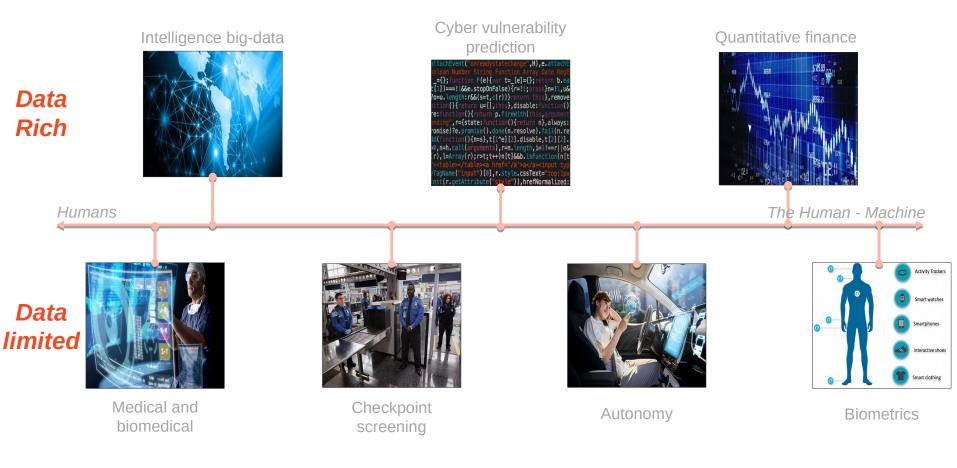
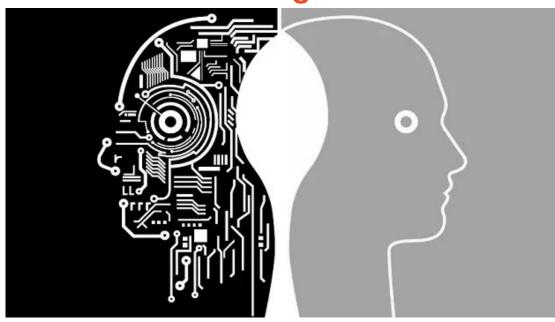
## **Machine Intelligence at Draper**

# Creating New Technologies, To Better Understand Humans and to Better Humans



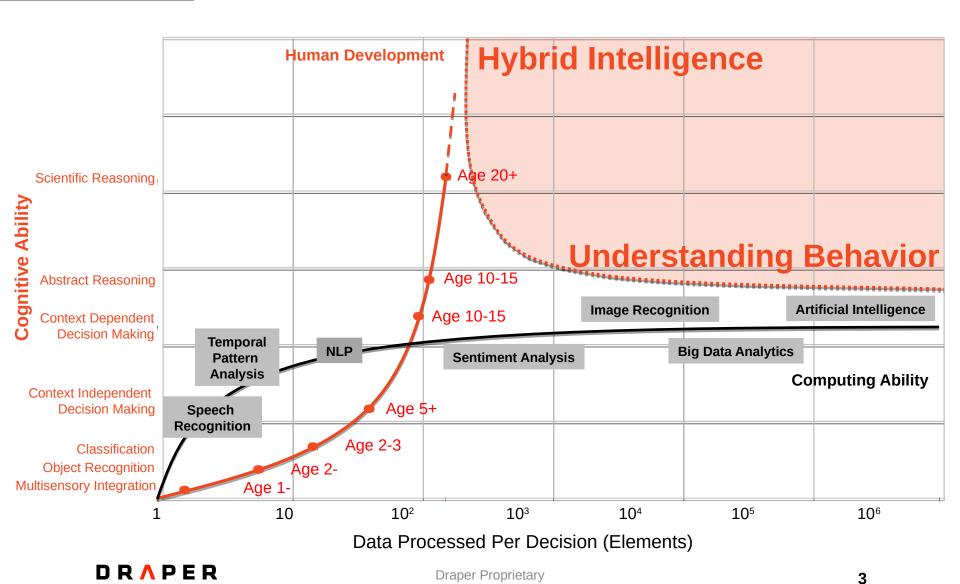
## A Focused Set of Core Technologies

### **Understanding Behavior**

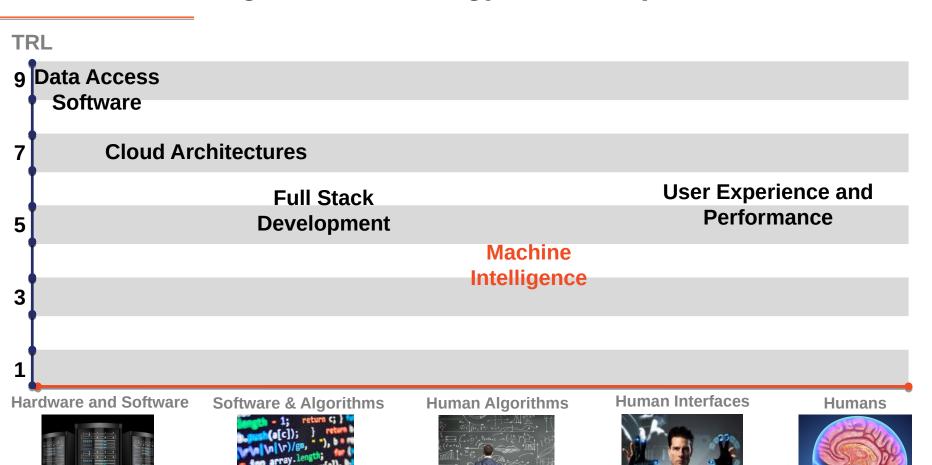


**Hybrid Intelligence** 

### **Machine Intelligence at Draper**



#### **Traversing the Technology Landscape**





### **Humans Analytics**





#### **Advanced Screening Research**

- Humans perform no better than chance at identifying threats
- Uses non-contact biometrics to identify deception
- 85%+ detection accuracy

#### **Biomedical Data Analytics**

- Predicting Alzheimer's disease progression
- Automating image processing for high-throughput experiments
- Deep learning for cancer diagnostics

### **Hybrid Intelligence**



#### **Commercial satellite image analysis**

- Automatically identify subtle changes or major disaster areas
- See through water and fog
- Predict earthquake prone areas



#### More data = more headaches

- We're producing lots of data, not enough people to analyze it
- Pure machines lack the analytic ability to understand data
- Turning the analytic process into a game