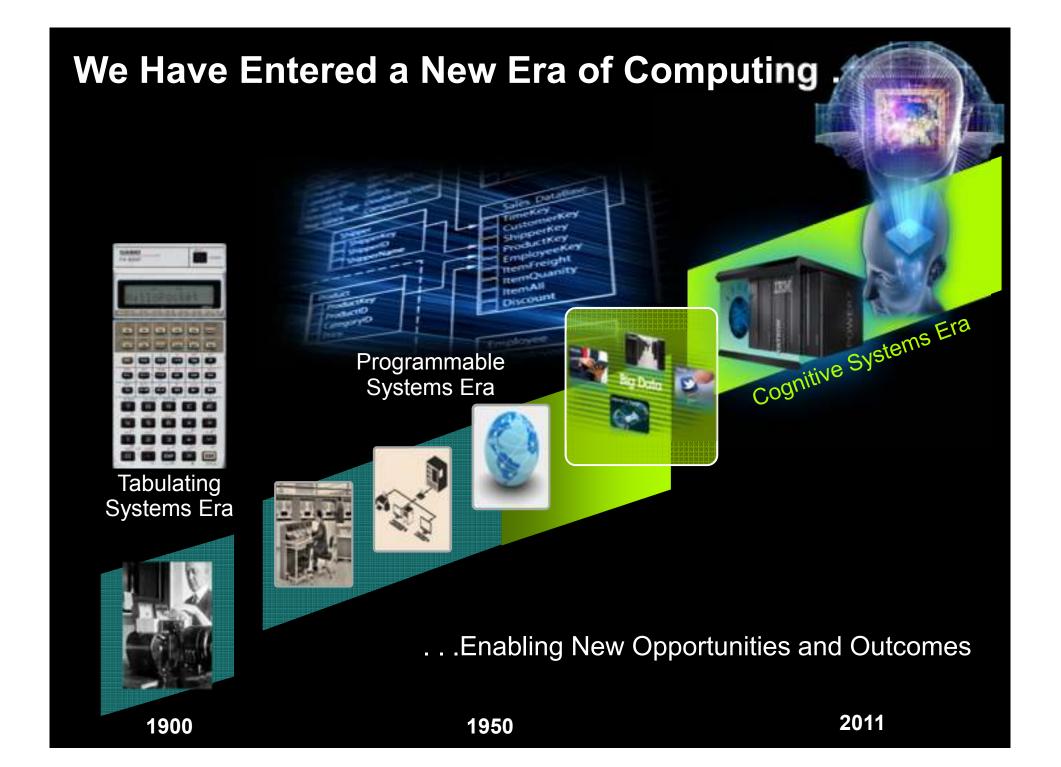
Big Data Is All Data













Big Data Analytics And Natural Language Cognitive: The Next Wave of Disruptive Technology



Principles of Cognitive Computing

Cognitive Systems - Applying human-like characteristics to conveying and manipulating ideas, that when combined with the inherent strengths of digital computing can address problems with higher accuracy, more resilience, and on a massive scale over very large bodies of information

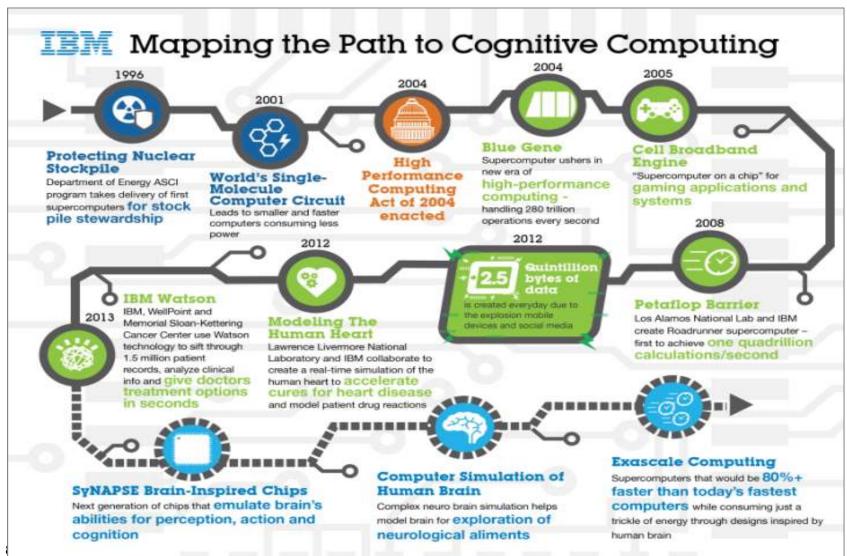
Watson is a Cognitive System

- Analyses human language to identify inferences between text passages
- Can demonstrate human-like accuracy
- Performs at speeds far faster, and at a scale far bigger, than a human





We are on a journey to Cognitive Computing



Corporation







Why We wanted to play Jeopardy

grand challenge: can we build a computing system that rivals a human's ability to quickly answer questions posed in natural language with speed, accuracy and confidence.





Watson in action During Jeopardy!

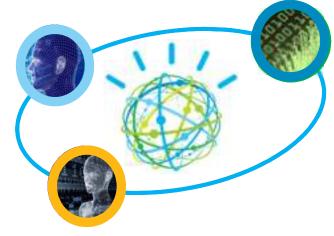




Watson combines transformational capabilities to deliver a new world experience using cognitive computing

1 Understands natural language and human style communication

Generates and evaluates evidence-based hypothesis



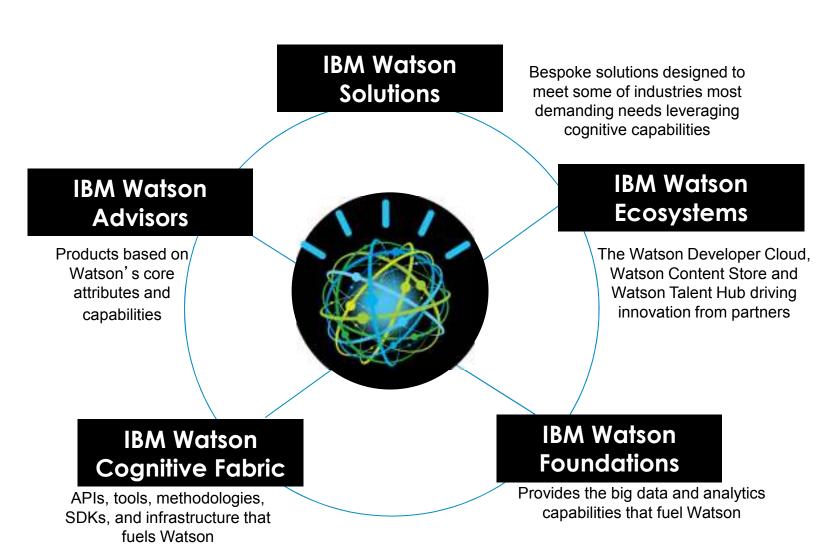
Adapts and learns from training, interaction, and outcomes

Watson:

- Understands me
- Engages me
- Learns and improves over time
- Helps me discover
- Establishes trust
- Has endless capacity for insight
- Operates in a timely fashion



Announcing The Watson family - 2014





Watson Decision Advisor

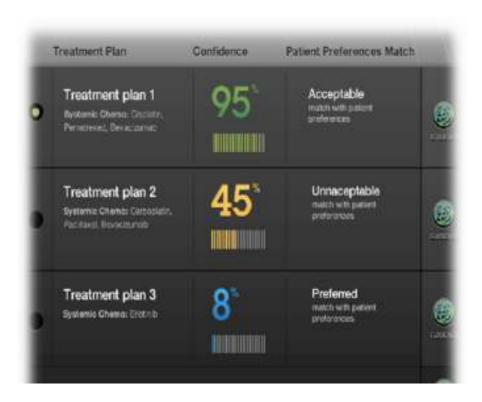
Situations in which:

Need more informed, evidence-based decisions

Large body of data is available to draw upon

For example:

Clinical medicine treatment
Mechanical system repair
Airline capacity management





Watson Decision Advisor helping oncologists treat cancer

Attacking the cause of $\frac{1}{4}$ of deaths



Business problem:

Need better individualized cancer treatment plans

WellPoint's Interactive Care Insights for Oncology powered by IBM Watson





Solution:

- Evidence-based suggestions to inform oncologists' decisions
- Analyzes patient data against massive volumes of medical literature
- Evolves with the fast-changing field



Watson Discovery Advisor

- Helps Researchers discovery new insights by synthesizing information in seconds
- Initial client focus in Pharma, Education and Publishing
- Early Client Participants









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Watson Engagement Advisor

Helps organizations improve how they answer their clients' needs

- Engage under-engaged clients
- Grow top-line revenue
- Improve bottom line results



How Watson Engagement Advisor works Conversational Actionable Learns over Time Answers to Experience Questions Outcome When asked a By integrating the Watson learns Using natural system with other language, it from its consults its vast enables a business interactions with corpus of conversational processes. customers. It knowledge to Watson can allow dialogue with the becomes more provide the the customer to customer in confident in take appropriate context answering actions questions as usage of the system grows



Watson Explorer

- Find, extract and deliver content regardless of format or where the data resides
- Helps improve the return on all types of information including:
 - Structured data in databases and data warehouses
 - Unstructured content such as documents and web pages
 - Semi-structured information such as XML





Watson Analytics

- Enables anyone to independently discover new patterns to inform better decisions
- Targeted horizontals: Sales and Marketing
- Cloud-based model supports adoption for departmental groups by enabling quick startup and evaluation







Just ask a question





This will be Watson going for

- Understands natural language
 Generates and evaluates hypotheses
 Adapts and learns
- Reasons
 Explores
 Visualizes
- Sees
 Hears
 Experiences





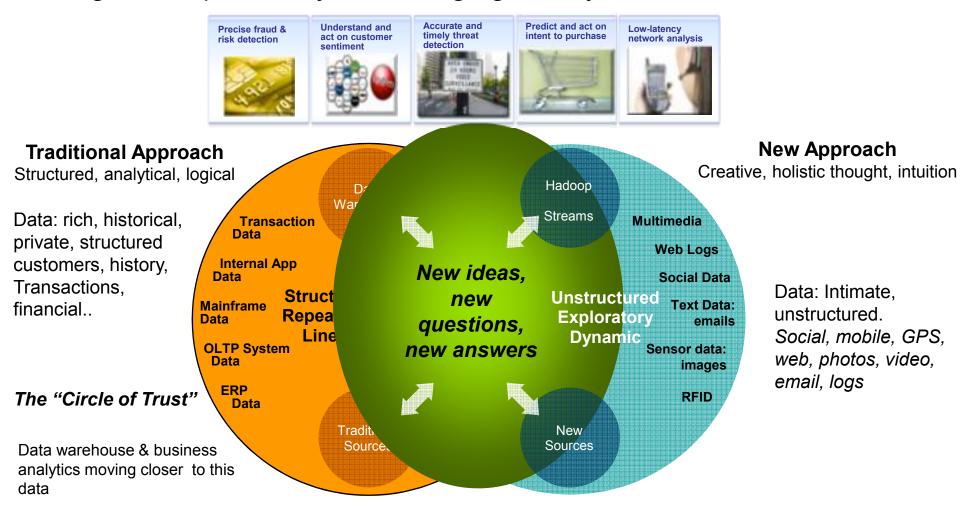
Watson Debating System



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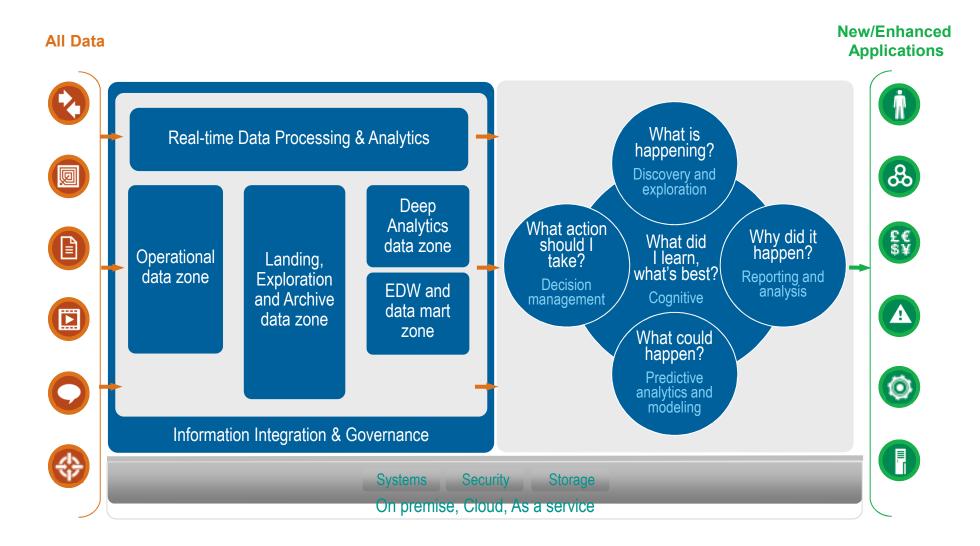
Imagine the possibility of leveraging all of your data assets



The real benefit is derived from integration of new data sources with traditional corporate data



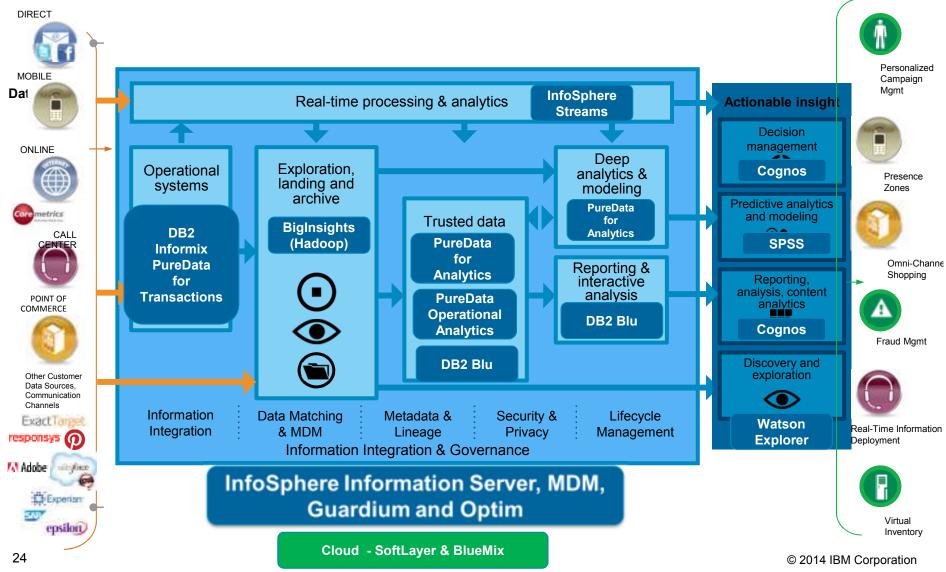
A New Architectural Approach is Required



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IBM Big Data Analytics (Watson Foundations) - One architecture that fits together







www.ibmbigdatahub.com www.analyticszone.com