

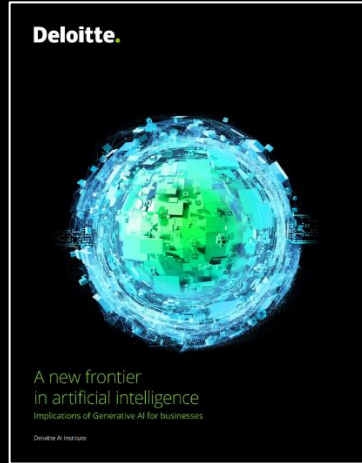
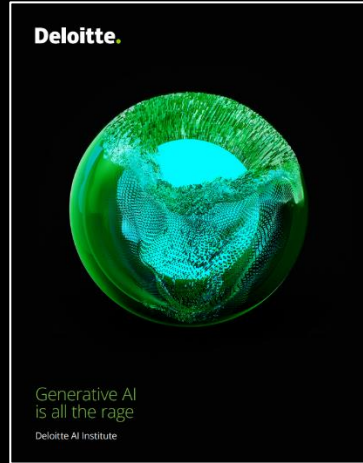
Deloitte.

**Deloitte Thailand
CFO Forum**

Exploring the Power of
Generative AI in Transforming
Finance Functions



GenAI | Deloitte POV - Primer



GenAI | Deloitte POV - Updated



Scan QR code to read the full report



Thailand Digital Transformation Survey 2023: CFO Perspectives

Deloitte Thailand's 4th year annual digital transformation report

Meet our speakers



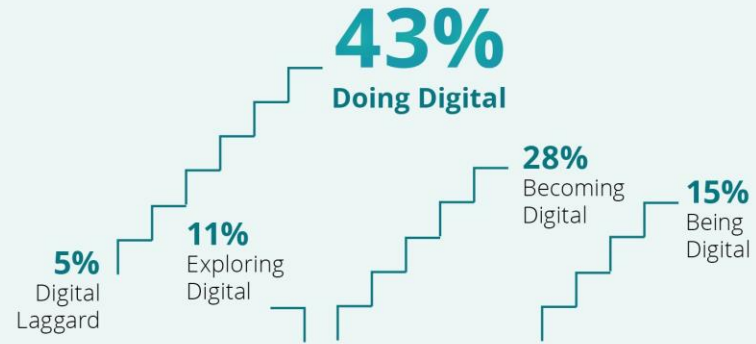
Parichart Jiravachara
Partner,
Risk Advisory
Deloitte Thailand



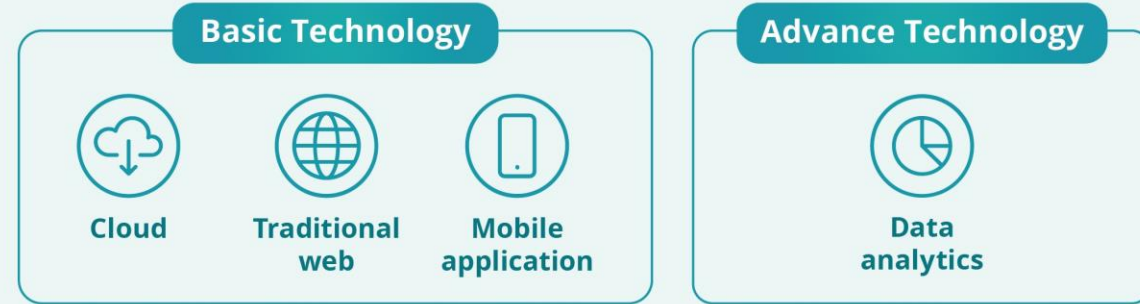
Narain Chutijirawong, Ph.D.
Executive Director,
Clients & Markets
Deloitte Thailand



Digital transformation journey



Top technology implementation



Top successful results from digital transformation initiatives



Top challenges to achieve digital transformation implementation





Exploring the Age of
Digital Disruption

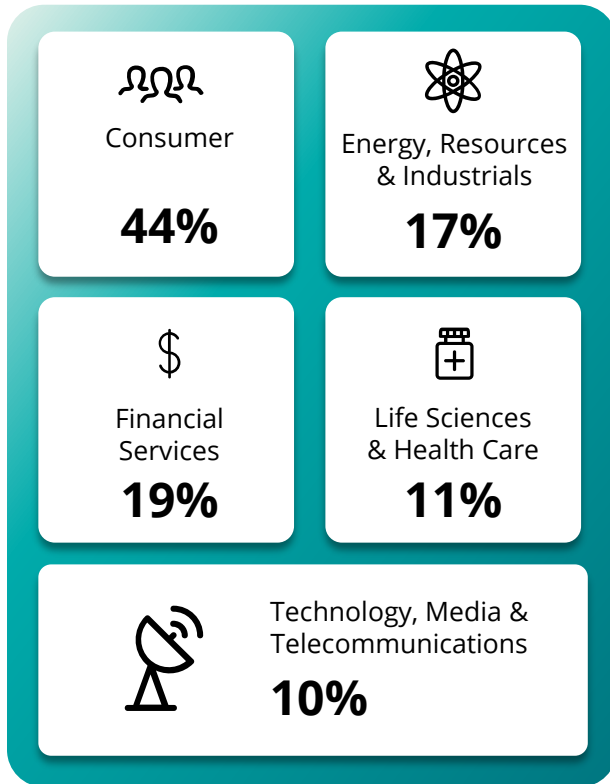


Unlocking Success
in Digital
Transformations

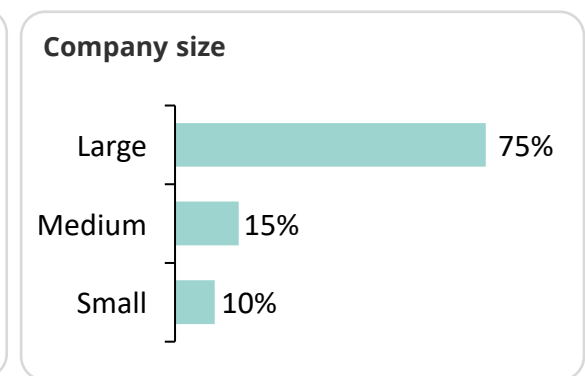
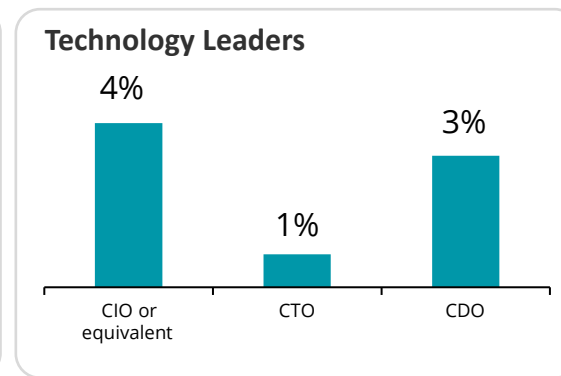
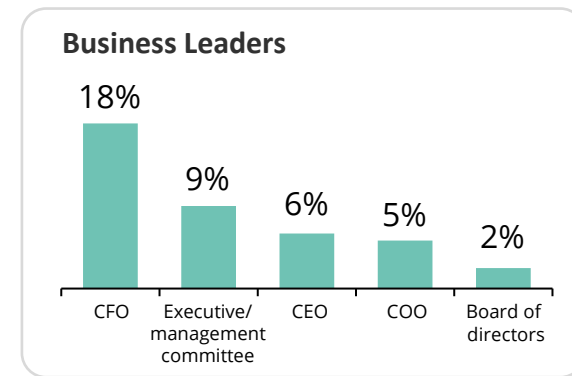
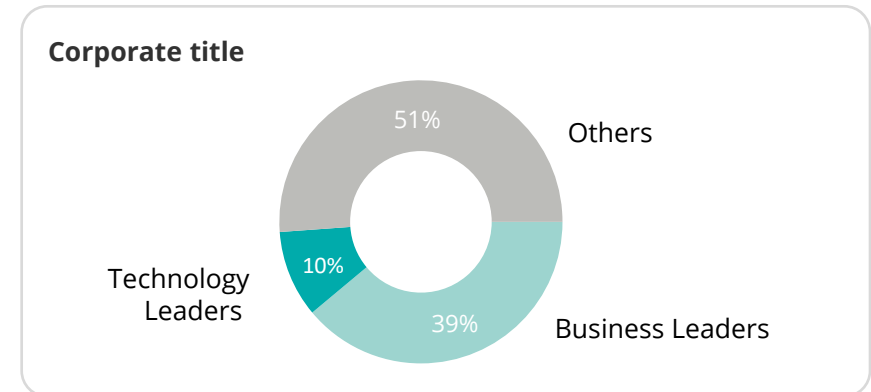
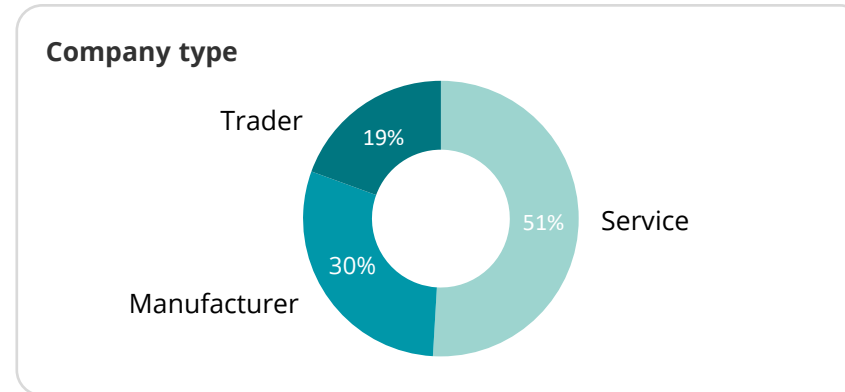


Leadership's
Role and
Ambition

Sample structure and survey analysis have been designed to reflect the perspectives towards digital disruption and transformation in Thailand



Sample Size n=131



Impact of Digital Disruption

The perceived impact as moderate throughout the years. Businesses can essentially be categorized into two main groups based on their relationship with technology. The first group, where technology is central to their operations, doesn't feel significantly affected by digital disruption. This is because they inherently need to keep pace with digital advancements due to the nature of their business. On the other hand, the second group doesn't see the need to adopt a wide range of technologies, believing that enhancements to their internal processes are sufficient to remain competitive in their sector.

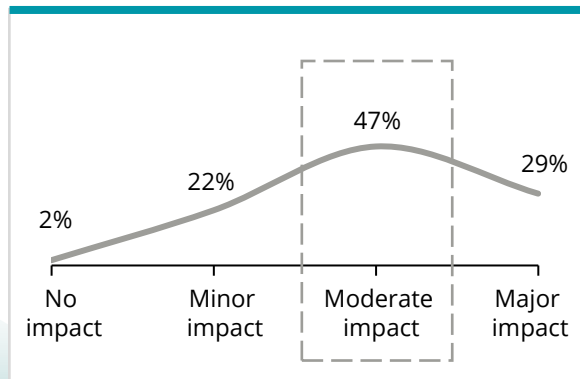
“We are not like traditional industries where when a digital solution comes up, it creates disruption. We are already on track.”

- CFO at a leading Thailand online food and grocery delivery marketplace player

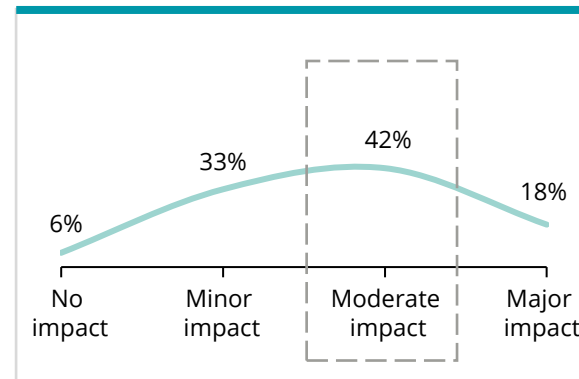


Q: Currently, how significant is the impact of digital disruption on your company? (C-level n= 53)

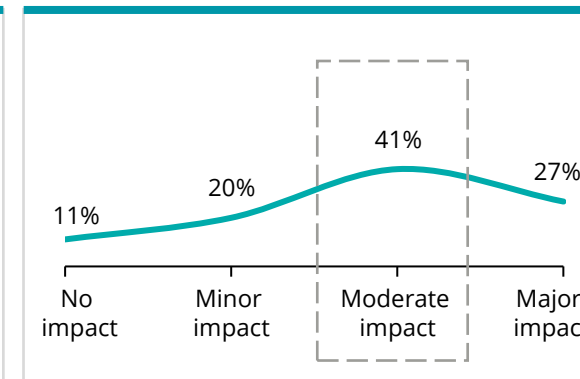
Before Pandemic



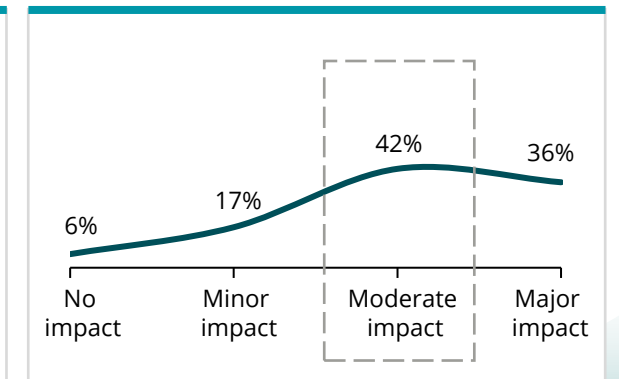
2021



2022

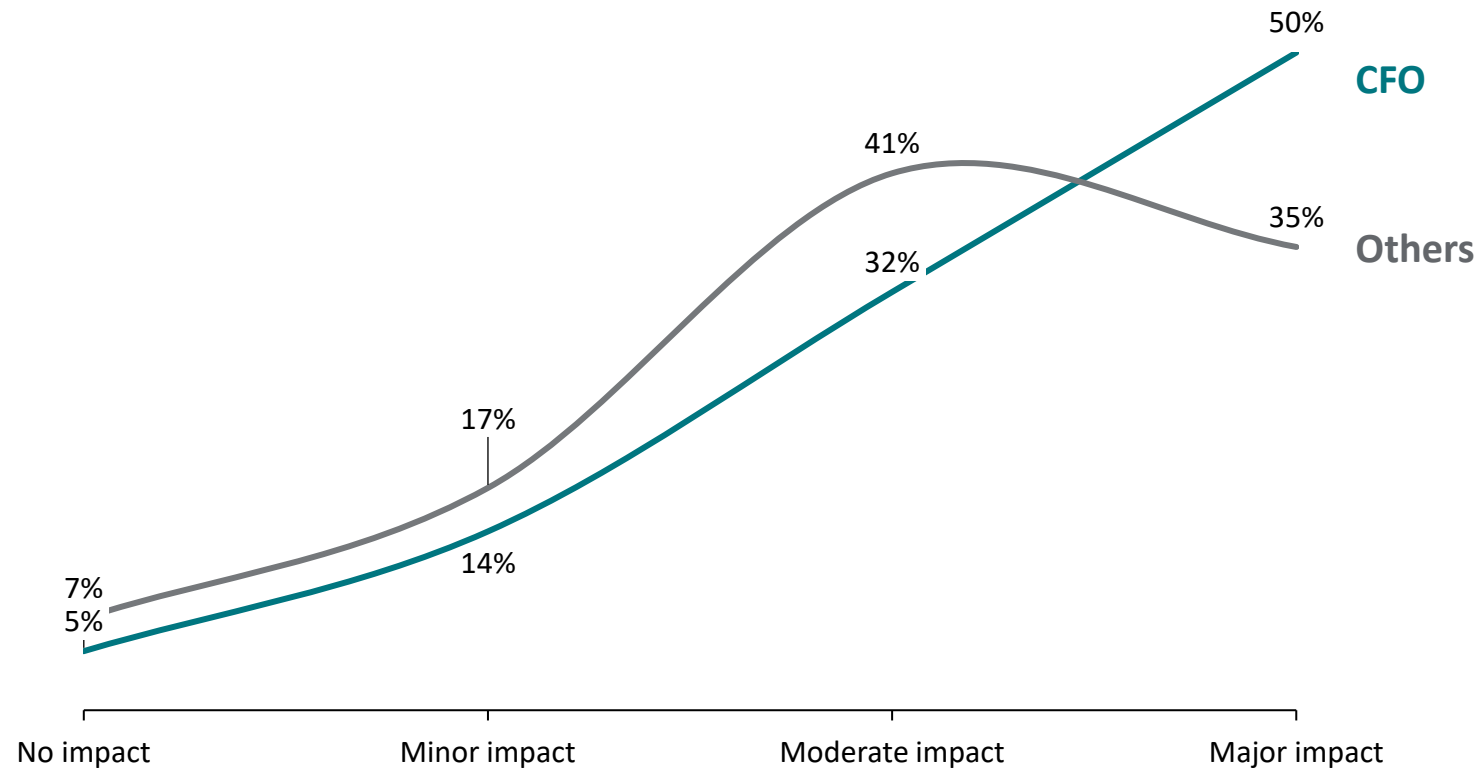


2023



Currently, how significant is the impact of digital disruption on your company?

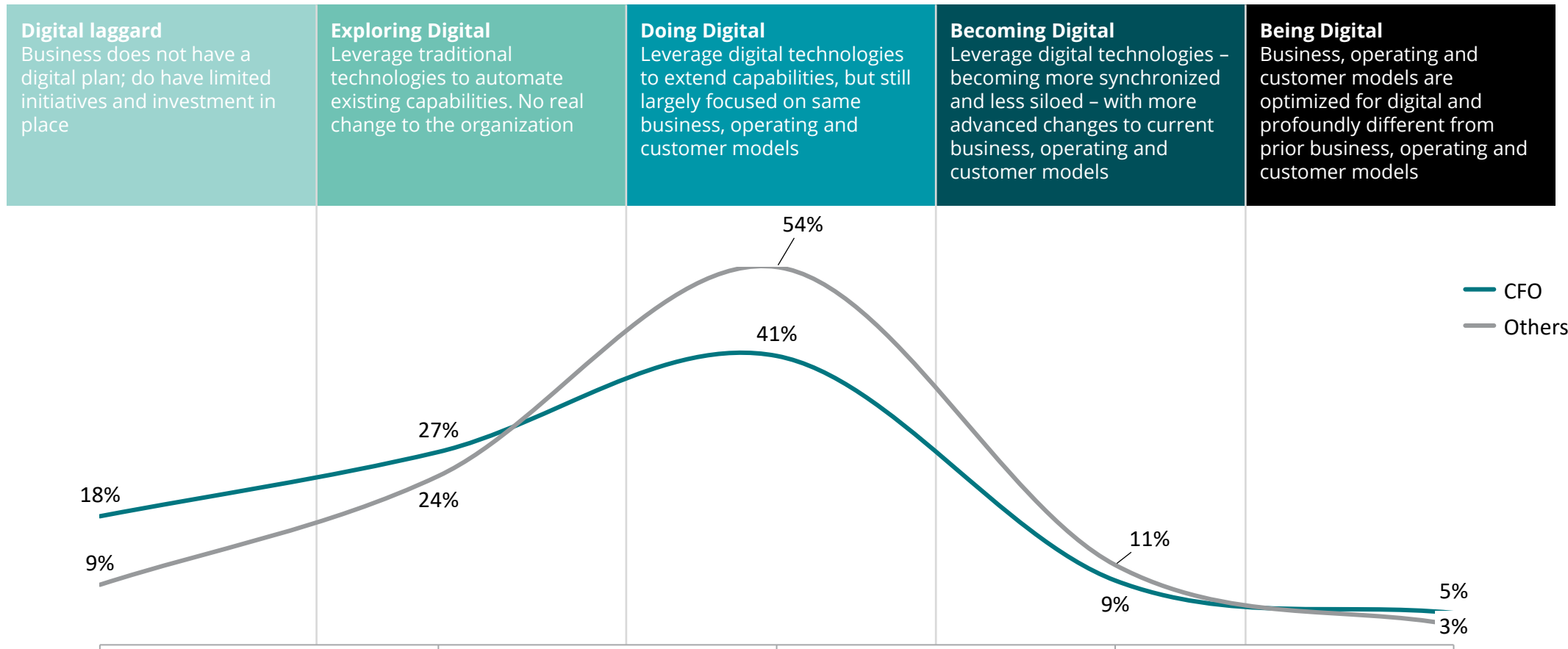
Majority of CFOs respondents felt digital disruption has had a **major impact** to the company, whereas other C-Suite feel it is has a moderate impact



Digital Transformation Journey

Majority of CFOs as well as the rest of the C-suite respondents felt that their organisations were in the Doing Digital stage of their digital transformation journey

Q: To what extent do the following statements reflect your company’s response to the pace of digital disruption?



Digital Transformation Budget Allocation

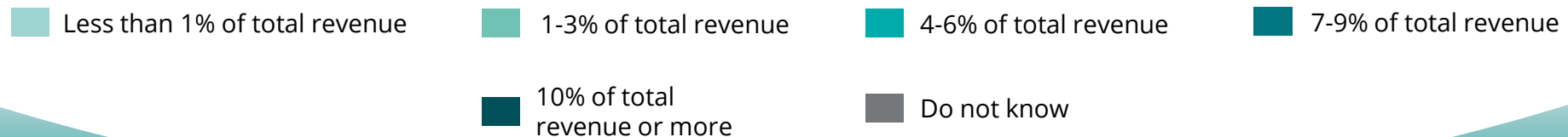
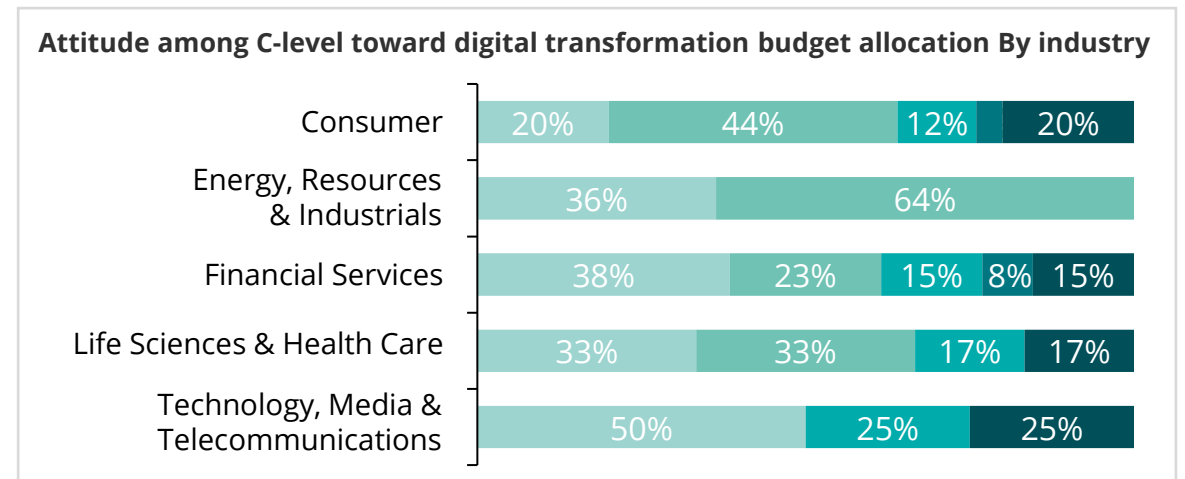
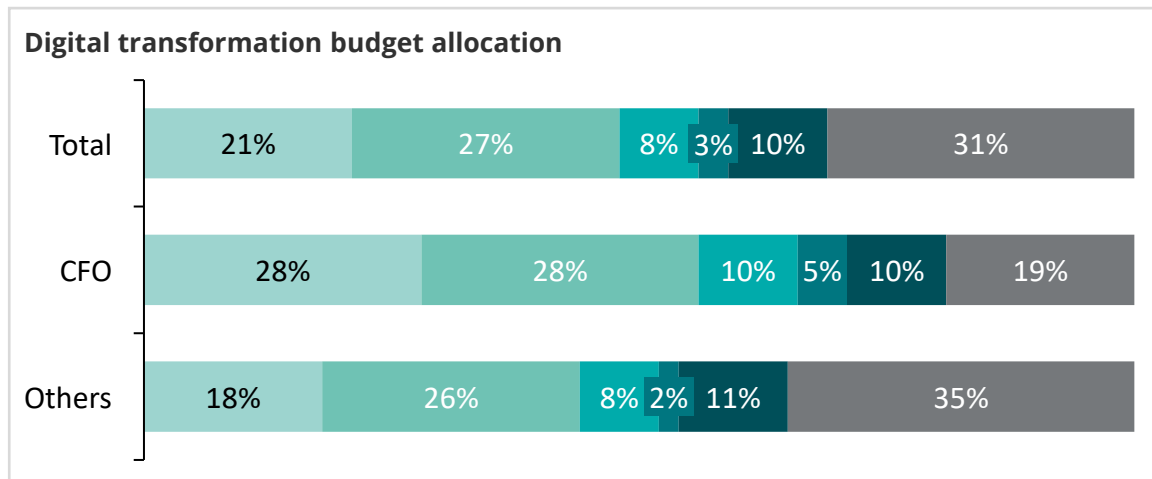
More than 50% of CFO respondents allocate **3% or less of total revenue** towards digital transformation initiatives. Companies with technology at the core of their business, such as those in the TMT industry, invest in digital transformation by nature of their industry, while in the consumer industry with high customer involvement, investment in digital transformation attracts consumers and helps them stay competitive with peers.

“Money will be allocated to the frontend first as it is the main money generator while long-term efficiency will be the key consideration for backend which takes long-term effort and results in cost-efficiency ”

- CFO at a leading Thailand consumer product player



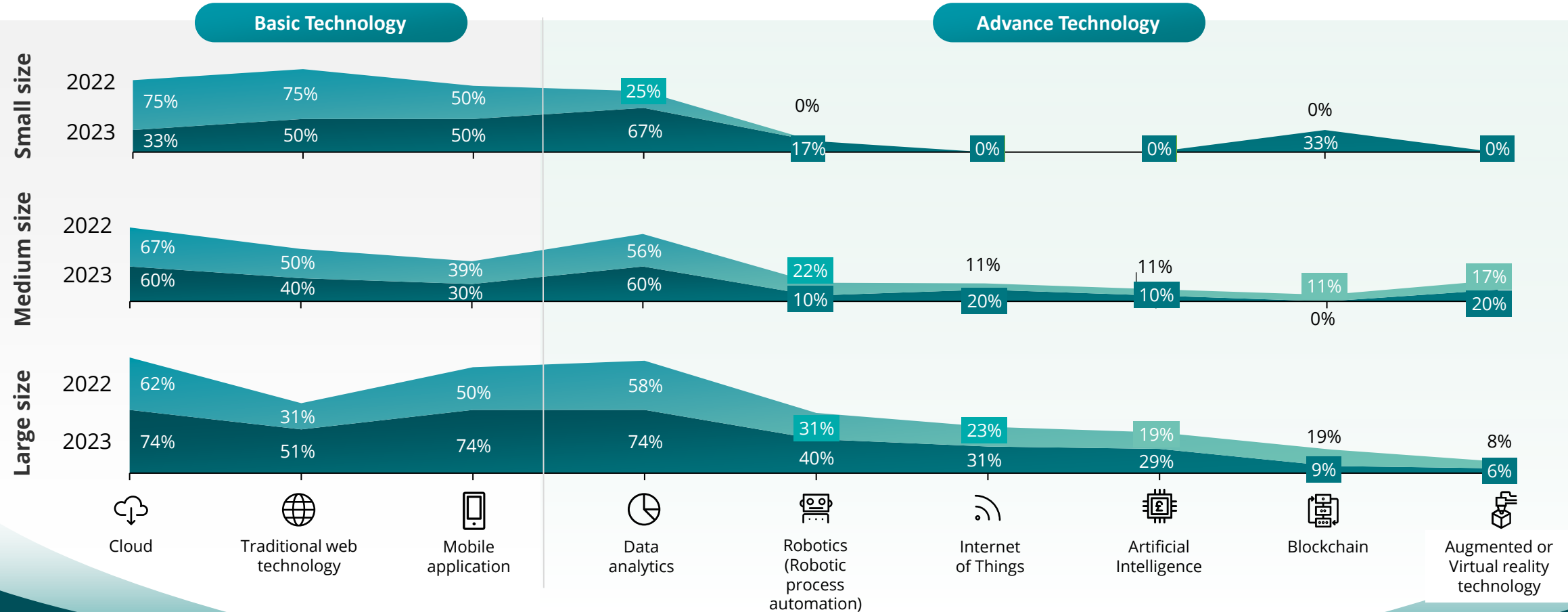
Q: How do your companies plan to spend budgets on digital transformation initiatives? (n=86)



Technology Implementation by Company Size

Higher number of those already implemented or planned to invest in technology can be found in 2023 compared to 2022, especially in the data analytics field.

Q: Please select digital technologies that you already implemented or planned to invest? (C-level n=53)



Technology Implementation

Basic Technology



Technology
Cloud

Example use case
Data storage mainly for HR, finance and emails



Technology
Mobile Application

Example use case
Customer use, no applications for internal use as of now

Advance Technology



Technology
AI

Example use case
Desk research



Technology
Data analytic

Example use case
Data visualization program and analytical tool such as Excel



Technology
RPA

Example use case
Only in accounting and internal use at present



Technology
IOT

Example use case
Production machine sensor for work monitoring

“New technology has given our company additional benefits. It made some services easier but if we didn’t do it, the business can still run efficiently, and not lose anything.”

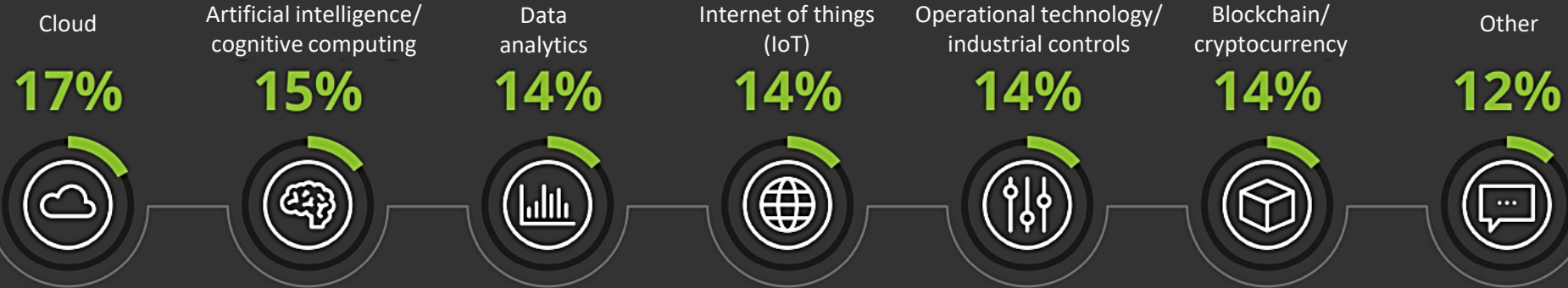
- CFA at a leading Thailand insurance player

Executive are all in for digital transformation

Investments in cyber lagging behind the desire to share data

Executives are all in for digital transformation

Survey respondents say they are not prioritizing one but a number of digital transformation initiatives to simplify environments and increase efficiencies.



But survey results reveal a disconnected story

Those surveyed view digital transformation as one of the most challenging aspects of cyber risk management, and yet indicate that

less than **10%**

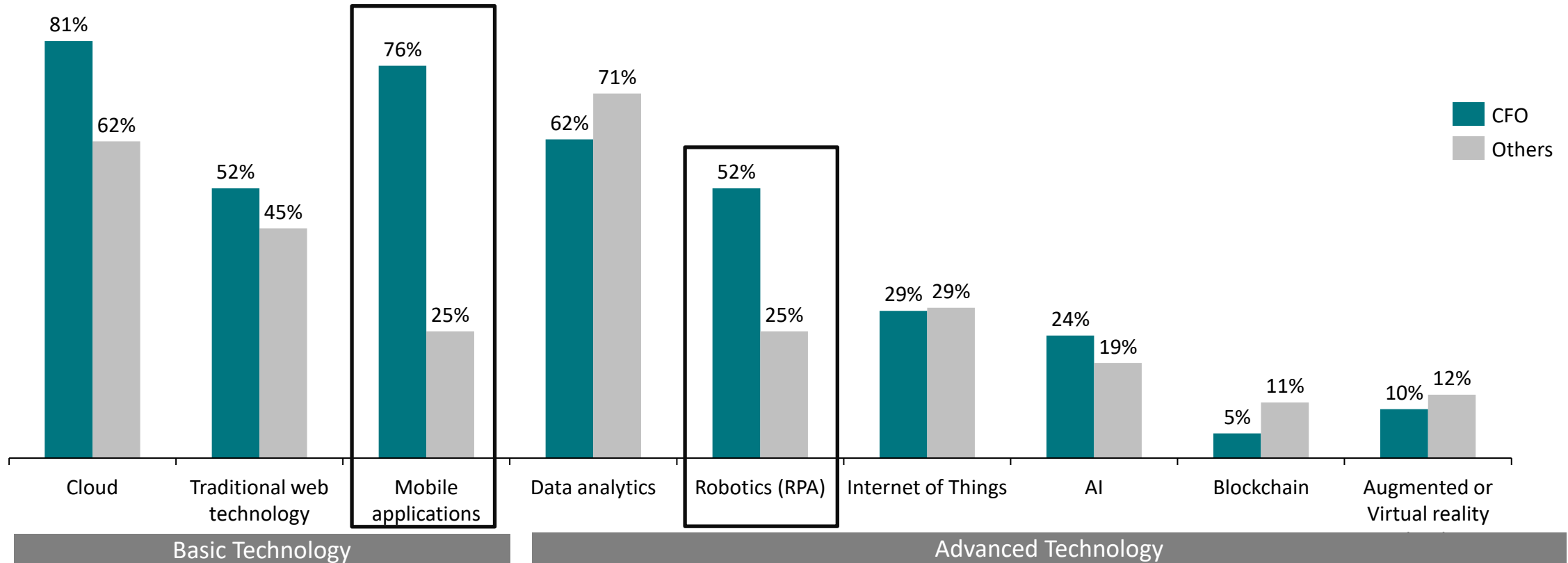
of cyber budgets are allocated to these digital transformation efforts



With finite budgets and resources, day-to-day cyber management will likely tax even the highest performing cyber teams

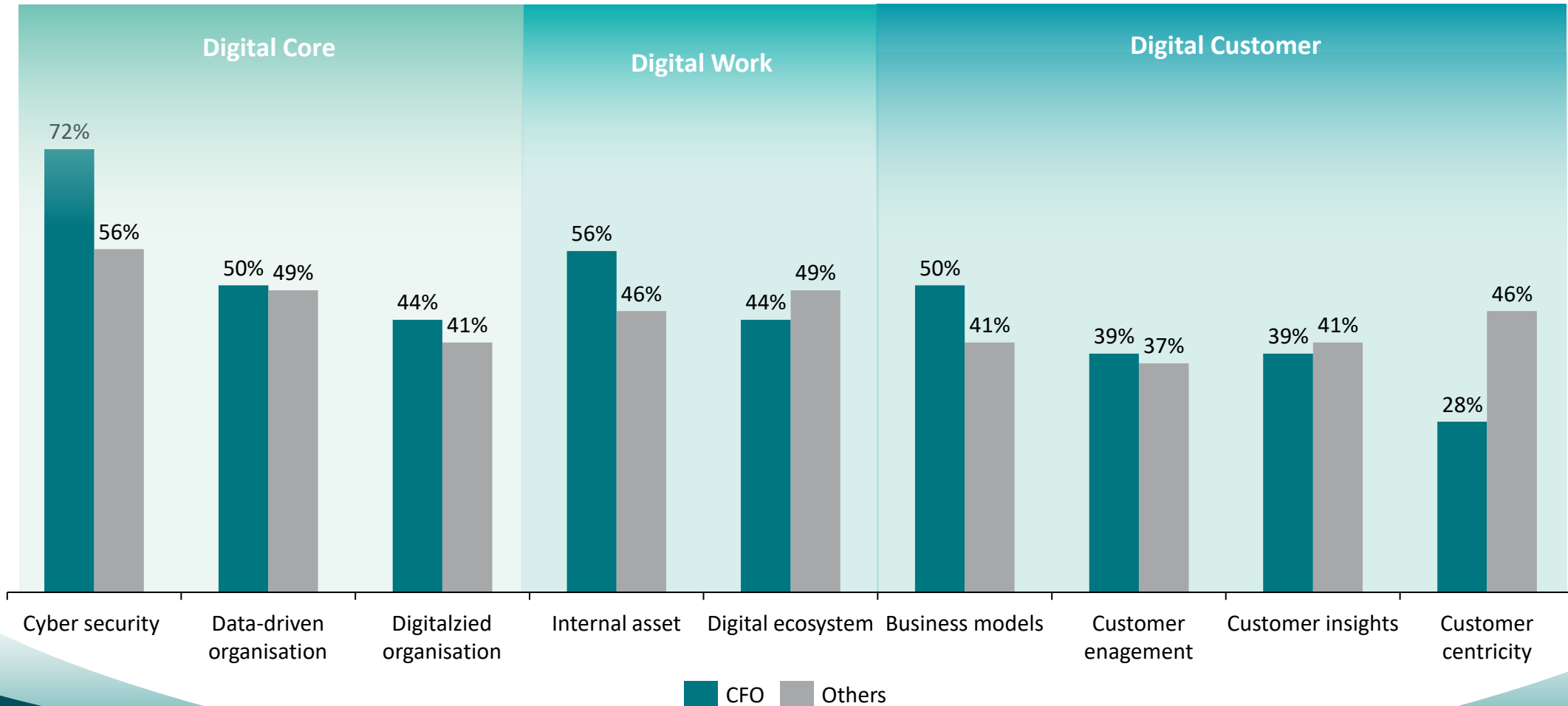
Please select digital technologies that you already implemented or planned to invest in?

Mobile applications and RPA was much higher amongst CFO respondents compared to others in terms of planned or current investment opportunities



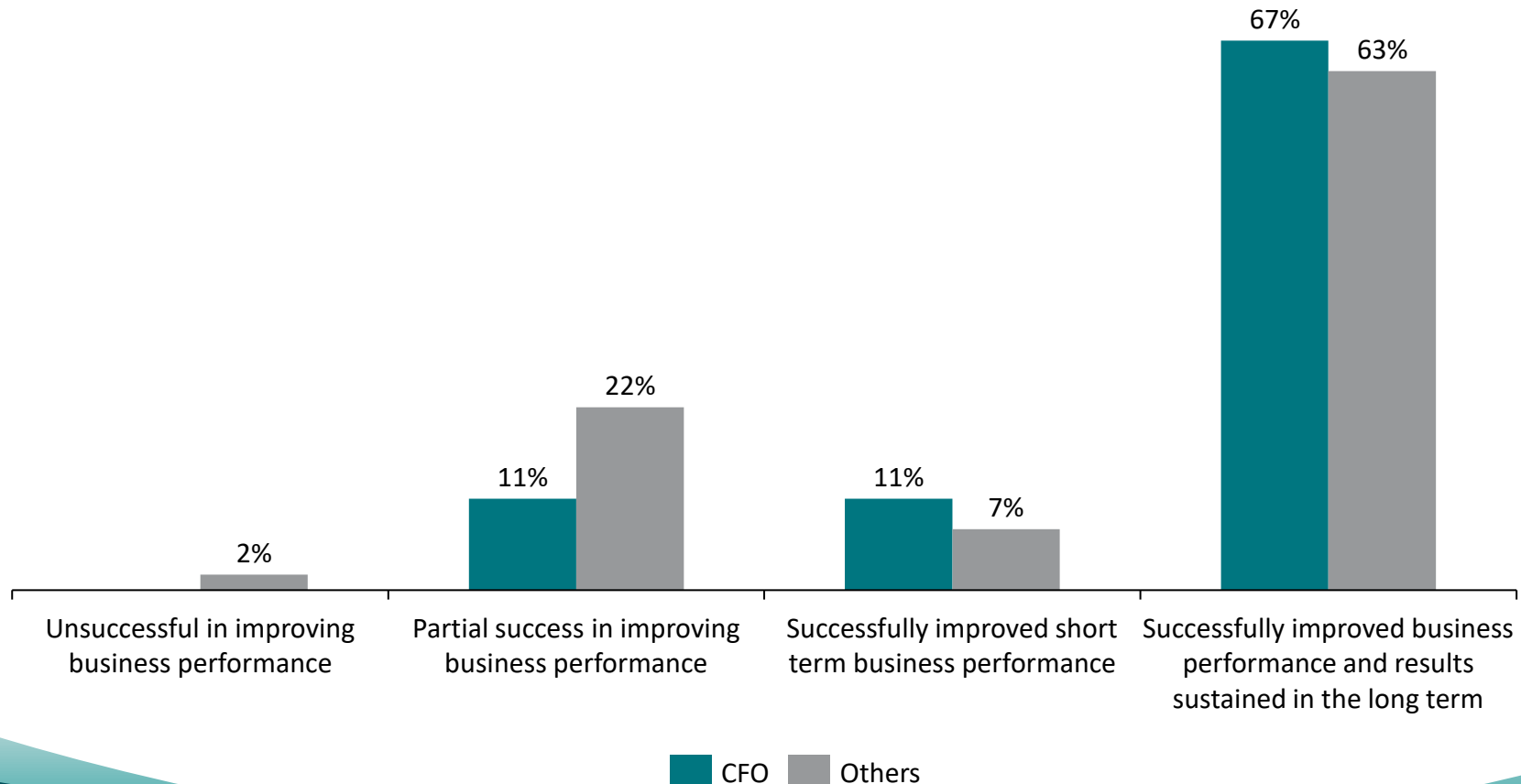
Digital adaptations that you invested in or planned to invest

Cyber security was the top digital adaptation chosen for investments across all respondents



Perception towards Results of Digital Transformation Initiatives

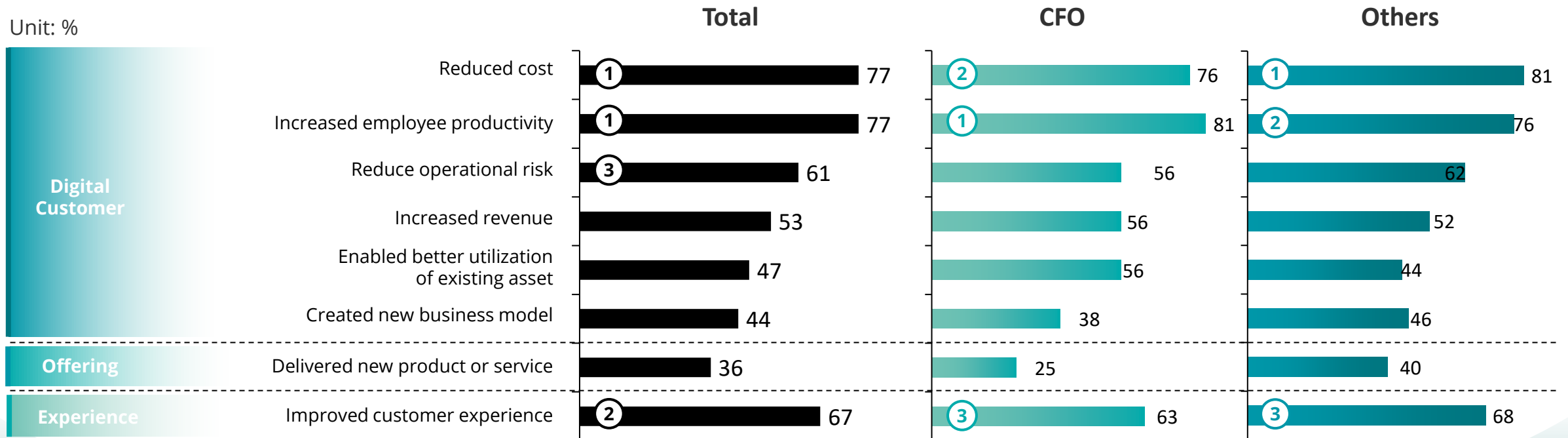
Majority of CFO and other C-Suite respondents have seen that digital transformation initiatives have **successfully improved** business performance with **long-term sustained results**



Successful Result by Position

Increased employee productivity and cost reduction are the top two successful results for digital transformation implementation across CFO respondents, and the remaining respondents. This is followed by improving customer experience.

Q: What were successful results from digital transformation initiatives?

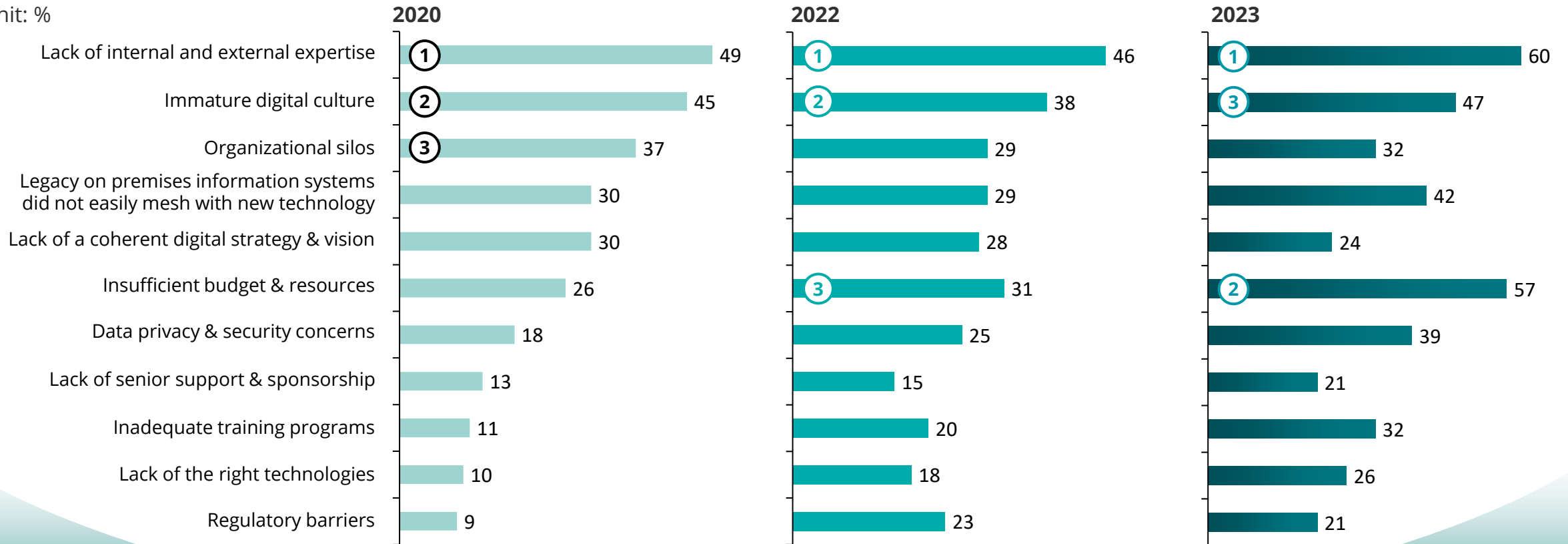


Challenge of Digital Transformation

The top challenge remains as human resource capability, however, since 2020, post-covid economic recessions have prompted increased budget reservations. IT has been continuously outsourced with cloud-based solutions to solve insufficient budget issues, while PDPA has increased data privacy concerns.

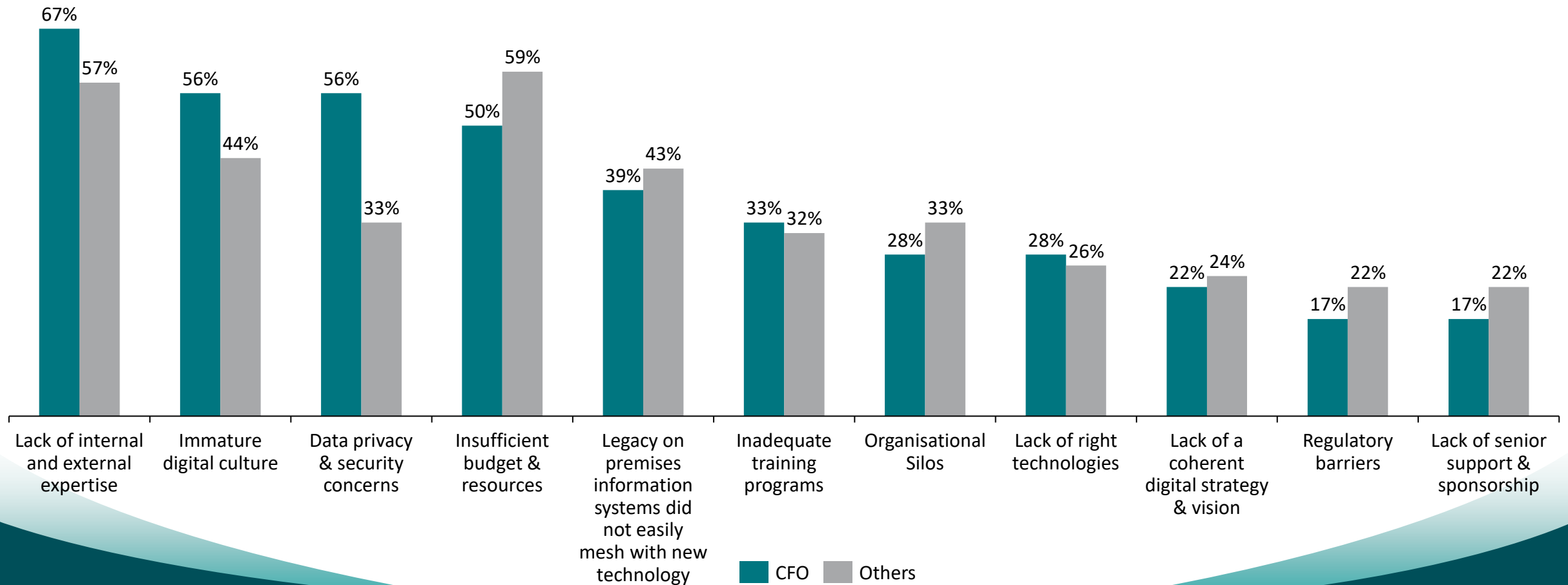
Q: What are challenges to achieve digital transformation implementation in your company?

Unit: %



What are the challenges to achieving digital transformation implementation in your company?

The top challenges for CFO respondents were **lack of expertise, immature digital culture, data privacy and security concerns, and budget/resource constraints**. Data privacy and security concerns was not regarded as a top challenge amongst other respondents, where it ranked 5th.



Digital transformation ambitions range from modest to radical

CEO's Role

Digital Vision



Incremental digitization



Advanced digitization



New markets



New products



New business models

What changes?

- Same business model
- Same capability
- Same market
- Digitization of some existing internal data and operating processes
- Incremental cost/operational improvements

- New digital platforms
- Same business model
- Same capability
- Same market
- Radical digitization of processes and/or platform
- Revenue generation alongside radical cost/efficiency improvements

- Same business model
- Same capability
- New market or channel
- Similar operating model (eases change)

- Same business model
- New capability resulting in new products/service offering(s)
- Same market

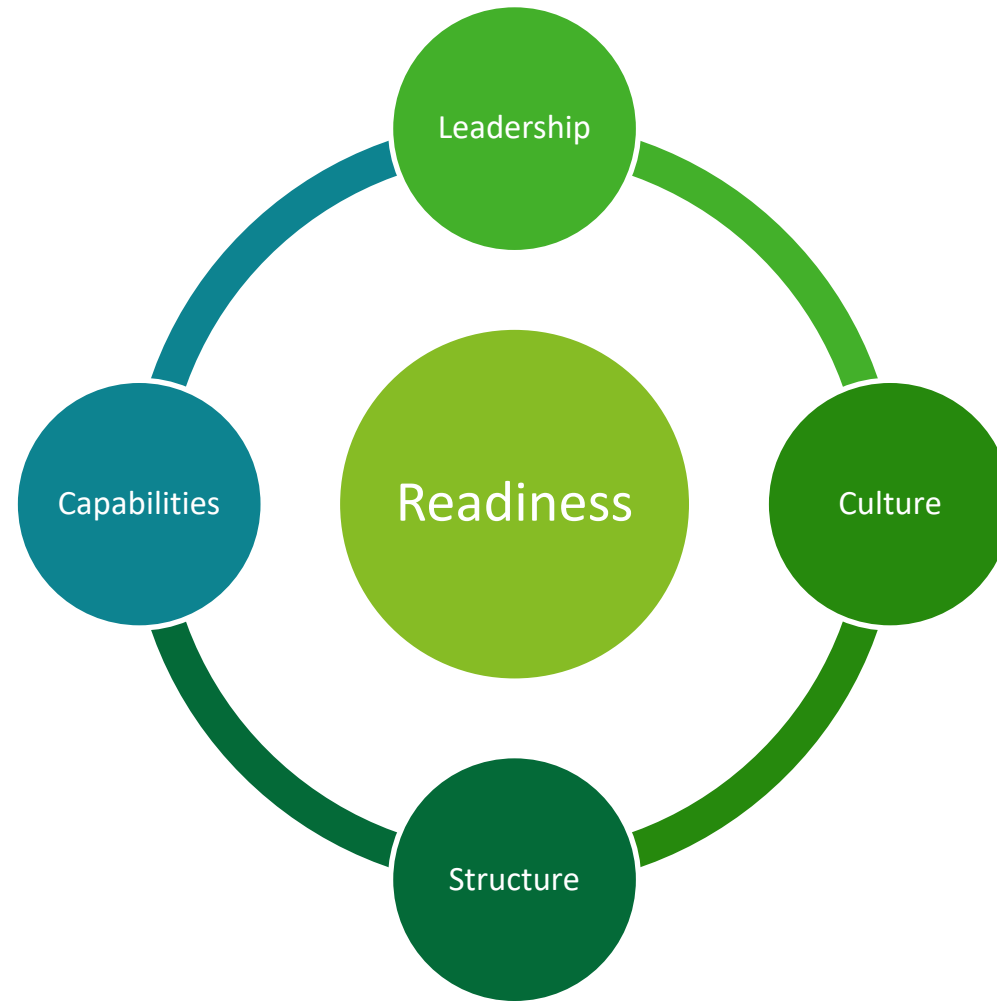
- New business model
- New, innovative capability resulting in products of services that disrupt and transform industry standard
- Likely involves ecosystem model
- New KPI's likely needed

Incremental spectrum

These levels build incrementally. The more levels a CEO's vision encompasses, the more likely it is to require enterprise wide transformation, include a new operating model and organizational structure.

Source: Deloitte Global CEO Program and Center for Integrated Research analysis, 2022.

Organizational Readiness

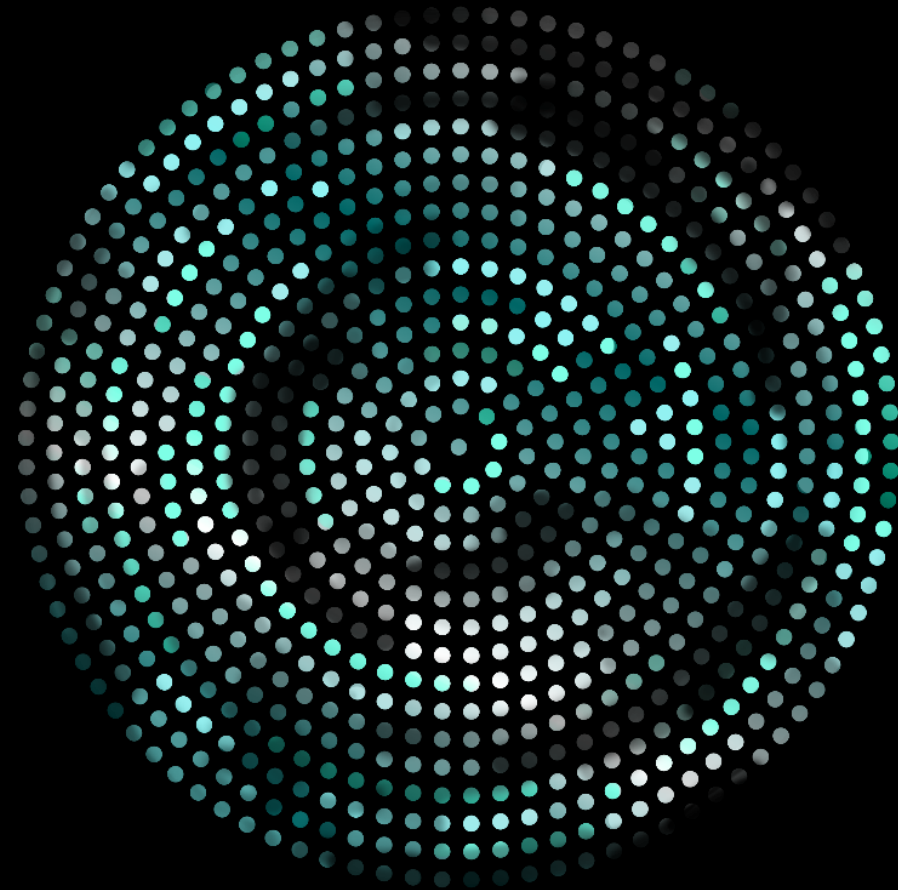


CEOs play different roles in four different transformation scenarios



Source: Deloitte Global CEO Program analysis, 2022.

Deloitte Insights | deloitte.com/insights



Gen AI for Consumers

Feb 2024

With you today



Chin Kok Poh

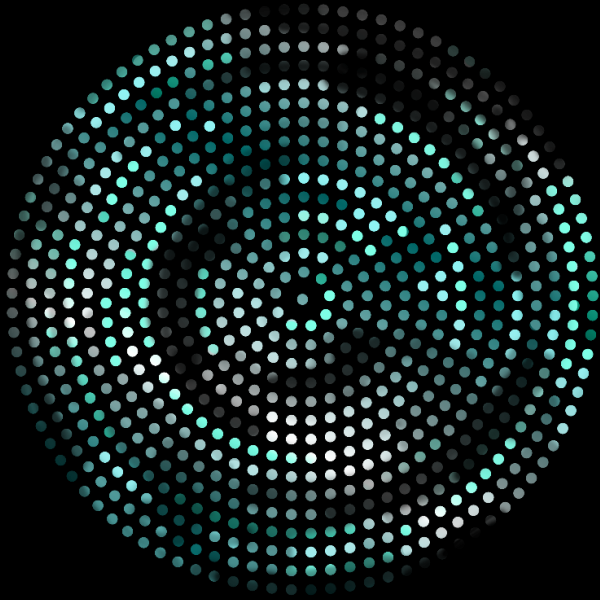
Chin is a Director in the Strategy, Growth & Innovation practice in South East Asia. His offering in AI & Data. He is a strong solution architect and advocate of Cloud for data platform and is a GenAI graph practitioner.

He has over 35 years experience in industry covering operational responsibility in manufacturing, supply chain management, warehousing & global distribution, JIT hubs design, and customer service centers.

His technical responsibilities includes product development, product management & strategy, data warehousing & analytics, cloud solutions, digital twins, IoT, and complex system integration.

Selected experience:

- Expert in Supply Chain Management and Manufacturing, Demand Management and Assured Supply processes in Texas Instruments and Motorola Semiconductors.
- Worked with clients and customers in Asia Pacific, US, and Europe.



Agenda

1. What is Generative AI?
2. Generative AI in Finance Industry
3. Demos and Quals

What is Generative AI?



What do we fundamentally need to know about AI?

$$\begin{bmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{bmatrix} \begin{bmatrix} d_1 \\ d_2 \\ d_3 \end{bmatrix}$$



AI is an algorithm...

Not a magic genie

It doesn't stand still...

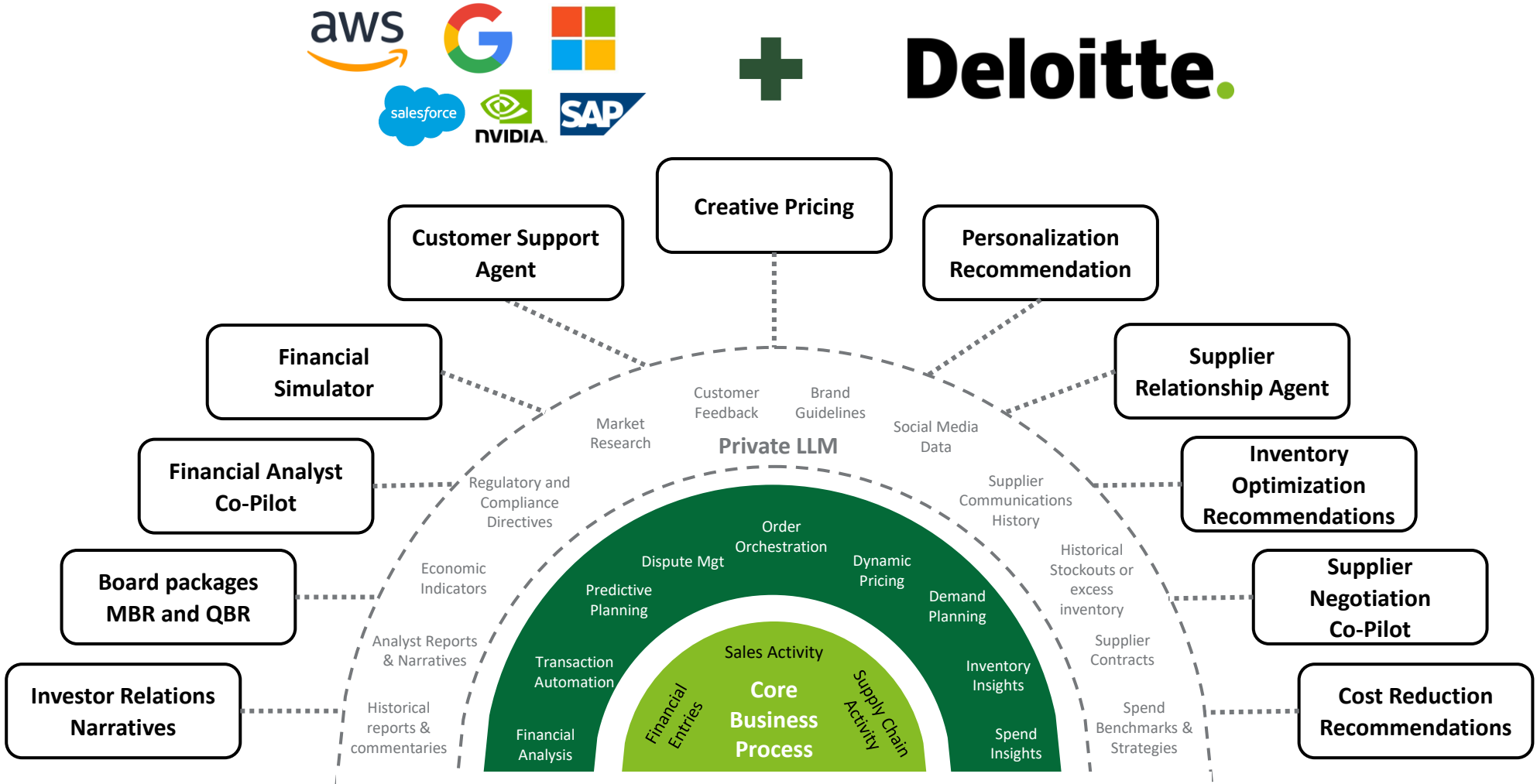
*we are all learning to
work with it*

It's not one thing...

*there are many tools
for many tasks*

Where Generative AI Is Relevant

Deloitte leverages Alliance-powered LLMs to transform enterprise operations by integrating data-driven intelligence into core business processes



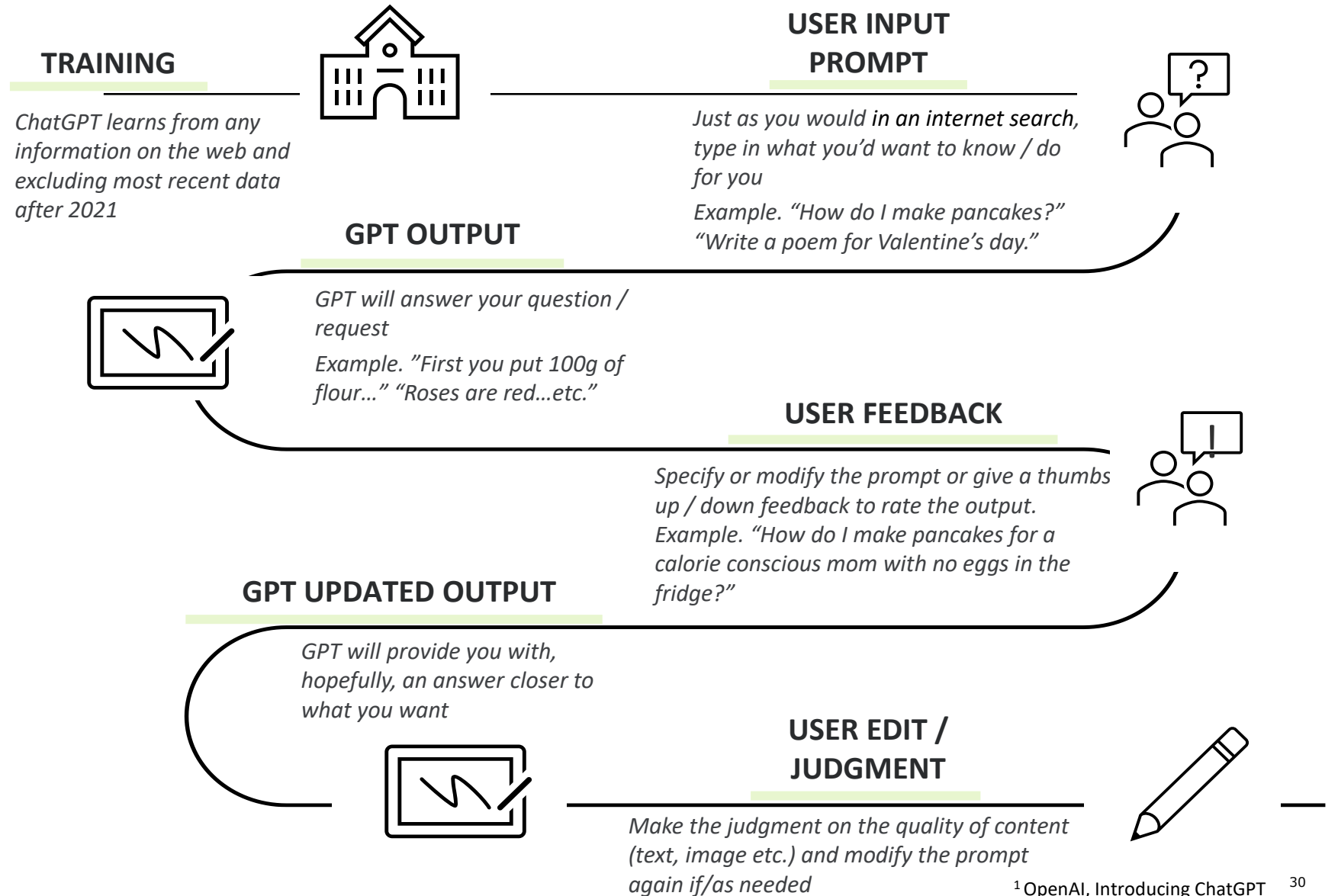
Trusting Gen AI requires algorithms understanding and diligent output evaluation

Imagine GPT as an infant...

learning how to talk. The infant first learns basic patterns of how to talk from their parents, in this case, from the Internet.

Although it can be very smart, ChatGPT, like infants, could output comments that contain misinformation, biases, or information that is not required. Users then give feedback to course correct. It is a **constant loop** of users giving **feedback**, as the GPT improves the quality of output.

Judgment and edits are crucial steps for humans, as we address the **alignment problem**: how can human beings create a model that reduces the number of biases and that aligns with our human values of what we'd want the world to look like?



Problems solved through Generative AI

Generative AI use-cases bucketed into four pillars

Capabilities



Text Search and Summarization

Search & generate text summaries



Content Generation

Create new content - text, image, audio etc.



Software Development

Generate, translate, explain & debug code



Business Solutioning

Gen AI based solutions & tools

Use-cases

- *Quick summary of a large report*
- *FAQ from playbook*
- *Creating comparative summaries*

- *Custom image generation*
- *Social media campaigns*
- *Hyper personalized emails*

- *Write a code to build a forecasting model in python*
- *Code Migration from SQL to python*
- *Code debugging & documentation*
- *Synthetic data generation for testing*

- *Creating descriptive summaries from data mart*
- *Customer complaints resolution*
- *Anomaly detection*

Generative AI in Finance Operations

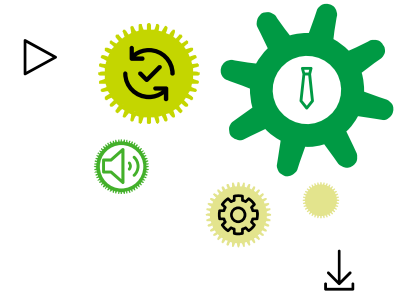


A New Frontier in Artificial Intelligence and for Finance

How much will generative AI impact our lives?

Research has suggested that breakthroughs in generative AI could increase global GDP by 7%—nearly \$7 trillion—and boost productivity growth by 1.5 percentage points.

Generative AI might start by producing concise and coherent summaries of text (e.g., meeting minutes), converting existing content to new modes (e.g., text to visual charts), or generating impact analyses from, say, new regulations. Producing novel content represents a definitive shift in the capabilities of AI, moving it from an enabler of our work to a potential co-pilot. It might augment human capability and then advance it.



CFOs and Finance leaders should start to develop strategies today for how generative AI will affect both their functions and their businesses tomorrow.

Getting to know generative AI:

To consider the potential impact of generative AI in Finance, it's helpful to explore what generative AI is and how it operates. Generative AI:

- Creates original content such as text, images, audio, code, and video. Up until now, these types of content required solely human skill and expertise to create.
- Can add contextual awareness and human-like decision-making to enterprise and finance workflows, potentially dramatically changing how work is conducted.
- Is powered by foundation models, which run on deep-learning algorithms modeled on the organization of neurons in the human brain.



What Does This Mean for Finance? (1/2)

Areas within Finance primed for generative AI-enabled transformation

Financial Planning and Analysis (FP&A)

CFOs may struggle to integrate financial, operational, and commercial data ... and deliver insights.

- **Faster insights:** Analyze data much faster, revealing trends in real-time.
- **Real-time monitoring:** Continuous trend tracking for better decision-making.
- **Advanced scenario analysis:** Simulate multiple future scenarios with slight variations.
- **Actionable insights:** Uncover hidden trends and opportunities for leaders.

Achieving strategic planning of tomorrow, today

Transactional Finance

CFOs seek enhanced efficiency and reduced operational costs ... all while improving experience.

- **Automation:** Streamline billing, payments, and collections through automated portals which reduce costs and save time.
- **AI-powered interactions:** Personalized transactional support via "agents" understanding individual needs.
- **Enhanced analyst efficiency:** On-demand generation of standard operating procedures, capture minor changes in process, and enable conversational Q&A for new employees using trained AI models.

Augmenting autonomous finance operations

Controllership

CFOs aren't likely to trust AI to produce audited financials anytime soon, but draft reports ... maybe.

- **Streamlined reporting:** Highly reliable generative AI drafts for internal/external reports, saving time during month/quarter-end.
- **Automation:** Automated activities like reconciliations, journal entries, and consolidations for accurate balancing.
- **Enhanced analysis:** AI-powered drafting of management reports in numeric and narrative formats for earlier detection of cost, buying pattern, and market changes.

Partnering on financial and management reporting

What Does This Mean for Finance? (2/2)

Areas within Finance primed for generative AI-enabled transformation

Internal Audit and Compliance

CFOs need to stay diligent in anticipating and mitigating risk ... now more than ever.

- **Real-time continuous anomaly detection:** Identify discrepancies through unlimited, simultaneous analysis of transactions.
- **Proactive security monitoring:** Track system connectivity for immediate alerts on potential issues.
- **AI-driven response:** Analyze flagged activity and implement countermeasures.
- **Automated security measures:** Spot anomalies and generate action reports, recommendations, and user notifications.

Elevating continuous controls monitoring and detection

Tax

CFOs are seeking more out of their tax function—more agility, more flexibility ... to deliver more value.

- **Automation:** Automate repetitive tasks like compliance and reporting automated, freeing staff for strategic work.
- **Unleash Data:** Bridges data silos, aligning data with transactions for tax reporting.
- **AI-powered Tax Tools:** Automated taxability calculations and document generation which customize reports for stakeholders and authorities.
- **Impact analysis of new regulations:** Enable a more agile and dynamic tax department.

Embracing a more-with-less mindset in tax

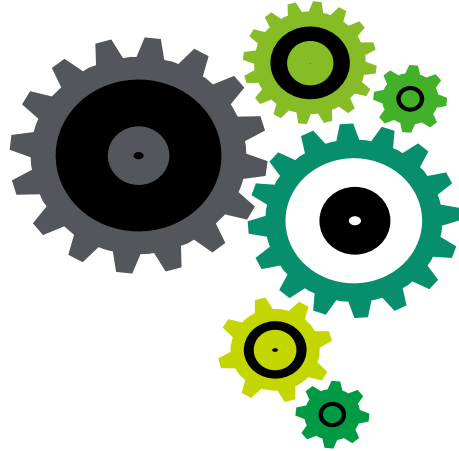
Investor Relations

Stakeholder management is becoming more complex ... leaving less time to focus on the strategic message.

- **Trained on company-specific data:** Generate draft stakeholder materials which potentially provide earnings Q&A draft narratives and employees' time is saved to focus on strategy and delivering a consistent and impactful message to stakeholders.

Enabling strategy first in stakeholder engagement

The Potential of Generative AI to Transform Finance



1

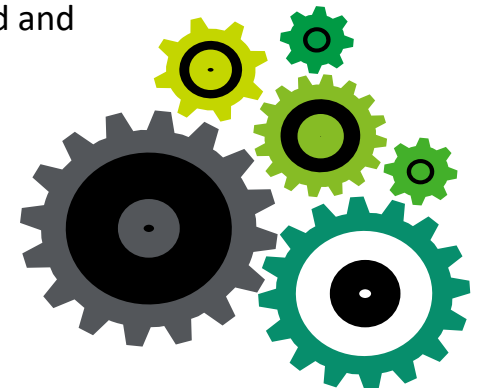
According to a Gartner study, 80% of CFOs surveyed in 2022 expected to spend more on AI in the coming two years. With that investment, however, around two-thirds think their function will reach an autonomous state within six years.

2

It will be crucial that leaders consider the use of generative AI from an enterprise-wide approach with a clear understanding of where this technology will have an impact on operating expenditures, capital expenditures, market capitalization, and many more.

3

CFOs and Finance leaders can play a pivotal role in driving strategic collaboration among key C-suite leaders to enable greater success—and return on investment—of AI deployment and adoption. The journey should begin with a sound strategy and a few use cases to test and learn with well-governed and accessible data. It doesn't have to be perfect, but it should be controlled.



Consideration for A Success Generative AI in Finance

Current limitations that Finance professionals should consider

Amplification of Bias

Risks:

- **Human bias in training data:** Biases are amplified in generated content if training data is skewed.
- **Specific biases in finance:** Anchoring bias (relying heavily on specific information) can impact forecasting and other processes.

Mitigation Strategies:

- **Finance leaders' responsibility:** Be vigilant about bias in training data and regularly evaluate generated content.
- **Deloitte's Trustworthy AI™ framework:** Implement processes to break down bias and track data lineage for auditability.

Reliability of Output

Risks:

- **Hallucinations:** Foundation models can confidently produce incorrect responses, akin to overconfident humans unable to recognize their own fallibility. This risk increases with subjective tasks and choices.

Mitigation Strategies:

- **Phased adoption:** Start with simple tasks to ensure accuracy before scaling.
- **Certification for finance:** Consider future tests for models providing financial insights.
- **Finance leader vigilance:** Always validate and double-check generated content.

Security of Information

Risks:

- **Lack guaranteed data privacy:** Existing content and prompts fuel their learning, potentially exposing shared information.

Mitigation Strategies:

- **Enterprise models:** Training private models in secure environments can reduce risks.
- **Stringent security:** Safeguarding sensitive financial information remains crucial.
- **Collaboration:** Finance leaders and tech teams collaborate to align generative AI security with company standards.

Sovereignty of Data

Risks:

- **Lacks discretion in content sharing and compliance:** Cannot comply with varying company policies and global privacy laws.
- **Lacks control over data access and potential misuse.**

Mitigation Strategies:

- Leaders must ensure responsible use.

Implications on Finance Talent

For all its tantalizing potential to automate and augment processes, generative AI will still require human talent.

Workers Skeptical of Generative AI in Finance: Change Management is Key

**Skepticism
Exists**

Over half of workers mistrust generative AI in finance (Harris Poll).

**Change
Management
is Crucial**

Leaders need a thoughtful approach to build trust.

**Focus on
Collaboration**

Reframe AI as a "co-pilot" supporting and amplifying human capabilities.

The Future of Finance Jobs: AI Collaboration, Not Replacement

While roles may shift in finance due to generative AI, core human skills like curiosity, empathy, and critical thinking remain vital and are still needed. Finance professionals might need to develop generative AI fluency and enhance skills like:

How to engineer prompts (i.e., ask good questions) to get desired results.

How to recognize potential bias.

How to confirm the quality and validity of generated output and monitor performance of models over time.

Balancing Potential and Caution

Generative AI buzz is hot by promising efficiency gains but also warrants caution. Despite concerns, it might revolutionize the Finance function. Leading organizations have launched pilot programs and are scaling fast.

Glimpsing a Future of Unimagined Possibilities

Generative AI promises to revolutionize finance beyond just automation. While initial impacts will be seen in automated analysis, reporting, and risk management, its true potential lies in its ability to unlock entirely new possibilities through groundbreaking innovations.

Generative AI is here, and it's adapting and learning.

CFOs and Finance executives who adapt and learn with it can lead the future.

Strategy for AI-enabled Transformation

To do this, CFO should start by

Understanding how the Finance function could be impacted

- **Transactional finance:** Automates Finance processes and uncovers inconsistencies. Get variance and scenario analyses instantly, tailored to preference. Reporting becomes super flexible, on-demand, and granular based on prompts.
- **Controllershship:** AI won't replace human judgment for final financials, but it can streamline internal/external reports, automate tasks, and offer anomaly detection for finance efficiency gains.
- **Insights generation:** Generative AI unlocks real-time insights by seamlessly integrating diverse financial, operational, and commercial data, overcoming past limitations of stale reporting.

Leveraging these areas to prioritize/ pilot use cases

- CFOs should be **significant influencers** in their enterprise AI strategy (not just in Finance).
- **Strategic collaboration** between key leaders (e.g. CEO, CFO, and CIO), will play a vital role in the success of AI deployment and adoption.
- The journey should begin with a solid strategy and a few use cases to build **proofs of concept** with well-governed and accessible data.
- It doesn't have to be perfect, but the key is to **learn and scale fast**.

Understanding the risks

- **Governance and output validation:** To ensure reliable Generative AI outputs, CFOs must validate LLM results, mimicking "garbage in, garbage out" by addressing data quality and building trust over time.
- **Hallucination:** Currently, LLMs have the tendency to confidently provide incorrect answers. AI can also inadvertently reinforce stereotypes or exclusions based on the training data set.
- **Unadjusted risk tolerance:** AI may not comprehend the risk tolerance of an organization. Ensuring a transparent controls process (security & segregation of duties) will be paramount as AI is leveraged at scale.

Taking a first step

- **Proof of concepts first:** Engage with Tech teams to develop AI experiments within 6 months.
- **Focus on data-heavy tasks:** Prioritize automation and analysis in data-rich areas.
- **CFOs lead the charge:** Build informed AI strategies and encourage enterprise adoption.
- **Prototype despite challenges:** Embrace messy data and legacy systems, learn from early iterations.
- **Early movers win:** Start now to lay the foundation for AI-driven success.

Insurance Use Cases

Industry Value Chain	Use Case Description	Primary Modality	Feasibility (H/M/L)	Customer Impact	Business Impact	Expected Outcomes
Product Design and Actuarial	Product Personalization fit. <u>Parse customer data across all insurer touchpoints and other third party data sources (e.g., claims data, policy preferences, social media, insurance coverage gaps etc.) to deduce customer needs for making product/coverage recommendations through text or voice.</u> Generative AI can be effectively used for customer acquisition as a majority of customers are researching insurance products online.	Text, Voice	H	H	H	<ul style="list-style-type: none"> • Relevant and effective products and service offerings • Increased sales
Distribution and Marketing	Agent assistance and customer education. <u>Create text and image-based product summaries, develop coverage comparisons, develop personalized coverage recommendations and develop real time illustrations to assist agents to provide the most relevant information and answer questions in real time when engaging with a customer.</u> By supplementing generative AI within CRM tools, agents/producers can be provided with enriched and personalized information about the customers to sell efficiently.	Text, Image	H	H	H	<ul style="list-style-type: none"> • Increased sales • Increased agent efficiency • Improved customer experience
Distribution and Marketing	Targeted outbound campaigns. <u>Develop audience-specific messages using text or video to market new products or existing product upsells to customers,</u> increasing sales and conversion (e.g., auto generated email with a policy offer based on contextual information about life events)	Text, Image	H	M	M	<ul style="list-style-type: none"> • Increased sales and conversion • Improved marketing ROI
New Business and Underwriting	Data Insights Curation. <u>Create text-based risk assessment summaries for underwriter review by parsing and analyzing broad sets of structured (e.g., claims data, location data, medical data etc.) and unstructured data (e.g., data and images from social media) required to make underwriting decisions.</u>	Text	H	M	H	<ul style="list-style-type: none"> • Improved underwriter efficiency • Improved risk assessment
New Business and Underwriting	Underwriter enablement. <u>Create quotes by analyzing structured and unstructured data against insurer underwriting guidelines and pass through automated underwriting workflow or trigger for underwriter review.</u>	Text	M	M	M	<ul style="list-style-type: none"> • Improved underwriter efficiency • Improved risk assessment
Customer Service & Operations	Automated customer service: <u>Use AI-powered chatbots for providing 24/7 customer service and support, handling a wide range of customer queries such as delivering information about policies and claims and helping with account management</u>	Text, Voice	H	H	H	<ul style="list-style-type: none"> • Improved customer experience • Reduced operational costs

Investment Management Use Cases

Internal Data Enabled

Client Facing



- **Improved Self-service:** Behavioral overlay for improved self-service using chatbot prompts, etc.
- **Templatized Estate Documents:** Wills, Power of Attorney, Incorporation Docs
- **Explanation of benefits:** Interpret or summarize complex documents, such as terms and agreements, benefits, exceptions, claim processes, etc.

Advisor Facing



- **Synthesis of non-quantitative information:** Summaries of trust document, wills, family trees/history, values, statements,
- **Behavioral overlay for improved client-service:** Call center scripts, any client interaction
- **Summarize Client Profile:** Preferences, communication styles, history with the bank, advisor notes etc. when bringing on /transitioning advisory resources
Internal: Improved knowledge management, learning, career pathing, etc.
- **Quantifying Longitudinal value of Advisor Recommendation :** Model hypothetical outcome based on if a specific strategy had been implemented

Client & Advisor Facing



- **Hyper-personalized offer generation:** Use GenAI across image and text, to generate offers matched to behavioral markers in propensity to buy and look-alike models

Key Enabling Data Sets

- **Client Behavioral Factors,** Investor Type (Personas), Risk Tolerance, Loss Aversion, Financial IQ,
- **Demographic** client (Age, family compositions, location, source of income, employment)
- **Usage of Bank's Products and Services:** Product Usage, Click Tracking, Web Analytics Data
- **Bank's Client Financial Data:** Current Assets, Deposits/Credits, Flows of information, ACH
- **Client Provided Documents:** Tax Statements, Estate Documents
- **Bank's Internal Resource:** HR, Learning, Portals, White Papers, Directory, Employee Profiles, Proprietary Bank Market Strategy, Tools, Handbooks

Internal & External Data Enabled

- **Increase engagement, usage and site visit metrics:** Create email/social copy to direct clients to the bank's content at the intersection of current events and client portfolio composition/interests
- **Investment Research & Advice:** Research for end-customers for portfolio management

- **Summarization:** Market reports / summaries for focus sectors
- **Report/Summary generation:** at intersection of market news and client portfolios
- **Investment Research:** Support research for clients' investment
- **Invitation to Events:** Based upon client profile share invitation with clients for better Customer engagement
- **Develop Investment Strategy:** AI inform models to maximize the portfolio outcomes, risk management on all available data
- **Trust Structure Recommendation:** Use available data and client objective identify the best fit Trust structure and domicile
- **Family Status Changes Engagement:** Identifying an action plan based on family status change

- **Next Best Action:** Recommendation of the next best activity for client/advisor
- **Client Retention Needs:** Intel on competitors along with client behavior (e.g., Wire Transfers to competitor) to proactively identify potential clients at risk and personalized mitigation approach

- **Publicly Available Market Data:** Assets Prices, Regulatory Filings, New Stories, Management profiles, Sentiment Gauges, Tax Data, Treasury Data
- **Publicly Available Client Data:** Professional Licenses , Boat, Car Registrations, Negative News, Social Media Profiles
- **Private Market Data:** Valuation of private assets/ non-public assets
- **Private Client Data:** Tax status data (subscribed data) for individual and entity tax return data
- **Third-party Data for Client:** Characteristics of client's portfolio (e.g., Equifax liquid and net worth estimate based upon client address)



Generative AI, A Game Changer?

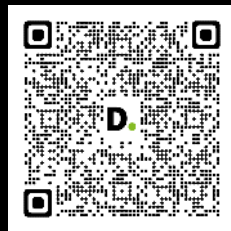
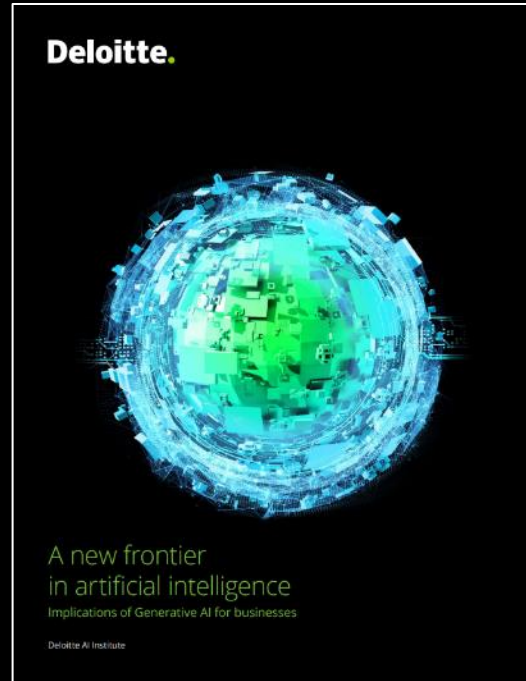
Narain Chutijirawong, Ph.D.
Executive Director | Clients & Markets
Deloitte Thailand



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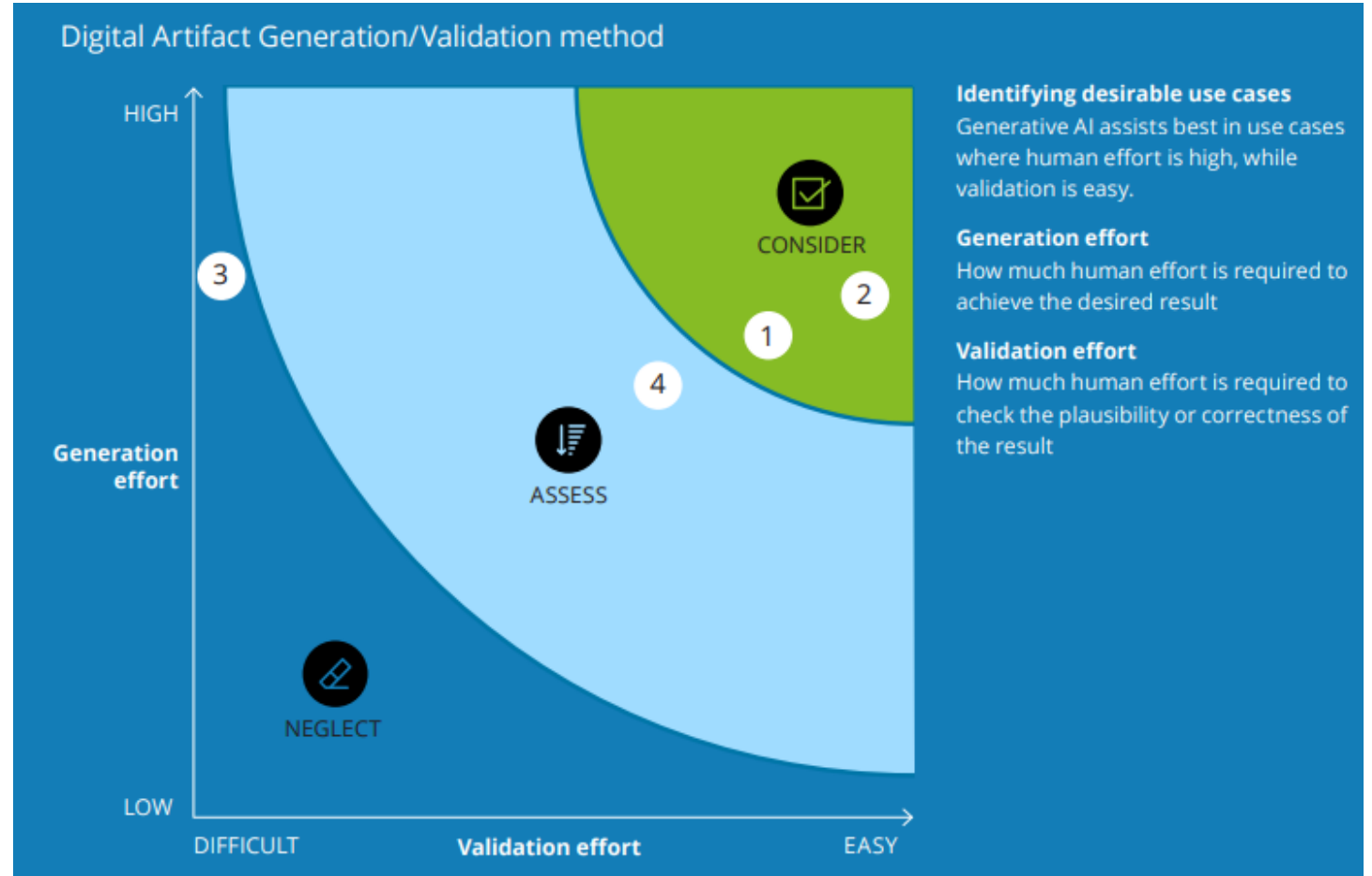
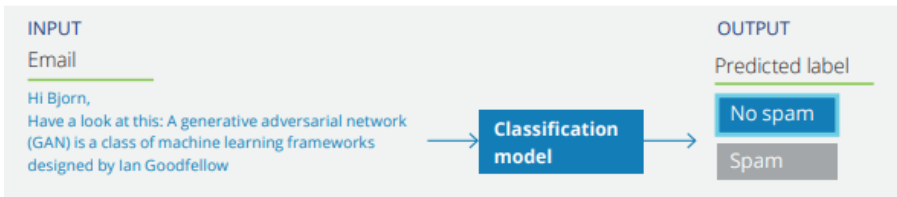
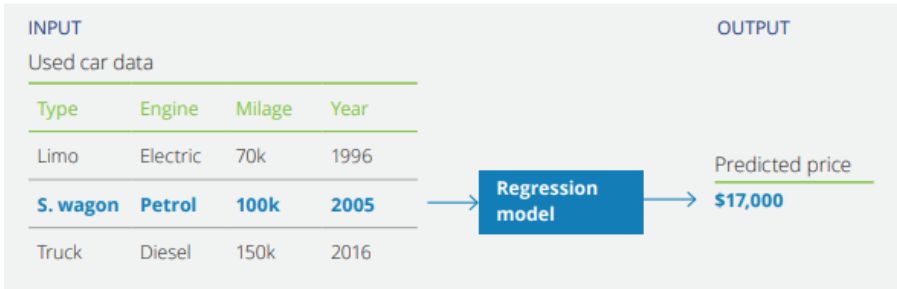


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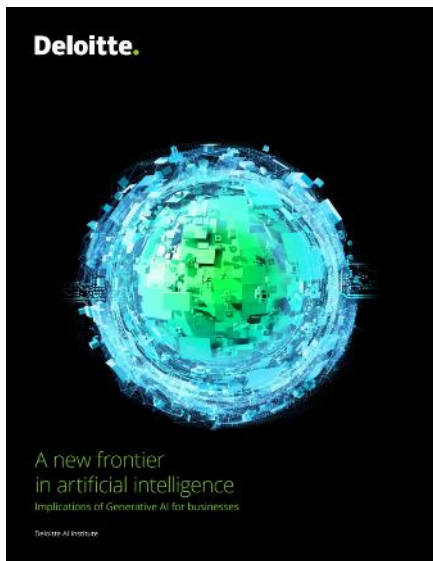


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Generative AI is all the rage



A new frontier in artificial intelligence | Consumer Use Cases



A Sampling of Consumer Use Cases Available Today

	Efficiency	Instruction	Creation	Entertainment
High Complexity ↑	Creating a health & wellness plan	Conversing with virtual companions	Generating & editing video files	Creating original games
	Discovering new products	Creating personalized financial plans	Creating interior design mockups	Chatting with pop culture figures
	Conducting research with citations	Teaching new languages	Curating outfits & fashion ideas	Rendering 3D environments
Low Complexity ↓	Curating content	Synthesizing research papers	Modifying & editing design files	Remixing or sampling music
	Answering general questions	Guiding & informing personal writing	Creating art & editing images	Generating original fictional short stories
	Sample vendors			
	Synthesis.ai Consensus	Grammarly Lingostar.ai	Luminar AI Lensa	Jasper Scenario

Source: Deloitte

A new frontier in artificial intelligence | Use Cases by Business Function



SALES & MARKETING

1. Video editing and generation
2. Metaverse 3D experience
3. Product descriptions and reviews
4. Personalized consumer advertisements
5. Recommender systems for e-commerce
6. Chatbot / virtual assistant dialogue generation



GOVERNANCE & OPERATIONS

7. Intranet search (knowledge management)
8. Process analysis
9. Training for new team members
10. Document inventory analysis
11. News and media summaries
12. Sentiment Analysis for Workforce



HUMAN RESOURCES

13. Personal onboarding assistant
14. Compensation analysis
15. Workforce skill analysis
16. 3D avatar creation
17. Metaverse 3D workforce experience
18. Metaverse 3D workforce upskilling



INFORMATION TECHNOLOGY

19. Code generation across languages/frameworks/CSPs
20. Development lifecycle documentation
21. Test automation and test scenario creation
22. Training on new technologies
23. Peer review for optimized code writing
24. Legacy code summarization & translation



SUPPLY CHAIN & PROCUREMENT

25. Demand planning (Consumer Sentiment Analysis)
26. Inventory analysis
27. Global trade-logistics analysis
28. Contract Adherence & Anomaly Detection
29. Scenario simulation
30. Language translation for global trade



FINANCE & ACCOUNTING

31. Fraud, waste, and abuse prevention
32. Regulation and oversight analysis
33. Financial report analysis
34. Proactive value opportunity identification
35. Budget and ROI analysis
35. Divestment recommendations

A new frontier in artificial intelligence | Use Cases by Industry

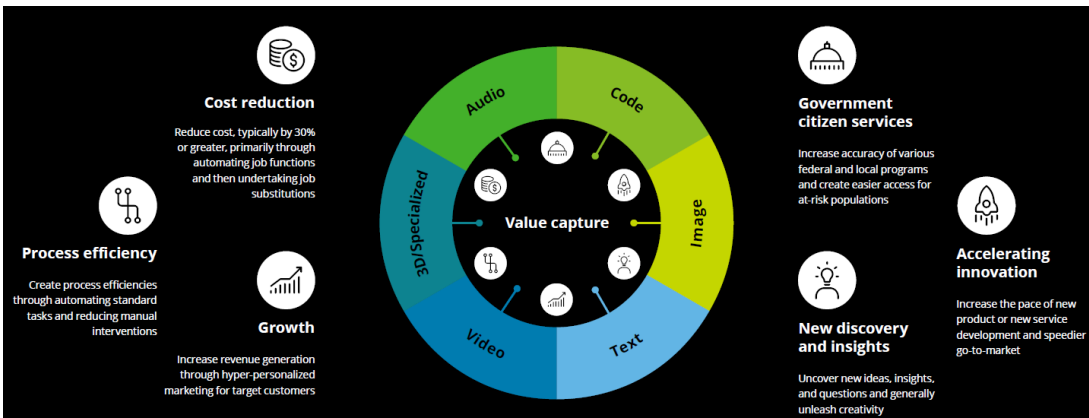
Sampling of Vertical and Horizontal Enterprise Use Cases

	Consumer & Retail	Life Sciences & Health Care	Banking & Fin. Services	Technology	Media & Telecom	Industrial & Manufacturing	Government & Public Sector
VERTICAL	Emerging Personalized Conversational Retail Experience ●●	AR/VR Content Generation for Digital Therapy ●●●●	Fraud Simulation & Pattern Detection ●●	Personalized AR/VR Experience Generation ●●●●	Original Games Creation ●●●●●	Geological Assessment for Oil Exploration ●●●●	Academic 24/7 Office Hours Virtual Assistant ●●●●
	Customized Product Design & Recommendation ●●●	Predictive & Virtual Patient Triage ●●	Tax and Compliance Audit & Scenario Testing ●●	Automated Product & Hardware Design ●●●	Trailer & Summary Generation ●●●●	Generative Simulation & Safety Testing ●●	Infrastructure Mapping & Planning ●●●
	Product Details & Photography Generation ●●	3D Images of Anatomy for Education ●●	Retail Banking Transaction Support ●●	Personalized & Automated UI/UX Design ●●●●	Script/Score Design & Subtitle Generation ●●	3D Env. Rendering: Well Sites, Pipelines, etc. ●	Disaster Recovery Simulation ●●
	Fashion Outfit Curation ●●●	Healthy & Wellness Plan Creation ●●●	Personalized Virtual Financial Advisor ●●	Product Testing & Feedback Generation ●●	Personalized News & Content Generation ●●●	Automated Tech. Equipment Training ●●●●	Fraud, Waste & Abuse Prevention Reports ●
	Personal Art Creation & Edits ●	Drug Discovery Through Molecule Simulation ●	Financial Reporting Analysis & Insight Gen. ●	Software Sales, CX & Retention Support ●●	Original Fictional Short Stories Generation ●	Generative Automation for Smart Factories ●●	Research w/ Citations & Explainers ●
HORIZONTAL	Personalized Conversational Retail Experience ●	Self-serve HR & IT Functions ●●	End-to-end Automated Customer Service ●●	Customer Feedback Sentiment Classification ●●	Automated Code Debugging & Issue Resolution ●●	Dialogue Generation for Virtual Assistants ●	
	Enterprise Search & Knowledge Mgmt. ●●	3D Environment Rendering: Metaverse ●	Marketing/Sales Content Generation ●●	Accessibility Support (text-to-speech & speech-to-text) ●●	Autonomous Code Generation & Completions ●●	Personalized Targeted Ads across platforms ●●●●	

Generative AI Modality

- Text
- Image
- Audio
- Video
- 3d Model
- Code
- Others

The Generative AI Dossier | High-Impact Use Cases across Six Major Industries



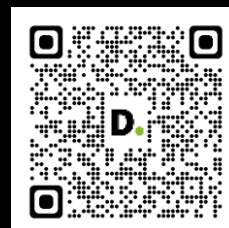
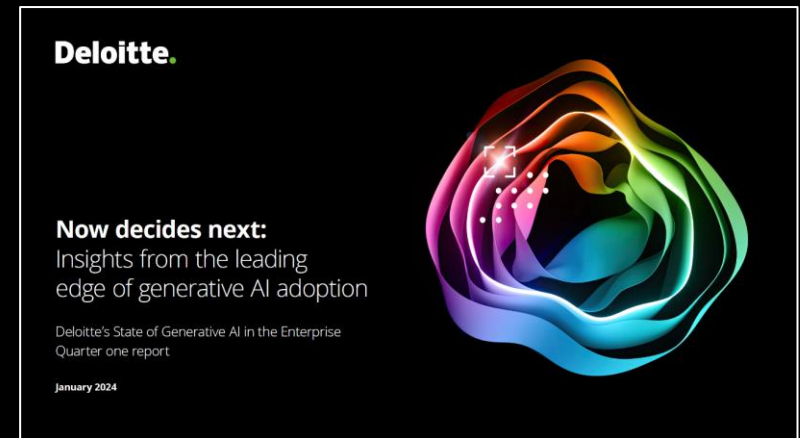
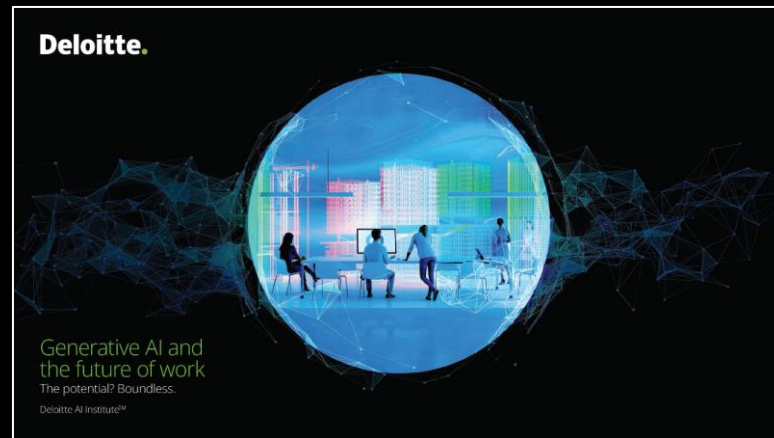
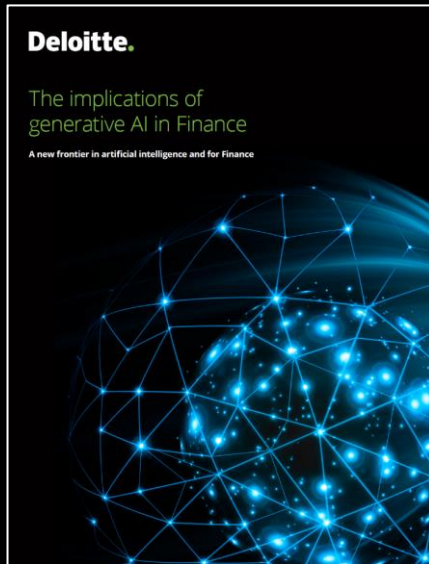
The Consumer Generative AI Dossier

Marketing content assistant (Content Generation)

Generative AI can be used to enable the creation of efficient, consistent, and personalized content across a range of modalities.

Issue/opportunity
Companies face a significant challenge in managing and optimizing marketing content. With hundreds of websites for brand portfolios, each in dozens of languages, companies struggle to allocate enough time and resources to create customer group-specific product descriptions, images, video, and even audio. Enterprises also wrestle with consistency across descriptions, imagery, ads, and other media, and the materials may not always be optimized for the necessary purposes (e.g., product descriptions for search versus e-mail). Companies need a method to provide a seamless and personalized brand experience across different ecosystems and touchpoints.

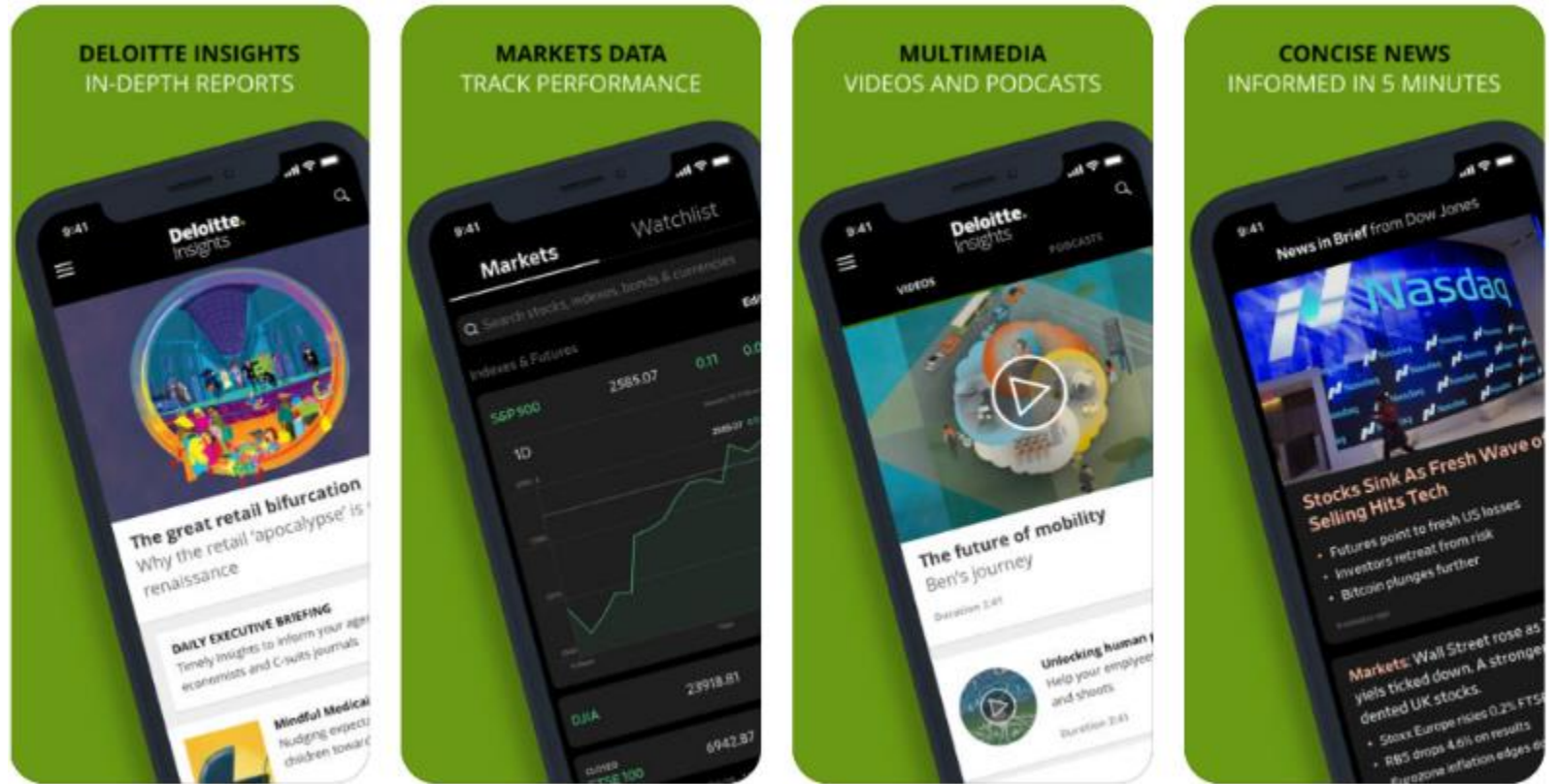
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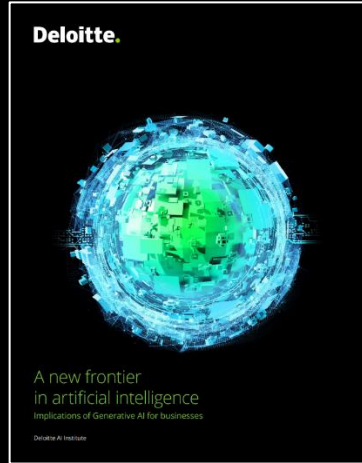
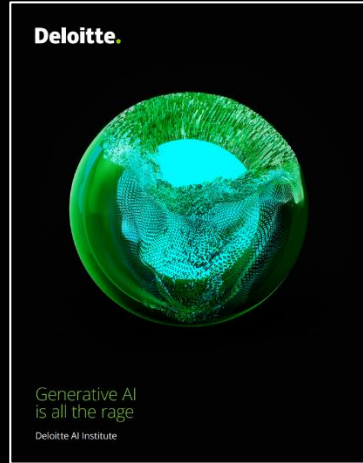
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