



# ARTIFICIAL INTELLIGENCE OPPORTUNITY AND CHALLENGES

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# ARTIFICIAL INTELLIGENCE....HMM

MY HOME



MY MUSIC



MY MOVIES



MY FRIENDS



MY LOVE



MY INVESTMENTS



MY CAREER



MY HEALTH



MY TRAVEL



# ARTIFICIAL INTELLIGENCE OPPORTUNITY AND CHALLENGE

**AI** IS

**GOING TO  
IMPACT YOUR  
BUSINESS.  
YOU NEED TO  
DECIDE HOW YOU  
WILL ADAPT.**



A person's profile is visible on the right side of the image, looking at a tablet. The tablet screen displays a complex, colorful pattern of red, green, and blue dots, representing genomic data. The background is a solid dark blue.

# **NEW BUSINESS MODELS** **LIFE SCIENCES**

# **80%**

**GREATER ACCURACY IN  
GENOME SEQUENCING USING  
DEEP LEARNING**






# **RETHINKING CORE OPERATIONS**

## **PAPER AND PULP MANUFACTURING**

**10%**  
**INCREASED YIELD (SAME LAND)**

# **OPTIMIZING BACK OFFICE: OIL AND GAS**

A large offshore oil rig is illuminated at night, with its complex structure of cranes and platforms glowing against a dark blue sky. The rig is situated in the middle of the ocean, with its reflection visible on the water's surface. To the left, a smaller structure with white and red storage tanks is partially visible.

**VIRTUAL AGENT TO  
HANDLE INVOICE  
INQUIRIES FOR  
FINANCE &  
ACCOUNTING  
PROCURE-TO-PAY  
PROCESSING.**

# AI IN INSURANCE....



**Allstate.**

You're in good hands.

**ABLe – THE  
INTELLIGENT  
ASSISTANT**



**WEARABLES  
WITH AI FOR  
HUMAN SAFETY**



**ZURICH**

**AI-BASED  
CLAIMS  
HANDLING**



**Swiss Re**

**AI-BASED  
UNDERWRITING**



**MEIJI YASUDA**

**ROBOTS  
SELLING LIFE  
INSURANCE**

*metromile*

*Lemonade*

**l•hippo**



# QUICK POLL

**PLEASE TEXT FACI TO 22333 ONCE TO JOIN, THEN TEXT A, B OR C TO RESPOND FOR THE BELOW QUESTION**

**Q.1 How comfortable would you be in taking Insurance-related advise from an AI-based Robot instead of a Human Agent?**

**A. Prefer AI-based Robot**

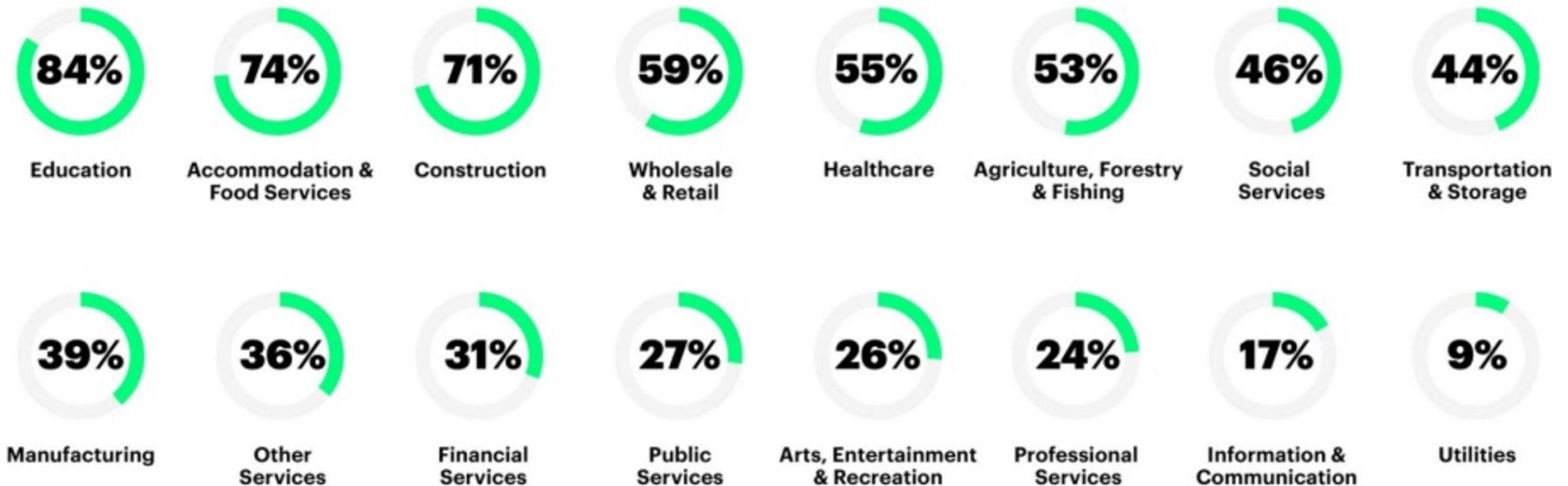
**B. Prefer Human Agent**

**C. Indifferent**



# PROJECTED IMPACT OF AI

## AI HELPS UNLOCK TRAPPED VALUE AND WILL MARKEDLY INCREASE INDUSTRY SHARE OF PROFIT



Share-of-profit increase per industry between baseline in 2035 and AI steady state in 2035 in %, **Source:** Accenture and Frontier Economics.

# ACCENTURE RESEARCH

## ARTIFICIAL INTELLIGENCE: THE FUTURE OF GROWTH

### 3 GROWTH ACCELERATORS:



**Intelligent  
Automation**



**Labor and Capital  
Augmentation**



**Innovation  
Diffusion**

# QUICK POLL

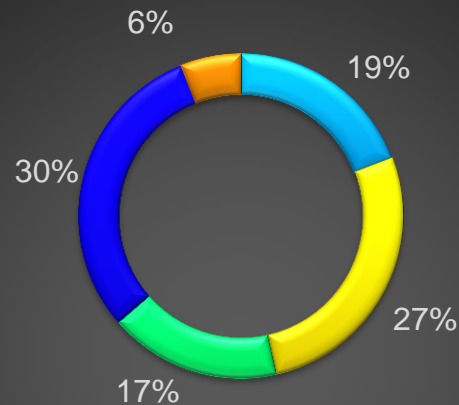
**PLEASE TEXT FACI TO 22333 ONCE TO JOIN, THEN TEXT A, B, C OR D TO RESPOND FOR THE BELOW QUESTION**

**Q.2 How much incremental growth impact do you believe Artificial Intelligence (AI) will have on Insurance industry in North America in the next 5 years**

- A. Highly Positive**
- B. Negligible**
- C. Highly Negative**
- D. Uncertain**

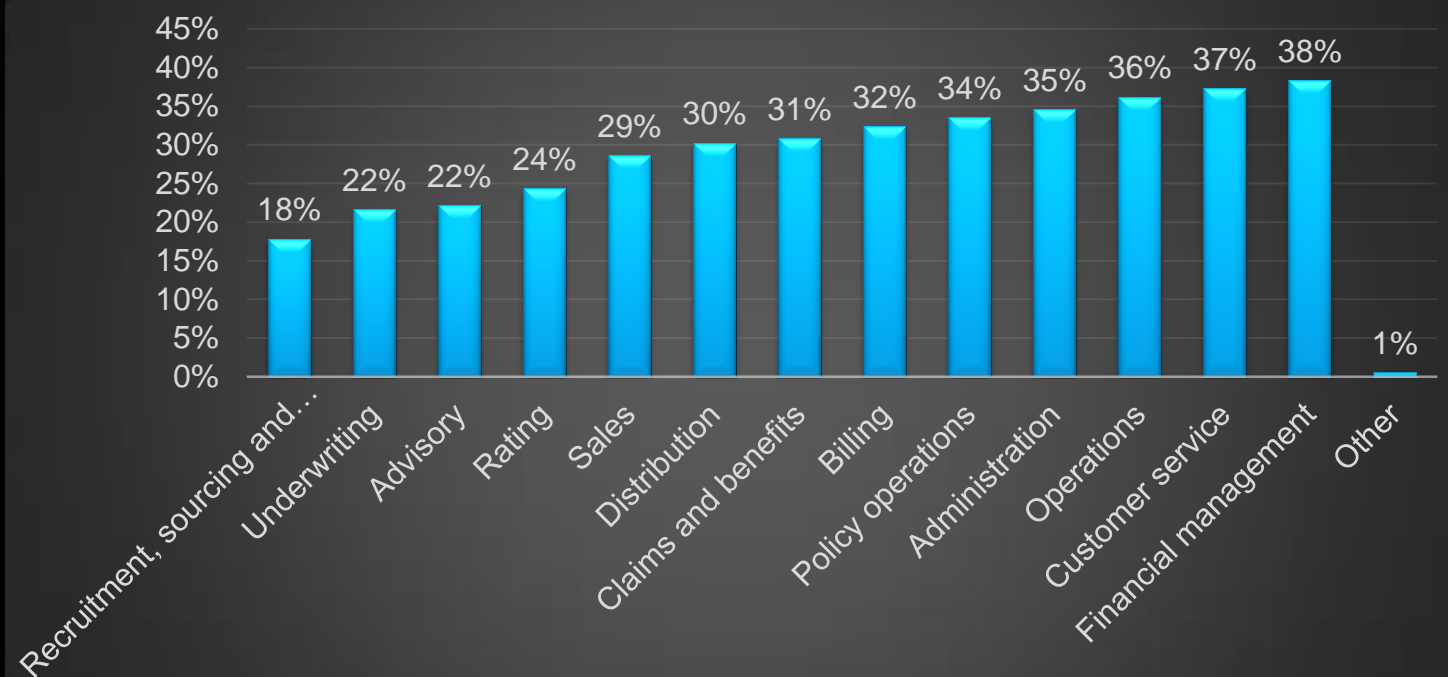
# AI (MACHINE LEARNING) USAGE IN INSURANCE

## INSURERS USING ML



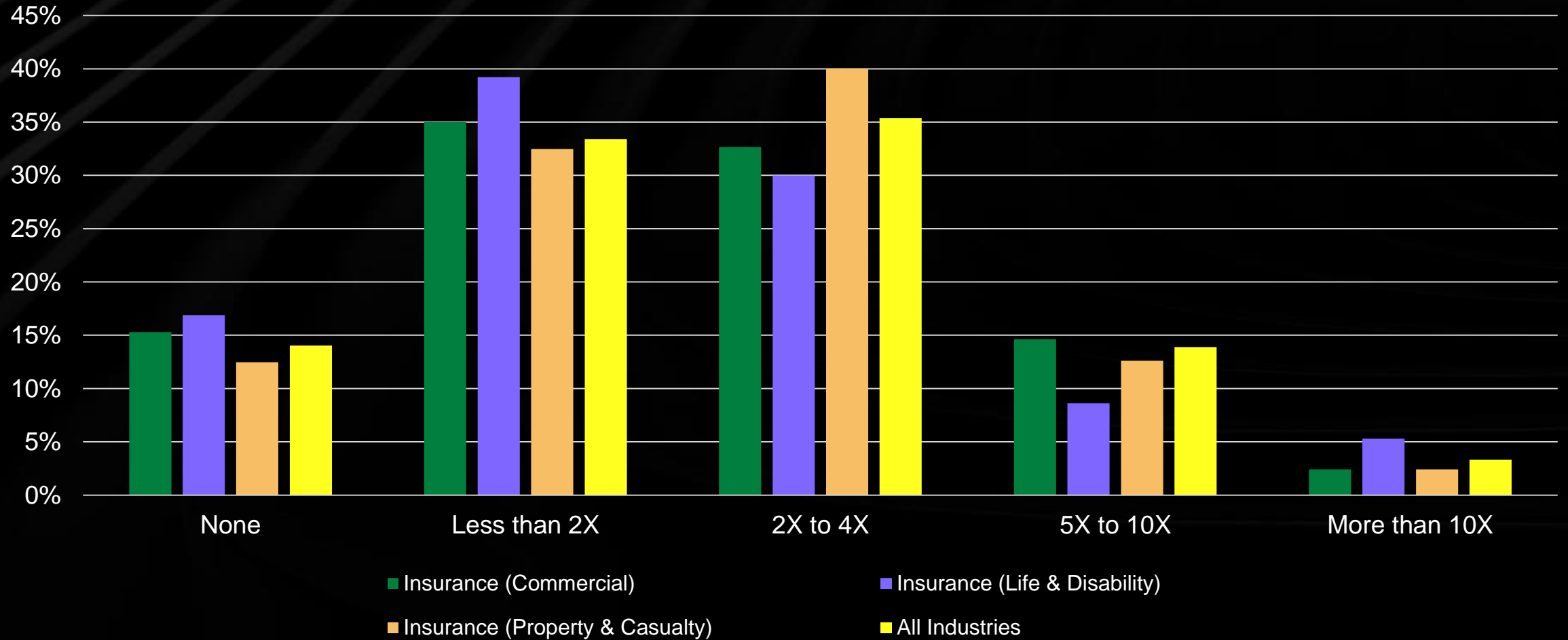
- Investigating
- Piloting or experimenting
- Used in one business process
- Used in more than one business process
- Used across the value chain

## WHICH PROCESSES



SOURCE: Accenture Study on Machine Learning Enabled Processes (2017)

# AI-BASED PERFORMANCE IMPROVEMENT



SOURCE: Accenture Study on Machine Learning Enabled Processes (2017)



**WITH AI,  
GREAT  
OPPORTUNITY  
PRESENTS  
EVEN  
GREATER  
RESPONSIBILITY.**



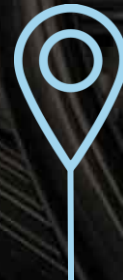
# LEADERS WANT TO KNOW



## GOVERNMENT

Is AI being deployed for  
“Societal Good” OR “Job  
Loss”?

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## REGULATORS

Is AI compliant with  
regulations like GDPR?

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## BUSINESS

AI’s possible “unintended  
consequences” like Brand  
and PR impact?

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# RESPONSIBLE AI WILL ENABLE AI TO FLOURISH

## RESPONSIBLE AI DRIVERS



Governance,  
accountability



Honesty,  
transparency,  
fairness



Stewardship,  
reskilling



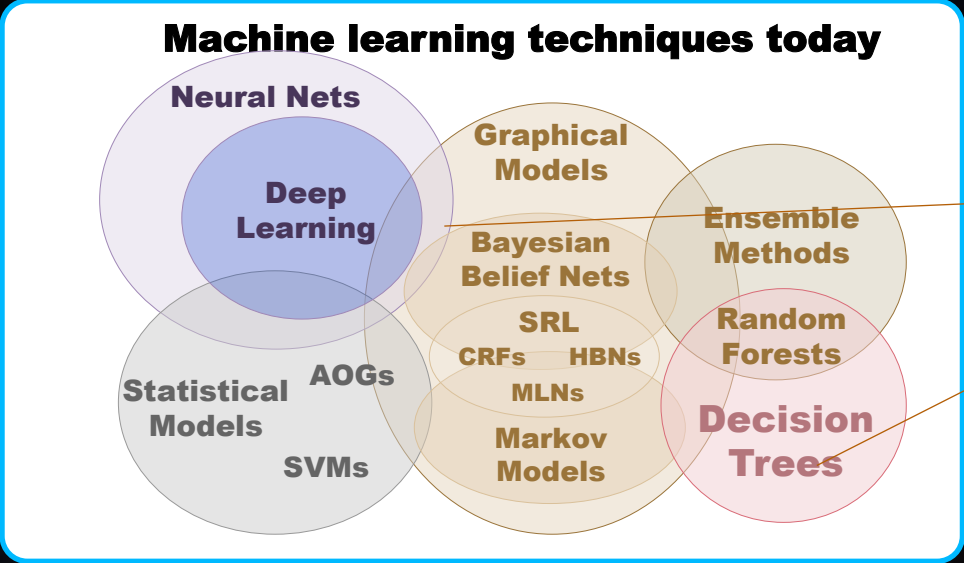
Security

ESTABLISH TRUST

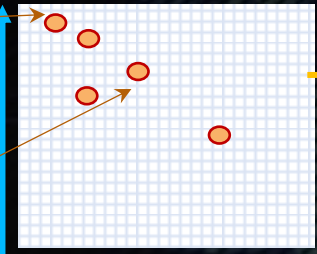


# CHALLENGES WITH AI

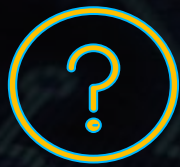
## Limitations of Machine Learning – Blackbox / Opaqueness



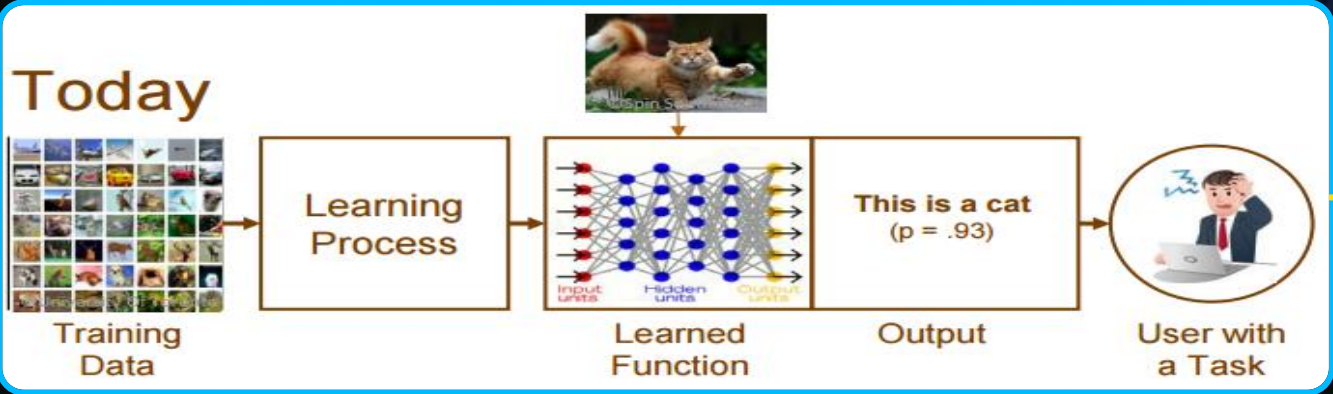
Prediction Accuracy



Explainability



- Why did you do that?
- Why not something else?
- How do I correct an error?
- How do you unlearn?



# QUICK POLL

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**Q.3 Many AI systems operate as "Black Box". For key decisions (e.g. pricing/underwriting) if you had to pick between "Superior AI-based decisions" and "Transparency of Decision-making criteria", what would you pick?**

**A. Superior Decisioning**

**B. Transparency/Explanability**

**C. Uncertain**



# RESPONSIBLE AI FOR INSURANCE: SELECT CONSIDERATIONS



PRICING FOR PAST OR PREDICTED FUTURE



TELEMATICS/IOT/WEARABLES – SAFETY VS PRIVACY



INHERENT BIAS – HUMAN VS AI-ADVISOR



AI-BASED CLAIMS HANDLING – LOWER COST VS TRANSPARENCY



RISK TRANSFER/COVERAGE CONTRACT – WHO IS LIABLE

**HUMANS LIVING WITH ROBOTS/AI – WHO WILL INSURE WHO?**

# WITH RESPONSIBLE AI, WHAT COULD TOMORROW LOOK LIKE?

	FROM	TO
INTERACTION	Human to Human	Human-to-Robot   Robot-to-Robot Human - Robot - Human
PRIVACY	Right to Information	Right to Explanation
COMPLIANCE	Reactive	Predictive
DATA	Ancillary	Lifeblood for Enterprise
REGULATION	Policy Construct & Price	Broad Advocacy across Eco-Systems

AI FEARED

AI ARCHITECTED WITH VALUE  
SYSTEM

# QUICK POLL

**PLEASE TEXT FACI TO 22333 ONCE TO JOIN, THEN TEXT A, B, C OR D TO RESPOND FOR THE BELOW QUESTION**

**Q.4 Do you believe that solving for "Black Box" nature of AI, to create more value from AI, is something that is better addressed by the following:**

**A. Individual Insurance Companies**

**B. Industry Consortium**

**C. Regulators (with inputs from Insurance Companies)**

**D. Outside the Insurance Industry Ecosystem (e.g. Academia)**

# THANK YOU

accenture

