

WHITEPAPER

GenAl is here are you ready?

A guide to operationalizing GenAl in insurance



Executive summary

GenAI is the world's newest shiny toy. And if the hype is to be believed (which it is), it's set to create opportunities for innovation, improve operational efficiency, and enhance customer experiences. The challenge right now, however, is that many professionals have only scratched the surface of what GenAI can do and are still unsure of how to leverage it across their organizations.

This is especially true in the insurance industry. Insurers rely heavily on document-intensive processes, and GenAl presents an unprecedented opportunity to drive enhanced results. By embracing these tools strategically, the insurance industry can unlock new levels of efficiency, elevate customer experiences, and increase profitability while effectively managing the inherent risks and pitfalls associated with this revolutionary technology. As GenAl continues to advance with more accurate open-source Large Language Models (LLMs), understanding how to integrate this technology effectively is becoming ever more crucial for staying competitive and gaining an advantage.

In this white paper, we explore the operationalization of GenAl within the insurance industry, providing an overview of the operating model you'll need for scalability and compliance. We also outline the process of implementing GenAl across the value chain of an insurance enterprise.

No doubt, the hype around ChatGPT has raised awareness of the potential of AI. Rather than replacing people, it enables insurance professionals to provide a better customer experience.



How insurers are using GenAl

Insurers are currently in the understanding and experimentation phase of GenAl use. Two of their biggest concerns are data security and hallucination (a tendency to create outputs that seem correct when compared to factual data but are simply made up).

While open-source LLMs can drastically reduce data security risks, GenAl's ability to confidently provide incorrect or biased outputs must be mitigated through validation before this data is used to take informed decisions. Even so, in its current form, GenAl currently works well as a knowledge assistant to insurance professionals across the value chain and can help to improve efficiencies internally (i.e., in low-risk, high-impact use cases).

For instance, Zurich is currently conducting experiments involving applications that aim to extract data from claims descriptions and various other documents. To enhance its underwriting process, the company is inputting the most recent six years' worth of claims data. In another example from RGA Data Science, VP Jeff Heaton has said, "RGA is currently in the early stages of evaluating ChatGPT primarily to assist insurance professionals with routine tasks."



Although insurance providers might not experience an instantaneous impact on their financial performance or customer interaction, a phased value measurement framework assists us in charting the path toward profitable expansion.

The framework below (Fig. 1) is helpful for measuring value in implementing GenAl within the insurance and helps us evaluate the advantages it delivers to customers and the business alike.



GenAl for enhanced outcomes, while protecting the downside

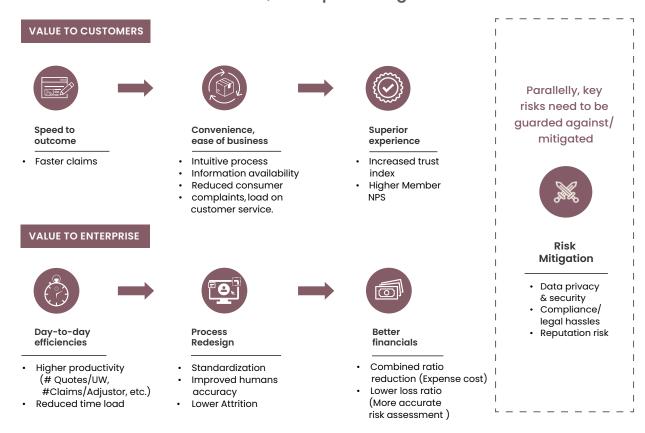


Fig 1. Value assessment framework

Setting up an operating model for scaled success

A well-defined and scalable operating model is essential to successfully integrate GenAl into insurance operations. The model below (Fig. 2) outlines how the collaboration between the GenAl Center of Excellence (CoE), GenAl core team, and GenAl governance council ensures consistency and efficiency while maintaining strong governance. This operating model focuses on three key areas, namely:

Assessing the enterprise's readiness for GenAl initiatives and establishing the necessary infrastructure. Offering oversight and strategic direction for GenAl projects, which involves using expansive language models and agreement on GenAl tools and technologies. The CoE and the core team foster collaboration among data science teams, helping to spread the technology more widely and implement solutions efficiently.

Aligning GenAl efforts with organizational goals, assessing risks, and upholding responsible Al standards.

3. Functional:

This trio of teams collaborates with the legal/compliance department to ensure compliance with existing regulations. As the GenAl initiatives mature to the level of other Al technologies, the governance and CoE for GenAl can be integrated with the broader Al governance and CoE.

Setting up for success GenAl governance

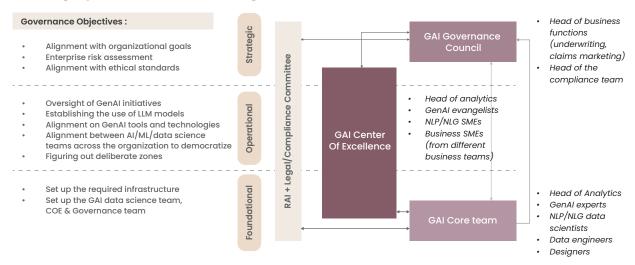


Fig 2. Operating model

Operationalizing GenAl

The potential of GenAl has become increasingly evident, calling for a comprehensive and structured approach to adoption.

To fully leverage the potential of GenAl, businesses must first identify their objectives and determine how GenAl can provide improvements. This involves identifying relevant functions to kick-start training and adoption of GenAl, as well as prioritizing use cases using the 4E framework, which consists of:

Economics:

The strategy's financial aspect involves analyzing and understanding the potential return on investment and profitability.

Exposure:

The level of vulnerability an organization has to reputation risk and compliance issues.

Extensibility:

The ability of a system to be easily extended or modified without the need for significant changes to its underlying structure, allowing for adding new features, functionalities, or modules to an existing system without disrupting its core functionality.

Edge:

The competitive advantage that the tech provides, which involves identifying and leveraging unique selling propositions or critical differentiators.



Once the use cases have been identified, businesses must select the appropriate GenAl tools and models for implementation, embed the GenAl team across functions, and provide training on prompt engineering. Finally, businesses must define value measurement metrics, set up monitoring tools, review, and audit, and collect feedback to improve continuously.

How do we unlock full potential of GenAI to deliver across insurance enterprise?

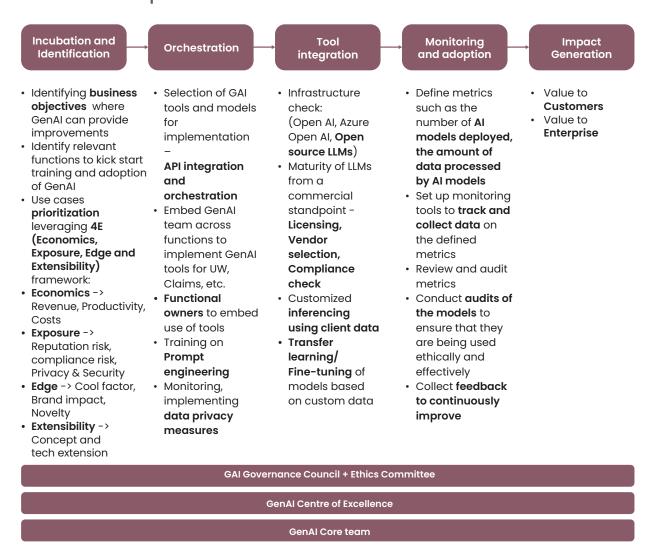


Fig 3. Operating model



Use cases

From underwriting and claims management to customer service and risk assessment,

GenAl has the potential to transform a wide selection of facets within the insurance industry.

In Fig. 4, we have mapped multiple use cases of GenAI. Its potential impact on the insurance value chain is far-reaching, enabling insurers to streamline operations, mitigate risks, optimize pricing, and deliver superior value to policyholders and enterprises.

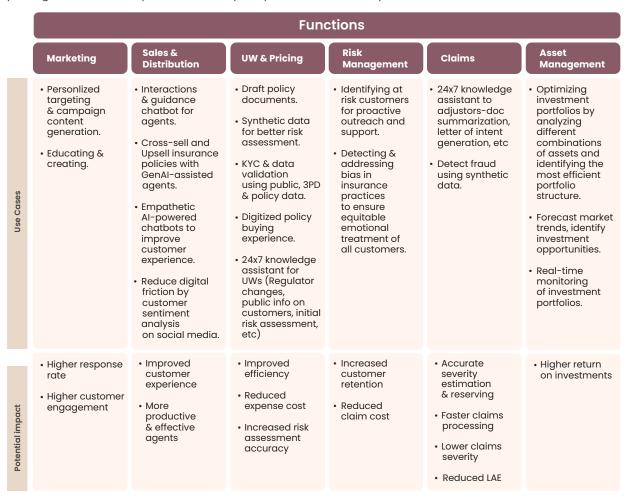


Fig 4: Use cases

Example: GenAI in an underwriter's journey

The integration of GenAI into the underwriting process delivers automation, efficiency, accuracy, and improved decision-making, transforming the traditional journey of underwriters by allowing them to concentrate on intricate cases, consistently follow guidelines, optimize operations, manage risks, and enhance customer experience, all while delivering superior underwriting services.

Figures 5 and 6 provide a comparative analysis of an underwriter's journey within a specific line of business, in this instance, the small commercial property sector, using the example of a city-based café chain's insurance application.



Typical UW journey for small commercial property

UW Journey

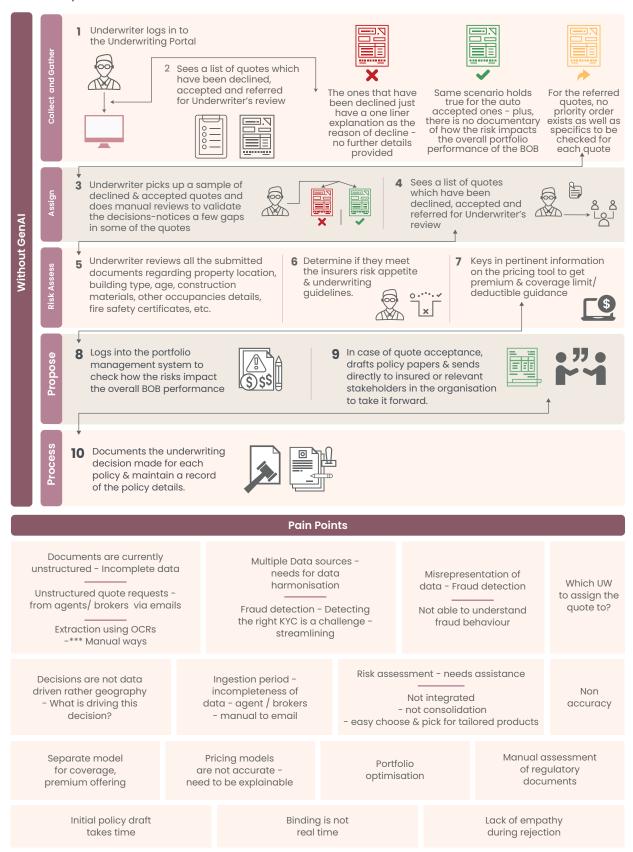


Fig 5. Process without GenAI help and STP workflows in place



GenAI enabling underwriters to make better decisions with higher accuracy at speed

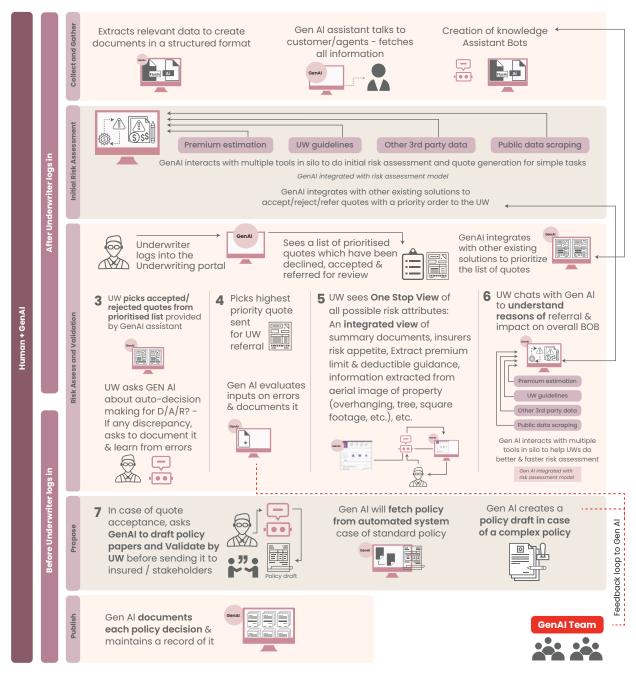


Fig 6. Process without GenAI help and STP workflows in place

Using the power of GenAl, the underwriter journey undergoes a transformation: data analysis is streamlined, processes are automated, and risk assessment is enhanced, leading to more informed decision-making. GenAl empowers underwriters to handle complex commercial risks efficiently, optimize pricing, and deliver superior underwriting services in the competitive commercial insurance market.



Conclusion

GenAl presents immense potential for the insurance sector, opening avenues for creative solutions, streamlined operations, and improved client interactions. Insurers aiming to harness these advantages should adopt a well-rounded, systematic strategy. This includes establishing a scalable operating model, aligning initiatives with business objectives, and choosing the most relevant use cases for integration. Essential aspects of successful implementation include the judicious selection of tools, training in prompt engineering, and an ongoing commitment to improvement via monitoring and feedback. By wholeheartedly adopting GenAl, insurers can maintain a competitive edge, foster profitability, and deliver superior customer experiences in the ever-evolving digital landscape.

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About Fractal

Fractal is one of the most prominent providers of Artificial Intelligence to Fortune 500° companies. Fractal's vision is to power every human decision in the enterprise, and bring Al, engineering, and design to help the world's most admired companies.

Fractal's businesses include Crux Intelligence (AI driven business intelligence), Eugenie.ai (AI for sustainability), Asper.ai (AI for revenue growth management) and Senseforth.ai (conversational AI for sales and customer service). Fractal incubated Qure.ai, a leading player in healthcare AI for detecting Tuberculosis and Lung cancer.

Fractal currently has 4000+ employees across 16 global locations, including the United States, UK, Ukraine, India, Singapore, and Australia. Fractal has been recognized as 'Great Workplace' and 'India's Best Workplaces for Women' in the top 100 (large) category by The Great Place to Work® Institute; featured as a leader in Customer Analytics Service Providers Wave™ 2021, Computer Vision Consultancies Wave™ 2020 & Specialized Insights Service Providers Wave™ 2020 by Forrester Research Inc., a leader in Analytics & Al Services Specialists Peak Matrix 2022 by Everest Group and recognized as an 'Honorable Vendor' in 2022 Magic Quadrant™ for data & analytics by Gartner Inc.

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