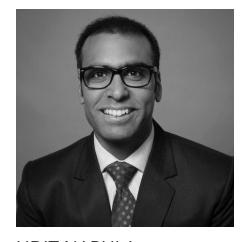
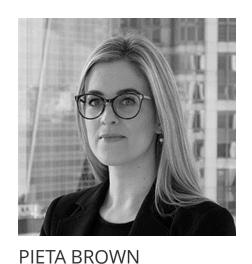


Meet Our Presenters



UDIT NARULA
Senior Manager,
Monitor Deloitte
US Insurance Strategy
and Al Practice Leader



Director, Risk Advisory Caribbean & Bermuda Gen Al Leader



DAVID SHERWOOD

Managing Director,
Risk and Financial Advisory

US AI Risk Management &
Governance Leader

Artificial Intelligence for Insurance

Al is poised to drive innovation and value across the Insurance value chain; however, insurers need to consider risks and challenges for successful implementation across the enterprise





CURRENT STATE OF ALIN INSURANCE

- Most insurers are moving towards focused **exploration / experimentation of AI applications** and consider **AI to be a key factor for business success**
- As AI technologies keep progressing, most insurers are beginning to deploy GenAI solutions in production with an **emphasis on efficiency enhancements**



AI OPPORTUNITIES & USE CASES

- Insurers are driving AI led innovations across the insurance value chain, with focus on the Personalization of Sales & Service, Expansion of Underwriting & Claims Assistance, and Transformation of In-House Tech Function
- Expectations of improved efficiency, enhanced user experience, and increased business growth are driving accelerated adoption of Al across the enterprise



POTENTIAL RISKS AND RISK MANAGEMENT FRAMWORKS

- In addition to amplifying the existing risks from AI, GenAI brings in incremental risks, underscoring the need for robust AI risk management and governance frameworks
- ➤ **Deloitte's Trustworthy AITM framework** provides the backdrop to a sustainable, safe, and responsible AI-use environment and risk management program

Al is rapidly transforming the Insurance Industry



Industry Adoption of Al

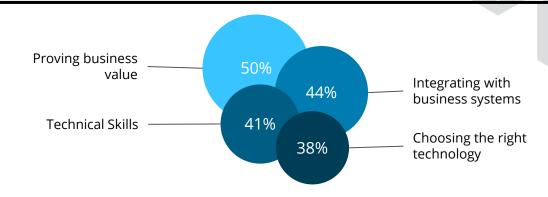
94% of but

of business leaders surveyed by Deloitte agree that **AI** is critical to success over the next 5 years

79%

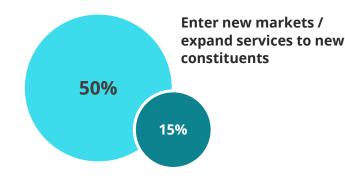
of leaders surveyed reported <u>full-scale</u> deployment for three or more types of Al applications – up from 62% least year

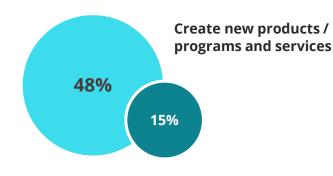
Challenges from Early Adopters

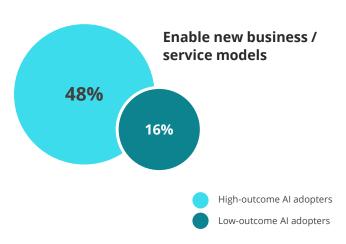


Revenue Outcomes Achieved by AI adopters

High-outcome AI adopters have embraced leading Data and AI practices required for strongest outcomes







Source: State of AI in the Enterprise, 5th Edition, Deloitte





Al expected to **substantially transform** enterprises in **less than 3 years**¹

74%

of respondents are testing GenAl solutions across their enterprise¹

31%

of leaders believe GenAI will drive substantial transformation in their organization in less than 1 year²

44%

of respondents surveyed believe they have high levels of expertise in GenAl. These enterprise cite accelerated adoption of Al solutions across their enterprise² WHERE WE WERE

2023 Trends

Point Solutions Roadmap

Governance

Experimentation

Proof of Concepts

Exploration

Use case prioritization

WHERE WE ARE GOING

2024 and Beyond

Operating Model

Purpose Build Solutions Implement

Scaling Responsible Al

Risk Mitigation

Talent

Value Measurement

Ecosystem Partnerships

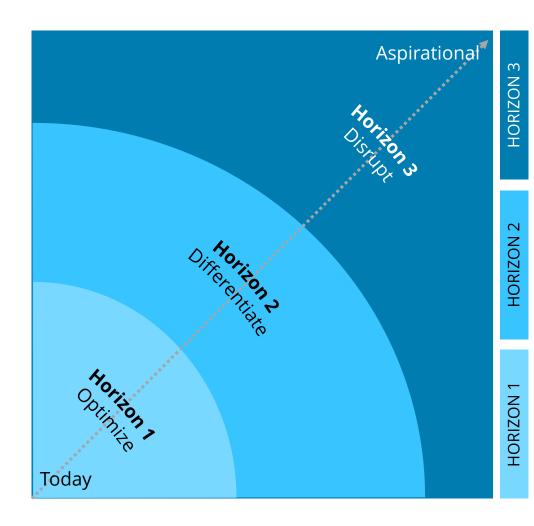
Source:

1State of Ethics and Trust in Technology

²Deloitte, State of Generative AI in the Enterprise

Key categories of use cases (enabled by GenAI solutions) are gaining more traction ...





Disrupt: Next Wave: Reimagining the Business

Ex: Autonomous agents to help manage products/policies, automated fraud detection and investigation, causal Al ...

- ✓ Transform Business Models
- ✓ Transform Ways of Working

Differentiate: Holistic Enterprise Transformation

Ex: Call center virtual agents, automated end-to-end claim support, Anomaly-based cybersecurity and identify verification, Policy Coverage review, ...

- ✓ Reduce Costs
- ✓ Increase Revenue
- ✓ Improve Experiences

Optimize: Internal **Experimentation and Optimization**

Ex: Intelligent Document Processing, Document Contextualization and Summarization, ...

- ✓ **Improve** Productivity
- ✓ Lower risk profile

Insurers are broadly leveraging AI to innovate across the industry value chain







Distribution & Marketing



New Business & Underwriting



Customer Service & Operations



Claims & Fraud



Using real-time customer data for personalized products, services, and pricing based on individual needs and expectations

Aiding agents in detailing policy benefits, analyzing coverages, comparing quotes, and addressing customer queries.

Creating **personalized marketing** content tailored to customer needs

Analyzing unstructured data like social media posts and news articles to identify risks and guide underwriting decisions

Summarizing customer and third-party data into easily understandable information **Al chatbots** for automated customer service, policy information, claims assistance, and account management

Language translations of policy document or marketing collaterals

Real-time information on claim triage and repair through initial claim notice routing

Quick **claims adjudication** through claims data analysis.

Predict and assess risks better by analyzing large volumes of data and create simulations of potential risk scenarios

Enabling Information Technology, Governance and Operations

Automated code generation, development lifecycle documentation, test scenario creation, and translation/business logic extraction from legacy code to increase speed to market and improve engineering efficiencies

Benefits

Faster iterations, more innovative and hyper personalized products

Improved targeting, personalized marketing, faster campaign optimization Improve accuracy, enable more precise risk pricing, and better risk segmentation 24/7 availability, significantly reduced costs, multiple language support, better customer experience Reduced costs, faster claims processing, and improved fraud detection Improved risk assessment, identifying insights that could be missed by humans

-- An Illustrative Set --

Visit <u>The Generative AI Dossier</u> – A selection of high-impact use cases across six major industries by Deloitte AI Insti

...but focusing on specific applications to create differentiation at scale



Personalization of Sales and Services



Provide personalized sales support and plan member service, answering complex questions, improving overall customer experience, and orchestrate better administration

Expansion of Underwriting and Claims Assistance



Gathering and analyzing relevant data to assist underwriters and claims adjusters in making better decisions for complex cases

Transformation of In-House Technology



Analyze existing codebases, understand underlying logic, and generate code snippets or even entire modules, helping accelerate development of technical applications





EFFICIENCY

Improve operational performance through improved productivity (doing more with less)

- Automate Optimize Costs
- - Drive Consistency

- Manage Improv

Improve

Profitability and Margin Improvement SG&A, Personnel Cost as a % of Revenue

> Stakeholder Value EPS. EBITDA

EXPERIENCE

Provide fit for purpose and customized experiences to customers and employees

- Personalize Democratize Knowledge
 - Differentiate Services

- Creativity
- **Enhance** Quality and Outcomes

Engagement Centricity

Customer Journey Engagement

Work, Workforce & Workplace of the Future Virtual, Automated, Augmented Workforce

BUSINESS GROWTH

Develop and enhance enterprise product, channel, and data capabilities

- Generate
 New Insights Improve
 Adaptability
- Augment Skills

- Improve
 Decisioning
 Drive Product
 innovation

Business Model Agility Time to Market

New Digital Products & Services Diversified Product & Advisor Portfolio





Examples of existing risks from AI that are further amplified by GenAI

Bias



- ✓ Biased training data can lead to biased output
- ✓ Bias can also emerge because of relationships formed within the model

Explainability



✓ Opaque or overly complex training techniques make it difficult to understand how predictions are made

Output Reliance



✓ Allowing erroneous output from Al to directly impact business decisions

Confidentiality & Privacy



✓ Consent for data used (confidential information, personally identifiable information) is necessary

Examples of incremental risks from GenAl

Hallucination



✓ LLMs are based on probabilities, and can generate false outputs with a confident tone - sources and citations are unavailable for most models

IP Protection & Infringement



✓ Al service companies may use confidential data to train future models, exposing the user to IP infringement claims

Malicious Behavior



✓ Al facilitated malicious behaviors or social engineering can jeopardize an organization's information integrity

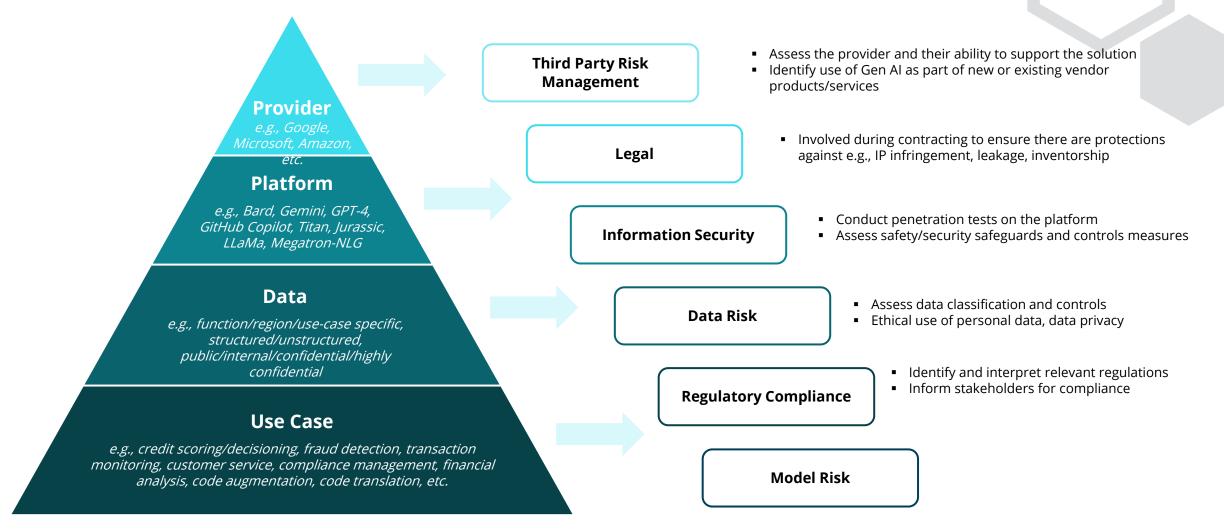
Token Size Limits and Costs



✓ Most LLMs have a size limit on the number of tokens (units of text/code) that are processed, resulting in limitations in processing larger documents and high computing costs

Organizations are finding that AI is not a standalone risk, but a cross cutting expansion of existing risks across the layers of AI





Comprehensive AI risk management principles serve as the cornerstone of sound AI practices. Deloitte's Trustworthy AITM framework provides the backdrop to a sustainable, safe, and responsible AI-use environment and risk management program



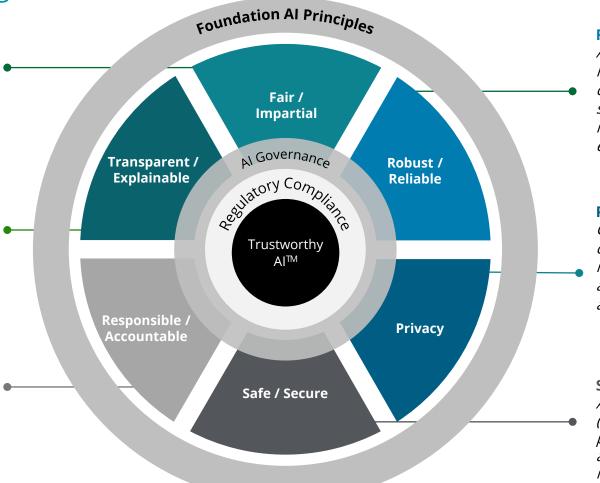
Al must be designed and trained to make decisions free of biases. Al applications include internal and external checks to help enable equitable application across all participants.

Transparent / Explainable

All participants are able to understand how their data is being used. How Al systems make decisions; algorithms, attributes, and correlations are open to inspection and are fully explainable.

Responsible / Accountable

Policies are in place to determine who is held responsible and accountable for the output of AI system decisions.



Robust / Reliable

Al systems have the ability to learn from humans and other systems and produce consistent and reliable outputs. The systems must be robust and function as intended even under unexpected environment and data.

Privacy

Consumer privacy is respected, and customer data is not used beyond its intended and stated use. Data regulations are complied with, and consumers are able to opt in / out of sharing their data.

Safe / Secure

Al systems can be protected from risks (including cyber risks) that may cause physical and/or digital harm such as adversarial manipulation of Al models and reverse engineering of data.

Standing up an Al Risk Management Framework: Lessons Learned

The AI use-environment is evolving quickly and leading practices in AI risk management have yet to fully converge. This poses a unique challenge when designing and implementing an AI risk management program



- Typically, the **most challenging** part of standing up an AI risk management program
- Requires **well-structured/planned consensus workshops** for each topic, from AI definition, to risk rating, to required lifecycle activities
- It's best to **bring options**, based on industry practice, with pros/cons, and a recommendation to consensus workshops

Building off of Existing Processes

- There is **considerable overlap** in AI risk management to other existing risk management programs (e.g., MRM, cyber, data risk, technology risk, etc.)
- Determining **where existing programs can be leveraged**/built off of incrementally, vs. holistic new processes (and/or technology) requires careful consideration and input from the broader stakeholder group
- These decisions will drive **stakeholder buy-in** and drive program efficiency

Managing Risk in a Creative Environment

- One of the biggest stakeholder complaints (and therefore sources of stakeholder push-back) is that AI risk management is burdensome and **stifles the innovation** environment needed to develop AI objects (e.g., requiring inventory registration during AI design)
- While these concerns can be assuaged through **educational sessions** demonstrating the value of AI risk management, it is also critical to make sure that AI risk management controls/requirements are risk and regulatory-based

Managing Regulatory Jurisdictions

- There are varied **requirements across regulatory jurisdictions**. To avoid burdening stakeholders in regulatory jurisdictions which have yet to evolve into strict environments, it is critical to understand the different landscapes and design flexible lifecycle activity requirements
- Moreover, a **centralized control function** that drives updated lifecycle activities as regulations evolve can help stakeholders comply with local regulations

OPEN TO QUESTIONS & THOUGHTS

SCALING AI

Deploying Responsible AI to deliver successful outcomes at scale



Enterprise-wide AI strategy aligned with strategic business priorities and championed from the top







Al success is built upon the foundation of business-value-centric strategy, responsible governance to create trusted solutions, an adaptive workforce, and a robust set of ecosystem partners.





Learn more and continue your Generative Al journey



Listen



Generative Al Industry Webinars

Podcasts



Listen to an exciting episode of the **TECHTalks podcast** exploring Generative AI with Ed Bowen, Deloitte Advisory AI Leader and Managing Director of the AI Center of Excellence, now available on <u>Spotify</u>



Listen to an exciting episode of **The Al in Business Podcast**, where Al leaders in Deloitte talk about Al opportunities in insurance and how value is being created. Available on **SoundCloud**

Read



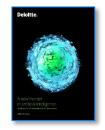
Implications of Gen Al for Insurance



Generative Al is all the Rage



Generative Artificial Intelligence



<u>Generative</u> <u>Artificial Risk</u> <u>Management</u>



Generative Al for Enterprises



<u>Legal</u> <u>Implications of</u> Generative Al



Navigating the impact of generative Al on security



Proactive risk management in Generative Al



<u>Generative AI will</u> <u>reshape - not replace -</u> the workforce

About the Presenters



UDIT NARULA

Senior Manager, Monitor Deloitte US Insurance Strategy and Al Practice Leader Email: unarula@deloitte.com



PIETA BROWN

Director, Risk Advisory
Caribbean & Bermuda AI & Data
Practice Leader
Email: pibrown@deloitte.com



DAVID SHERWOOD

Managing Director, Risk and Financial Advisory

Email: dsherwood@deloitte.com

Udit is a leader in our Financial Services Strategy practice with over 10 years of experience across India, Canada, and US. Udit has advised several Banks and Insurance players to shape customer and innovation driven growth strategies.

Udit is passionate about solving complex problems, designing actionable business strategies, and supporting clients undertake bold transformation programs. Udit leads the thinking on Strategy and Operating Model for Gen Al applications within Financial Services at Deloitte. He is experienced in supporting senior stakeholders understand Gen Al opportunities, drive consensus around opportunities and outcomes, develop business cases, and implement transformation programs.

Udit is trained as an engineer and studied MBA at Cornell University.

Pieta leads the Generative Artificial Intelligence (GenAI) practice at Deloitte in the Caribbean and

Bermuda region (Deloitte CBC). Her skillset draws on more than 10 years of experience growing data science/machine learning capability and delivering large-scale projects for public and private sector organizations. Pieta's expertise spans the full AI lifecycle, from building AI literacy and identifying opportunities through strategy development, technology implementation and governance. Pieta's previous roles have included Chief Analytics Officer, Head of Data, and Product Director for machine learning, spanning various global organizations as well as technology- and data-driven industries

Pieta holds a Masters of Professional Studies in Data Science, a Bachelor of Laws, a Postgraduate Certification in Health Informatics and is an ICAgile Certified Professional David Sherwood is a Deloitte Advisory Managing Director in the insurance (Life & Health, and Property & Casualty) sector specializing in AI, risk management, regulation and compliance.

David has taken a lead role in global and domestic regulatory developments, and helps clients navigate regulatory and organizational change both domestically and internationally. David's experience includes AI related developments, and he continues to support and advise clients in this area. He acts as the Deloitte lead at International Association of Insurance Supervisors (IAIS) and the US National Association of Insurance Commissioners (NAIC), and has presented at NAIC Summer National Meeting 2023 on Generative AI

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