

The Deloitte logo is positioned in the top left corner. It features the word "Deloitte" in a white, sans-serif font, followed by a small green dot. The background of the entire slide is a dark blue, high-tech digital interface. It includes a central globe, various circular icons with symbols like gears, a lightbulb, and a person's head, and several data visualization elements such as bar charts, pie charts, and progress indicators. A robotic arm is visible on the left side, and a human hand is on the right side, both appearing to interact with the digital elements. The overall aesthetic is futuristic and data-driven.

Deloitte.

KGRAIL

The Deloitte.'s AI framework for
generative AI technologies

JANUARY 2024

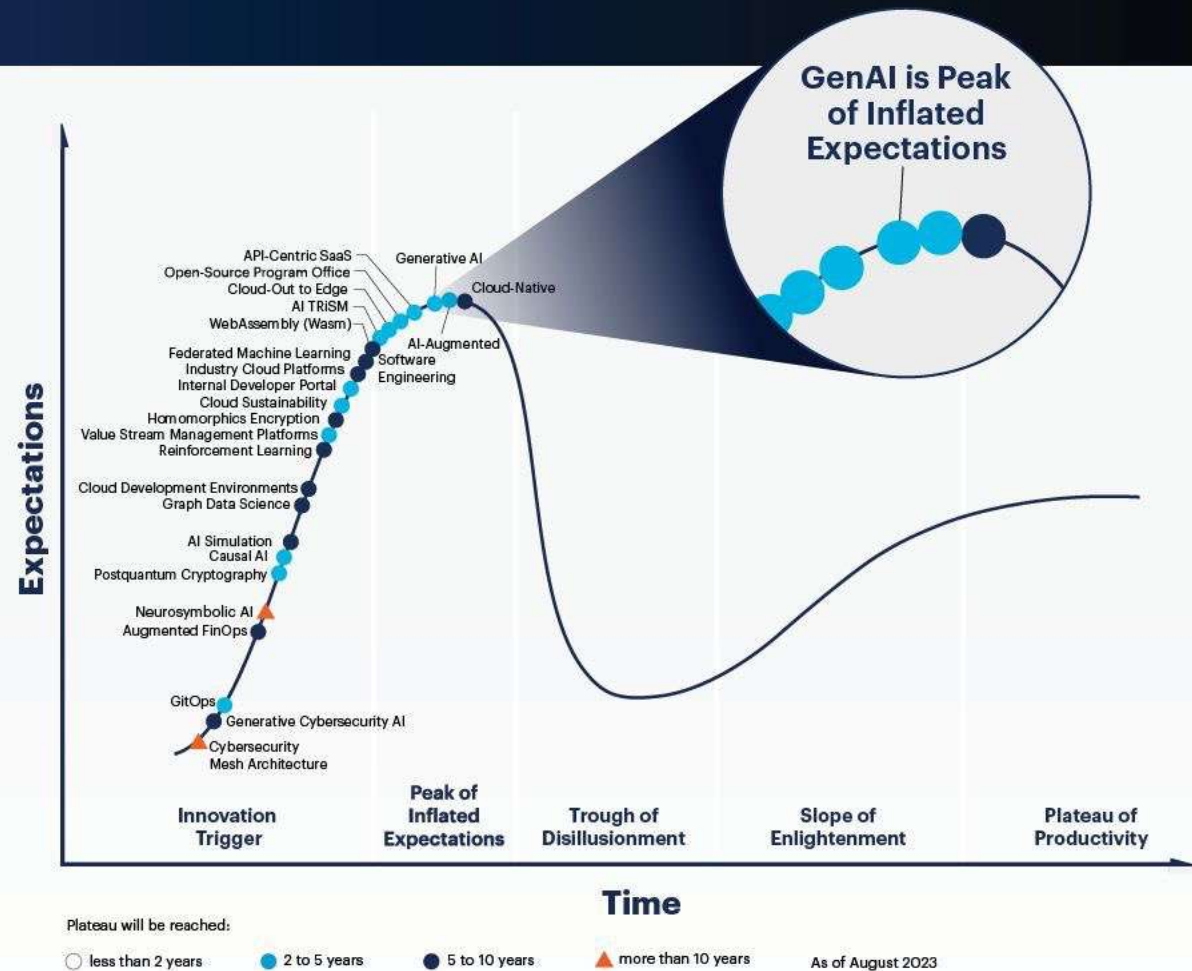
INTRODUCTION

Command Prompt : |

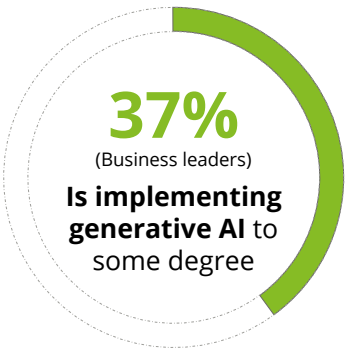
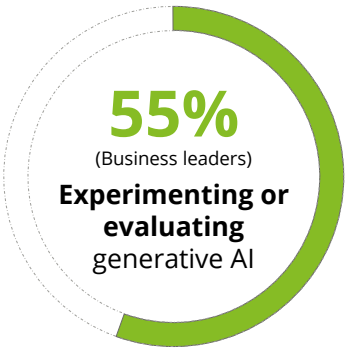
ChatGPT

Ai

Hype Cycle for Emerging Technologies, 2023



Source: Gartner
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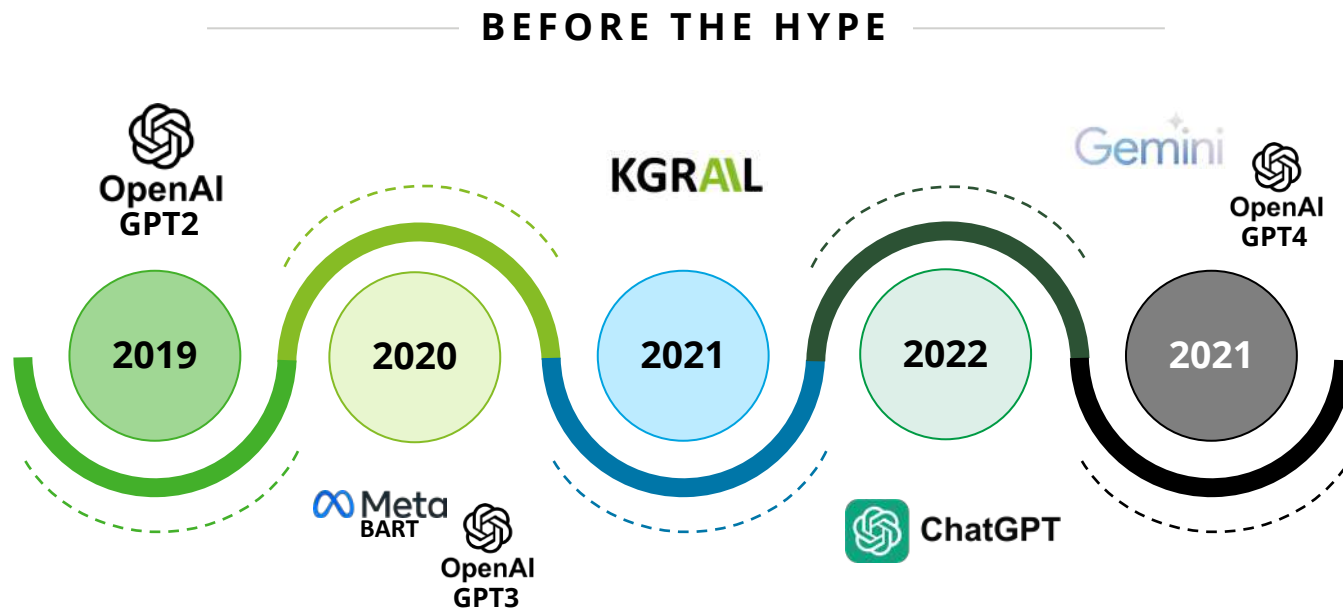
Fortune/Deloitte CEO Survey Insights 2023



310
(billions \$)

Expected AI **global market volume** in the next three years

Since Generative AI hype exploded, enterprises have been **scrambling to determine how their businesses might benefit**. When Generative AI burst onto the scene, Deloitte had **already implemented its internal framework KGRAIL** that has been **supporting for years our professionals in the creation of successful innovative generative AI solutions**, as in the case of ANSA



«The question is no longer whether AI tools are intelligent. Today the question is more about how to **deploy these cognitive tools in ways that provide real business impact**.»

- Deloitte Tech Trends 2024

The background of the image features two hands reaching towards each other. The hand on the left is a human hand, appearing to be covered in a fine, multi-colored digital or particle-like texture. The hand on the right is a digital or robotic hand, rendered with a green wireframe mesh structure. The hands are positioned as if they are about to shake or are in a gesture of connection. The entire scene is set against a dark, gradient background that transitions from a deep purple on the left to a dark blue on the right. A thin, bright green rectangular frame is superimposed over the image, enclosing the central text and the hands.

MAKING AN IMPACT WITH KGRAIL



DELOITTE AI INSTITUTE

Published in its storefront since December 2021

store.deloitte.ai/catalog/global/DCS5971

KGRAIL is the **Deloitte's AI framework** for generative AI used as **booster to manage innovative solutions** for clients and as the **core technology for any AI tailor-made solution**, reducing dramatically its time-to-market

DRIVERS OF INNOVATION



SYNERGISTIC APPROACH

Ensembles Foundation Models with Symbolic NLP, defining the State-of-Art in Sentiment Analysis (+20%) and Semantic Role Labeling (+1%)



CROSS-LANGUAGE

Clusters, classifies and summarizes texts language-independently, allowing their cross-language semantic search (100+ languages)



BANNING OF HALLUCINATION

Proprietary approach eliminates hallucination in generative AI task such as summarization

KGRAIL integrates the **latest multi-modal cutting-edge** technologies available on the market **enabling multiple functionalities and unlocking innovative use cases**



MINE INFORMATION

- **Sentiment & Reputational** Analysis
- **Brand** Positioning
- Workforce **Mood Analysis**
- **Psycholinguistic** Analysis



MANAGE INFORMATION

- Information **Extraction**
- E-mail and Texts **Classification**
- Automatic **Responding**



SEARCH FOR INFORMATION

- Cross-language **Semantic Search**
- **Semantic proximity** navigation



GENERATE

- Automated **Journalism**
- Language **simplification**
- **Translation**
- Empathetic **Virtual Assistance**

KGRAIL KEY FACTORS



HIGH FLEXIBILITY

KGRAIL ensures a high level of flexibility **adapting to the clients needs and preferences**. It is easily deployable in **both cloud and on-premises** contexts and **enables rapid customization of solutions** according to specific domains



VENDORS INDEPENDENCE

KGRAIL integrates open-source foundation models and the latest LLMs available on the market, empowering users with the **freedom to break free from specific software vendors** and their development roadmaps, offering a versatile and vendor-agnostic solution



HUMAN-CENTRED APPROACH

KGRAIL embraces an **anthropocentric approach**, aligning with European principles, emphasizing the **pivotal role of "human in the loop"** and consistently adheres to European regulations, fostering a responsible and compliant AI framework

Positioned strategically within the generative AI landscape, our solution stands out by **offering a tailored and customized approach**. We ensure a customized strategy through **careful selection and tailor-made customization of models**. This precision optimally caters to the unique needs of our clients, bringing a **superior level of adaptability and performance to real-world challenges**

Gartner Generative AI Framework

	KGRAIL				
Desired Content Type	Non-Sensitive Text	PII/Enterprise IP Included	Enterprise Data and Model Instructions Needed	Model Fine Tuning to Improve Use/Performance	Custom Model Is Created for Unique Use Case
Enterprise Control Level	No Controls Needed	LLM With Privacy	LLM With Privacy, Policies and Data	LLM w/Privacy, Policies, Data and Added Model Layers	Enterprise Hosted Custom Differentiated Model
Solution Needed	ChatGPT	LLM API Accessed via Application Frame	LLM API With Standard Privacy, Policy and Per Incident Data Injection	Modified LLM With Transfer Learning/Added Layers to Adjust Model Output	Custom Build LLM Using Enterprise Accessible Data
Required/Recommended Technologies	Open AI Hosted Application	Cloud Instance With LLM APIs	Cloud Instance With LLM APIs, Prompt Engineering, Custom Policies, Indexed Database	Licensed Customizable Model/Proprietary Model, Data, ML Platform	Custom Build Proprietary Model, Data, ML Platform
Cost	Negligible	\$	\$\$\$\$	\$\$\$\$\$\$\$	\$\$\$\$\$\$\$\$\$\$\$\$

Source: Gartner
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KGRAIL AT-LARGE SUCCESS STORIES

Over the years, we've strategically implemented generative AI solutions. Our approach goes **beyond the conventional**, aiming to help businesses not only adapt but thrive in a competitive landscape. **The KGRAIL-based solutions we've presented to our clients embody this strategic vision**, showcasing our dedication to providing cutting-edge generative AI solutions that set them apart from competitors

AUTOMATED
JOURNALISM

IMAGE
RECOGNITION

LEGAL
DESIGN

MAIL CLASSIFICATION
AND RESPONDER

CROSS-LANGUAGE
SEMANTIC SEARCH

WORKFORCE
MOOD ANALYSIS

INFORMATION
EXTRACTION

TEXT
CLASSIFICATION

BRAND
POSITIONING

MAIL
DISPATCHER





THANKS

Deloitte.