#### **THINKLab**

# Cognitive Computing – Unlocking the Value of Big Data

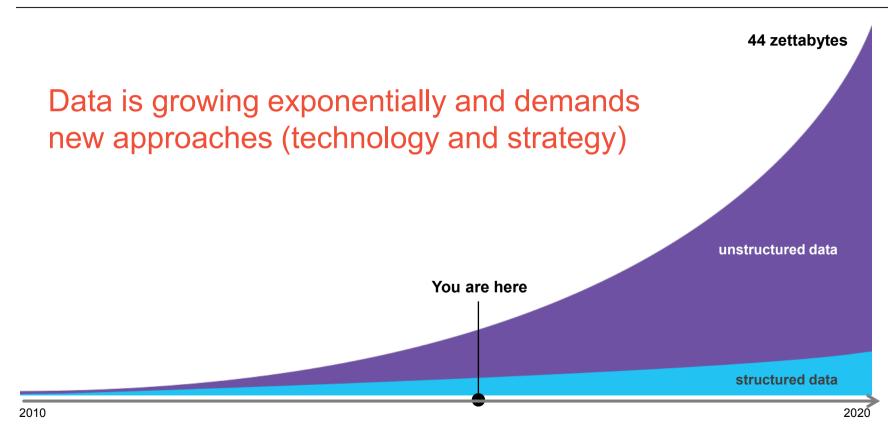
Dr. Karin Vey, Executive Consultant ThinkLab, IBM Research vey@zurich.ibm.com

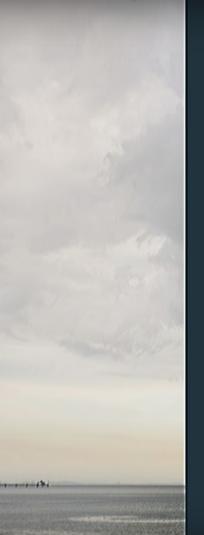


## **Entering the Cognitive Era - Made by IBM Research**

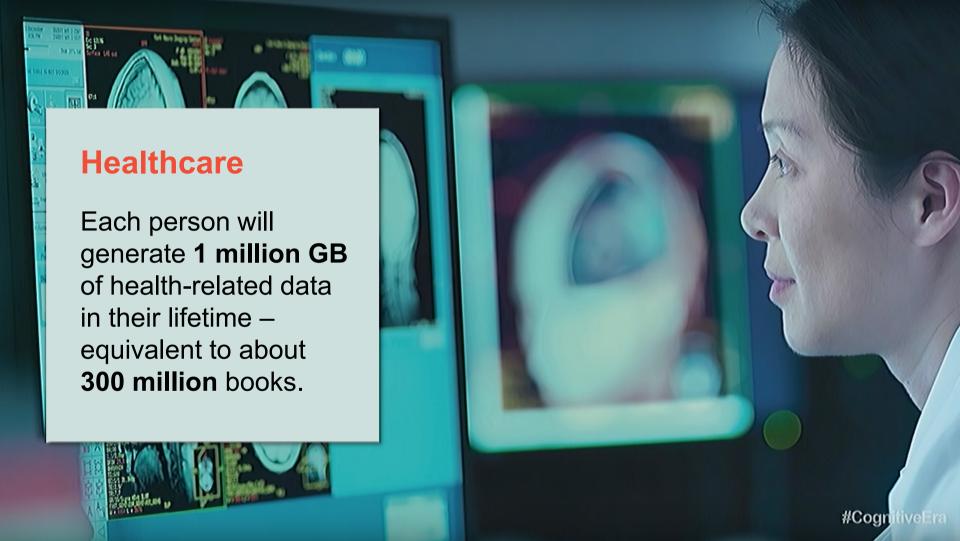








Unstructured data – "dark data" – accounts for 80% of all data generated today.



Cognitive systems must learn at scale, reason with purpose, and interact with humans naturally.



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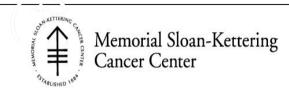


### Watson can read these medical records in six seconds!



THINK Lab

# IBM Watson for Oncology Trained by Memorial Sloan Kettering



#### Challenge

 Ability to assess quickly the best treatments for an individual patient based on MSK expertise, latest research and clinical guidelines

#### Watson solution

- A tool to assist physicians make personalized treatment decisions
  - Analyzes patient data against thousands of historical cases and trained through thousands of Memorial Sloan Kettering MD and analyst hours
  - Suggestions to help inform oncologists' decisions based on over 290 medical journals, over 200 textbooks, and 12M pages of text
  - Evolves with the fast-changing field
  - Currently supports first line treatment (Breast, Lung, Colorectal cancers)







