

REINVENTION WITH GENERATIVE AI: CalPERS

January 2025

Content

What is Generative AI? 01

Why is Generative AI Important? 02

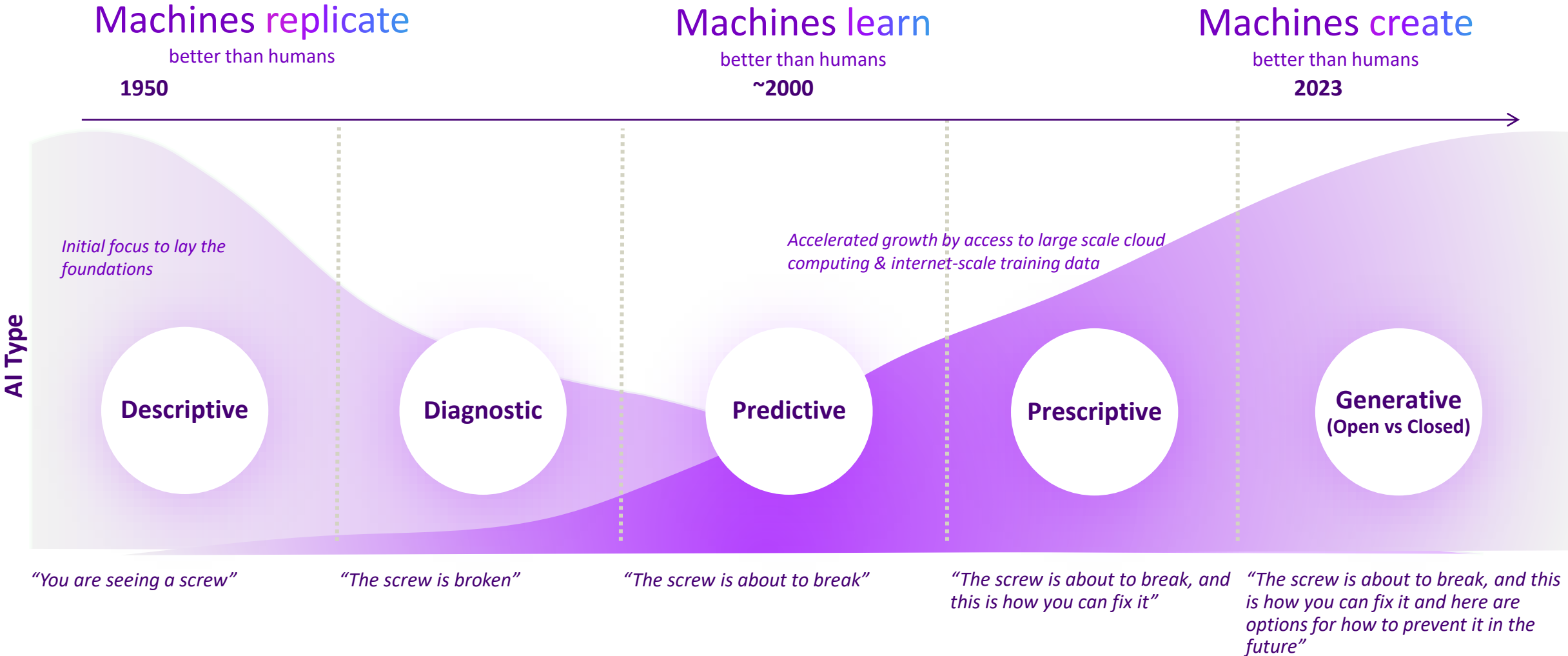
Example: Generative AI Contact Center 03

Reinvention with Generative AI 04

CalPERS Generative AI Readiness 05

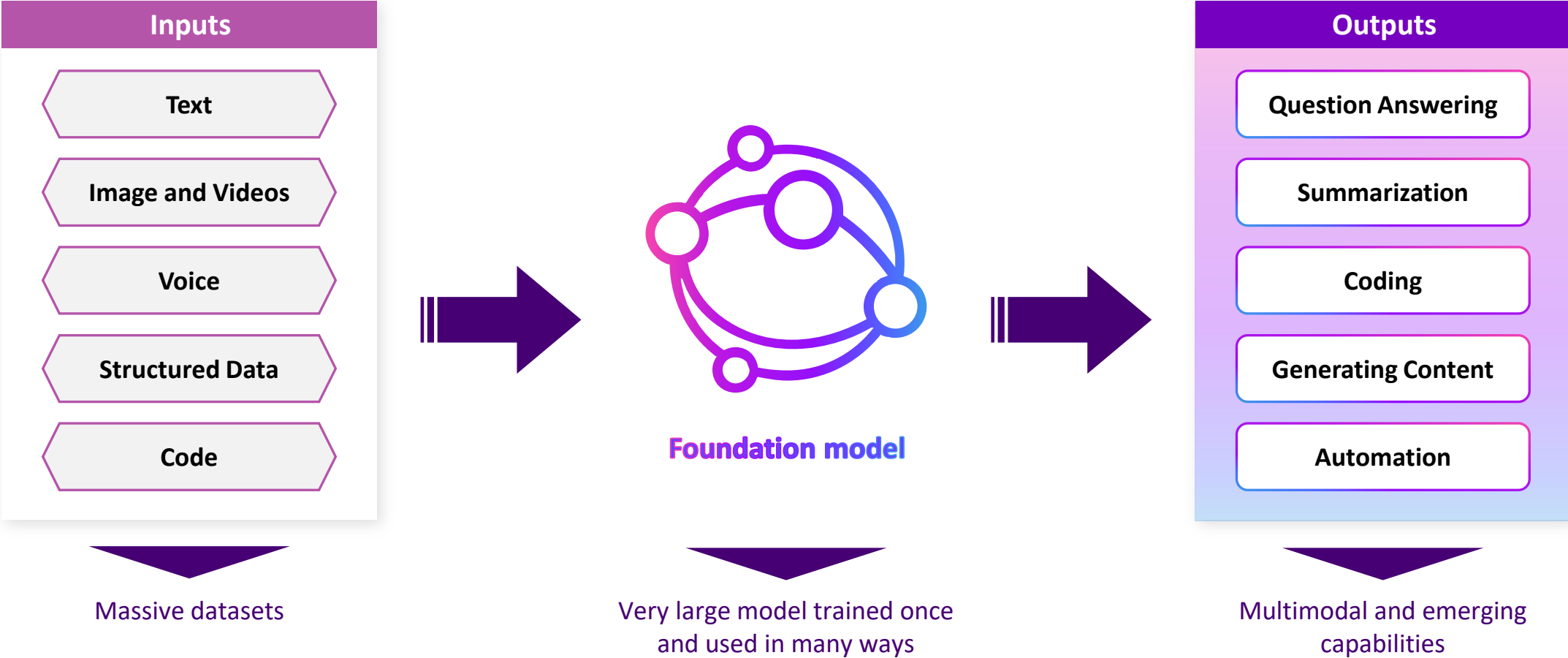
01 What is Generative AI?

The Evolution of Artificial Intelligence



The Basics of Generative AI

Generative AI is a type of artificial intelligence that can create new content (i.e., text, images, and audio) based on patterns it has learned.

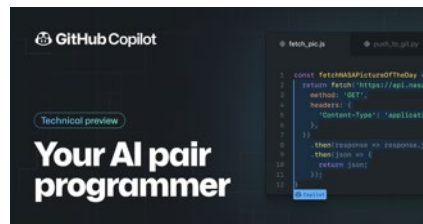


Generative AI: Enhancing Creativity

Generative AI is pushing creative expression forward by giving people tools to create content and optimize organizations.

Video

The Crow, an AI movie, won the 2022 Cannes festival in the category of short films



Code

For developers who enabled it, 40% of their code is written by CoPilot, GitHub's AI assistant. This will make the creative use of code more accessible to non-developers

Images

This is one of the most famous applications as the images AI can create are incredible and even won the top prize in a painting competition



Text

The most advanced domain, which has already passed Medical, Law, and Business exams. As models improve, we will see higher-quality outputs and longer-form content

Speech and Translation

Whisper understands speech better than humans, even with background noise, and can translate between virtually any language



Generative AI Presents Unique Risks and Challenges



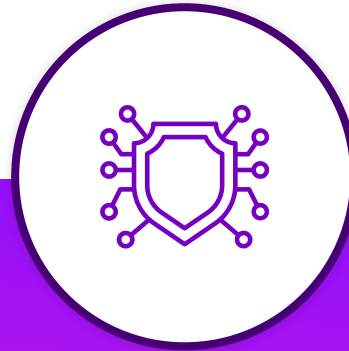
Workforce Displacement

- GenAI's impact is now viewed as more possible for roles that were initially viewed as outside of AI's immediate reach (creatives, lawyers, etc.)



Unreliable Outputs

- Hallucinations
- Explainability and traceability
- Quality, accuracy, interpretability
- Relevancy / consistency
- Disclosure & transparency



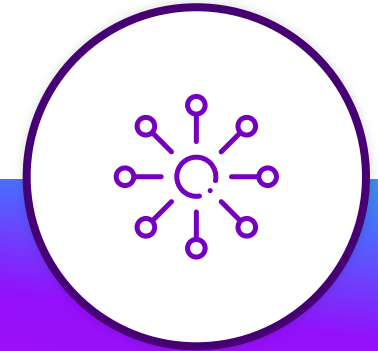
Confidentiality & Security

- Unauthorized disclosure of confidential information
- Security vulnerabilities



Liability & Compliance

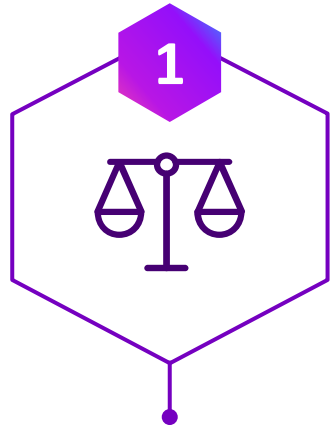
- Copyright, IP, and content ownership
- Regulatory compliance
- Contractual liability
- Product liability
- Consumer protection concerns



Bias and Harm

- Representational harm
- Misinformation
- Toxicity
- Fraudulent attacks
- Disinformation spread
- Harmful content generation at scale

Best Practices in Generative AI



Ethics and Responsible AI Use

Develop guidelines to ensure AI is used ethically and responsibly, focusing on transparency, accountability, and mitigating bias



Data Privacy and Security

Ensure data protection, cybersecurity, and compliance with privacy laws, especially with the risks associated with AI systems accessing sensitive information



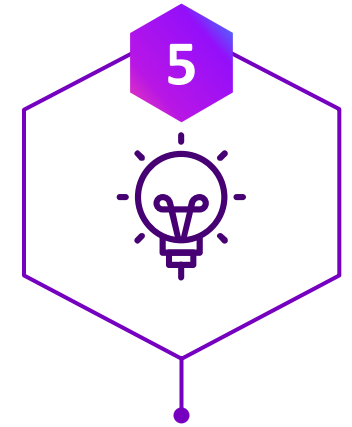
Workforce Development & Training

Prepare the workforce for an AI-driven future by offering training for state employees, upskilling residents, and integrating AI literacy into education to mitigate job displacement and equip workers with new skills



Public Transparency and Community Engagement

Prioritize public transparency to build trust in AI technologies through consultations, resident education, and establishing standards for clear, accessible information on AI usage in government and beyond



Economic and Innovation Impact

Explore how AI can drive economic growth, foster innovation, and create new industries by assessing its potential to attract investment, create jobs, and enhance competitiveness while promoting a regulatory environment for responsible AI development

02 Why is Generative AI Important?

Economic Impact of Generative AI

Ecosystem Investment

Technology companies are investing in AI more than any other technology

+\$200 B

Ecosystem Impact

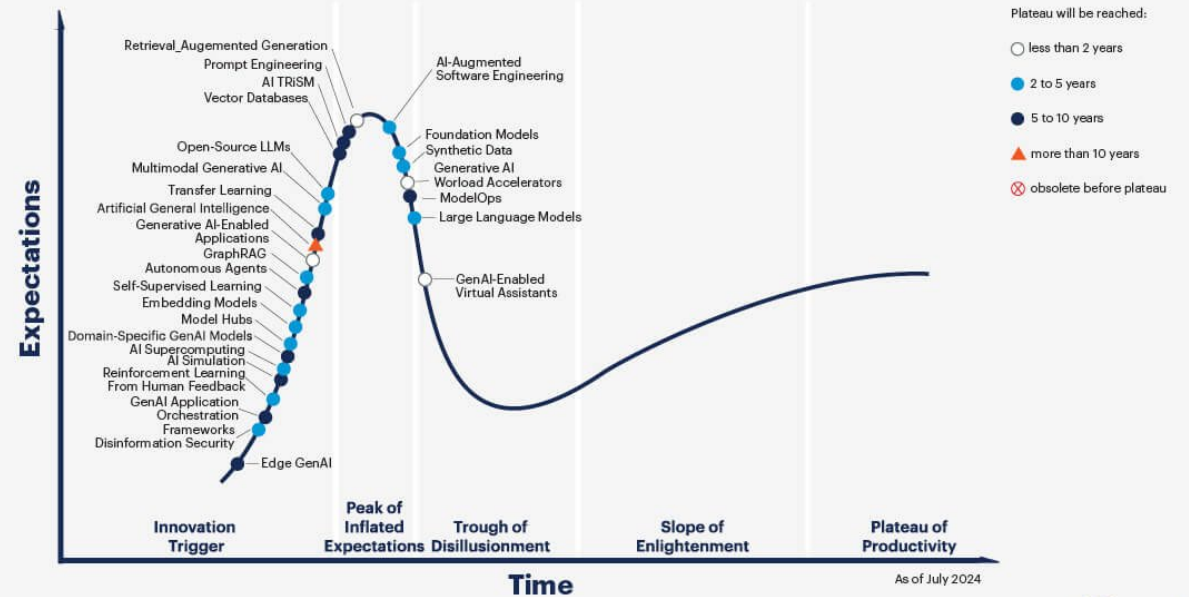
Generative AI could increase global GDP by

\$7 T

Generative AI could increase annual US GDP by

up to
1.5%

Hype Cycle for Generative AI, 2024



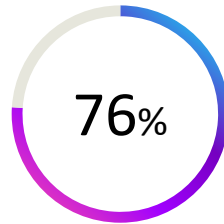
Source: Gartner
Commercial reuse requires approval from Gartner and must comply with the Gartner Content Compliance Policy on gartner.com.
© 2024 Gartner, Inc. and/or its affiliates. All rights reserved. GTS_3291353

Gartner

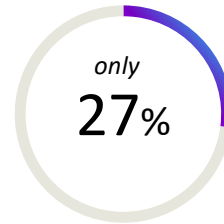
Executive Perspective on Generative AI

Catapulted by advances in GenAI, technology is the no. 1 cause of business change

(Accenture research)



Of executives saw GenAI as more of an opportunity than a threat



Of executives claim their organizations are ready to scale up GenAI

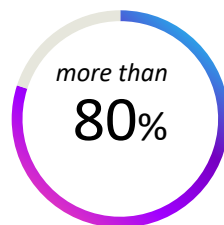
GenAI has become a top priority for Executives

53.8% of Execs

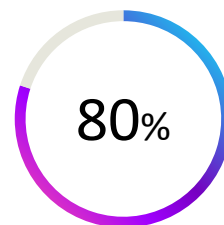
“Lack of AI governance and risk management solutions limit scale”

GenAI has become a top priority for the C-suite

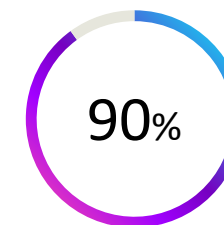
(Gartner research)



Of enterprises will have used GenAI APIs or models, and/or deployed GenAI-enabled applications in production environments by 2026



Of conversational AI offerings will have GenAI embedded by 2025, up from 20% in 2023



Of service providers will use GenAI for software development services by 2027

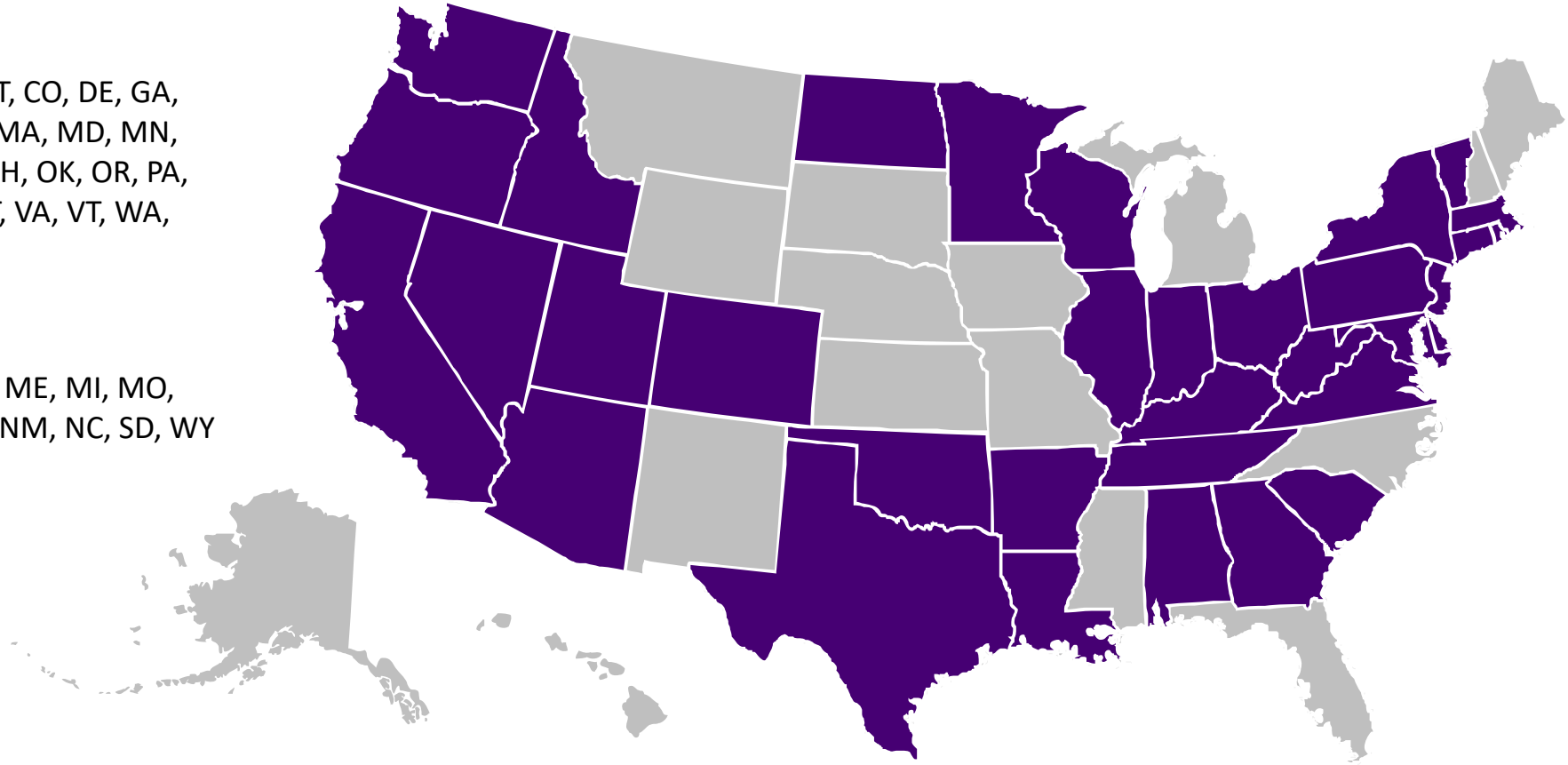
A Look at AI Task Forces Around the Nation

ESTABLISHED AI TASKFORCE

AL, AR, AZ, CA, CT, CO, DE, GA, ID, IL, IN, KY, LA, MA, MD, MN, ND, NJ, NV, NY, OH, OK, OR, PA, RI, SC, TN, TX, UT, VA, VT, WA, WI, WV

NO ESTABLISHED AI TASK FORCE

AK, FL, HI, IA, KS, ME, MI, MO, MS, MT, NE, NH, NM, NC, SD, WY



Generative AI in California

Through GenAI Executive Orders, summits, and partnerships, Governor Newsom is enabling California to lead the charge in Generative AI use in both the public and private sectors.

In the Public Sector...

*“State agencies and departments shall consider procurement and enterprise use opportunities where **GenAI can improve efficiency, effectiveness, accessibility, and equity** of government operations” – Governor Newsom*

California is partnering with vendors to “test, iterate, and evaluate” Generative AI across agencies, including:

Protecting vulnerable road users

Enhancing customer service

Reducing roadway congestion

Improving language access to state services

Improving healthcare facility inspections

Source: [Government Technology](#)

In the Private Sector...

California is home to **32** of the worlds **50** leading GenAI companies

Governor Newsom has signed new partnerships with private sector companies to tackle challenges like:

Training & education




Job creation and innovation

Creating housing

Connecting people to treatment

Source: [Governor Gavin Newsom, GenAI for CA](#)

Generative AI in the Public Sector

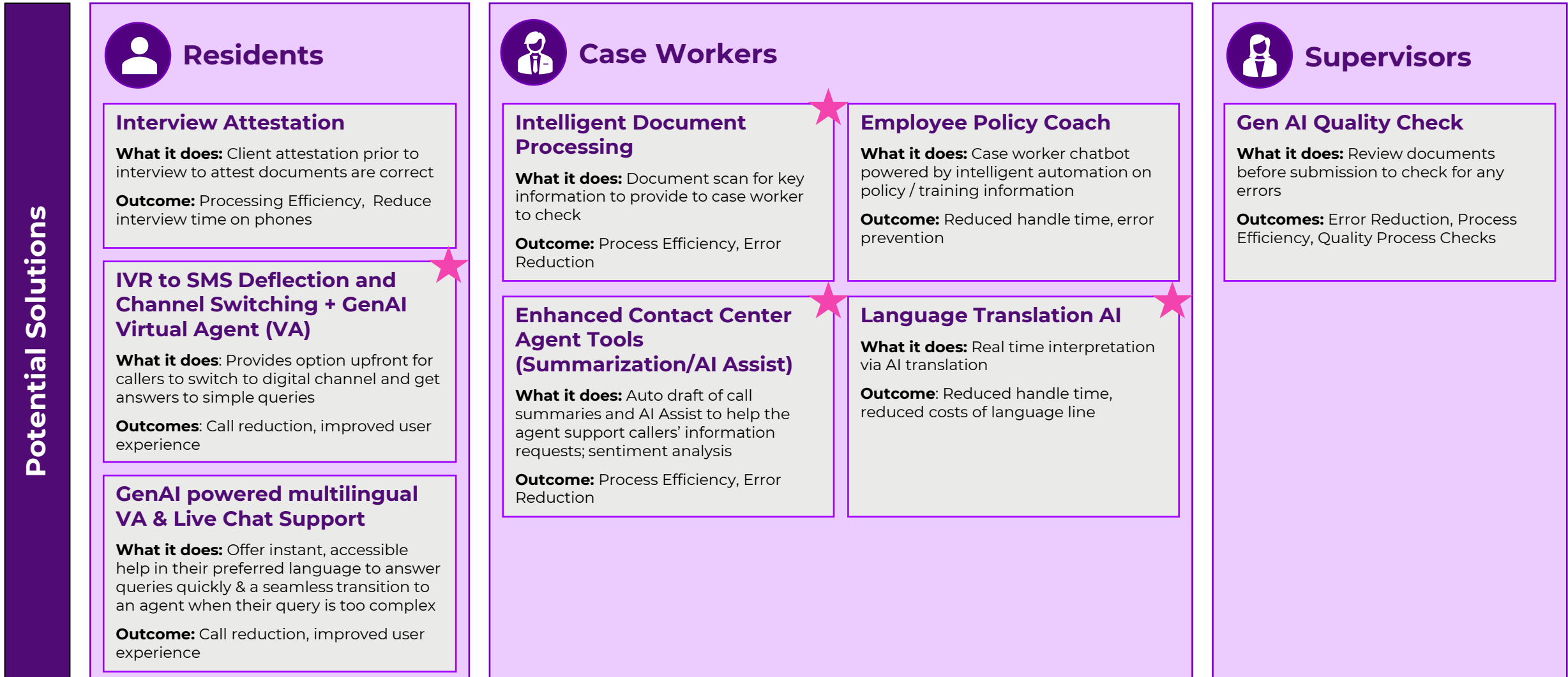
| Priority Area | Objective | Top Use Cases | Example Client Story |
|---|--|--|--|
|  Resident Services | Changing the quality and value of resident experiences | <ul style="list-style-type: none">• Virtual Agent to Optimize Call Center performance• Case Management processing• Chat bots to accelerate citizen experience and access to data | US State Tax Department: Working with AWS to replace the existing machine learning algorithms with an LLM for incoming call intent Discovery. This will be available in August 2023. |
|  Workforce | Transforming workforce operations through automation and augmentation | <ul style="list-style-type: none">• Worker Co-pilot to reduce backlog and prioritize social service claims• Enhanced analytics to optimize decision making• Training and onboarding support | UK Social Services: Working with AWS building a worker co-pilot to help social services analyze and respond to 35k citizen communications and eliminate a 4 week backlog. |
|  Enterprise | Enabling end-to-end data led transformations at scale | <ul style="list-style-type: none">• LLMs deployed at enterprise scale to radically optimize complex workflows and document processing• Automated Benefit administration• Identity and security mgmt – addressing online threats to cyber security, improved response to non-emergency calls, etc | Federal Agency: Working with Google deployed LLM for a federal agency with 10,000 workers. Significantly reduced processing and submission time and estimated annual savings of \$150M. |

03 Examples: Contact Center, Healthcare, and Investments

Automation/AI Solutions Framework

Short-term win & direct impact to improve operational performance.

Automation solutions to advance operational efficiencies and key performance in the following functional areas:



Contact Center Agent Assist

Accenture collaborated with a State to optimize Call Agent workflows using GenAI technology, enhancing both agent and caller experiences.



Post-Call Summary & Real-Time Transcript

- Real-time transcription of ongoing call, agents can follow along
- Summary gets generated 2-5 seconds after call ends
- Call summary provides high-level details of full conversation, including actions taken by agent and caller during the call, and next steps



Knowledge Article Suggestions

- Real-time suggestions of Knowledge Articles for agents to reference based on intent of the conversation between agent and caller
- Each suggestion will include a bulleted summary of the Knowledge Article to give the agent context

Benefits Include...

Reduced AHT – Simplifies the ecosystem the agents need to navigate and reduces multi-tasking, as well as talk time and time spent on hold.

AHT decreased by 10%

Increased First Call Resolution (FCR) & Customer Experience – By streamlining activities and prompting the right information agents deliver insights to the customers quickly and efficiently.

Increased Agent Engagement – Enables agents to improve active listening skills and remain engaged with the customers during calls.

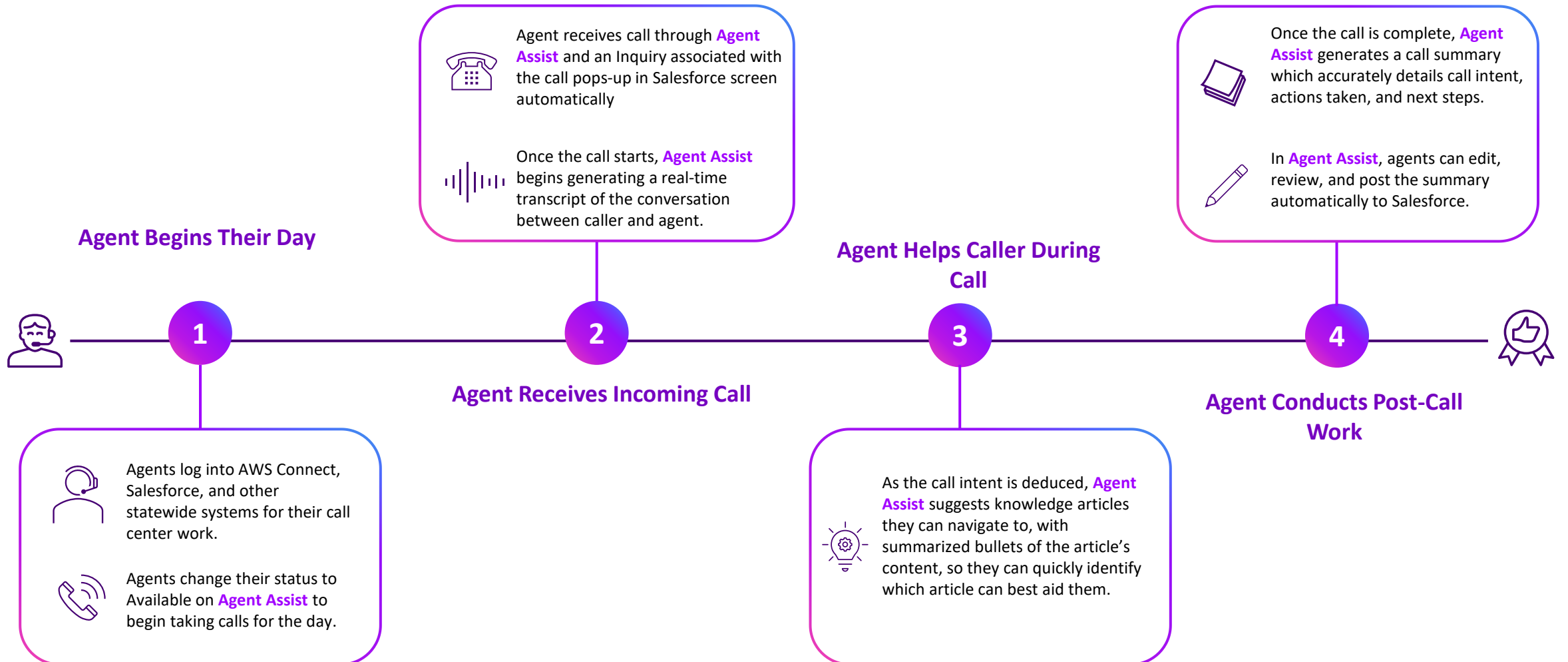
Increased Consistency – The generation of the Call Summary creates standardization when it comes to details captured from calls.

Reduced Agent Attrition – The number of screens agents are expected to juggle during and after calls decreases with call details centralized in one place; provides an improved agent experience and helps them become more competitive and efficient.

FNS-Approved GenAI – This GenAI solution has been approved for other similar clients by FNS, due to the intended use.

How Does Agent Assist Work?

A day in the life with a Call Center Agent



Healthcare Document Lifecycle

Accenture collaborated with a local Healthcare Agency to optimize their lengthy document lifecycle using Generative AI.



Voice Recognition

- Speech-to-text solution allowing clinical staff to document patient interactions more efficiently
- Shortcuts embedded in the system, allowing providers to seamlessly dictate notes into a patient chart



Suggested Document Improvements

- Real-time suggestions of improvements for providers as they are documenting care
- Messaging tools allowing specialists to actively communicate with providers, aimed at improving quality and completeness of documentation

Benefits Include...

Improved Patient Care

by increasing the accuracy and quality of clinical documentation, as well as enabling providers to remain engaged with patients throughout their visit

Increased Healthcare Staff Satisfaction

by increasing efficiency and augmenting their work experience by using state-of-the-art tools and software

Improved Ability to Capture Revenue and Enhanced Financial Security

by increasing quality and completeness of clinical documentation, providers will have access to better data used for revenue capture and external reporting

Investment & Corporate Research

The Challenge

Investment researchers spend significant amounts of time to find relevant investment research content across various portals to generate insights and thesis before making informed investment decisions. This process is a costly and time-consuming process that may lead to inconsistent analysis that includes biases and subjectivity and potential errors.



The Solution

- Generative AI (GenAI) can be used to augment the investment research process by understanding a company and its nuances, the macro market trends, and determine analyst and social sentiment through analyzing a range of data sources, including financial statements, news articles, and social media; piecing together the different pieces to create investment research reports to help make investment decisions
- GenAI can create multiple financial models to test run simulations simultaneously with different set of variables and perform various calculations like DCF, P/E ratios & other valuation metrics to determine the valuation of the companies

The Outcomes

- Creating a pre-defined customized tool that will aid in extracting information from large reports into a summarized form will improve efficiency and focus of researchers, allowing them to use their time more effectively while reducing inputting error. With this tool, researchers have freed up time to review additional investment opportunities and have an increased level of customization to generate additional returns.
- We believe that this solution could **reduce time spent on summarizing documents by up to 30% and an overall 20% cost reduction on FTEs**, allowing FTEs to focus their attention on analysis rather than data gathering and other value-add tasks.

TARGET USERS

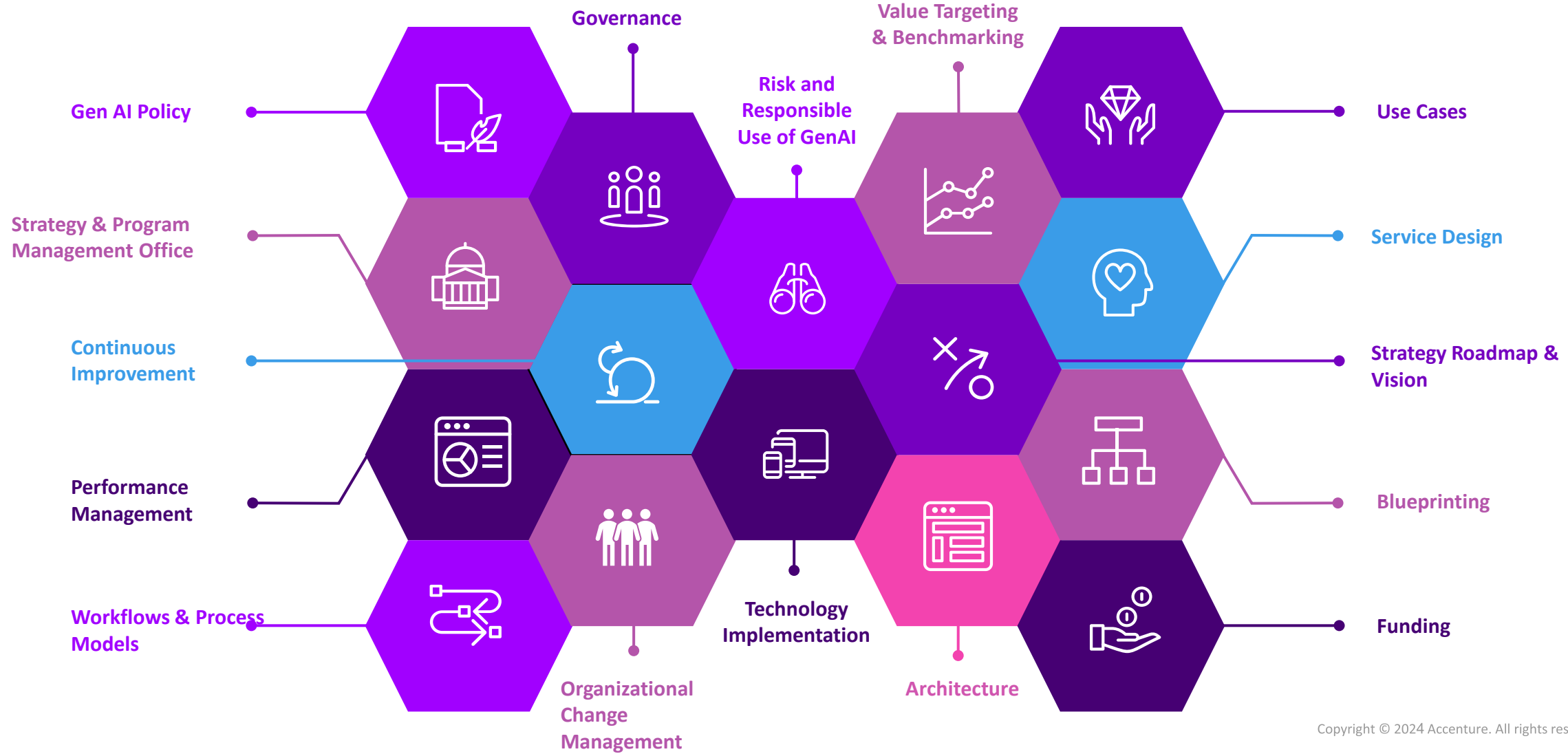
- Financial advisors
- Relationship managers
- Client facing financial services professionals

KEY INPUTS

- Financial statements
- Market data
- Regulatory filings
- News articles and reports
- Social media data

04 Reinvention with Generative AI

Core Elements for an Organizations AI Strategy



Five Key Questions for Reinvention with AI

1

How do I prioritize investments?

2

Is my data & technology ready for AI?

3

How do I make the right ecosystem decisions?

4

Are my people ready?

5

Where is AI being used? Am I balancing the value and risks?

05 CalPERS Generative AI Readiness

CalPERS Generative AI Readiness

Project Objective: Accenture is supporting CalPERS in achieving **readiness for Generative AI implementation** through technology and policy evaluations, documentation and standards, and strategic road mapping.

Current State Assessment

Policy, Infrastructure, Data, and Governance

- Assess current CalPERS policies, infrastructure, data, and capabilities, **identifying growth areas** prior to Generative AI implementation
- Understand where CalPERS is now, to help **propel the organization into the future**

Documentation and Standards

Architecture & Security, Responsible AI

- Define **security and architecture standards** for GenAI implementation, including frameworks and **best practices**
- Create **workflows and process models** for GenAI risk mitigation and program management

Planning and Strategy

Future State Vision and Use Cases

- Refine and prioritize **Generative AI use cases** for CalPERS
- Create **strategic roadmap and vision** on prioritized use cases, including impact to current business processes

Thank You!