

CAPTIVE
INNOVATIONS
Thinking Differently

2023

Artificial Intelligence – A Beginning Understanding and Impact of AI on Insurance and Risk Management

Panel Moderator: Ward Ching, Aon and USC

Loren Nickel, Alphabet - Google

Eric Boyum, Aon Technology

Daniel Serota, Director Of Government Relations, Aon

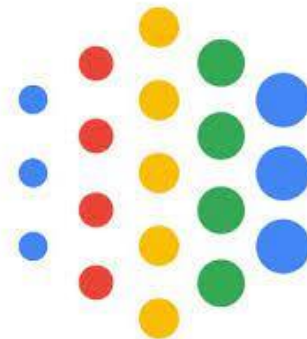
SESSION DESCRIPTION

Unanticipated Emergent Properties, Systems Hallucinations, Synthetic and Sentient Machine/Human Interface, META AI, ChatGBT, are terms we are now beginning to understand associated with AI.

This panel will treat what is AI, how is it being used, what are the Risk Management Implications and how we should be thinking about this new and disruptive technology.

This disruptive technology is growing and "learning" at a rapid pace. What does it mean to you?

Buckle Up!





“Human-AI partnership can help solve society’s challenges.”

Satya Nadella, CEO, Microsoft

“These tools will help us become more productive, healthier, smarter and more entertained.”

Sam Altman, CEO, OpenAI

“AI will have a more profound impact on humanity than fire, electricity and the Internet.”

Sundar Pichai, CEO, Alphabet

“AI has tremendous potential to boost productivity and may ultimately be the technology that can tamp down inflation.”

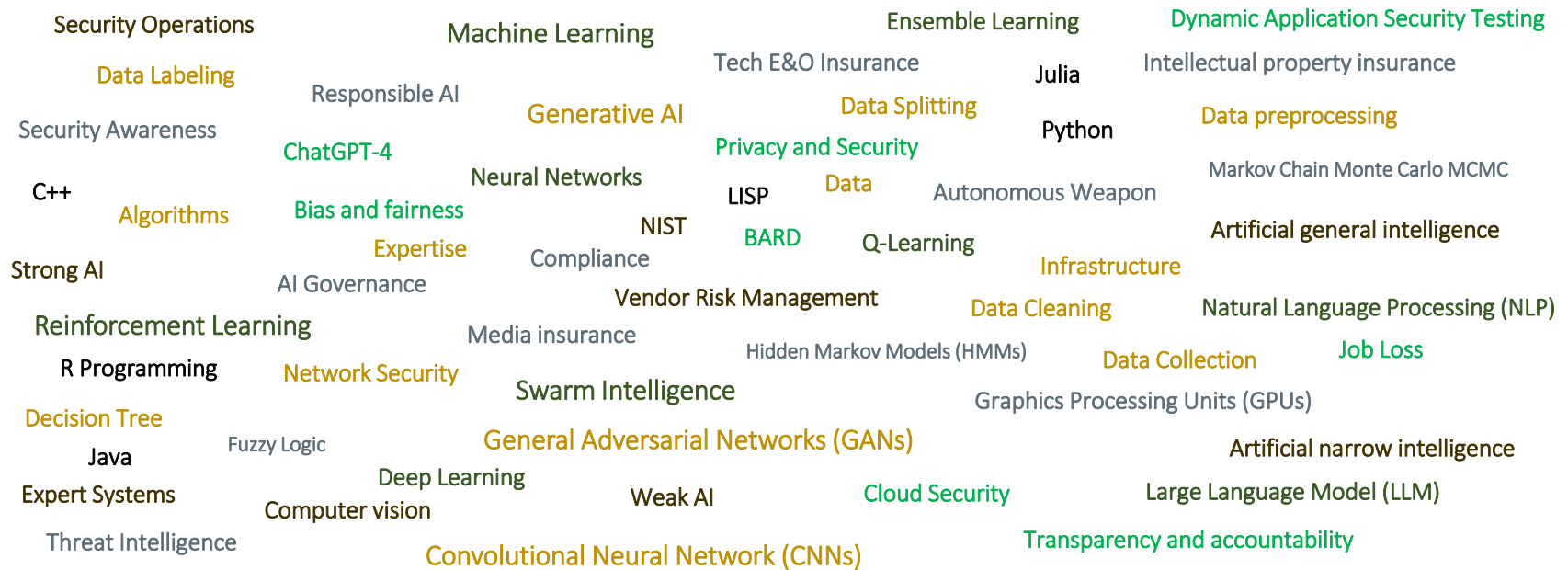
Larry Fink, CEO, BlackRock

Understanding Artificial Intelligence

There are several components and concepts that comprise the Artificial Intelligence sphere



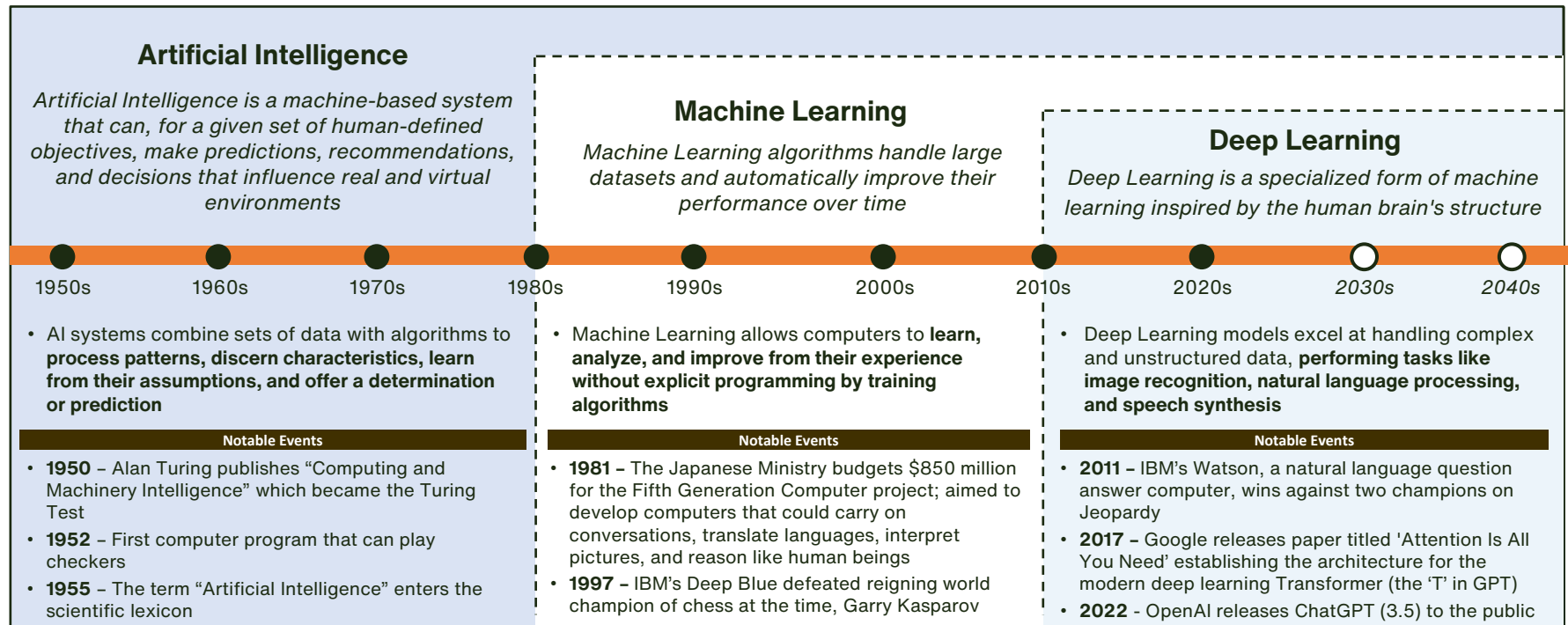
Given the technology utilizing Artificial Intelligence (AI) can be, and often is, highly technical and complex, companies are actively focused on implementing policies & strategy around the usage of AI to ensure effective & secure usage of AI solutions



Source(s): STG Analysis, Third-Party Research

What is AI and how has it evolved?

Artificial Intelligence has become more sophisticated over time with the development of machine learning and deep learning, allowing it to deliver innovative solutions and transformative outcomes

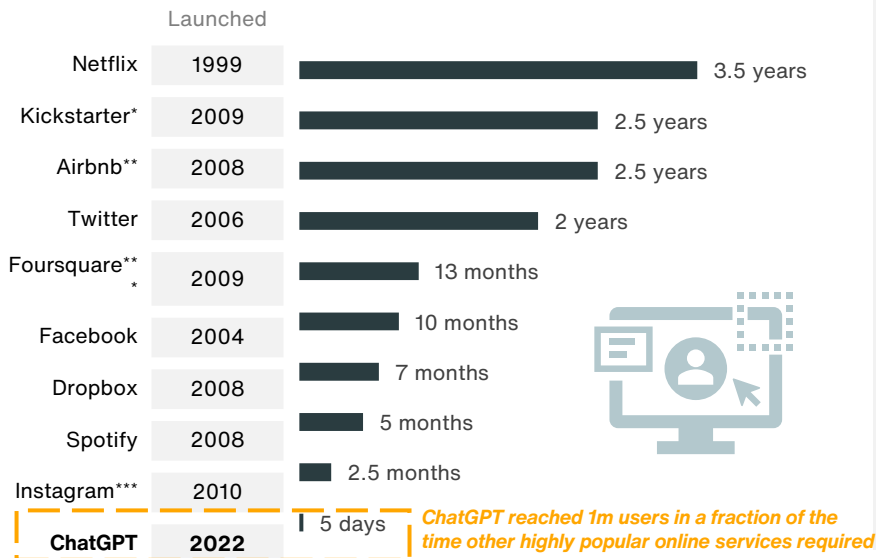


AI's rapid adoption

Utilization of AI technology, such as ChatGPT, has significantly outpaced historical usage rates seen by other prolific online technologies & services – however, this has brought about a number of challenges that must be addressed

Usage of AI technology has increased at an unprecedented rate relative to other major online services/technologies...

Time Required for Selected Online Services to Reach 1m Users



*One million backers
 **One million nights booked
 ***One million downloads

...which has resulted in major risks and challenges for users in a world where AI technology is rapidly evolving

Recent Headlines Stemming from AI Technology Usage



Doe v. Microsoft CoPilot/GitHub and OpenAI over AI copyright code



Use of ChatGPT in Federal Litigation Holds Lessons for Lawyers
(potential sanctions after submission of six nonexistent cases)



Samsung Employees Committed Major Error in ChatGPT Usage
(internal meeting notes & source code entered into ChatGPT)

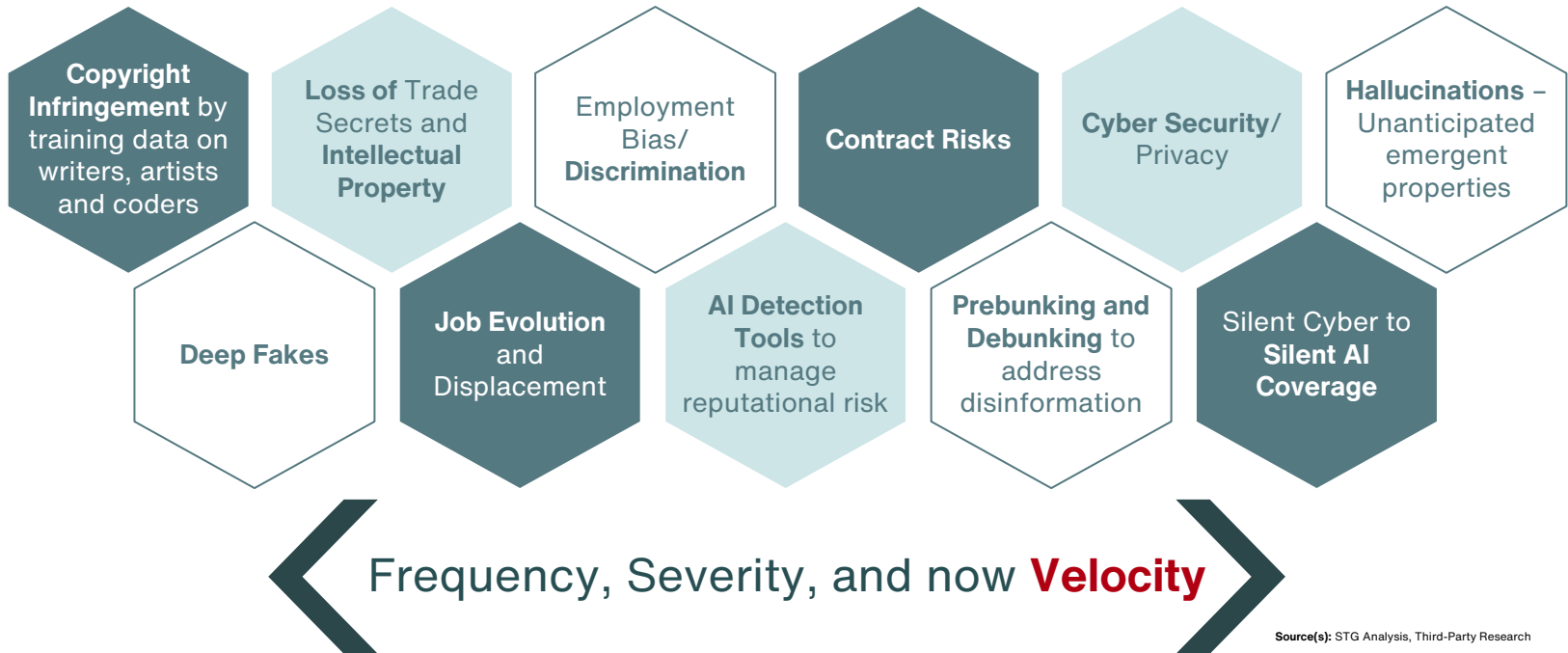
Radio Host Sues OpenAI for Defamation Over ChatGPT

Source(s): Company Announcements via Business Insider/LinkedIn, Third-Party Research

State of the AI Environment

Regulatory and Enterprise Risk Management frameworks are being proposed to address emerging risks and developing areas for potential litigation

Developing Areas of Litigation and Risks



Source(s): STG Analysis, Third-Party Research

Generative AI's inevitable penetration into the business sphere

Given the rapid increasing importance of AI, business leaders cannot afford to ignore the technology, as transformative innovation in the workplace will rely heavily on AI

← Artificial Intelligence is set to heavily alter our society and the way in which it functions →

"Generative artificial intelligence" is set to add up to **\$4.4 trillion of value** to the global economy annually

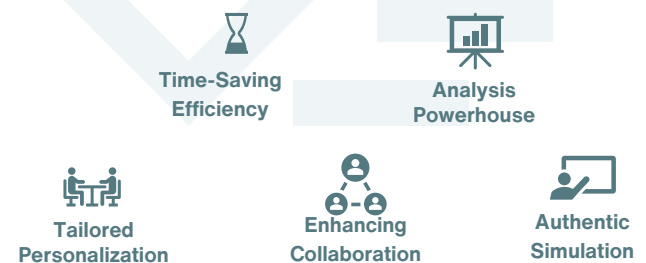
The A.I. Revolution Will Change Work. Nobody Agrees How. *The New York Times*

By 2025, the World Economic Forum predicts automation & technology will **displace 85m jobs** and **create 97m new roles**

The Economist

How AI could change computing, culture and the course of history

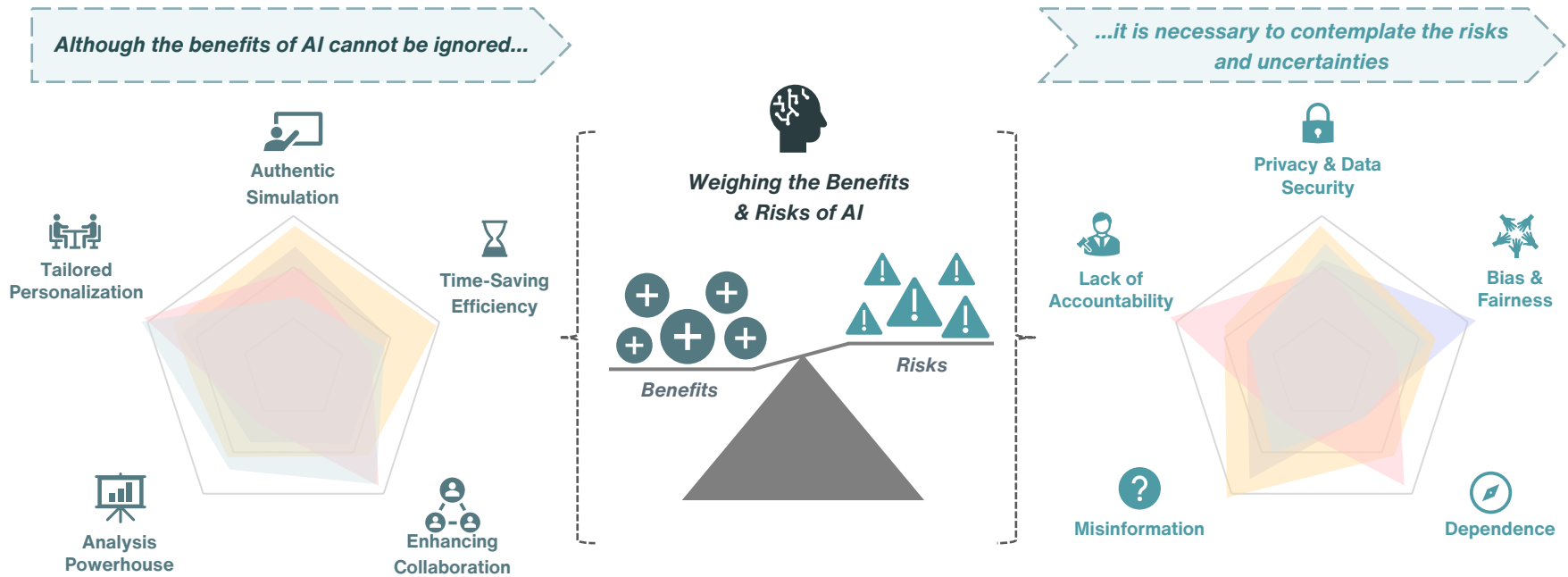
AI has established itself as a technology that is not only here to stay, but **will change the way society functions** – business leaders must begin to **embrace AI technology** to avoid being left behind



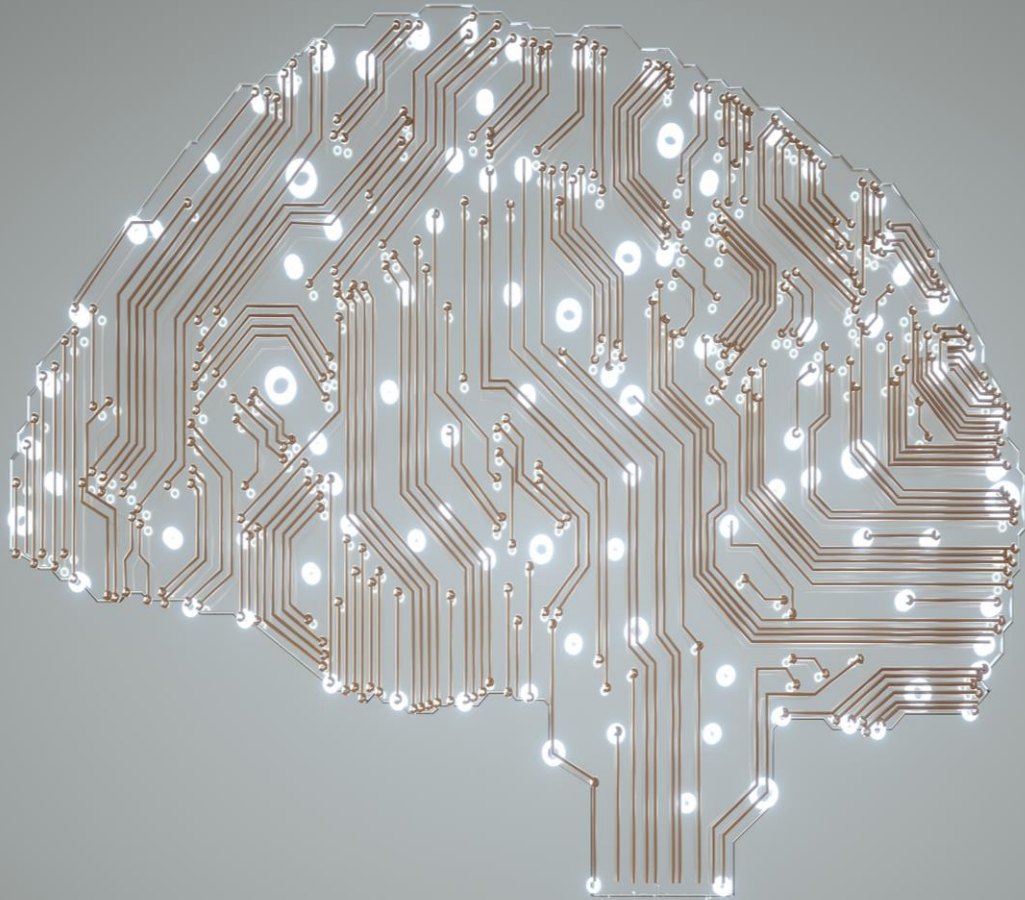
Source(s): STG Analysis, Third-Party Research

Benefits, risks, and uncertainties of Artificial Intelligence

If measures are put in place to mitigate the risks associated with AI, the benefits of the technology's development will ultimately outweigh the risks



Source(s): STG Analysis, Third-Party Research



**Pausing to
Catch Our
Breath....**

Unregulated use of AI may become a problem – **What does the Panel Think?**

BBC

AI 'godfather' Geoffrey Hinton warns of dangers as he quits Google

© 2 May - Comments

Government Policy And Regulation

Harvard Business Review

Who Is Going to Regulate AI?

by Blair Levin and Larry Downes

May 19, 2023

News | Babbage

Apr 26th 2023

The Economist

What to fear about generative AI—and what to do about it

Forbes

FORBES > INNOVATION > ENTERPRISE TECH

Should We Stop Developing AI For The Good Of Humanity?

May 3, 2023, 02:29am EDT

The New York Times

May 30, 2023

A.I. Poses 'Risk of Extinction,' Industry Leaders Warn

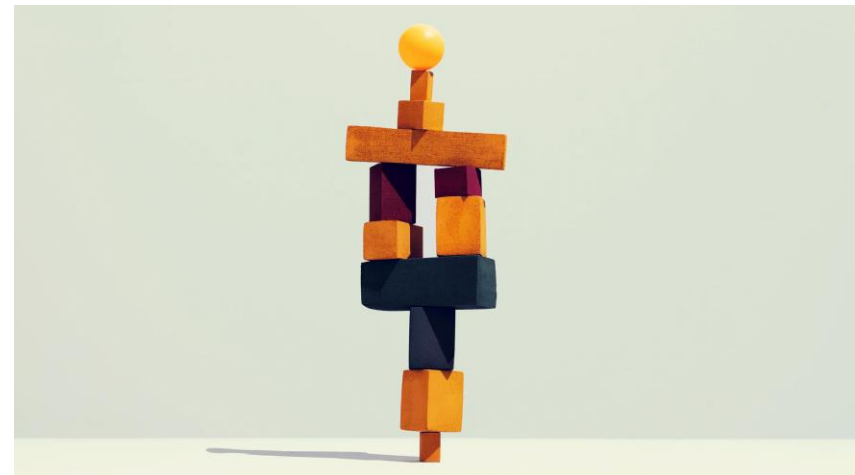
Leaders from OpenAI, Google DeepMind, Anthropic and other A.I. labs warn that future systems could be as deadly as pandemics and nuclear weapons.

TIME MARCH 29, 2023 6:01 PM EDT

Pausing AI Developments Isn't Enough. We Need to Shut it All Down

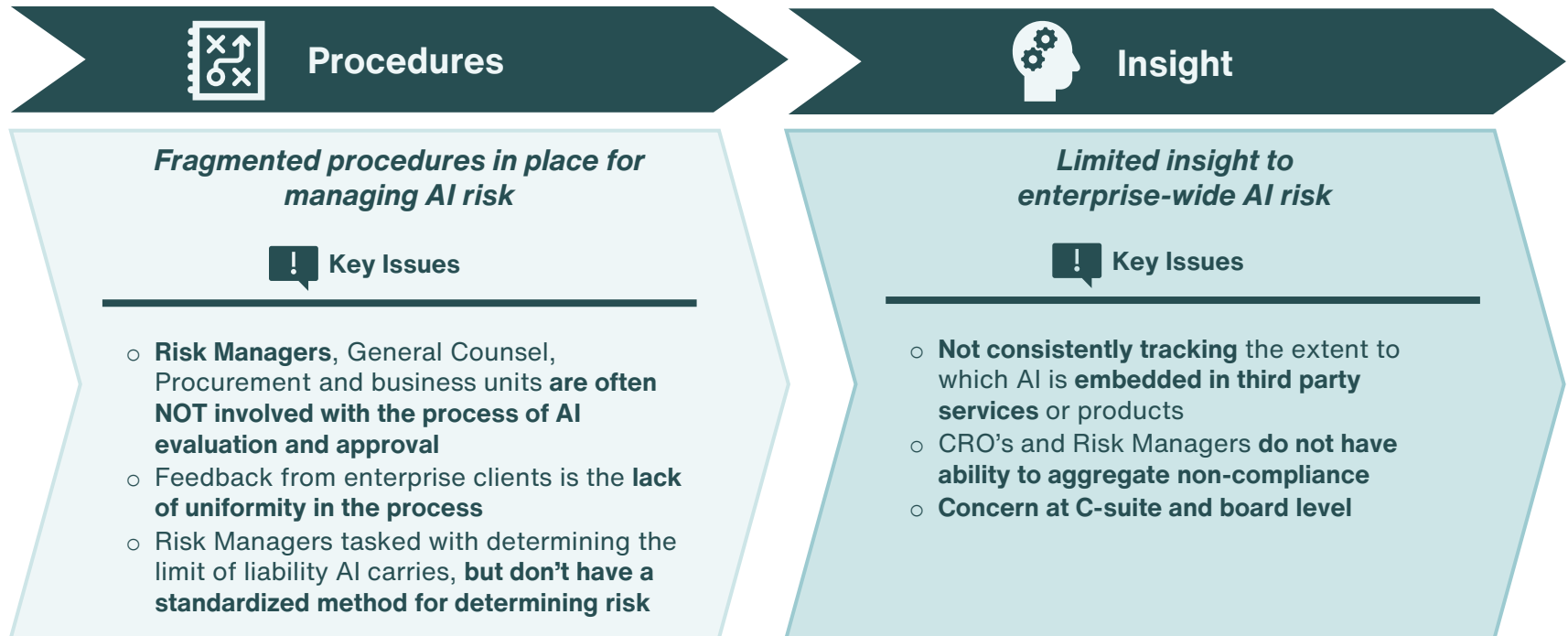
Elon Musk and other tech leaders call for pause in 'out of control' AI race

By Samantha Murphy Kelly, CNN Business
Updated 2:08 PM EDT, Wed March 29, 2023



Client feedback on the state of AI Risk Management

Client feedback has found fragmented procedures in place for managing AI risk as well as limited insight to enterprise-wide AI risk



Source(s): STG Analysis, Third-Party Research

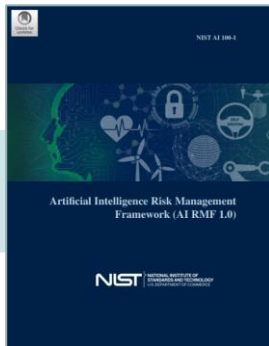
AI Risk Management Framework

The National Institute of Standards and Technology (US Department of Commerce) released an AI Risk Management Framework to address concerns around managing Artificial Intelligence risk



In collaboration with the private and public sectors, NIST has developed a framework to better manage risks to individuals, organizations, and society associated with artificial intelligence (AI)

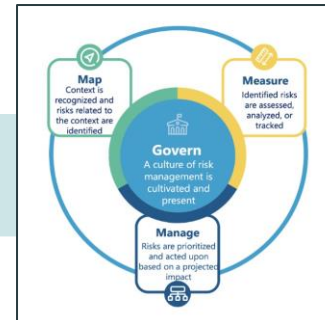
NIST AI Risk Management Framework



Description

Released on January 26, 2023, the NIST AI Risk Management Framework (AI RMF) is intended for voluntary use and to improve the ability to incorporate trustworthiness considerations into the design, development, use, and evaluation of AI products, services, and systems.

Trustworthy and Responsible AI Resource Center



Description

On March 30, NIST launched the Trustworthy and Responsible AI Resource Center, which will facilitate implementation of, and international alignment with, the AI RMF

How can organizations make better AI decisions?

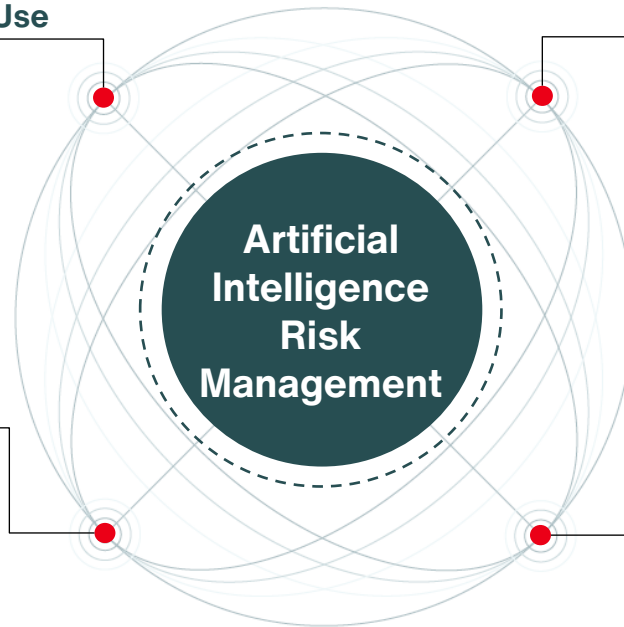
Although we are just starting the AI journey, we can leverage lessons learned from the rise of internet cyber risks and solutions, including Internet of Things' combinations of intangible and tangible perils and solutions

Identify, Access and Quantify AI Use

- Manage access to generative AI in accordance with your organization's policies
- Understand copyright ownership of AI-generated materials
- Use actuarial modelling
- Follow industry and AI trends

Transaction Solutions

- Mergers and acquisitions checklist
- Litigation protection
- Legal, claims and insurance review
 - Engage a qualified attorney, tax expert and accountant



Mitigate

- B2B contractual limitation of liability
- Vendor risk management
- Maintain human oversight
- Check deliverable before distribution
- Require NDA from recipients if you want trade secret protection

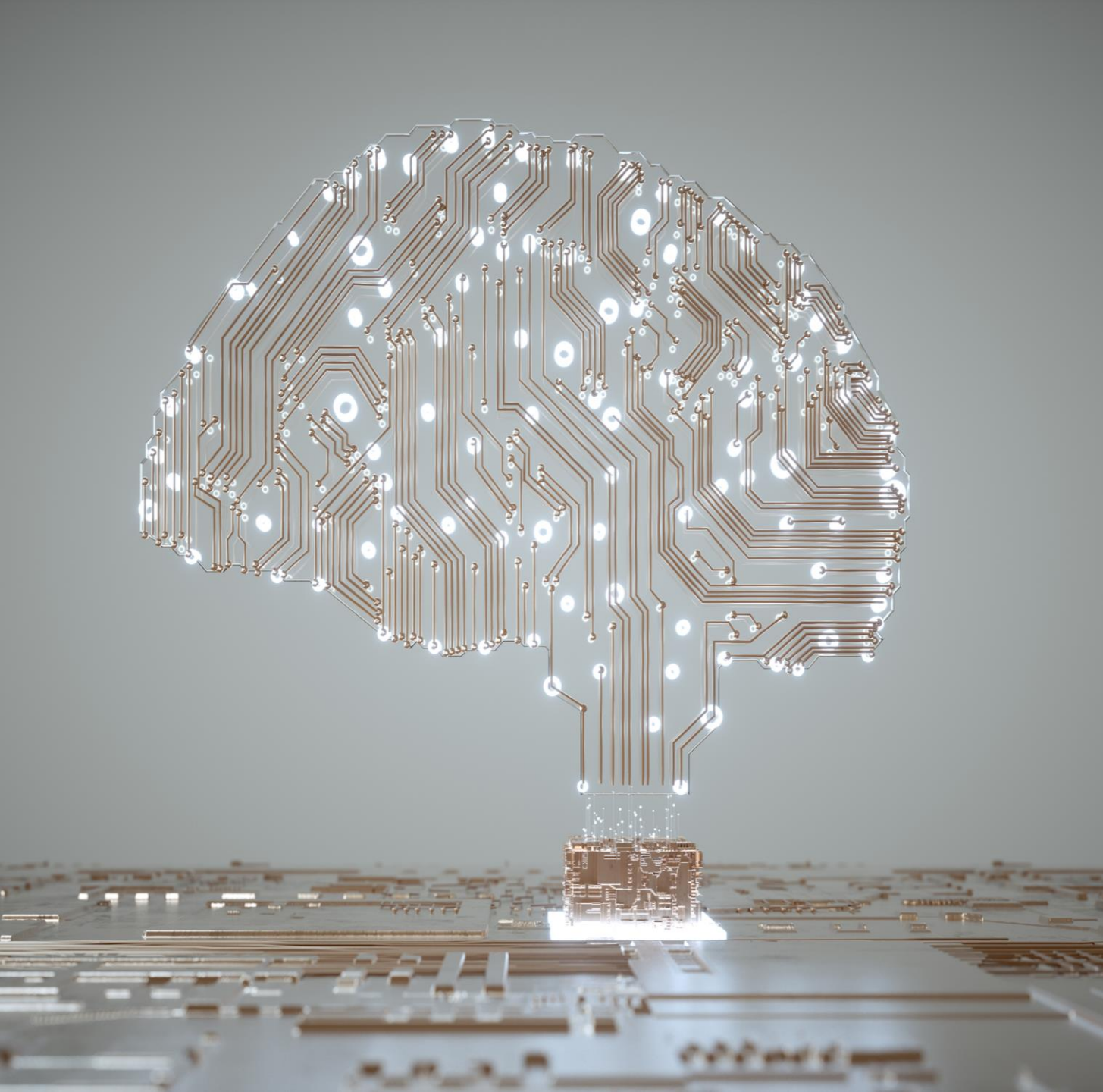
Risk Transfer

- Insurance
- Captive or self-insurance
- Alternative risk transfer (parametric, insurance linked securities)

AI Enterprise Risk Management Checklist

Organizations must answer several key questions to ensure they are appropriately prepared to address Artificial Intelligence risks

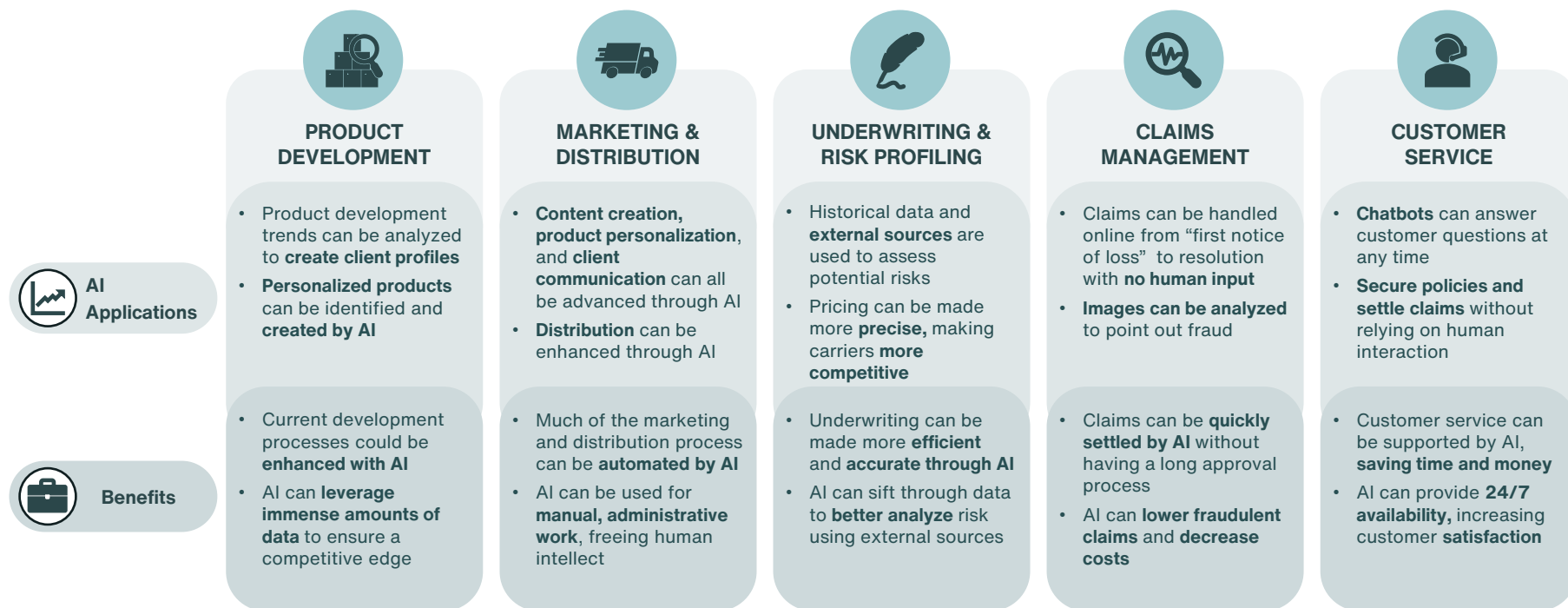
- Are Artificial Intelligence risks **effectively managed and reported to the Board?**
- Does the **Board have the requisite skill sets** to provide effective Artificial Intelligence **risk oversight?**
- Is your **risk management framework optimized** for Artificial Intelligence challenges?
- Is your **AI risk appetite and framework clearly defined** and communicated across your organization?
- Have you **quantified the severity of the impact** arising from extreme Artificial Intelligence events?
- What **response strategies do you have** in place in case Artificial Intelligence risk events occur?
- Do you have the full picture of your organization's Artificial Intelligence **supply dependency?**
- Is Artificial Intelligence risk management part of your **M&A due diligence process?**
- How are **ethical considerations** factored into Artificial Intelligence implementation?



**What about
how AI
applies to
Insurance?**

AI usage in the Insurance Value Chain

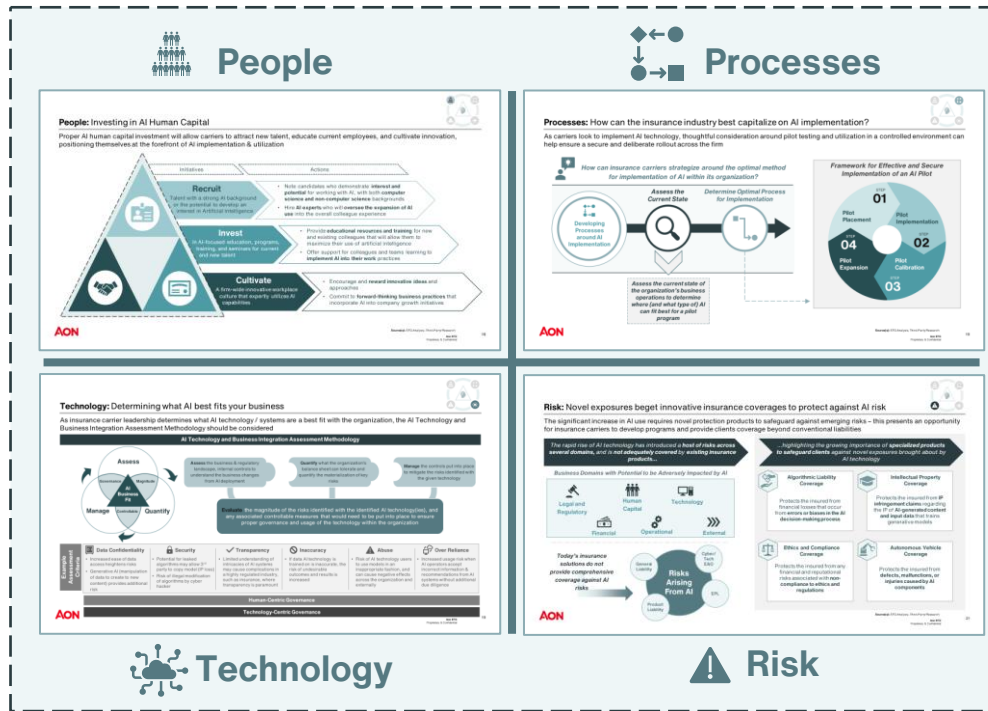
To understand the potential impact of AI on the insurance industry, the key pillars of the insurance value chain can be analyzed, looking at the applications and benefits of the technology



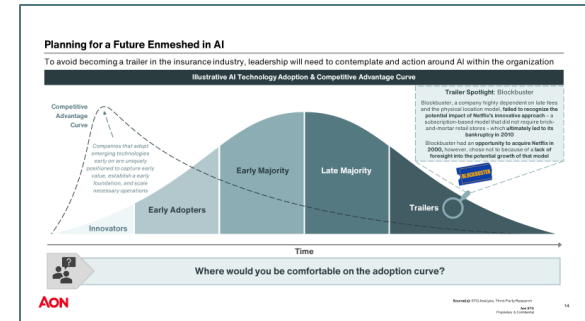
Source(s): STG Analysis, Third-Party Research

Leadership decisions will dictate where the firm lands on the Adoption & Competitive Advantage Curve

The degree of maturity and sophistication across the four key elements of effective AI implementation will dictate the future direction of a firm's strategy



How insurance carrier leadership strategize around the four major components of AI will dictate the organization's placement within the AI technology adoption curve...



... is your organization where it wants, and needs, to be?



Wrapping Up!

**You can start
breathing
again.**

Generative AI is here to stay and should not be ignored

AI Considerations

Skills / Capabilities

Leveraging Generative AI will require skills and capabilities which are highly sought after and in short supply. Attracting and retaining talent is critical. Skills augmentation will also be required

Data

Data strategy including curation, cleaning, and monitoring for accuracy

Investment

Whilst Generative AI has the potential to be transformative it will require significant investment (training models, IT infrastructure, 3rd party licenses, training etc). Clear ROI needs to be established to ensure proposed investments meet your needs.

Governance

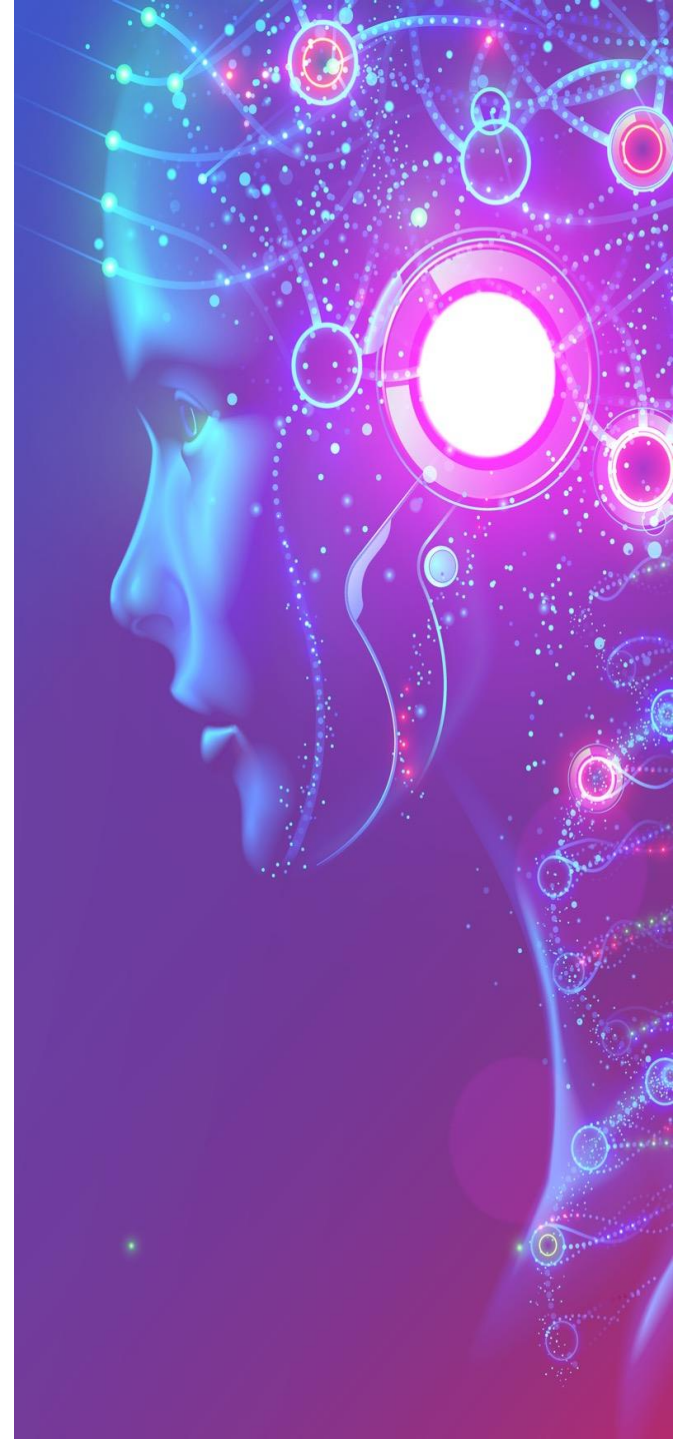
Generative AI is relatively new and evolving quickly which creates both opportunity and risk and a strong governance framework is required.

Use Case Identification

Key is developing a use-case portfolio to manage risk, data access, and resource allocation

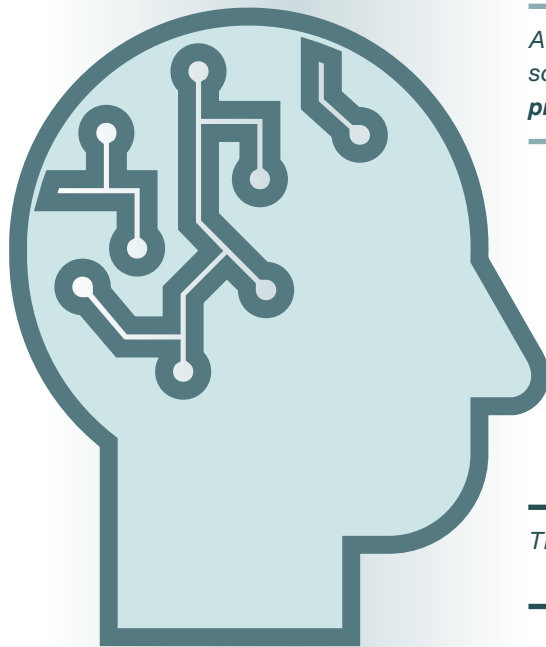
Perfection should not get in the way of risk aware progress

No one has the experience base and answers— now is the time for a test and learn approach. The appropriate operating model to support speed and learning is essential



Artificial Intelligence – The way of the future

Artificial Intelligence is set to introduce a new paradigm of how companies, across all industries, conduct business



As tools using advances in natural language processing work their way into business and society, they could drive a **7% (or almost \$7 trillion) increase in global GDP** and lift **productivity growth by 1.5 percentage points** over a 10-year period”

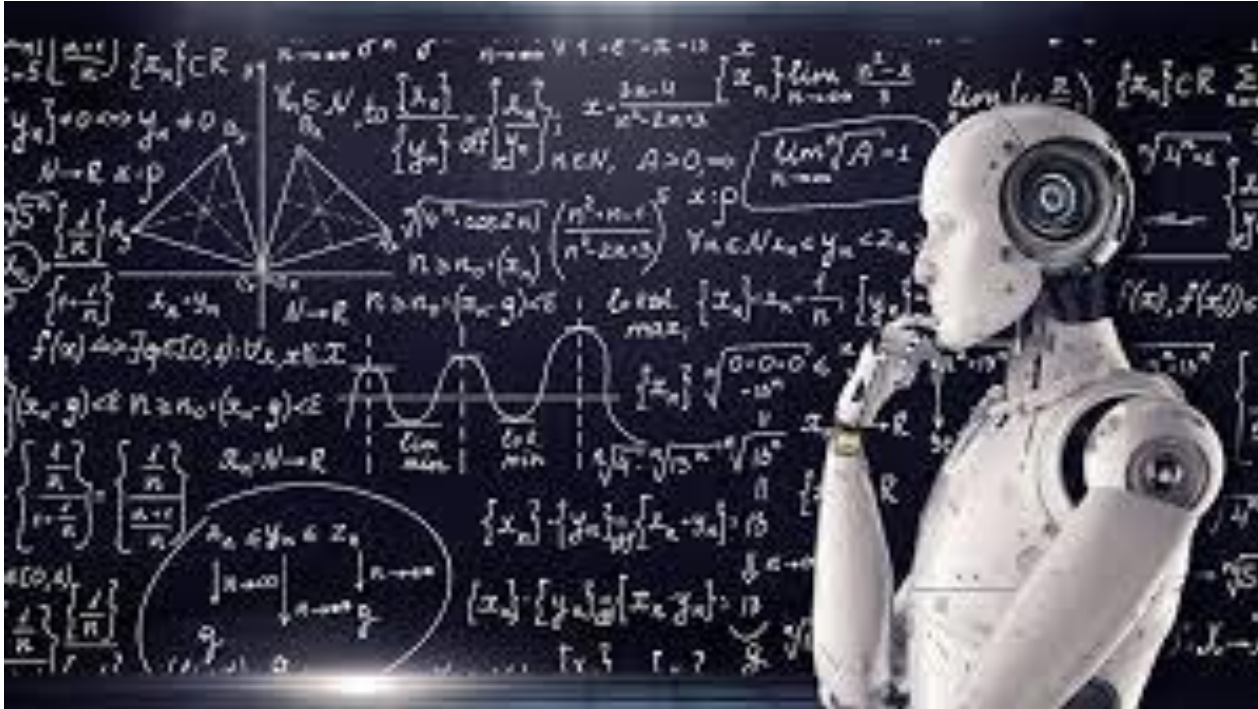
Goldman Sachs

AI can and will affect **every aspect of our business**. When you [have] a great idea on AI, it doesn't mean anything unless it's **embedded across the firm**. We not only have to be better, but **we must have innovation**. To us, things like AI are going to be **incredibly important**. It may be one of the **biggest changes of our time**, and we've got to be able to translate that change into an **impact for clients** and **scale it around the firm**

Greg Case, CEO, Aon

This is the **fastest we've ever gone**, and it will be the **slowest we'll ever go** again

Eric Boyum, Technology National Practice Leader, Aon



Questions?

Mahalo.

This concludes our presentation.

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