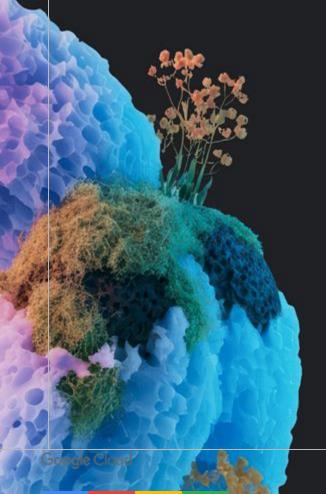
Al Transformation: The CIO Playbook

Strategic imperatives for transitioning towards an Al Future



Andy MacInnes
Director, Retail Engineering,
EMEA



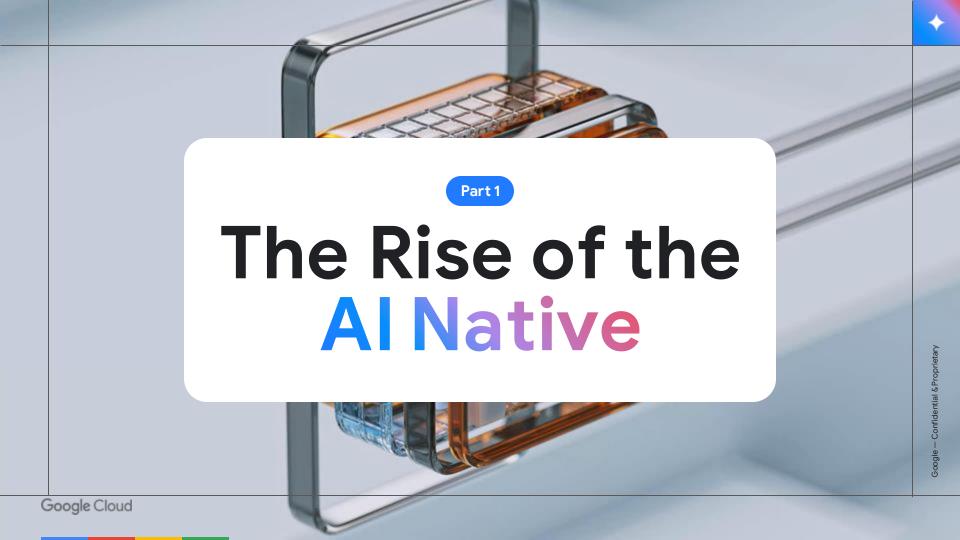
Part 1 The Rise of the Al Native

Part 2 Google Differentiation

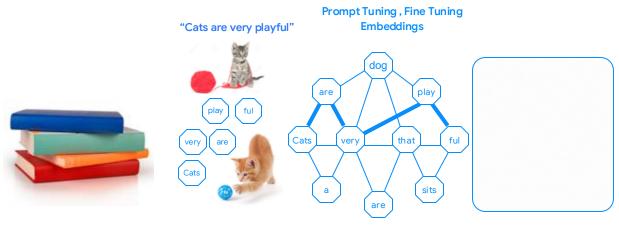
Part 3 Google's Journey

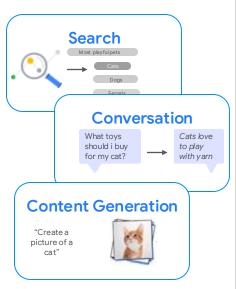
Part 4 Transformation Examples

Part 5 How to Start



The Basics of Generative Al





Corpus
All written text on cats

Tokens is codified,

Training patterns emerge

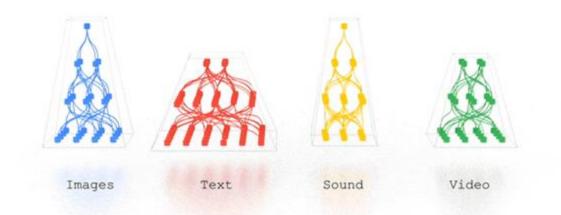
Trained Foundation
Model
And a model learns these.

Inference

And can answer questions in human like format and even create.

Multimodality

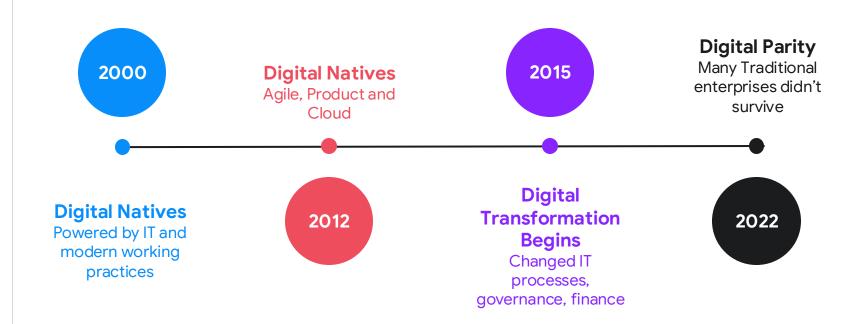
The ability to reason across different types of input



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History: Digital Natives, Digital Disruptors



Al Transformation will be more profound with a New Mindset, New Challenges

Digital Transformation

- Digitised working practices
- Affected IT teams the most
- Modernised customer facing technology
- Speed to market > data quality
- Changed governance and finances

Data Transformation

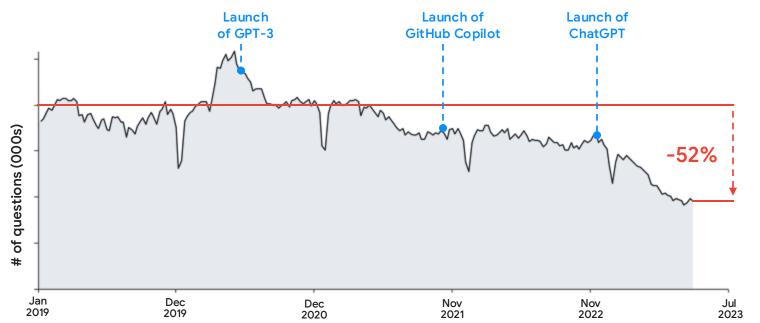
- Initiatives to Democratise Data or become "data led"
- Data used to help decision making or to show past performance
- Early adoption of Al
- Especially valuable with customer and product data

A.I. Transformation

- Affects everyone. Most roles become augmented
- Data quality at the heart of everything
- Radical Self Service
- Organisational structures challenged
- Initiatives to Democratise Development
- Full adoption of Al
- All business data valuable
- Business choose new propositions on ability to gather data

GenAl is already disrupting traditional software development ways-of-working

Stack overflow weekly average of # questions posted (in thousands)

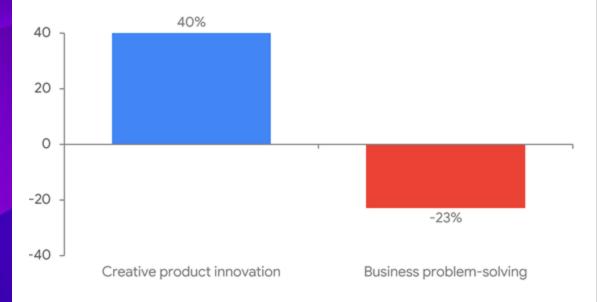


Google Cloud



Gen Al is A Double -Edged Sword

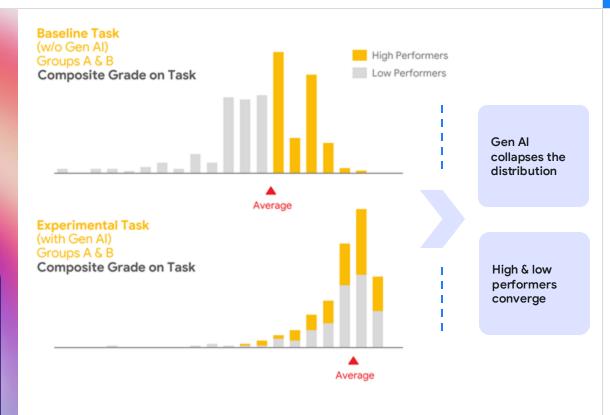
Difference in individual performance compared to control group (%)



Source: Human-Generative Al Collaboration Experiment (May-June 2023); BCG Analysis

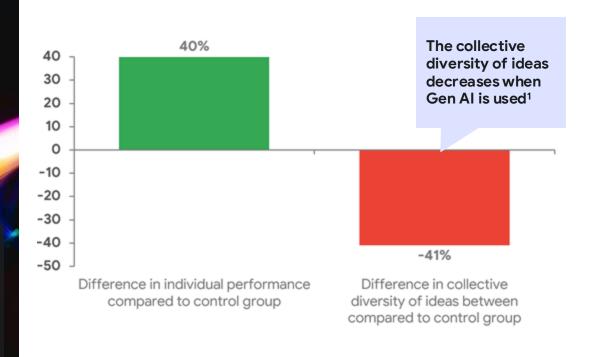


Humans as complementors to Gen Al



Source: Human-Generative Al Collaboration Experiment (May-June 2023); BCG Analysis

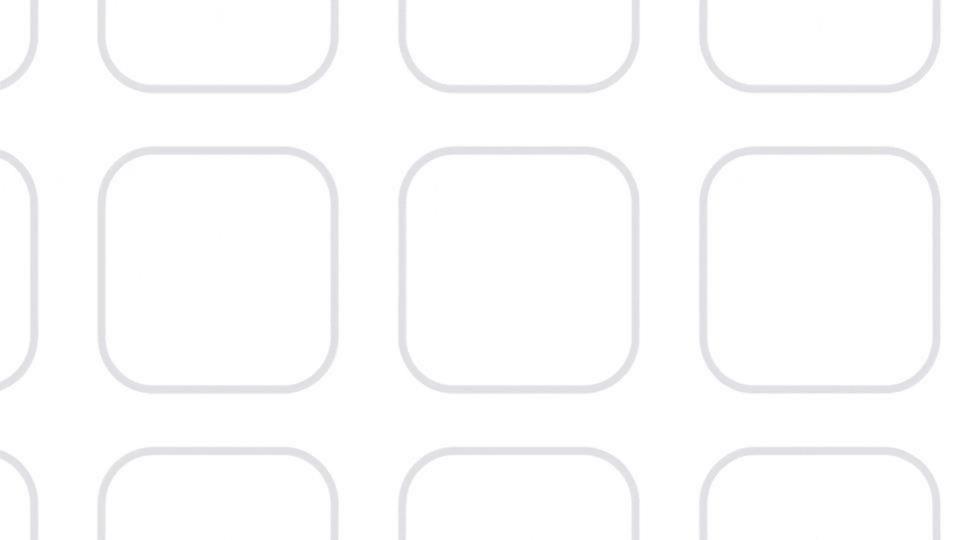
Creativity and Innovation Traps



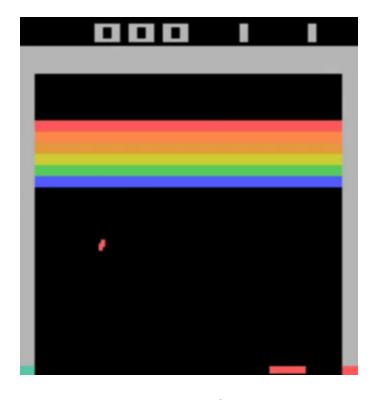
Source: Human-Generative Al Collaboration Experiment (May-June 2023); BCG Analysis 1: Diversity of ideas was measured using TF-IDF and cosine similarity methodologies

Google Cloud





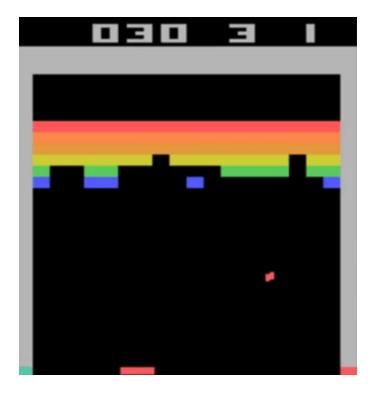




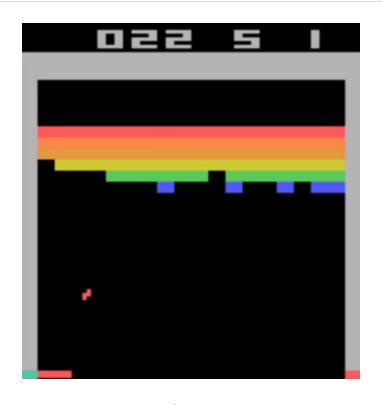
After ten minutes...

Google — Confidential & Pr





After two hours...



After six hours...













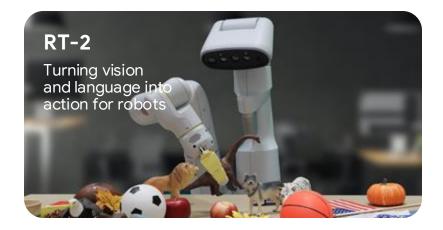
2016 AlphaGo

2017 AlphaZero

2019 StarCraft

2020 Muzero







SIMA

Navigating complex virtual 3D environments



AlphaGeometry

Solving Olympiad-level maths problems



Google Cloud

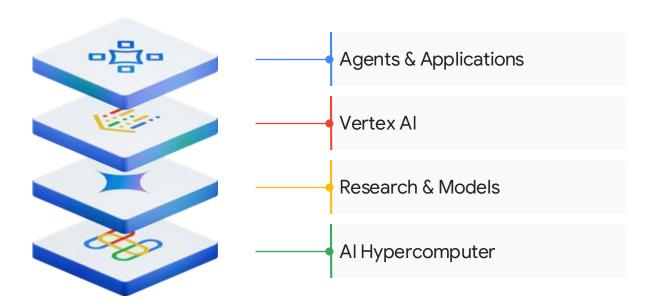
Part 2

Google's Differentiators

Google Cloud

Google Cloud's unified Al stack

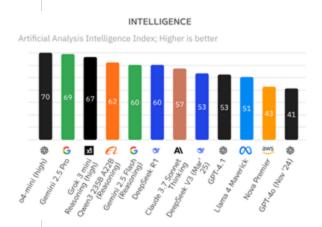
Google engineered end to end open environment

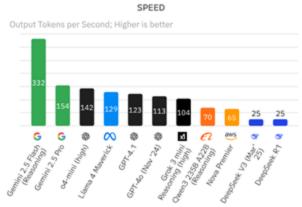


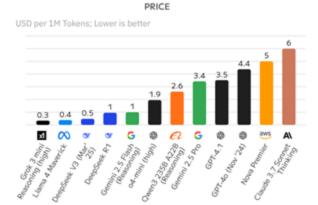
Francis & Proprie

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Asymmetric Value







Part 4

Transformation Examples



Gemini for Google Workspace



Helps you write

Gemini works behind the scenes to help you write — whether it's refining existing work or helping you get started



Helps you create images

With Gemini, you can easily create images for presentations and meetings from a simple prompt



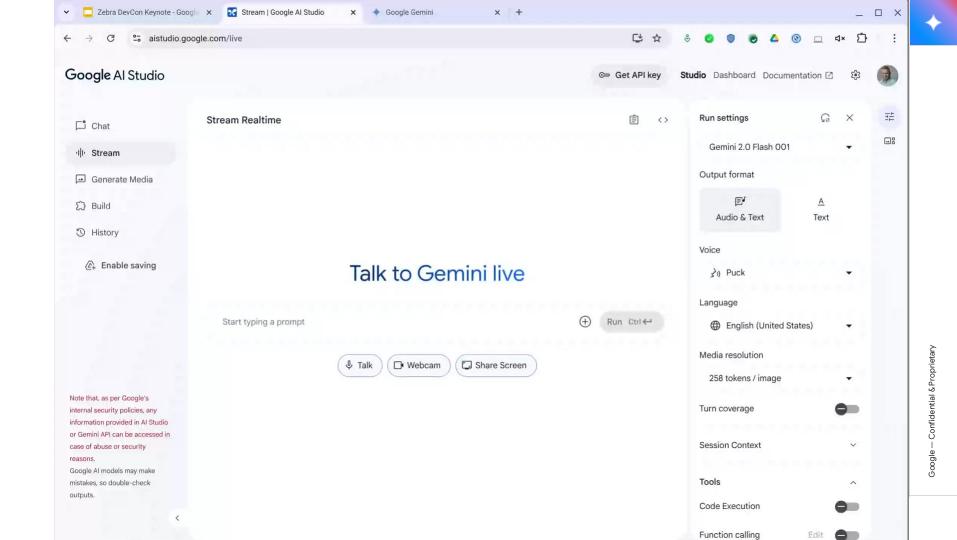
Helps you organize

Gemini is here to help you analyze and act on your data quickly



Helps you connect

Gemini helps you look and sound your best on video calls so you can focus on the conversation





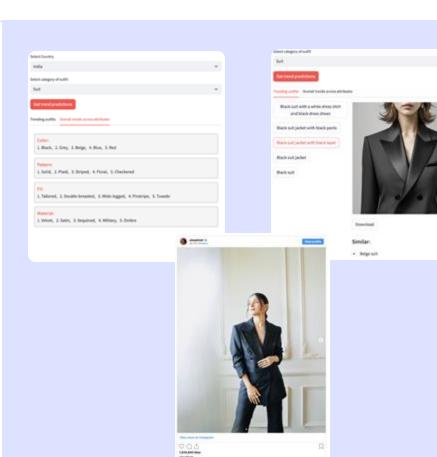
Trendspotting in Retail

Spot what is trending in a given region by extracting fashion trends from social media influencers' posts or fashion news articles

Addressed Pain Points

Understand emerging trends and consumer insights to stay ahead of the curve with data-driven styling and merchandising.

Significantly reducing the lead time to new design drafts (by 4-6 weeks or 90% as measured for a fashion retailer) involved in analyzing huge silos of data from social media, fashion news articles etc. and in creating draft styles.





Veo is being implemented by enterprise customers



"Our collaboration with Google Cloud has been instrumental in harnessing the power of generative AI, notably through Imagen 3, to revolutionize content production. This technology has enabled us to produce hundreds of thousands of customized assets, enhancing creative quality while significantly reducing both time to market and costs. With the introduction of Veo, Mondelez and its agency partners (Publicis, VCCP, The Martin Agency, WPP, Vayner and Accenture) are poised to expand these capabilities into video content, further streamlining production processes and setting new benchmarks in marketing."

Jon Halvorson,

SVP of Consumer Experience & Digital Commerce, Mondelez International



"At WPP, we believe in the transformative power of AI to enable our people to do their best work. We built WPP Open from the ground up and leverage Google Cloud and AI within it to help bring to life the creative vision of clients such as L'Oréal, resulting in the production of compelling content and making iteration and concepting easier than ever before. With Veo and Imagen, we are narrowing the gap between imagination and execution, enabling our people develop high-quality, photo-realistic, campaign-ready visuals in a matter of minutes."

Stephan Pretorius,

Chief Technology Officer, WPP.



At Agoda, we're committed to helping people see the world for less and make travel experiences more accessible. We are exploring the media generation capabilities of Google Cloud AI, using Imagen to create unique visuals of dream destinations in various styles. These images are then brought to life as videos through experiments with Veo's image-to-video technology. These technologies hold the potential to streamline our content creation process from days to hours. By continuing our testing, we aim to explore how this combination can enhance creative possibilities and personalized advertising efficiently. With these tools, we hope to engage customers meaningfully and inspire future adventures."

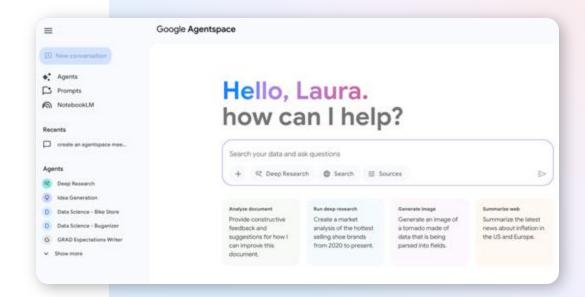
Matteo Frigerio,

Chief Marketing Officer, at Agoda.



Introducing Google Agentspace

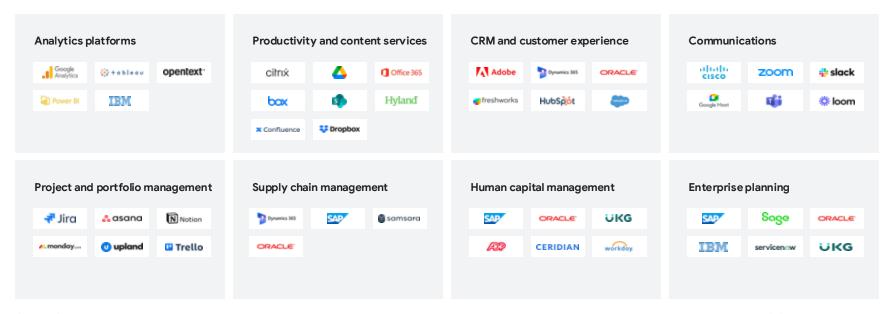
The only hyperscale platform built to help enterprises adopt Al agents at scale



Google Cloud Proprietary & Confidential

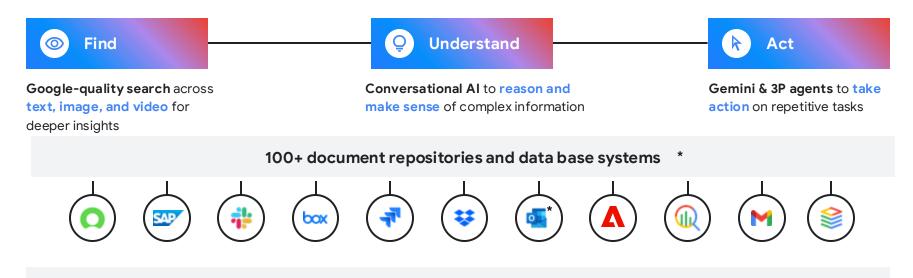
Fragmented technology systems have been a problem for decades

Q Where do I go for _____?



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Agentspace redefines how work gets done with a unified platform & interface



Security infrastructure & compliance controls



Apply Google's industry-leading multi-modal search across your enterprise

- → Blend understanding of text, images, websites, audio, video across your enterprise
- → Google's proprietary Knowledge Graph technology enhances search accuracy & personalization
- → Securely search information across 100+ applications and from the Chrome search bar

Google Cloud Proprietary & Confidential



Synthesize your enterprise data with generative business intelligence

- → Powerful LLMs summarize, produce actionable information and extract insights from complex sources into engaging formats
 - → Combine structured and unstructured data for a complete, contextual view
 - → Search and chat with your sources grounded in your data
 - Create audio overviews, briefing docs, and more

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Access, build & govern agents in a single view to streamline workflows

- → Easily access the right agent for the task with Agent Gallery
- → Build custom AI agents without code using Agent Designer
- → Leverage the latest Google-built agents, like Deep Research to synthesize business data or Idea Generation to drive novel strategies across domains
- → Govern and manage agents for your enterprise

Google Cloud

Agentspace is the hub for first and third party agents in the enterprise



- Your enterprise agents built by your developers with Vertex or other platforms
- Your user-built agents built by your employees using Agentspace no-code builders
- Expert Google-built agents

Google Cloud Marketplace agents from various
Google Cloud partners

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Standing Out in A Sea of Sameness

There is a strong correlation (0.79) between a retailer's level of differentiation and its Pricing Power

- the ability to command a premium and achieve profitable growth

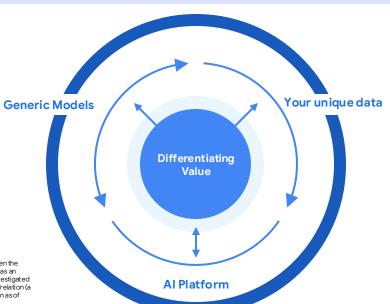
Generic GenAl models are very useful, but everyone has access to the same capability

Some use cases need no tuning, but for differentiating tasks it's critical

Choose the right model for cost, speed and quality

Bigger not always better

Source Google BFS 2024/ *Shown is the correlation coefficient between the differentiation score by retailer vs. the pricing power score by retailer (as an indicator of long-term growth potential). Correlation level across all investigated retailers in Europe, whereby 1 meansperfect correlation and 0 = no correlation (a moderate correlation is considered as of 0.3 and a very high correlation as of 0.7).



Data is the most valuable asset an organisation has

It can't be replicated by competition and gives huge advantage with existing customers and operations

Combining unique data with generic models creates differentiating outcomes that others can't copy

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The Journey to Value



Al Augments Humans

Chatbots

Code Assistants

Image and Video Creation

Research

Productivity Tools



Humans in the Loop

Demand Forecasting

Customer Communications

Social Media Marketing

Promotions

Customer Support



Business Agents

Customer Retention

Assortment Planning

Buying

Inventory Management

Supplier Onboarding

Increasing value, complexity and risk

No Regrets Next Steps

There are no established patterns on organisation adoption. There is no Spotify Model.



Data **Platform**

Manage data maturely: data governance, stewardship, definitions, ownership, consistency, and security are key.

Codification of business knowledge.

Business metrics



Platform

Centralised Al Platform Centre of Excellence Al Ops Allows model switching Use case repository

Partnerships



Skills **Transformation**

Drive knowledge and understanding of the value of AI

Encourage new mindset

Educate leadership on the benefits and risks

> Allow teams to push boundaries

Collaboration from all stakeholders



End to End Workflows

Radical Self-Service

Think: "How does this process work in the age of Al"

Span departments and teams

Process AI champions



Programmatic Approach

It will not happen by osmosis

C-level led

Change Management

Responsible, ethical, legal framework

Measure progress with transformation KPIs

Mindset Shift: Digital Transformation vs Al Native

Proactively build the business Reactively enhance existing Core processes with digital tech. **Principle** around AI capabilities. Fuels the core Al engine, Data's Supports operations and Role understanding. which runs the business. How can Al fundamentally Key How to digitize X? Question reimagine X?

