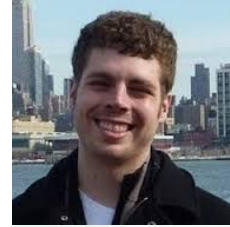


# 3 Mini Talks of 10 minutes each



**The Machine  
Intelligence Landscape:  
A Venture Capital  
Perspective**  
David Beyer



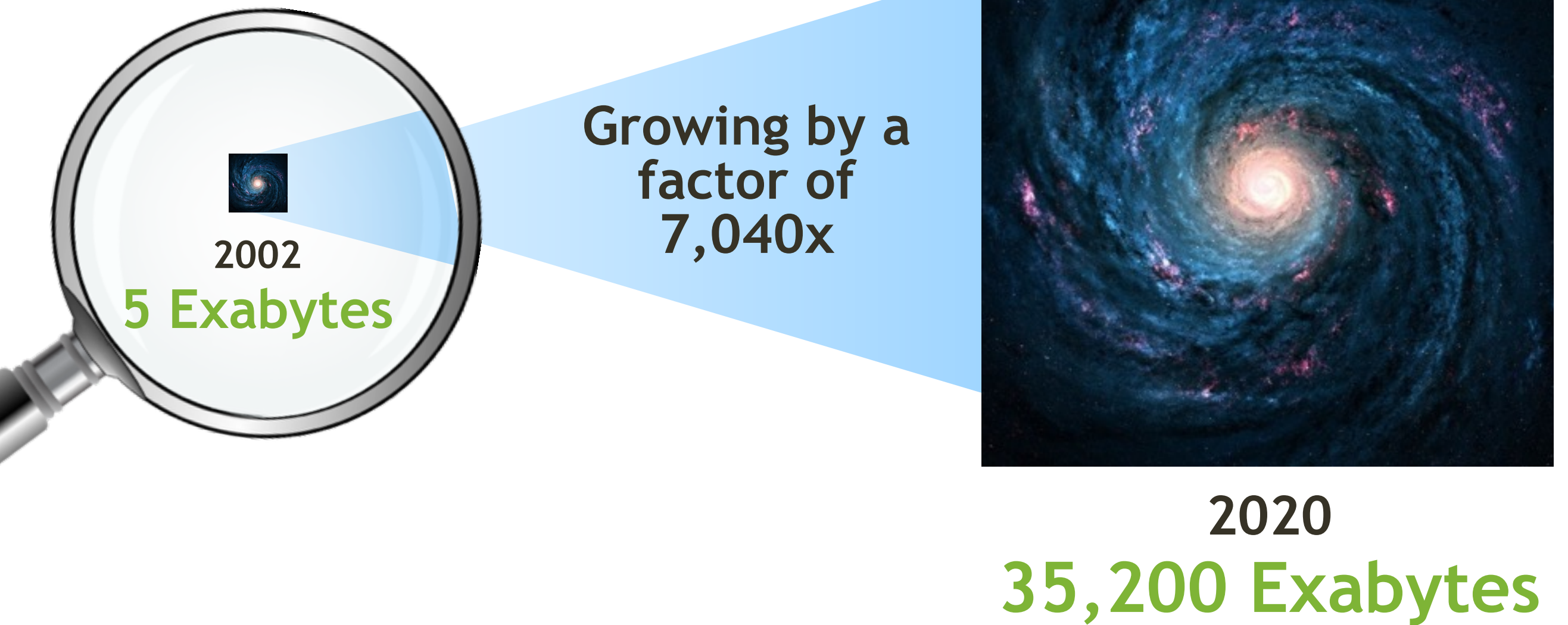
**Algorithms for Anti-Money  
Laundering**  
Richard Minerich



**The future of global,  
trustless transactions on  
the largest graph:  
blockchain**  
Olaf Carlson-Wee

# The Machine Intelligence Landscape: A Venture Capital Perspective

# An Explosion of Data



Source: EMC, Forbes estimates

# What is Enabling This Transition?



- Open Source: It's now cheap enough to store ALL the data vs. being selective
- AWS: infrastructure/scale for the masses
- Big Data laying groundwork for Machine Intelligence — the “so what?”

# What is Machine Learning?

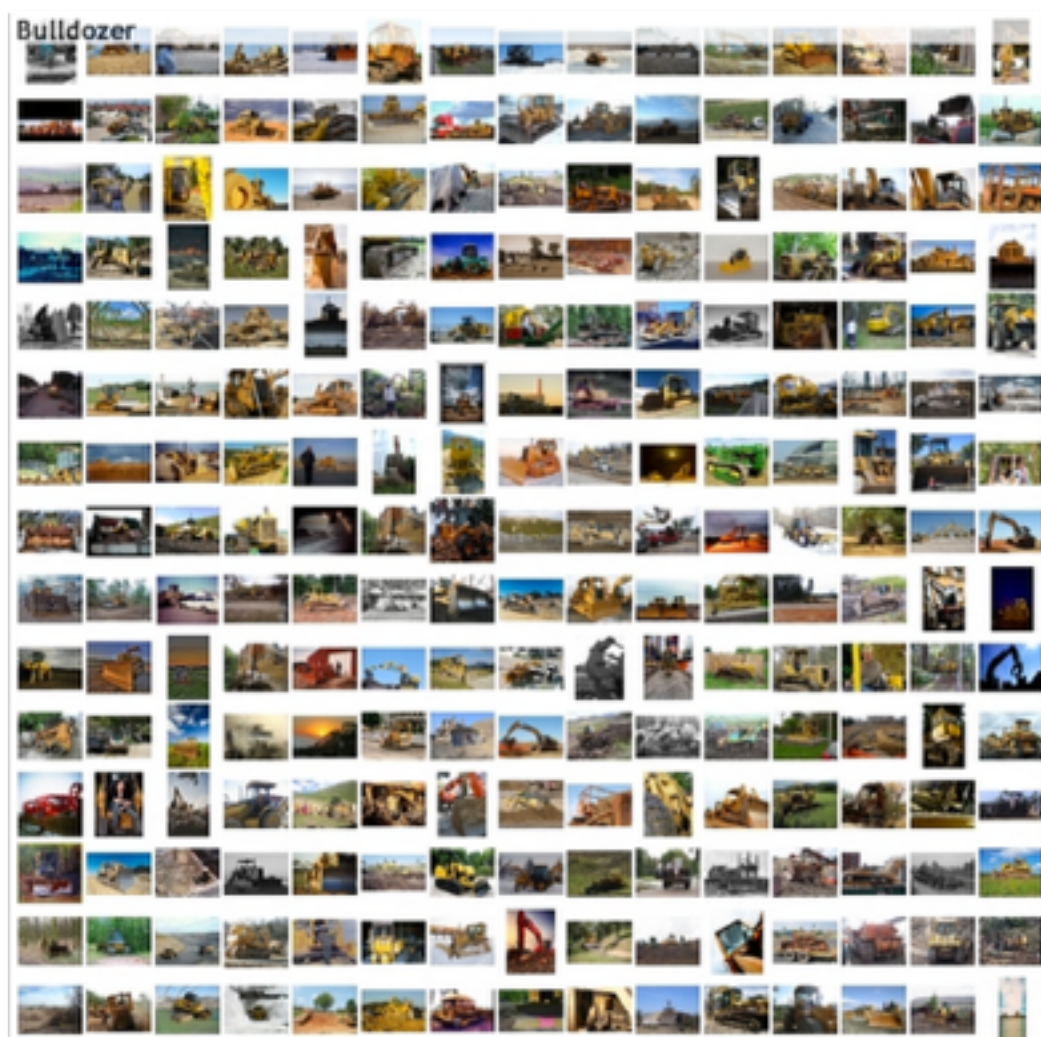
“A computer program is said to learn from experience  $E$  with respect to some class of tasks  $T$  and performance measure  $P$ , if its performance at tasks in  $T$ , as measured by  $P$ , improves with experience  $E$ .”

- Tom Mitchell

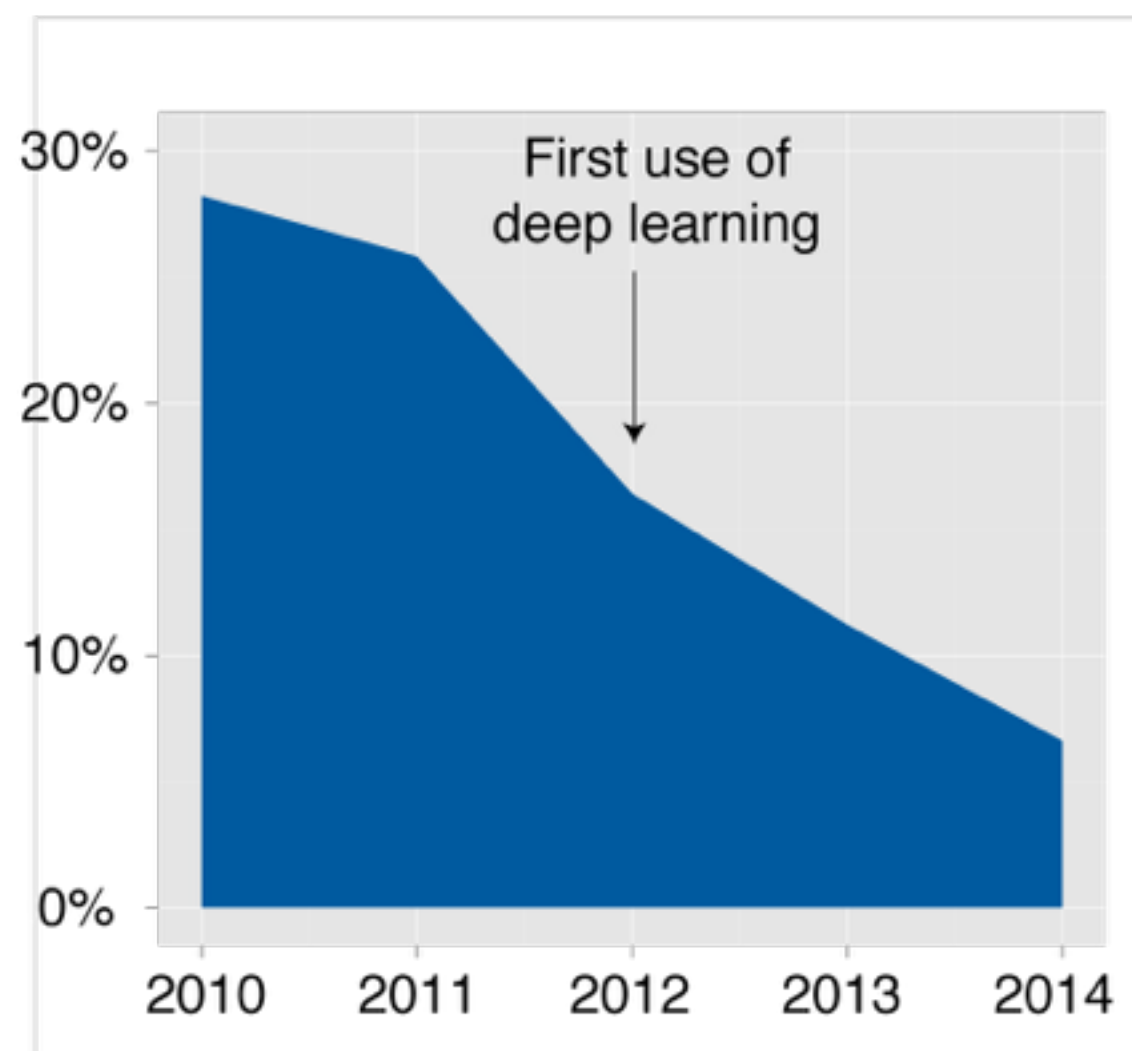


# Deep Learning Becomes Very, Very Good

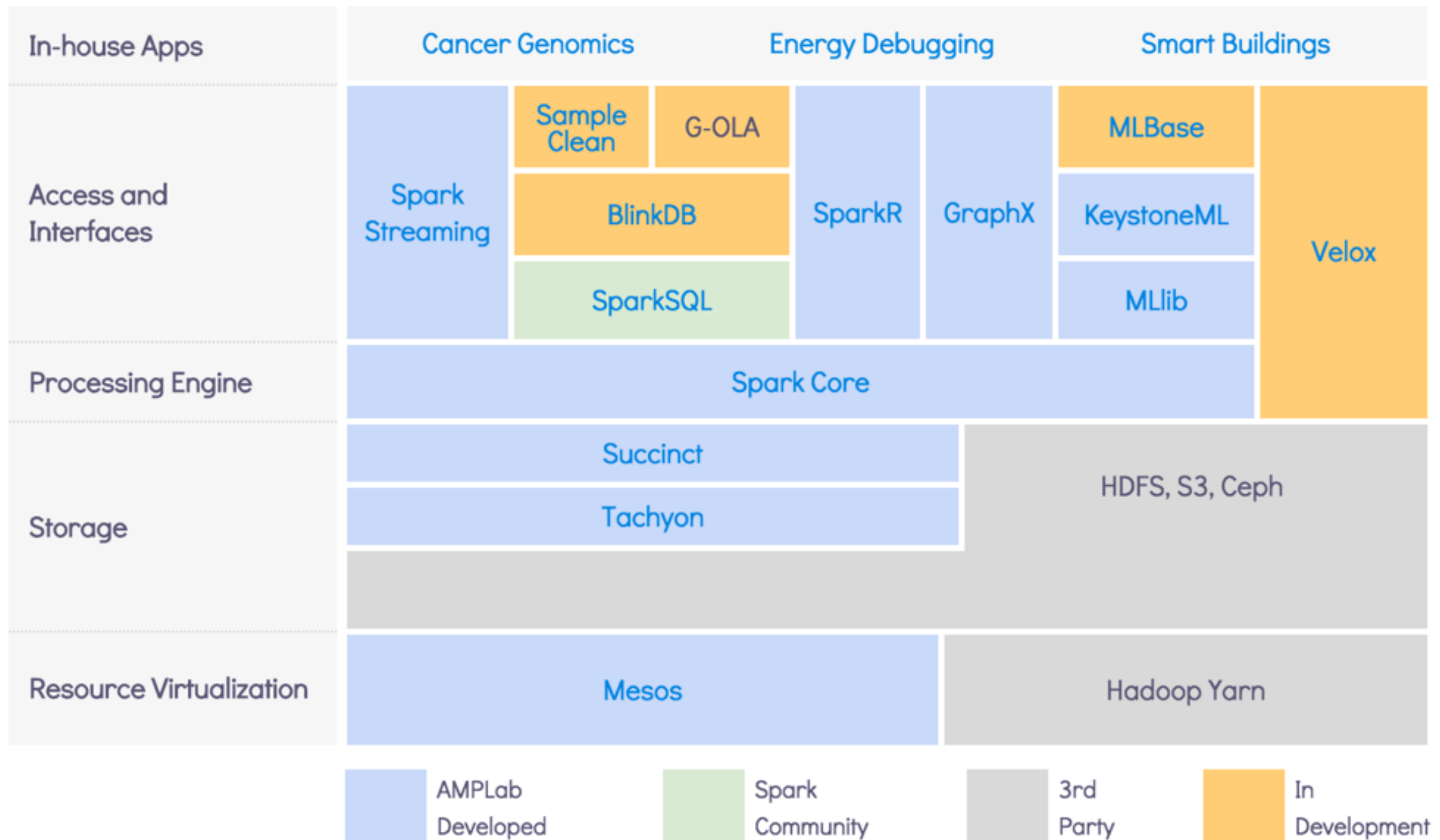
ImageNet examples



Object classification error rate

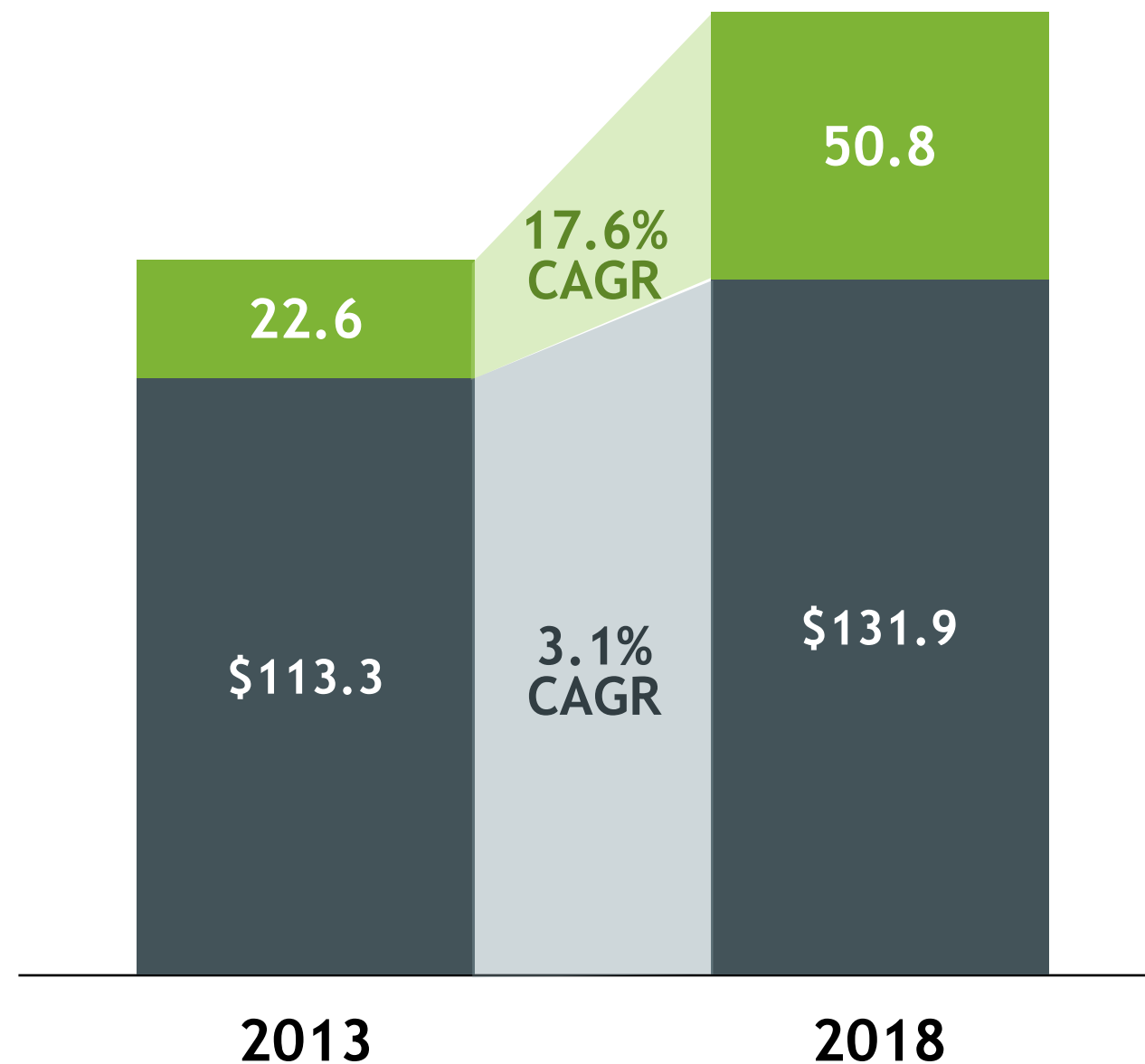


# Recent Innovations in Distributed Computing



# SaaS is Crushing Traditional Enterprise SW

## World Wide Enterprise Applications Market\* (\$B)



\*according to IDC estimates



# Not Much has Changed In 15 Years

File Edit View Navigate Query Tools Help

Account: **ORACLE**

Accounts Home | Accounts List | Global Accounts Hierarchy List | Charts | Account Explorer | Account D&B Explorer | Service Explorer | Accounts Administration

My Accounts | Menu | New | Edit | Delete | Query | Collaborate | Create Team Space | 1 - 10 of 18+

Account Name	Site	Main Phone #	Status	URL	DUNS #	Team Space	Industries
Marriott International HQ	HQ	(800) 234-5000	Gold	www.marriott.com			hotels & motels
3Com	Headquarters	(773) 326-5000	Gold	www.3com.com	842079576		manufacturing industries
3Com Distribution	UK	+0283456857	Active		842079576		management consulting s
3Com Research	US	(415) 329-6500	Active	www.3com.com	099956906		manufactured hardware (
9 Telecom	France	+33155206242	Active				
AMCO Communications	Chicago, IL	(847) 491-2300	Active	www.amco.net			steel pipe & tubes
Acer America, Inc.	San Jose, Ca	(408) 922-2957	Current Customer	www.acer.com			
Acer Stores	Clayton	(925) 745-2000	Active	www.acerstore			
Aegis	Warehouse		Active				
Air France	France	+33141567800	Active				

Marriott International HQ

Menu | New | Delete | Query

Account Name: Marriott International H Site: HQ Account Team

Address: 10400 Fernwood Ro. Address Line 2: Main Phone #

City: Bethesda State: MD Main Fax #

Zip Code: 20817 Country: USA URL

Home Accounts Contacts Cases Solutions Reports Dashboards Documents Links Demos Opportunities +

Search Search All Go

Limit to items I own Advanced Search

Create New...

Recent Items

- Edge Emergency Generator
- Jason Venable
- Electrical wiring installation for GC-5060
- Jason Venable
- Edge Communications
- Sliser
- Link-5000000
- Link-5000002
- Link-5000001
- Demos Site Guest User

Recycle Bin

Opportunity **Edge Emergency Generator**

Back to List: Dashboards

Products (Standard) | Open Activities | Activity History | Notes & Attachments | Contact Roles | Partners | Competitors | Stage History

Opportunity Detail

Opportunity Owner: Jason Venable (Change) Amount: \$275,000.00

Account Name: Edge Communications Close Date: 11/6/2007

Opportunity Name: Edge Emergency Generator Stage: Id. Decision Makers

Type: Existing Customer - Replacement Probability (%): 60%

Other Information

Description: Budget Low: \$262

Next Step: Budget High: \$789

Additional Information

Order Number: Main Competitor(s): John Deere, Mitsubishi, Hawkpower

Tracking Number: Delivery/Installation Status:

Custom Links: Delivery Status

System Information

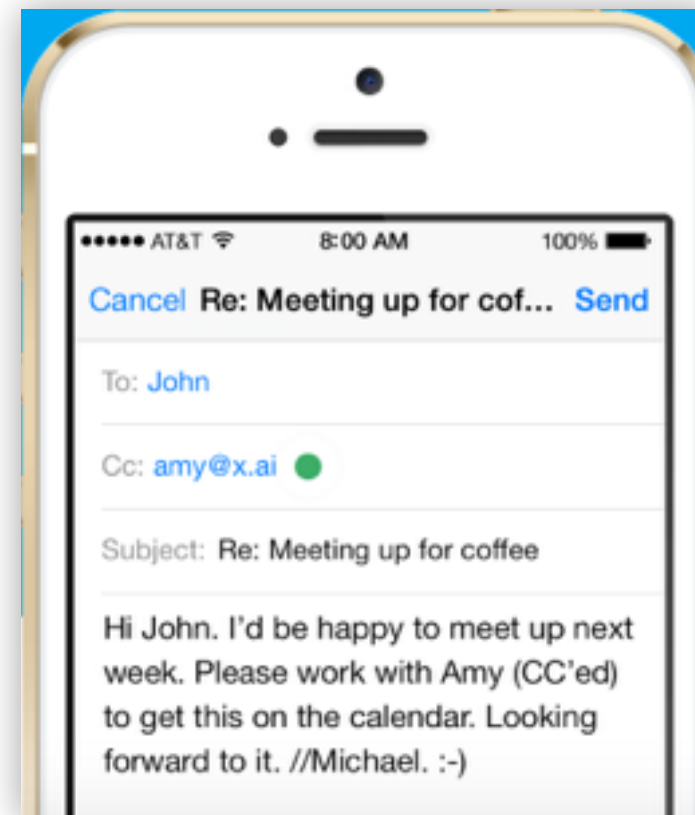
Created By: Jason Venable, 11/25/2009 3:08 PM Last Modified By: Jason Venable, 3/9/2010 10:51 PM

Products (Standard)

Add Product Edit All Choose Price Book Sort Start Workflow

Action	Product	Quantity	Sales Price	Date	Line Description	Start Workflow
[Edit] [Del]	GenVal Diesel 1000kW	1.00	\$100,000.00			
[Edit] [Del]	GenVal Diesel 200kW	1.00	\$25,000.00			
[Edit] [Del]	GenVal Gasoline 2000kW	1.00	\$150,000.00			

# Samantha (Her) vs. Amy (x.ai)





# Machine Intelligence LANDSCAPE

## CORE TECHNOLOGIES

### ARTIFICIAL INTELLIGENCE



### DEEP LEARNING



### MACHINE LEARNING



### NLP PLATFORMS



### PREDICTIVE APIS



### IMAGE RECOGNITION



### SPEECH RECOGNITION



## RETHINKING ENTERPRISE

### SALES



### SECURITY / AUTHENTICATION



### FRAUD DETECTION



### HR / RECRUITING



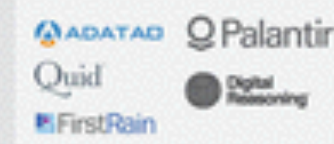
### MARKETING



### PERSONAL ASSISTANT



### INTELLIGENCE TOOLS



## RETHINKING INDUSTRIES

### ADTECH



### AGRICULTURE



### EDUCATION



### FINANCE



### LEGAL



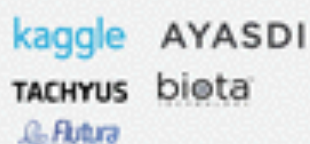
### MANUFACTURING



### MEDICAL



### OIL AND GAS



### MEDIA / CONTENT



### CONSUMER FINANCE



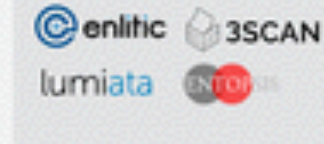
### PHILANTHROPIES



### AUTOMOTIVE



### DIAGNOSTICS



### RETAIL

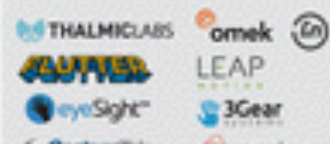


## RETHINKING HUMANS / HCI

### AUGMENTED REALITY



### GESTURAL COMPUTING



### ROBOTICS



### EMOTIONAL RECOGNITION



## SUPPORTING TECHNOLOGIES

### HARDWARE



### DATA PREP



### DATA COLLECTION







**The future of global,  
trustless transactions on  
the largest graph:  
blockchain**

Olaf Carlson-Wee



# Questions