



Generative AI

Handbook

What to know and what
actions to take to prepare
your business for an era
of exponential innovation





Table of contents

Introduction Boundless potential at our fingertips	3
Landscape How we arrived here, where we may be headed and meeting the natives	4
Basics The strengths, weaknesses and unknowns of the technology	8
Applications Known and expected use-cases of Generative AI in enterprise environments	12
Responsible AI Deploying Generative AI solutions in a responsible and effective way	21
Readiness Practical guidance for adapting and leading in a Generative AI world	26

Introduction

Generative AI will reshape every industry. But when?

There's little question that Generative AI is the hot topic of business in 2023. We believe that it will transform business through new levels of human-machine collaboration. Throughout this guide you'll find statistics, predictions and points of view that we hope will spur deeper thought into how your company should apply this technology to innovate and move forward. While we appreciate the sense of urgency in applying generative AI, our conversations with clients also reveal some understandable trepidation. Executives are curious about Generative AI, but they're also wading in with some caution.

In September, 2023 Cognizant research showed that executives across the Fortune 1000 (of which we interviewed over 800 in the US and Europe) are enthusiastic about Generative AI (99% of respondents) but also at least somewhat concerned about its unpredictable nature (88%). Even more are concerned about data exposure, security risks and reputational harm.

Moreover, almost all organizations are funding some degree of Generative AI research today, but many leaders (30%) don't even believe it will impact their industry within the next two years in any significant way.

For most of the leaders that we spoke with, it's not about "if" Generative AI will impact their business, but "how long do we have?"

A handbook for
making progress
towards Gen AI.

This research aligns with the client conversations we've been having. Across industries, there is plenty of activity, but it's just the beginning – tuning of models, building proofs of concept and gauging impact.

We wrote this handbook as a reference-point to provide insight to steer enterprise exploration of this technology, but the rules of engagement are changing rapidly as practical experience refines our thinking on the possible.

Nobody is a know-it-all in this space, but we can work together to help businesses make better decisions, increase productivity and deliver superior experiences in a responsible manner.

While rushing in is foolish, exploration, skills-building and foundation-laying certainly is not.

Let's start the journey.

Landscape

The human-like ability of Generative AI to converse, consider and create has captured imaginations. By understanding how we got here – and the decades of thinking that led us to Generative AI – we can better predict what's coming next.



Landscape

How we arrived here

An innovation boom 75 years in the making

In the summer of 2022 – well before Open AI's ChatGPT exploded into the public discourse – Generative AI began generating media buzz when a recently-fired Google Engineer claimed¹ their LaMDA model might be sentient.

True or not, this wasn't an entirely surprising claim for artificial intelligence. We've been expecting this.

Since Alan Turing's 1950 "Imitation Game" (Turing Test) proposal, we've imagined a future of computers with human-like intelligence, personality and autonomy. Today, we seem to be accelerating towards that disruptive future.

If and when we reach sentient AI is anybody's guess but Generative AI presents a significant new milestone in this journey, sparking new interest, innovation and discourse. Here's how we arrived at this moment.

Expert Advice

“Generative AI sits within the context of decades of research into AI. We are now entering the era where this technology will start to fundamentally transform businesses.”



Naveen Sharma
Head of Artificial Intelligence
and Analytics Practice

