

Agenda

- 1. Where are our customers?
- 2. Where are we?
- 3. Where are we with our customers?
- 4. Some work done....
- 5. Exploring Gen AI with Capgemini



Where are our clients?

Our clients are eager to learn about Gen AI, top 15 insurers are already experimenting in pockets and wanting to play around with it and see how it can make their software engineering faster and their businesses better!





Externally, we're partnering with clients and tech giants (Google, Microsoft, Amazon). Internally, we're collaborating with legal, ethics, delivery, security, infrastructure, and risk experts. This involves rapid exploration, experimentation, and scalable efforts-- all being executed with responsibility and transparency.

CAPGEMINI GEN AI STRATEGY



Capgemini will invest invest €2 billion to strengthen its leadership in Artificial Intelligence over the next 3 years doubling data & AI teams to 60,000 along with upskilling our workforce on GenAI

Organizational Enablement

Establish clear vision for GenAl and understand its influence in company strategy

Onboarding and up-skilling workforce on GenAl skills

Active change management considering new responsibili<u>ties</u> and insecurities of employees

AI Operating Model

Manage GenAl portfolio with intrinsic value measurement

Build an organization that enables diverse teams with endto-end use case responsibility

Establish state of the art BizDevOps & MLOps to efficiently deliver and maintain GenAl use cases

Technological Foundation

Create scalable data platforms with established data management

Leverage technology partners like hyperscalers

Incorporate green computing and efficient models

GenAl driven

Enterprise

Validate compliance of the GenAl solution with legal acts

Have legal team and processes ready to evaluate GenAl solutions (data privacy, ...)

Assess auditability and explainability need of GenAl solutions

Legal Aspects

GEN AI Strategy | Gen AI for CX | Gen AI for Software Engineering | Custom GenAI for Enterprise

WHAT MAKES US UNIQUE



A PROVEN DATA & AI PORTFOLIO WITH GEN AI EXPERTISE

- Multiple years of experience in deploying scaled Gen.AI solutions in production
- **Intellectual Property and accelerators** built in-house or in collaboration with key partners
- Research-based Technical Thought Leadership incl. Prompt Hydration and Privacy Preserving Al techniques
- Ability to guide through ethical and legal compliance complexity such as AI Act with Capgemini Invent.

OUR CROSS-INDUSTRY FOOTPRINT



Automotive



& Defense





Banking









Life Sciences



Utilities





Products & Retail

20+

GenAl Use Cases implemented

Generative AI-based solutions in place

Partners to deliver Generative AI solutions

Capgemini

Dedicated Al Futures Lab

20 000+

Experts across domains & industry sectors

60 000+

Data & Al Consultants

OUR GEN AI PARTNERSHIPS ACROSS THE PIPELINE

















Public **Services**

Consumer



Generative AI has the potential to unlock immediate value across the entire Insurance value-chain

Internal business-facing

Customer-facing











Fraud

The FBI reports that insurance fraud costs more than \$40B a year. AI tools can identify oddities in claims data and pinpoint inaccurate information and flag situations for specialists.

Underwriting

Underwriting is a complex process, but AI can accelerate and improve many associated tasks. AI can develop more competitive and personalized prices by automating the gathering of customer data.

Claims

AI has the potential to shorten claims processing times from multiple days to just hours or minutes, which means greater cost savings from companies and for customers speedier payout and resolution.

Service

Advancements in this area have the potential to make the user experience more seamless, personalized, and accessible while easing the burden on insurers to respond to individual inquiries manually.

Sales

AI can open up new digital sales channels and strategies. It can further help target personalized marketing campaigns that include tailored-to policies and plans to the most ideal customers.



We have identified a set of seven use-cases on underwriting that we believe will add immediate value to Insurance business...

Where might we use Generative AI for underwriting use-cases?

Risk Assesment

Generative AI can improve the risk assessment process by being trained on demographic data to better predict risk and provide underwriters with recommendations.

Intelligent Underwriting

Generative AI can be used to identify critical documents, extract critical data in the submission process and then feed just that critical information to the underwriter to help make quicker decisions.

Eligibility & Product Match

Generative AI could be used to determine eligibility based on classifications and eligibility guidelines then suggest the best product match for the customer.

Social Media Sourcing

Generative AI can be used to source social media to gather data around and confirm customers' business operations, social interactions and customer reviews.

Rating Errors

Generative AI can generate notifications for underwriters when rating errors have been made, the impact, and the correction needed.

Policy Manuscripting Generation

Generative AI can generate basic policy manuscripts based on class codes, operations description's or even personalize a manuscript based on exposure information.

Broker Messaging

Generative AI can generate routine human-like communications in real time from Underwriters to Brokers when additional information is needed in assessing a risk.

While we believe that this represents a wide range of generative Al use-cases for, it is still a nonexhaustive list given the speed at which generative Al is advancing...



We have identified a set of eight use-cases on billing that we believe will add immediate value to Insurance business...

Where might we use Generative AI for billing use-cases?

Default Prediction

Generative AI can craft personalized, proactive messages for policyholders at risk of default, encouraging prompt payments.

Cash Allocation

Generative AI can generate clarifying queries to policyholders when payments received do not match with outstanding bills, ensuring accurate cash allocation.

Payment Plans

Generative AI can generate individualized payment plan proposals, written in a way that best resonates with the policyholder's communication preferences.

Collection Strategy

Generative Al can create personalized letters, emails, or text messages for each debtor, written to encourage engagement and payment.

Creditworthiness

Generative AI could generate personalized financial guidance for policyholders based on their creditworthiness, fostering trust and potentially improving payment behaviors.

Fraud Detection

Generative AI can be used to generate automated responses to potential fraudulent behavior, alerting policyholders and asking for their confirmation.

Billing Errors

Generative AI can generate notifications for policyholders about the error, the impact, and the rectification plan, maintaining transparency.

Customer Support

Generative AI can generate human-like, contextually appropriate responses in realtime, enhancing the customer experience.

While we believe that this represents a wide range of generative Al use-cases, it is still a non-exhaustive list given the speed at which generative AI is advancing...



We have identified a set of eight use-cases on <u>claims</u> that we believe will add immediate value to Insurance business...

Where might we use Generative AI for claims use-cases?

Claims Triage

Generative AI can be used to predict claim severity of incoming claims and throughout the claim life cycle based on incoming documentation and data from relevant claims.

Attorney Utilization

Generative Al can score defense counsel on actual outcomes and expenses. The scoring process will includes comparing the performance of the counsel to outcomes from relevant closed claims.

Litigation Management

Gen AI can predict litigation weeks in advance, starting at First Notice of Loss and throughout the claims life cycle. Litigation trends, patterns along with potential nuclear verdicts can be identified before they have an adverse impact

Fraud Detection

Generative AI can be used to identify potential fraud and trigger appropriate next steps for the claims team.

Reserve Accuracy

Generative AI can help a claim operations pro-actively manage claim reserves against the predicted severity

Automating Workflow

Generative Al can automate workflow within the claims lifecycle based on new information as it becomes available. Workflow triggers can be used to engage services expertise & escalations.

Medical Outcomes

Generative AI can score medical providers on actual outcomes and compare them to relevant closed claims. This allows the claims professional to engage the right doctor for better outcomes.

Customer Support

Generative AI can generate human-like, contextually appropriate responses in realtime, enhancing the customer experience.

While we believe that this represents a wide range of generative Al claims use-cases for many of our clients is still a non-exhaustive list given the speed at which generative AI is advancing...



Across each category there are a wide range of immediately actionable use cases fitting into industries DNA

Operational Standardization

Assist employees with adhering to organizational standards for operations via live recommendations.

Underwriting Appetite

Check submission / application against underwriting appetite (and total risk appetite)

Claim Coverage Check

Have the LLM read the Policy Wording and check if coverage is provided or not

Process Automation

Automating the information retrieval and recommendation step of a recurring business process

Regulatory Complicance Automation

Interpret regulatory policy / documents to identify potential violations relative to operating procedures

Document Generation

Write new documentation based on summarization of other documents & software code

Customer Service Automation

Effectively service customers requests for information and service provisioning

Regulatory Filing Creation

Generate US GAAP, statutory filings and reporting disclosures

Document Search & Synthesis

Effectively find the most relevant documents and summarize their contents

Creative Assistance

Empower creative teams to create bespoke images and creative content for campaigns and editorial content

Research Accelleration

Find complex subject domain information across many disparate sources and synthesis the findings

Developer Efficiency

Complete, test and augment code to make your engineering team more efficient and effective

Fraud

Underwriting

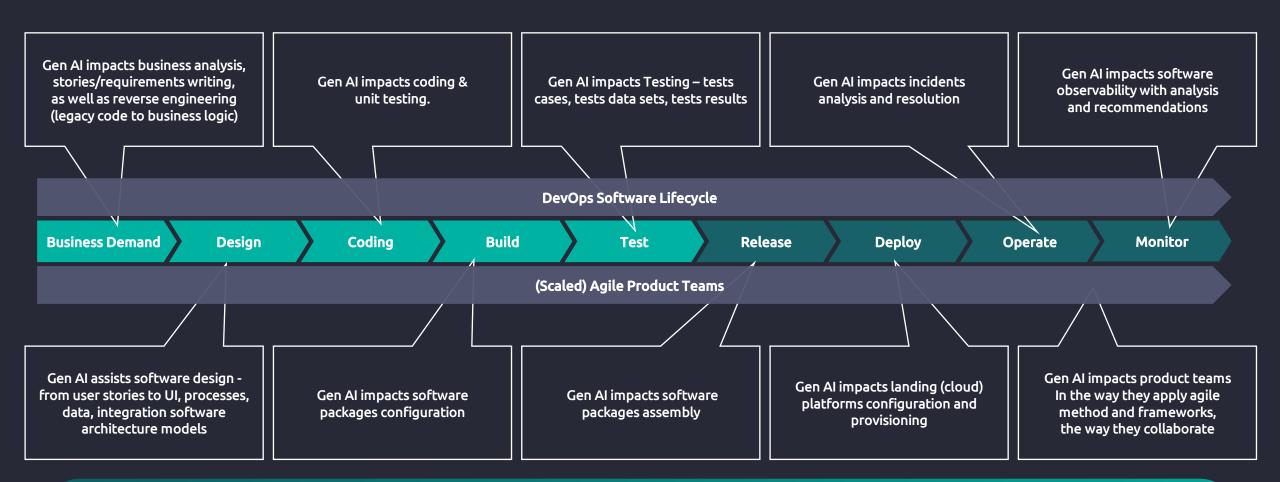
Claims

Service

Sales

Capgemini is also supporting multiple insurers on leveraging GenAl for improving software engineering productivity





Industrialized Software Engineering Platform

(Scaled) Agile Process Management - Developer Workplace (IDE) - DevOps automation toolchain - Tests Automation - Open Source | Vendor solutions

FS INSIGHTS & DATA | INSURANCE OVERVIEW



Gen AI Experimentation

Live Case Study – Software Engineering



Emerging Technology & Innovation in partnership with Capgemini



Purpose of the Experiment

This Experiment is meant to identify areas across SDLC where we have **high benefit** of using Generative AI and those where we have to Explore Further to Augment





What Benefit

Productivity Gains. Time. Effort.



Our Journey



Expected outcomes...



"While the experiment is meant to identify efficiencies across SDLC it is equally important for us to trust the quality of output produced by GenAI"

Model Evaluation

- Evaluating multiple open source and close sourced models as each model lends itself better for certain tasks (e.g., code generation, Q&A, testing etc.)
- Each models have several criteria that are being evaluated (e.g., token size, security, privacy, latency & performance customization/adaptability, hallucination/toxicity prevention, ethical considerations, licensing, cost, bias mitigation, natural language input, documentation, support etc.)

Productivity Gains

- For the use cases under experimentation, our developers have provided the current time and effort required for completing those tasks without GenAI
- At the end of the experimentation, we will also capture the time and effort required for producing similar output with GenAI

We will also also understand experimentation output more broadly...

Are we gaining Better Output Quality?

Are we obtaining Better Documentation?

Is this improving Engineering Experience?

Experimentation Details...





Reach

- 34 use cases identified across code generation, code conversion, code review, testing, documentation & miscellaneous
- 12 prioritized for later experimentation
- 22 use cases detailed with developer pain points, dependencies, steps, outputs & effort spent



Focus Areas

Environment/Code languages covered: Java, Python, SQL, Angular, React, Gosu, AWS, Github, Selenium, Cucumber, Guidewire, Junit, VB Script, Java Script, .NET, Jasmine/Karma



Participating Teams Data, Claims, Enterprise, Personal Lines, Internal Audit, Ent Risk, Small & Middle Large Commercial

Models under consideration

#	Use-Case	Open Source Models	Closed Source Models
1	Code Generation	StarCoder,WizardCoder,Replit 1.3B,Code T5+,CodeGen, Falcon 7B	Code Whisperer, GitHub Copilot
2	Test Case Generation	LaMiNi-LM 738M , MPT-7B , StableVicuna Models	Github Copilot
3	Code Conversion	LaMiNi-LM 738M	Azure OpenAI
4	Q&A	ChatGPT	Azure OpenAI
5	Code Review	TBD	TBD

We will also also understand experimentation output more broadly...

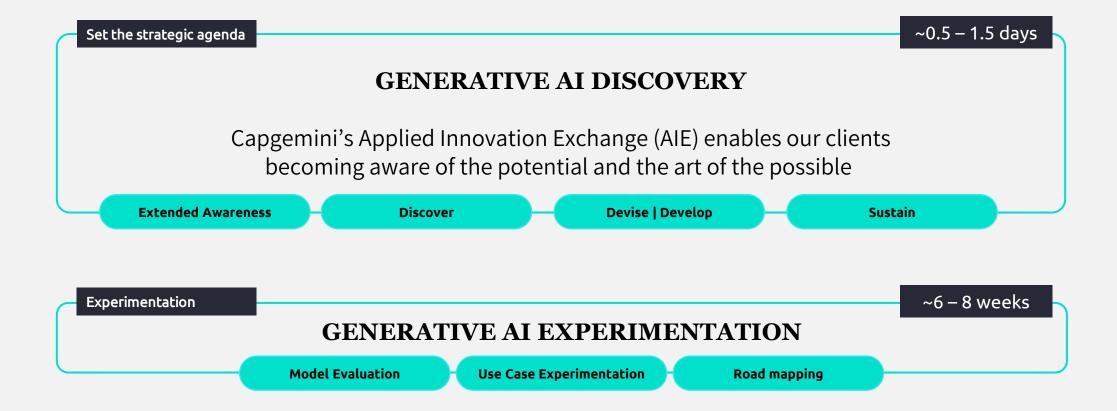
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Are we obtaining Better Documentation?

Is this improving Engineering Experience?



We are partnering with our clients on discovery and experimentation



Capgemini



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