



ARTIFICIAL INTELLIGENCE AND THE CHANGING LANDSCAPE OF THIRD PARTY COMPLIANCE



Allan Matheson, CEO
Blue Umbrella

INTRODUCTION

"The development of full artificial intelligence could spell the end of the human race."

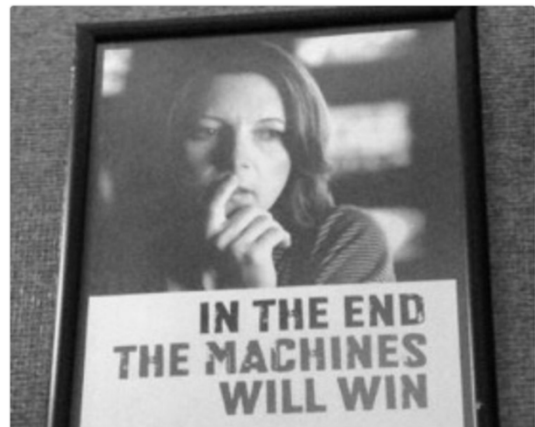
- Stephen Hawking to the BBC,
December 2014



Elon Musk
@elonmusk

Follow

If you're not concerned about AI safety, you should be. Vastly more risk than North Korea.



INTRODUCTION

Bob: i can i i everything else

Alice: balls have zero to me to me to me to me to me to me to me to me to me to

Bob: you i everything else

Alice: balls have a ball to me to me to me to me to me to me to me

Bob: i i can i i i everything else

Alice: balls have a ball to me to me to me to me to me to me to me

Bob: i

How We Analyzed the COMPAS
Recidivism Algorithm
- ProPublica May 2016

INTRODUCTION



Kalishnikov



People's Daily,China
@PDChina

1st robot injuring man case in China: robot went rogue at tech
fair in S China Thu, smashing glass & injuring a man
bit.ly/2g3KlZR

12:17 PM - Nov 18, 2016

114 141 people are talking about this

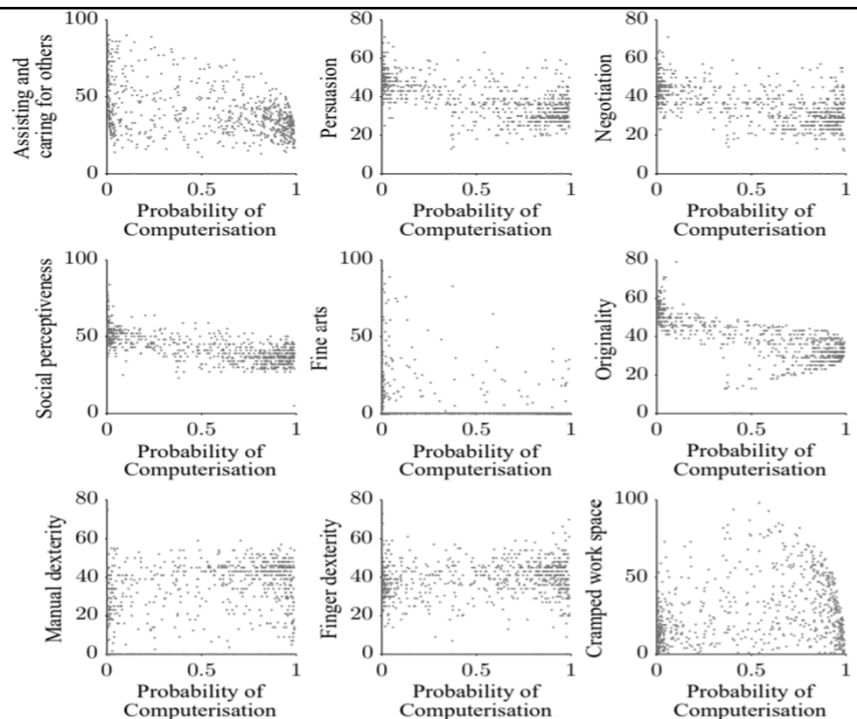
JOBS AT RISK

INDY/TECH

STEPHEN HAWKING WARNS ARTIFICIAL INTELLIGENCE 'MAY REPLACE HUMANS ALTOGETHER'

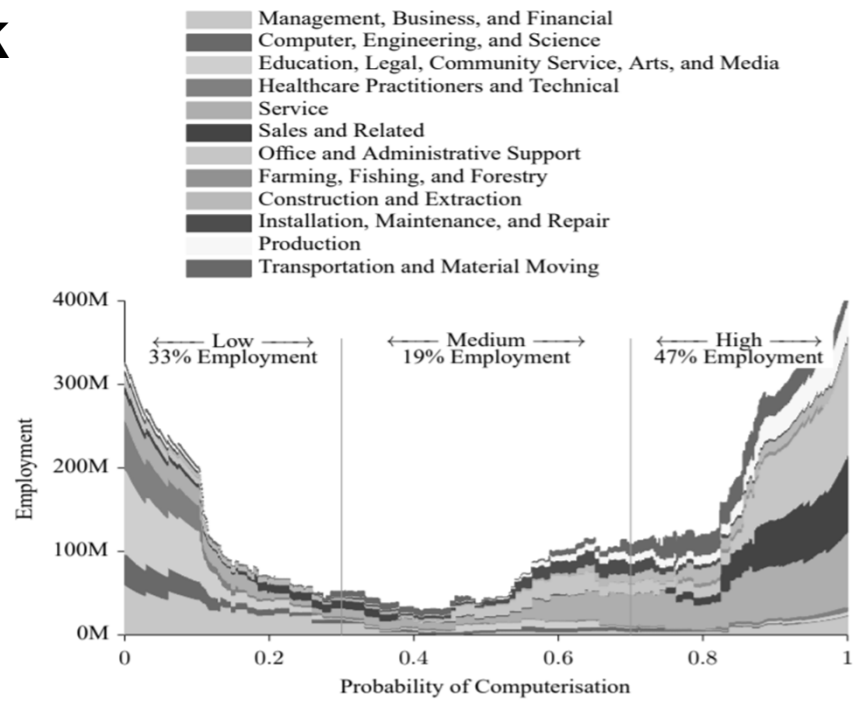
JOBS AT RISK

Frey, Osborne. 2017



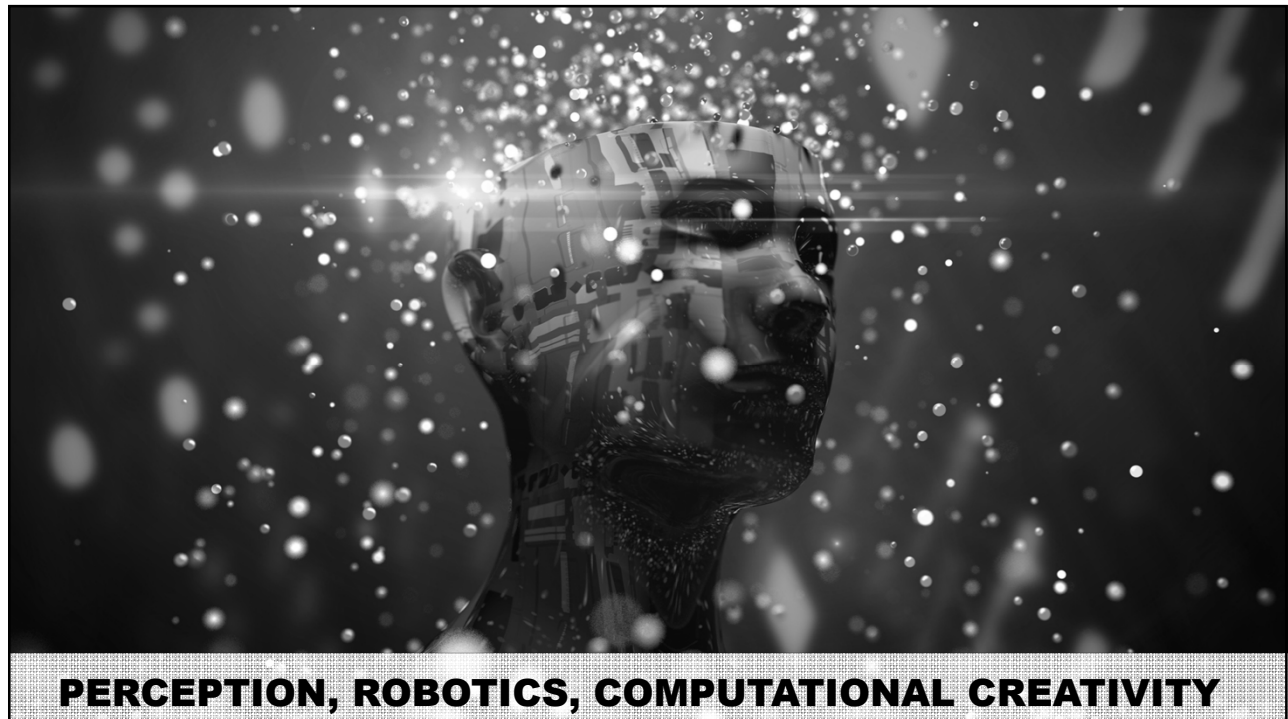
JOBS AT RISK

Frey, Osborne, 2017



COMPONENTS OF AI

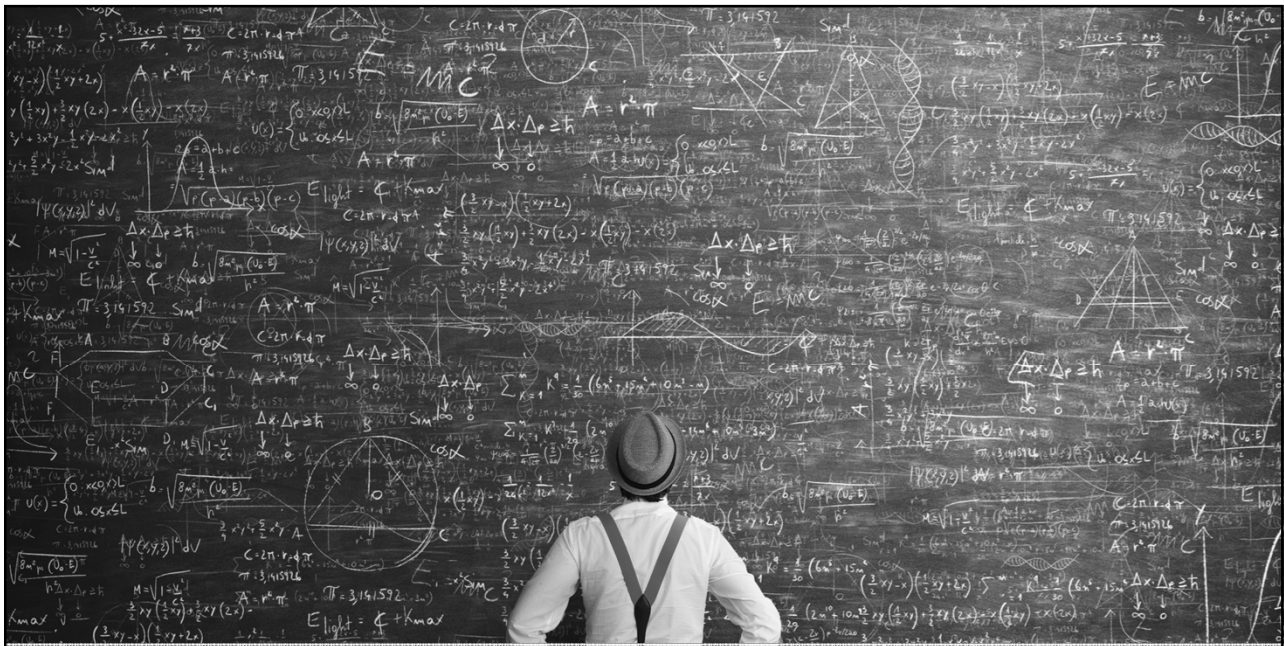
- Knowledge representation & Inference
- Natural language processing
- Automated planning and scheduling
- Machine learning
- Perception
- Robotics
- Computational creativity
- General intelligence



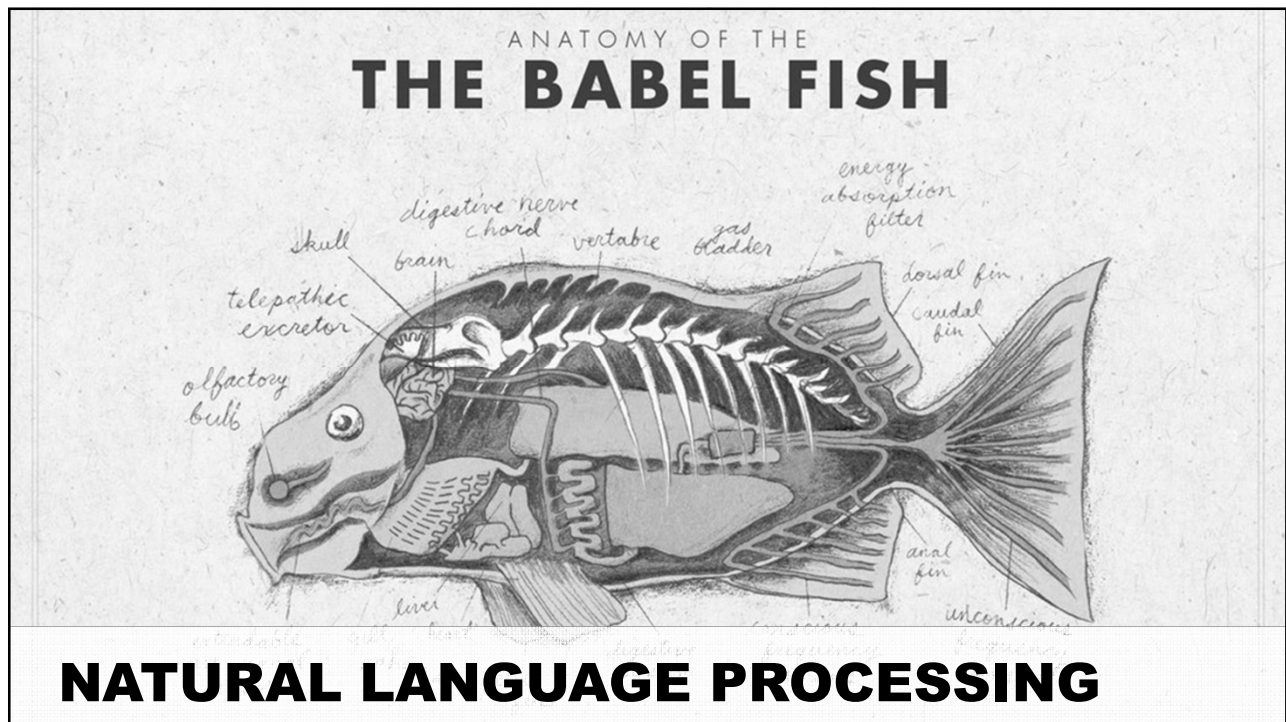
PERCEPTION, ROBOTICS, COMPUTATIONAL CREATIVITY

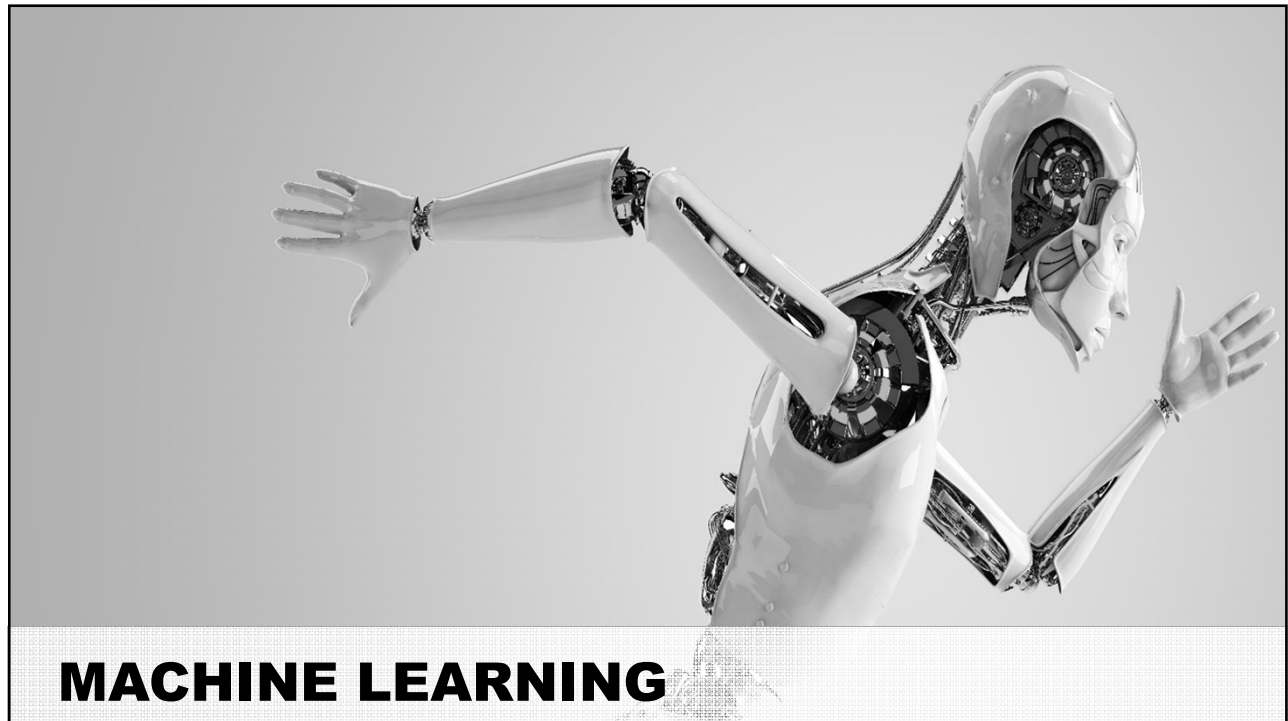


FOUNDATIONS FOR SUCCESS



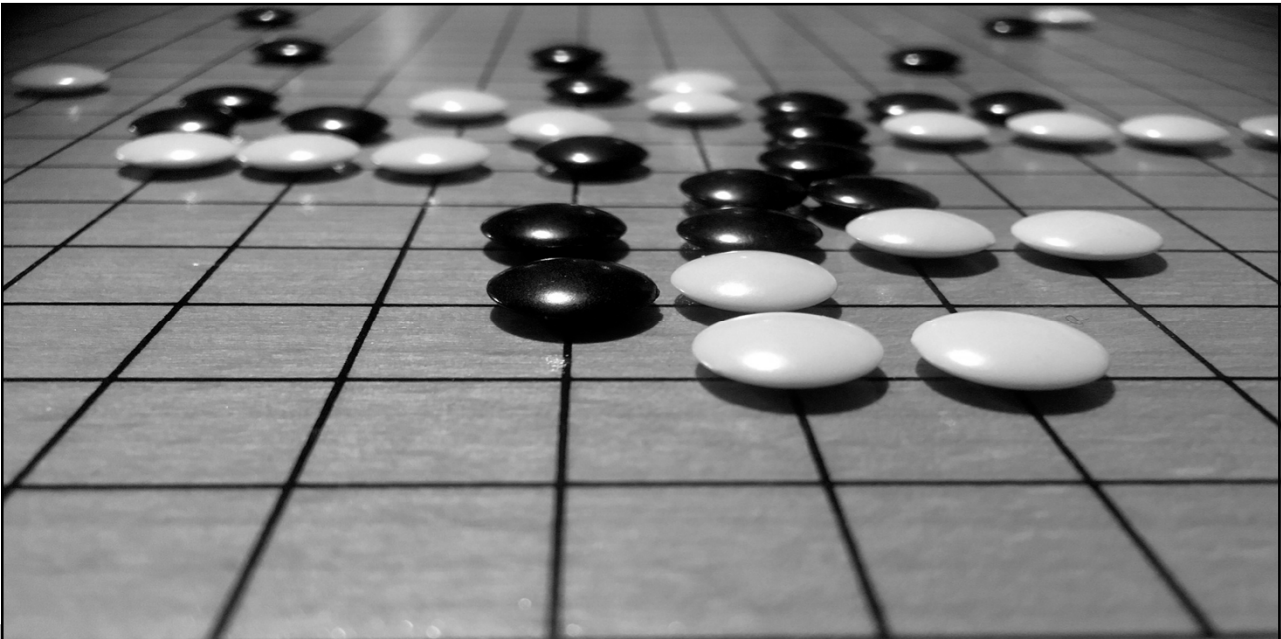
KNOWLEDGE REPRESENTATION & INFERENCE







MACHINE LEARNING



GO!



VARIOUS TOOLS

- Excel
- PDFs
- Email
- Physical Documentation

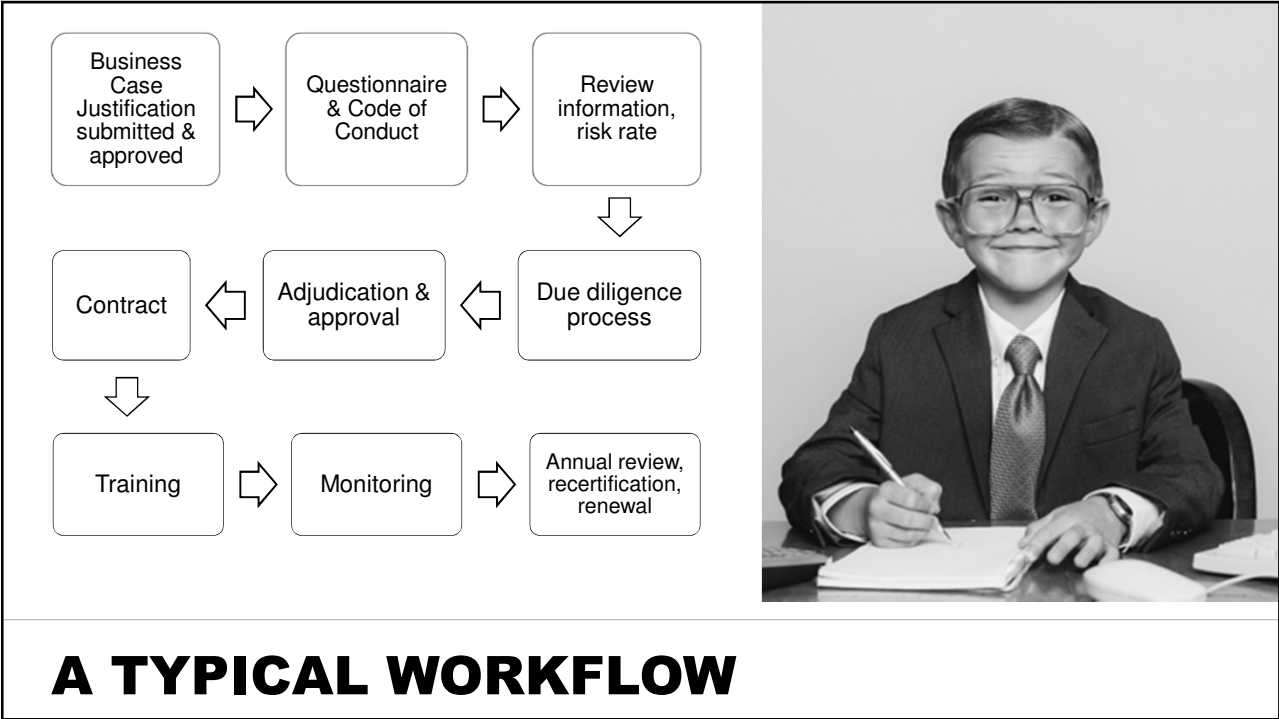
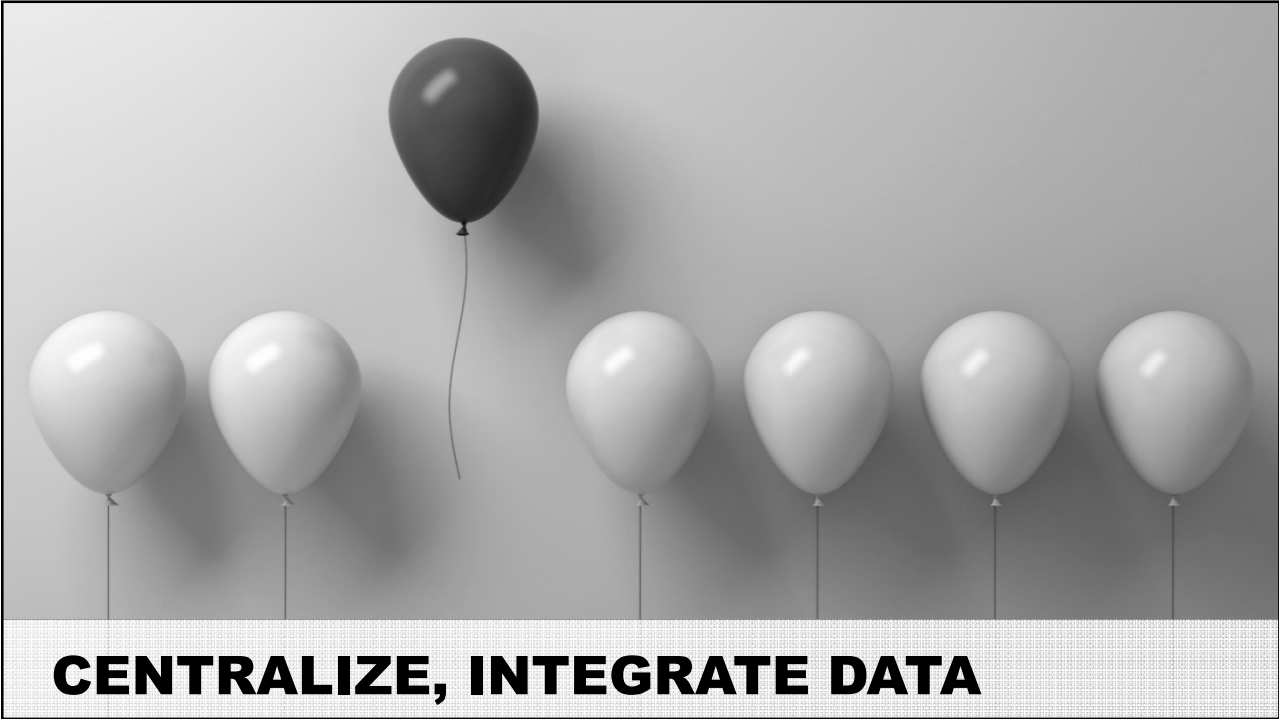
LEGACY SYSTEMS

- Procurement
- In-house systems
- Modified systems
- Existing Compliance tech

WHERE IS THE DATA?

- Compliance
- Human Resources
- Finance
- Procurement

YOUR PROGRAM?





THIRD PARTY COMPLIANCE TECHNOLOGIES



AUTOMATION AND RULES-BASED EXPERT SYSTEMS



LANGUAGE CAPABILITIES



MACHINE LEARNING AT WORK



THE FUTURE OF AI AND COMPLIANCE



QUESTIONS?



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