IBM Watson

IBM Watson Group

A New Era of Computing



February 2014



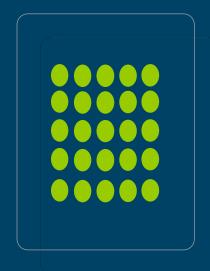
The Mega Trends





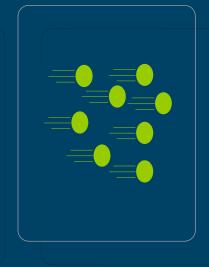
Big Data: More than just volume

Volume



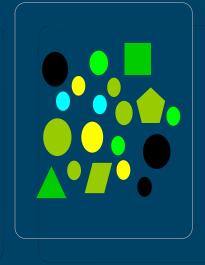
Terabytes to exabytes of existing data to process

Velocity



Streaming data, milliseconds to seconds to respond

Variety



Structured, unstructured, text & multimedia

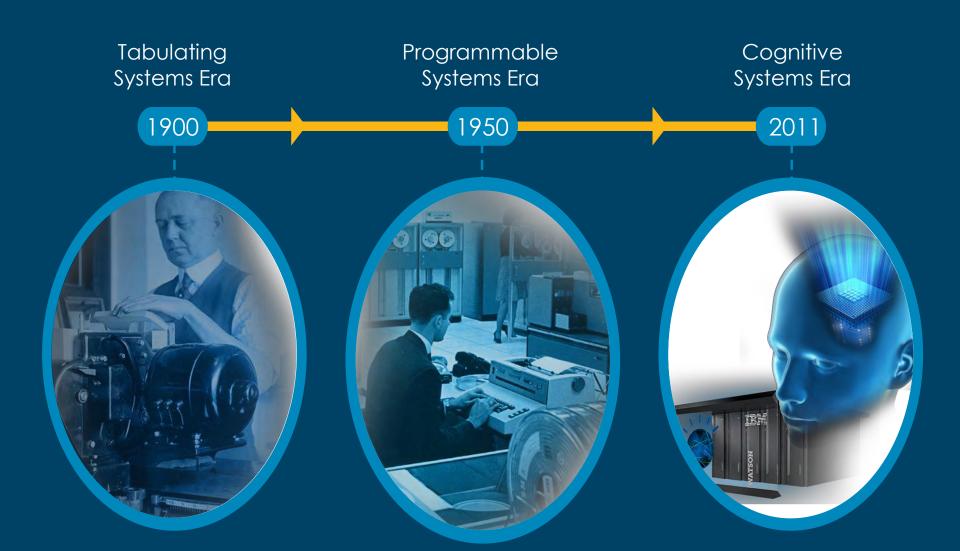
Veracity



Uncertainty from inconsistency, ambiguities, etc.



Watson is ushering in a new era of computing





Watson is cognitive computing

Watson understands me.

Watson engages me.

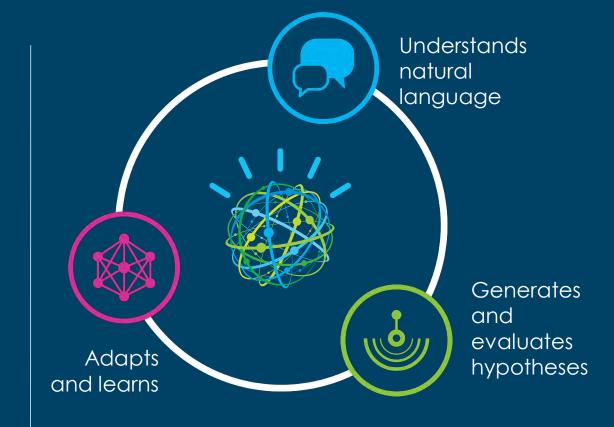
Watson learns and improves over time.

Watson helps me discover.

Watson establishes trust.

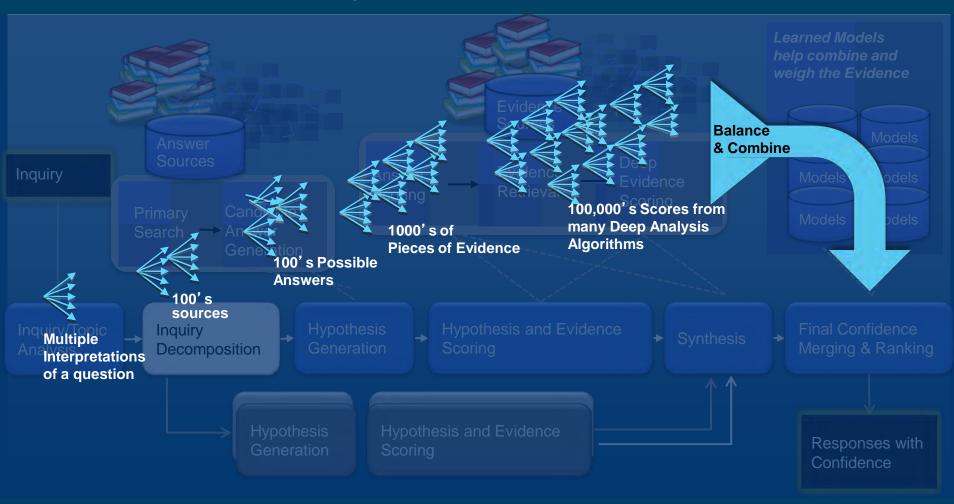
Watson has endless capacity for insight.

Watson operates in a timely fashion.



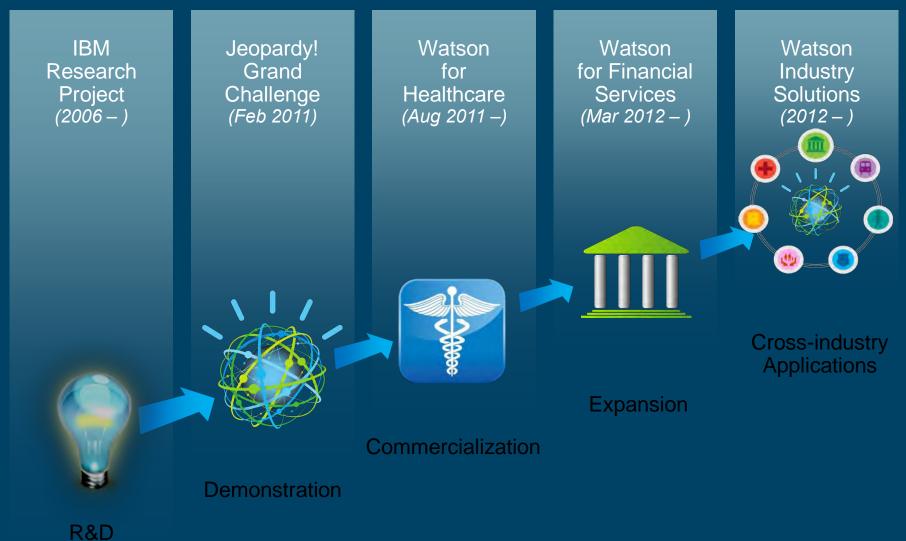


How Watson Works: DeepQA Architecture



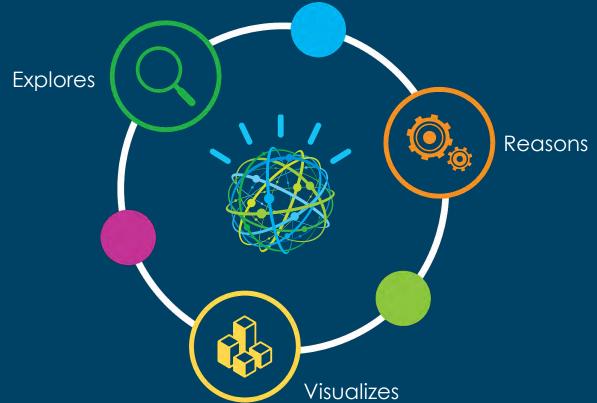


Putting Watson to work to address the world's pressing issues





Watson's intelligence and capabilities are expanding





Watson Engagement Advisor

Helps organizations improve how they answer their clients' needs

- Engage underengaged clients
- Grow top-line revenue
- Improve bottom line results



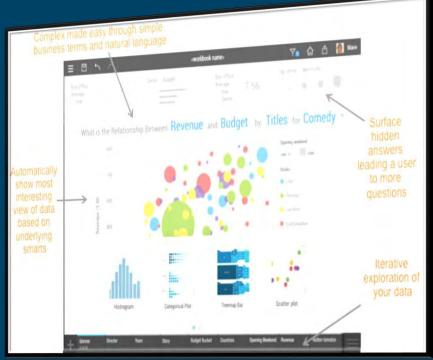




Watson Analytics

Uses natural language, cognitive capability on front end, to help users do math, and ask questions about data

- 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







Watson Explorer

A visualization exploration engine to help people understand what's in their data

- 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
 - Unstructured content
 - Semi-structured





Watson Advisors in medicine

A data-rich, societally important field helping Watson change how medicine is:

➤ Taught & Researched

Major Cancer Center

Students learn from and "teach" Watson at the Cleveland Clinic

≻Practiced

Memorial Sloan-Kettering, Community Cancer Care Centers

≻Paid

WellPoint & Utilization Management



Watsons Prolicy Advisor helping streamline pre-approvals



Accelerating preapprovals from 24 hours to minutes



Business problem:

Faster review and authorization of medical procedures

WellPoint's Interactive
Care Guide & Reviewer
powered by IBM
Watson



Solution:

- Objective review based on clinical, medical, & patient data
- Actionable, confidence-weighted analysis based on relevant content, policies, and guidelines



Watson Oncology Advisor helping oncologists treat cancer

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



Business problem:

Need better individualized cancer treatment plans

Watson Oncology Advisor



Solution:

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



DEMO

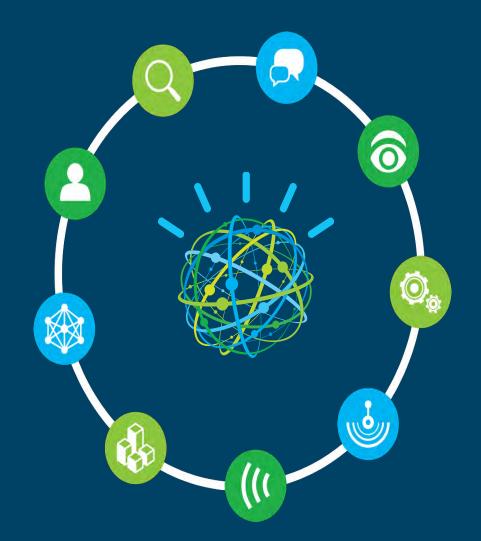
Watson Oncology Advisor





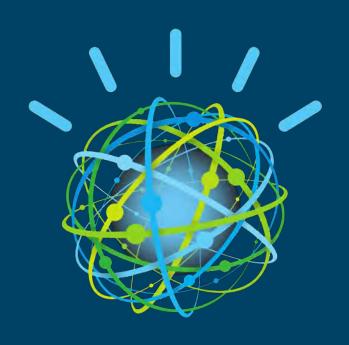
This will be Watson

- Understands natural language
 Generates and evaluates hypotheses
 Adapts and learns
- ReasonsExploresVisualizes
- SeesHearsExperiences









www.ibm.com/watson