PAVEL SHKLJUDOV Advanced technologies leader, IBM Watson





# Here's what the world is saying about the impact of Cognitive systems on the future of how we work:

"IBM Crafts a Role for Artificial Intelligence in Medicine." THE WALL STREET JOURNAL	"IBM is the only company marketing a cognitive computing platform that's specifically designed to support the development of a broad range of enterprise solutions." Deloitte.	innova 'innova valued IDC: IBM (#AP25752 Sahni)
"IBM Watson represents a bold technological and visionary step a future in which every aspect of our lives will be enhanced by the utility of cognitive computing as it is harnessed into myriad new applications."	"What is distinctive about IBM is the breadth of its effort to create Watson tools and services as plug-in offerings for a wide range of developers." <b>The New York Times</b>	"These thems to deli applica
"IDC predicts the worldwide cognitive software platforms market will grow to \$3.7 billion in 2019, at a CAGR of 35% over 5 years." IDC: Worldwide Cognitive Software Platforms Forecast, 2015-2019: The Emergence of a New Market (#258781, September 2015, David Schubmehl)	"IBM's famous cognitive computer can help banks with complex financial operations and attack important health care problems. Now you can add seeing to its skill set." FAST COMPANY	"At Wa using V trawl p search descril withou



"No doubt, Watson has the means to radically change the industry. In fact, its potential as an 'innovation lake/incubator' should be highly valued."

> M's Go-to-Market Transformation – Deeper, Wider, Newer 7527, April 2015, Chris Zhang, Sabharinath Balasubramanian, Mayur

## C

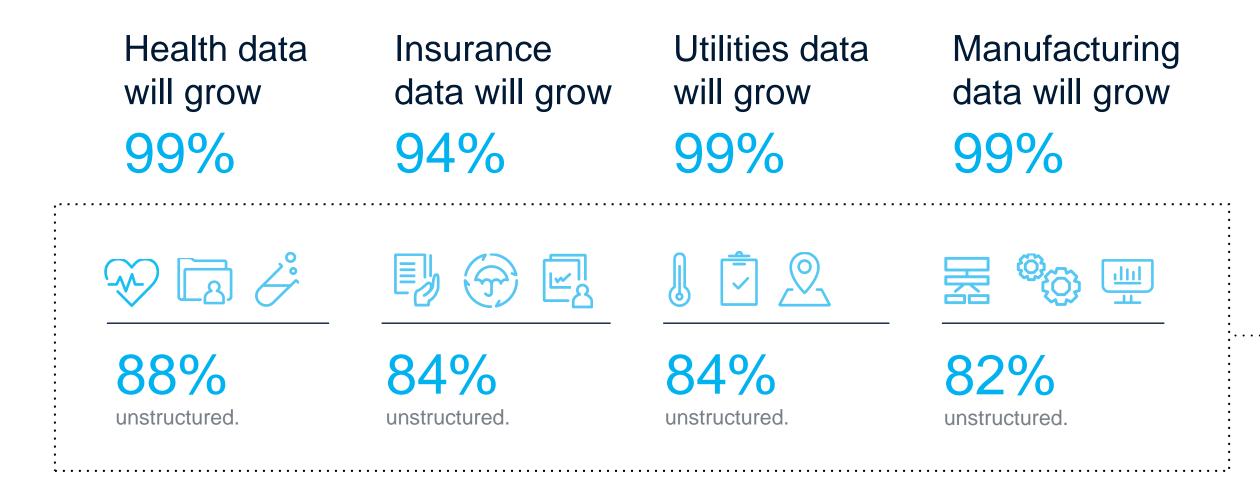
se days, it's not just AI algorithms selves that have improved, but the ability liver them...that has made so many new cations possible."

## RED

Vayin, former Sun CEO Scott McNealy is y Watson's image recognition capabilities to photos on social media and make them chable, even when they don't have tags ribing their content. 'You can't do this but Watson,' he said."



# Today we're in the midst of an information revolution.





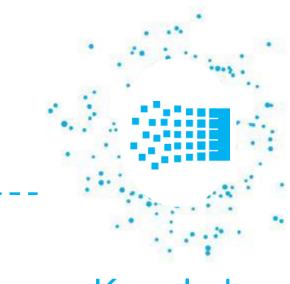
80% of this data has been "invisible" to computers, and therefore useless to us.

Until now.

# Cognitive systems democratize innovation by scaling knowledge.

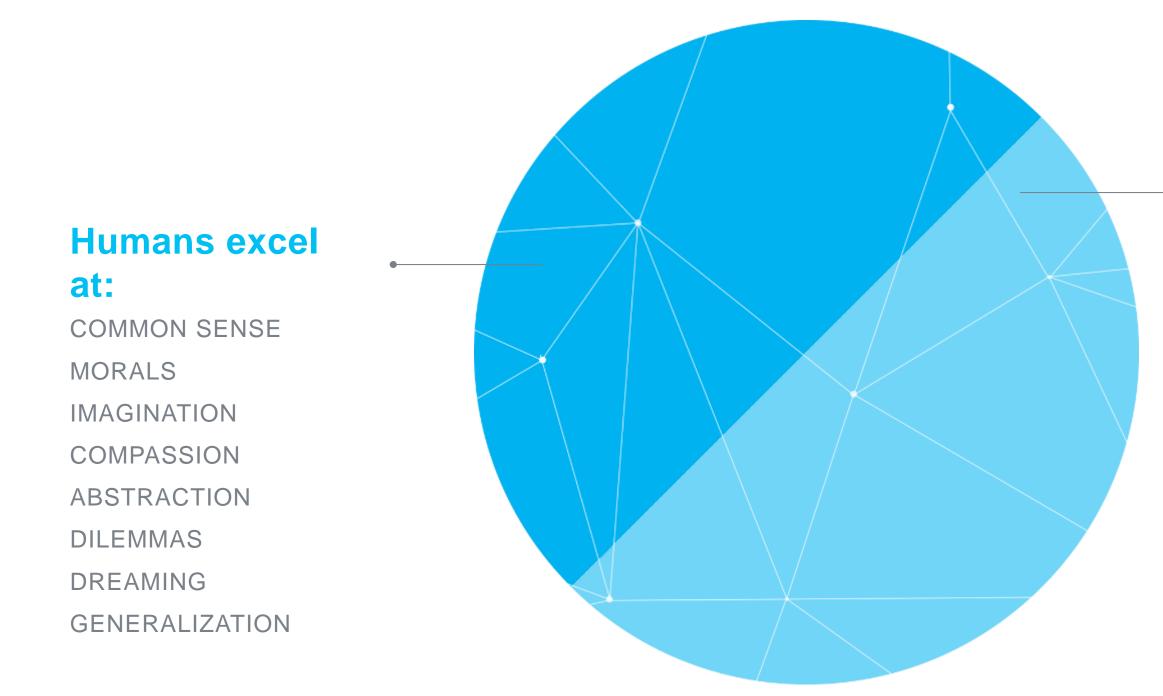






## Knowledge

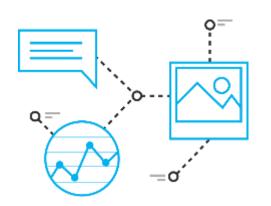
Cognitive systems are creating a new partnership between humans and technology.

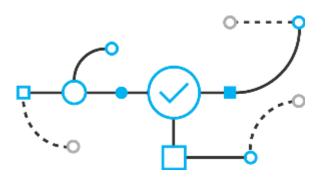




## Cognitive Systems excel at:

LOCATING KNOWLEDGE PATTERN IDENTIFICATION NATURAL LANGUAGE MACHINE LEARNING ELIMINATE BIAS ENDLESS CAPACITY There are three capabilities that differentiate cognitive systems from traditional programmed computing systems.





Reasoning

Understanding





## Learning

## The world is driven by expertise









## Master Chef

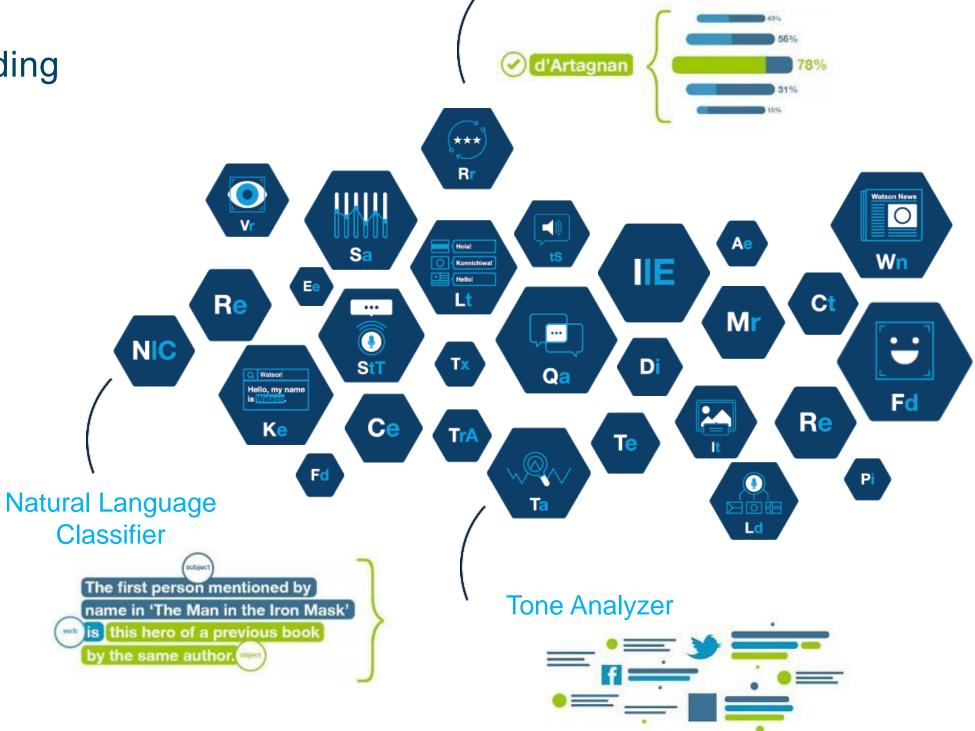
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## ...and then leverage Watson APIs to apply cognitive capabilities.

## Watson's APIs are the cognitive building blocks that harness our data.

Message Resonance **Concept Expansion Face Detection** Natural Language Classifier Speech to Text Text to Speech Language Translation Language Detection Sentiment Analysis Dialog **Retrieve and Rank** Image Link Extraction **Tradeoff Analytics** Entity Extraction **Tone Analyzer** 

Personality Insights Taxonomy Author Extraction **Concept Tagging Relationship Extraction Concept Insights Relationship Extraction Question & Answer** Feed Detection **Keyword Extraction** Visual Recognition Image Tagging Text Extraction





### **Retrieve and Rank**

As the Watson technology evolves and deepens, so too are the ways it's being put to work in the world.









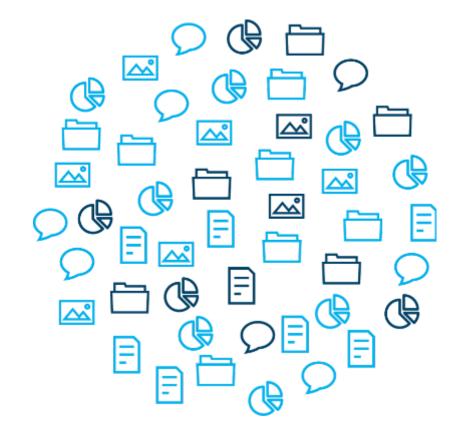
### **5.5M** Citizens in Singapore

400+ Partners Powered by Watson

## What will you do with Chef Watson?



# Cognitive systems rely on collections of data and information:



# Data, information, and expertise create the foundation.

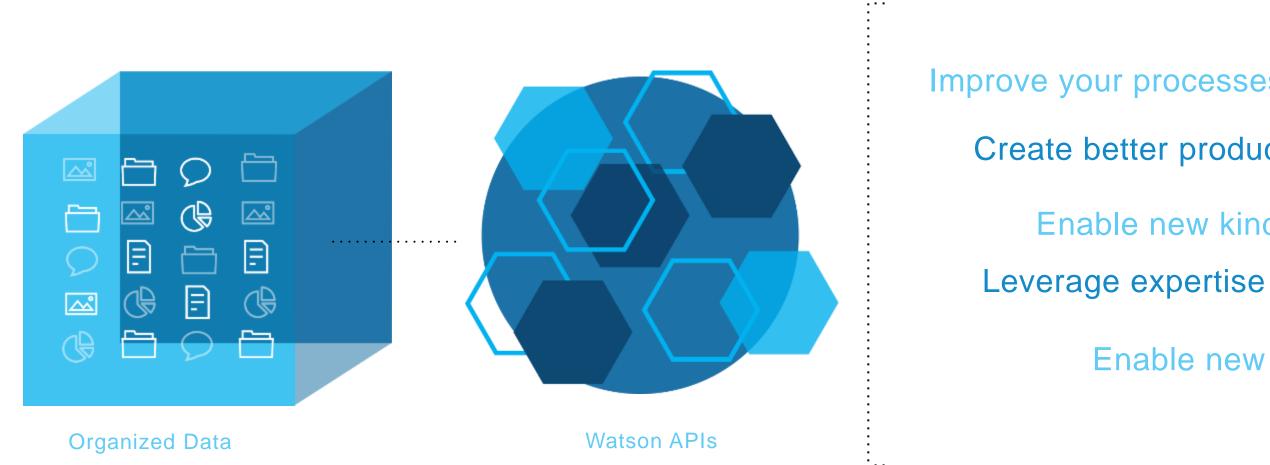
### **Examples include:**

Analyst reports	N
tweets	BI
Wire tap transcripts	W
Battlefield docs	C
E-mails	In
Texts	St
Forensic reports	Μ



- lewspapers
- Blogs
- Viki
- Court rulings
- nternational crime database
- Stolen vehicle data
- lissing persons data

## Cognitive systems combine data, information and expertise.





## Improve your processes and operations

### Create better products

# Enable new kinds of engagement

## Enable new business models