

Government Leaders Forum

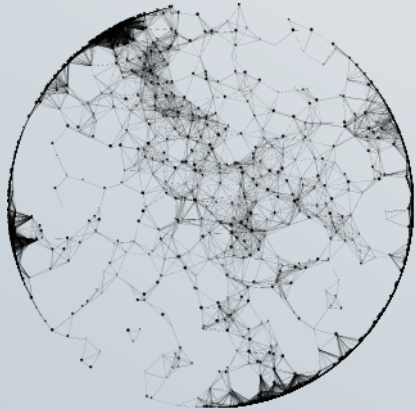
Responsible AI and Gen AI

Friday, September 6

The Forum Hotel Grove Ballroom II



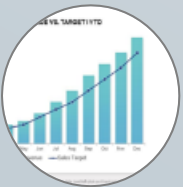
As AI expands beyond analytical AI towards generative AI, a new set of opportunities is emerging



Analytical AI

Analytical AI algorithms are used to solve analytical tasks faster and more efficiently than humans — e.g., classify, predict, cluster, or evaluate data

Examples of use



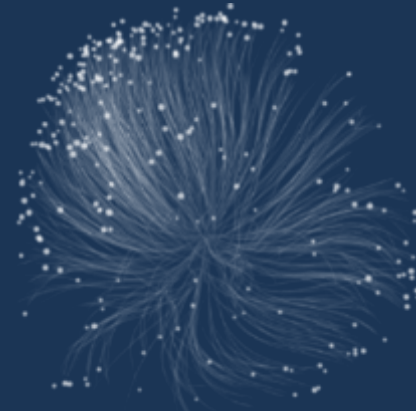
Forecasting economic growth



Public health data analysis



Sentiment analysis



Generative AI

Generative AI algorithms are used to create new content on par or beyond human capabilities — e.g., generate audio, code, images, text, and videos

Examples of use



Citizen services: Digital citizen assistant



Policy analysis: Analysis of large unstructured data (e.g., parliament records)



Internal operations: Automated contract writing

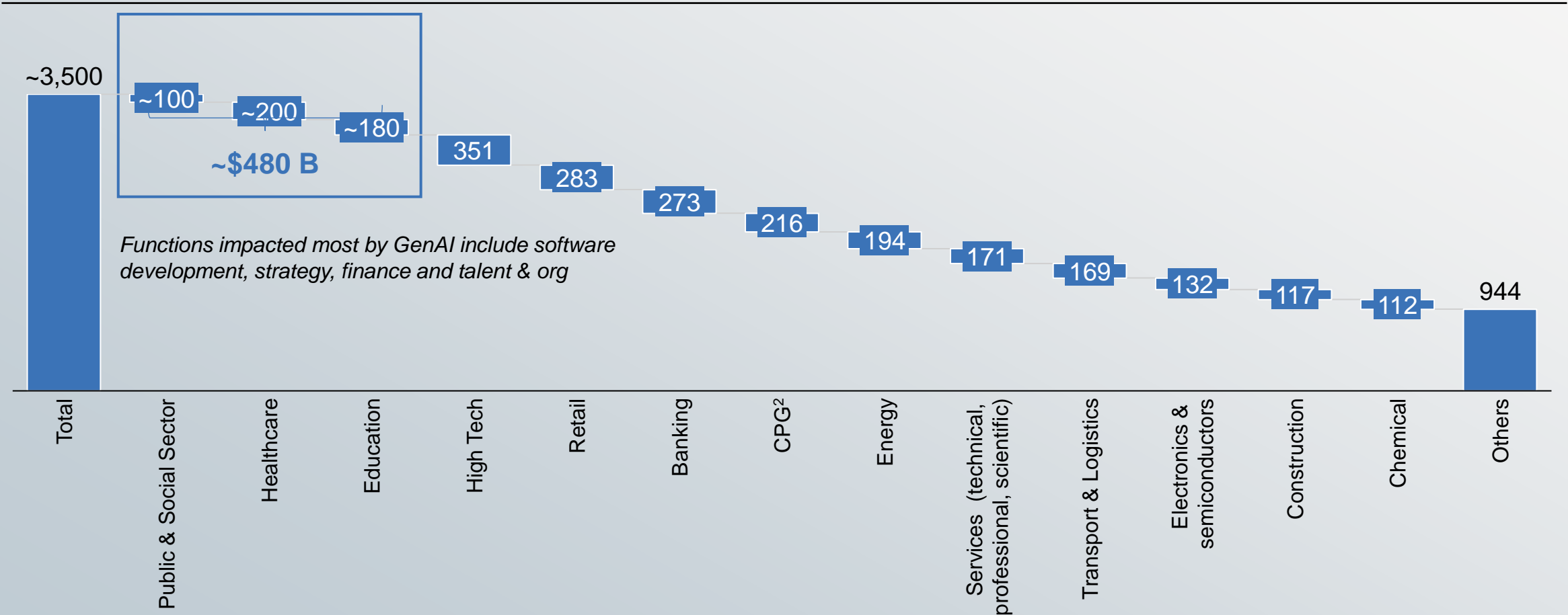


Modernization of legacy IT systems: GitHub coding co-pilot

GenAI could unlock up to ~\$480B in productivity gains for the global public sector and adjacent industries

Public sector and adjacent industries

GenAI productivity impact by industry , \$B¹



1. Excluding implementation costs (e.g., training, licenses)

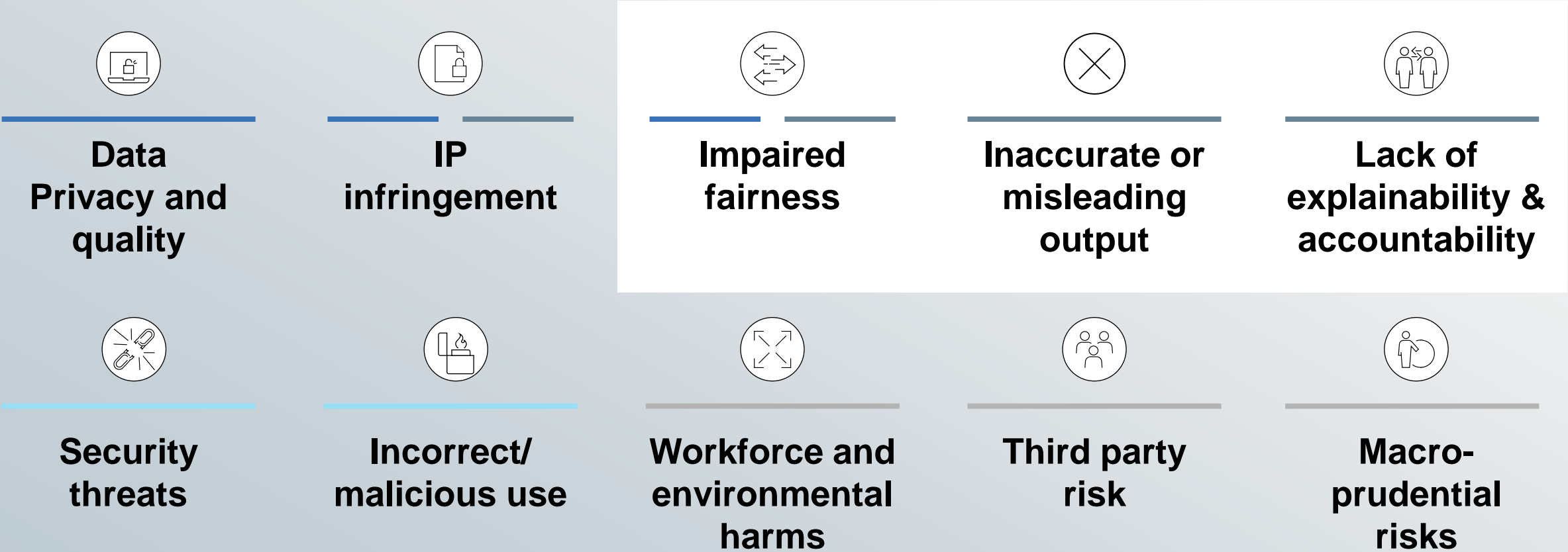
2. Consumer Packaged Goods

However, GenAI amplifies inherent risks, with broader possibility of organizational and societal impact

Illustrative Non-exhaustive

■ Data management ■ Model management ■ Cybersecurity

Heightened risk from GenAI



Responsible AI regulation is emerging and is slated to accelerate, driven by regulators in leading economies

Updated as of May 2024 DOES NOT CONSTITUTE LEGAL ADVICE



In effect

Executive Order on the Safe,
Secure, and Trustworthy
Development and Use of AI



Passed

European Union Artificial
Intelligence Act



Proposed

Canadian Artificial
Intelligence and Data Act



In effect

Act on the Protection of
Personal Information



Proposed

Measures for the
Management
of Gen AI Services



Proposed

Framework for Gen AI
in Schools

Some US states are implementing responsible AI legislation, executive actions, and policies – more will likely follow

Updated as of June 30, 2024

Based on legislative summary prepared by the National Conference of State Legislatures

DOES NOT CONSTITUTE LEGAL ADVICE



Colorado - In effect

S205 – Consumer Protections for AI

Focuses on the **application of AI**

Requires developers of high-risk AI systems to **use reasonable care to avoid algorithmic discrimination**

Requires developers to:

- Implement a **risk management policy**
- Complete an **impact assessment** and annually review deployment
- **Notify** the attorney general of the discovery of algorithmic discrimination within 90 days



California - Proposed

SB 1047 – Safe and Secure Innovation

Focuses on **frontier models** underlying AI applications

Requires developers to use reasonable care to **test and report the safety of frontier models** before public release

Establishes a **Board of Frontier Models** within the government Operations Agency to **define and monitor safety tests**

An organization's responsible AI strategy often balances its impact aspirations and risk appetite

Illustrative

RAI Use Case Prioritization Cube



Risk

Likelihood and impact of an adverse risk event

Impact

Incremental productivity, social impact, & innovation from use case

Feasibility

To implement the use case

What is the risk?

Type of risk inherent in the Responsible AI (RAI) use case

Why is it important?

Potential impact that the risk might have on the organization, its constituents, and society

How will it be measured?

Key Risk Indicators such as Bias Ratio

- Complexity / technical challenge
- Resources required to deliver & embed RAI guardrails

Scaling AI responsibly typically involves decision making across four layers ...

Controls¹ employed at the organizational, data, model, and application layer complement and reinforce each other

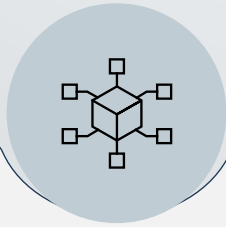


1. Organization layer

How is AI governance structured and operationalized?

Process-oriented definition of:

- Responsible AI strategy
- Enablers incl. governance, tools, & training
- Operating model
- Risk measurement & reporting

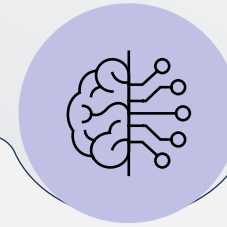


2. Data layer

How is training and input data sourced, processed and stored?

Compliance-oriented review of

- Data sourcing, quality, and processing
- Data storage, management, and afterlife



3. Model layer

How are AI models trained, tested, and distributed?

Performance-oriented review of:

- Model design
- Model training and testing
- Documentation of model limitations and user instructions



4. Application layer

How do AI systems impact users and society?

Impact-oriented review of:

- Use case design & functionality
- Ethical impact assessments
- Channels for whistleblowing, complaints and redress

1. **Technical controls:** Tools and infrastructure deployed to mitigate risk or to detect and respond to data breaches and security incidents, **Procedural controls:** Structured processes with clearly defined decision paths to manage risks and allocate accountability for potential harms, **Cultural controls:** Employee training and awareness programs to promote a proactive risk management culture

Source: McKinsey.com, "Getting to know – and manage – your biggest AI risks", May 3, 2021 ([link](#))

...such decision-making to be driven by cross-functional SteerCo and Delivery teams

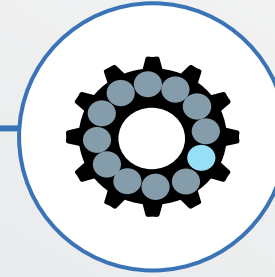
Illustrative

Non-exhaustive



AI Trust Council

The AI Trust council **spearheads strategy and decision making** with a mandate to develop policies and guidelines, proactively assess and mitigate AI risk, and review/ approve AI use-cases



AI Delivery Pod

The AI Delivery Pod supports the leadership team to **implement strategy, processes, & policies at the use-case level**, ensuring responsible implementation and early risk mitigation

Capabilities and teams represented

Domain/
function owner

Data
governance

IT &
Cybersecurity

Risk, legal, &
compliance

AI use case
build team

Head of AI