

# Tomorrow's Healthcare Innovations Wheel

October 2024

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## Everest Group's research coverage

#### Our services coverage



#### 30 years

of experience advising clients on strategic IT, business services, engineering services, and sourcing



#### Year-round

tracking all major IT service providers



#### Large repository

of existing research in services outsourcing



#### 5,000+

research engagements in the past 5 years, serving the Global 2000



#### 400+

analysts focused on services industry



#### **Executive-level relationships**

with buyers, providers, technology providers, and industry associations

#### Our industry focus



Healthcare



Life sciences



Banking & **Financials** 



Insurance



Retail and consumer goods

#### Our healthcare clientele (illustrative only)







Service providers





Technology providers





Ecosystem enablers









## Let's start with what happens when an epic ("not the EMR") mishap happens!

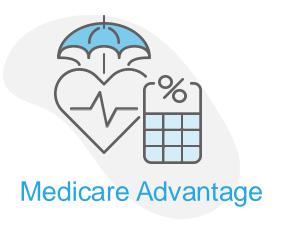






## Key business trends in healthcare







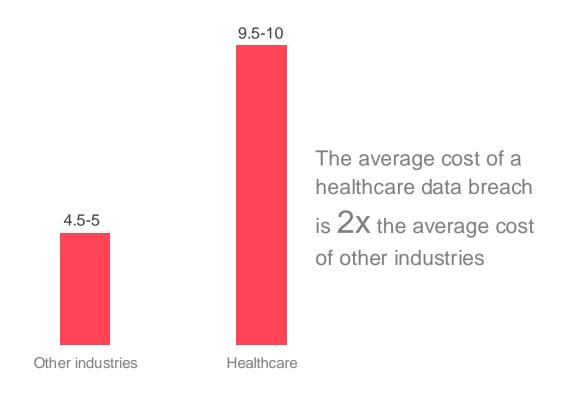
### Key business trends in healthcare | security



Globally, healthcare average cost of data breach<sup>1</sup> in 2023 is around

of the overall

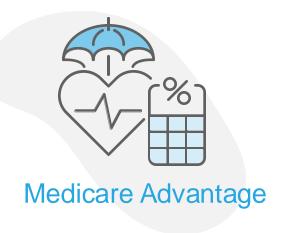
#### Global average cost of a data breach US\$ millions, 2023



<sup>1</sup> Cost of Data Breach Report 2024 by IBM

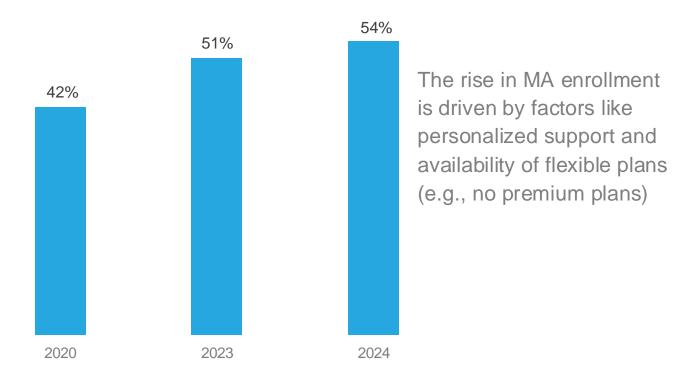


## Key business trends in healthcare | Medicare Advantage



#### Medicare Advantage Penetration<sup>1</sup>

Percentage of eligible population enrolled, 2024



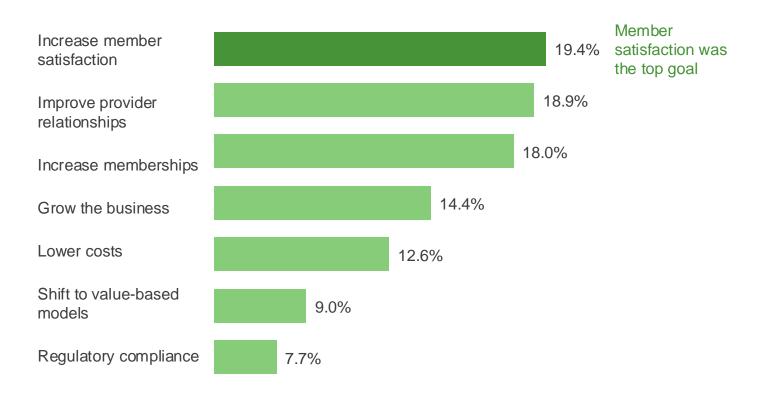
1 KFF report, Medicare Advantage Enrollment 2024



## Key business trends in healthcare | customer experience



# Health insurance executives survey on key priorities Percentage of responses N= ~200 health insurance executives<sup>1</sup>



1 HealthEdge survey

## Key technology trends in healthcare



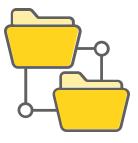
### Analytics

While patient/member data is growing constantly, wherein healthcare data comprises 30% of the global data volume, why are enterprises struggling to unlock the full potential of data and analytics?



#### Cybersecurity

With the average healthcare cybersecurity breach cost crossing **US\$ 10 million** – the highest among industries – what steps can organizations take to better protect against these escalating threats?



#### Data interoperability

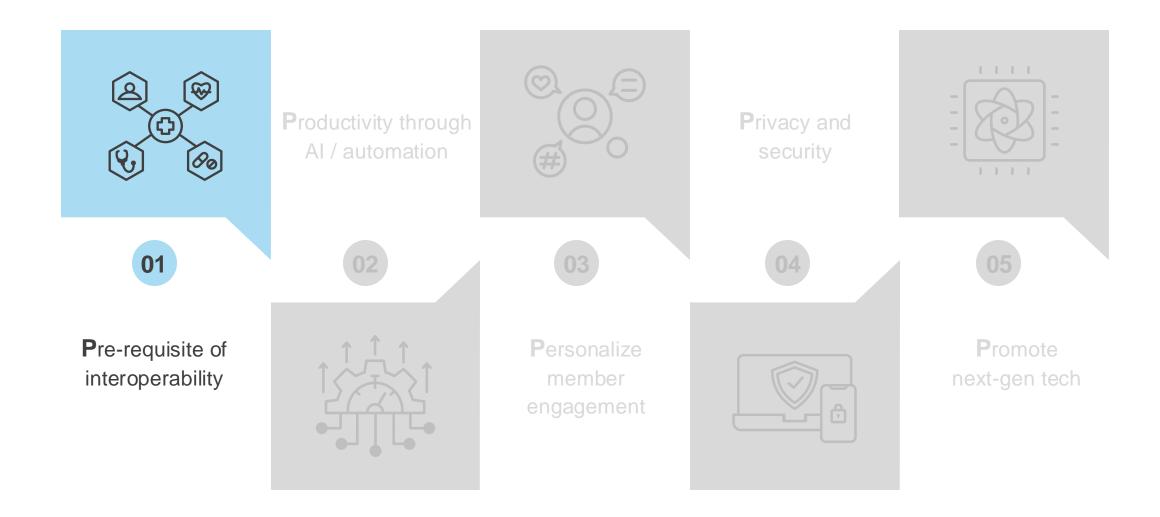
With multiple data standards in place, such as HL7 and FHIR, why are healthcare organizations struggling to achieve seamless data exchange across systems?



#### Generative Al

While there's significant buzz around generative Al, why have over 85% of GenAl PoCs failed to move from pilot to production?

## We will leverage the 5Ps to anchor the discussion today



## Audience poll 1

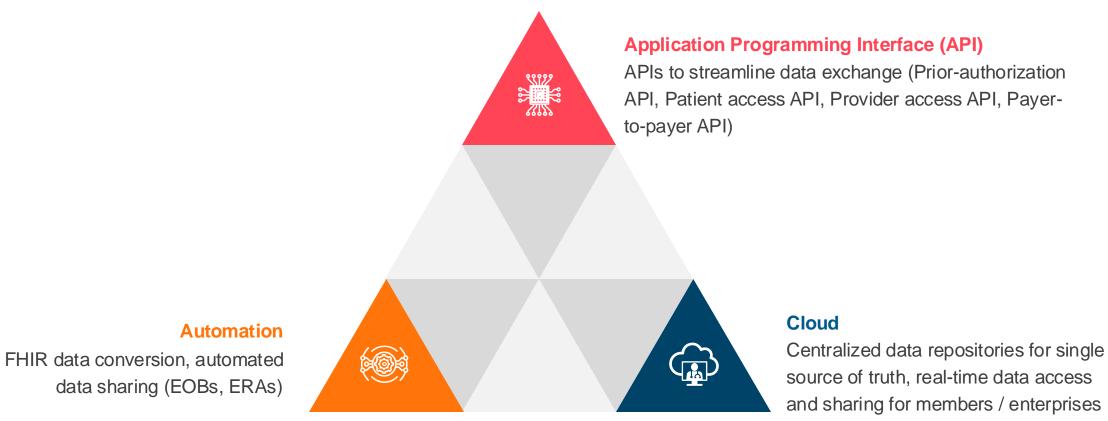
## Which is the most-pressing interoperability challenge currently?

- Data integration
- Phasing out legacy systems
- Data standardization
- Data quality (missing or incomplete information)

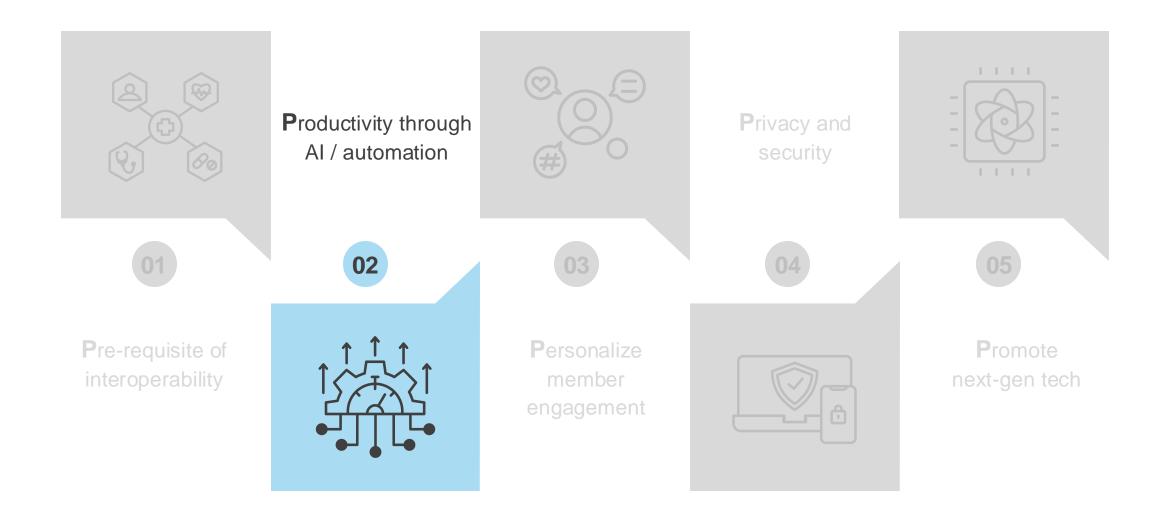
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Enterprises are leaning on technology to streamline data interoperability. While some of the technology investments have been discretionary spends, the CMS mandates have further necessitated and accelerated these investments

API-fication, automation, and cloud are having a huge impact on facilitating seamless data exchange



## We will leverage the 5Ps to anchor the discussion today



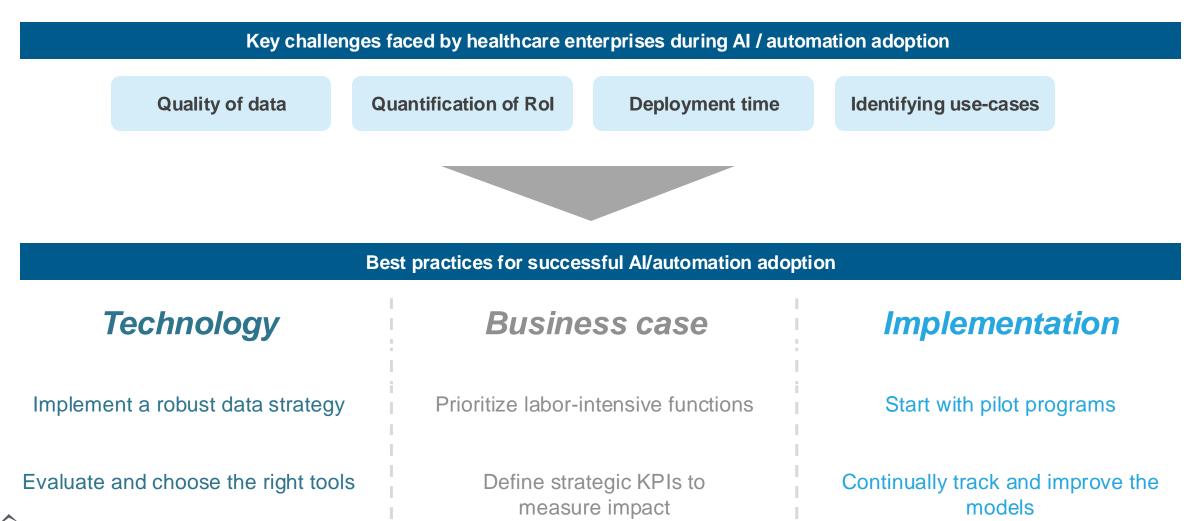
# Al and automation are improving efficiency across mid- and back-office functions by reducing manual work and enhancing decision making

	Functions	Adoption of AI and automation	Current technology-led use cases	Forward-looking technology-led use cases	
ack-office Mid-office function	Network management		Tools for analyzing provider performance	Al-driven network contract negotiations	
	Care management		Predictive analytics for at-risk patient identification	Al-enabled personalized care pathways	
	Prior Authorization (PA)		AI to determine if PA is required	Real-time prior authorization approvals (through APIs)	
	Provider data management		OCR to extract information and identify gaps	Automated provider credentialing	
	Claims management		Automated claims review and adjudication	Al-driven fraud, waste, and abuse detection	

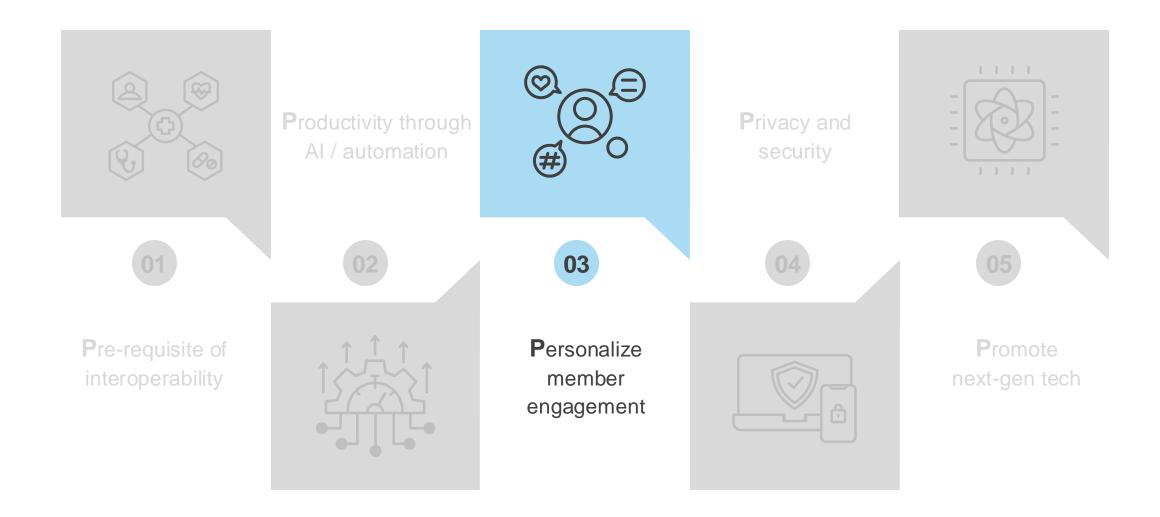
Medium

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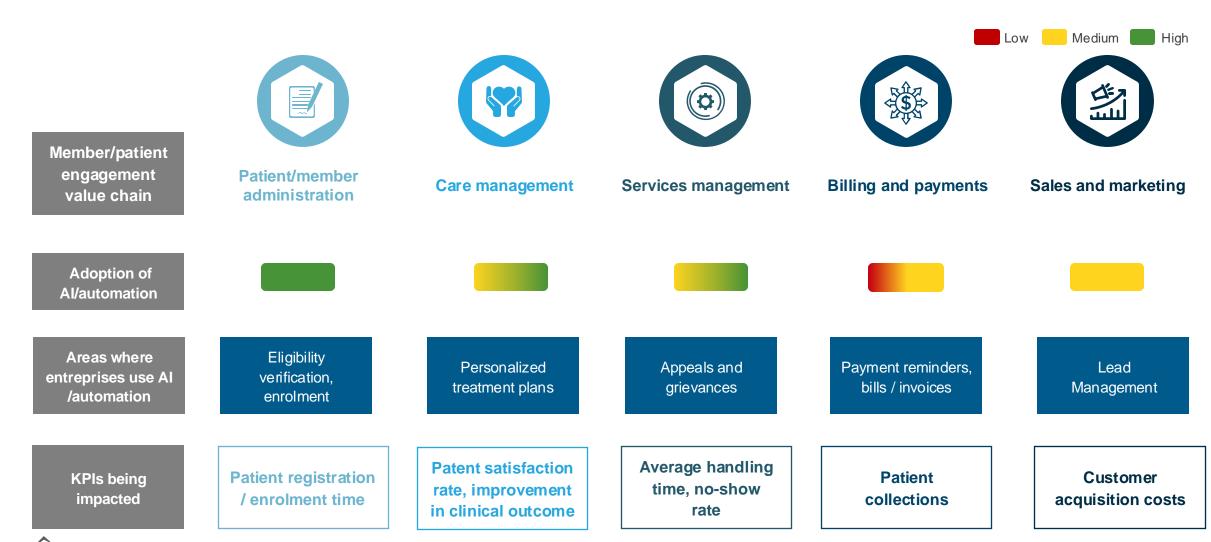
Enterprises must have a robust implementation strategy to navigate challenges and realize efficiencies through AI and automation



## We will leverage the 5Ps to anchor the discussion today



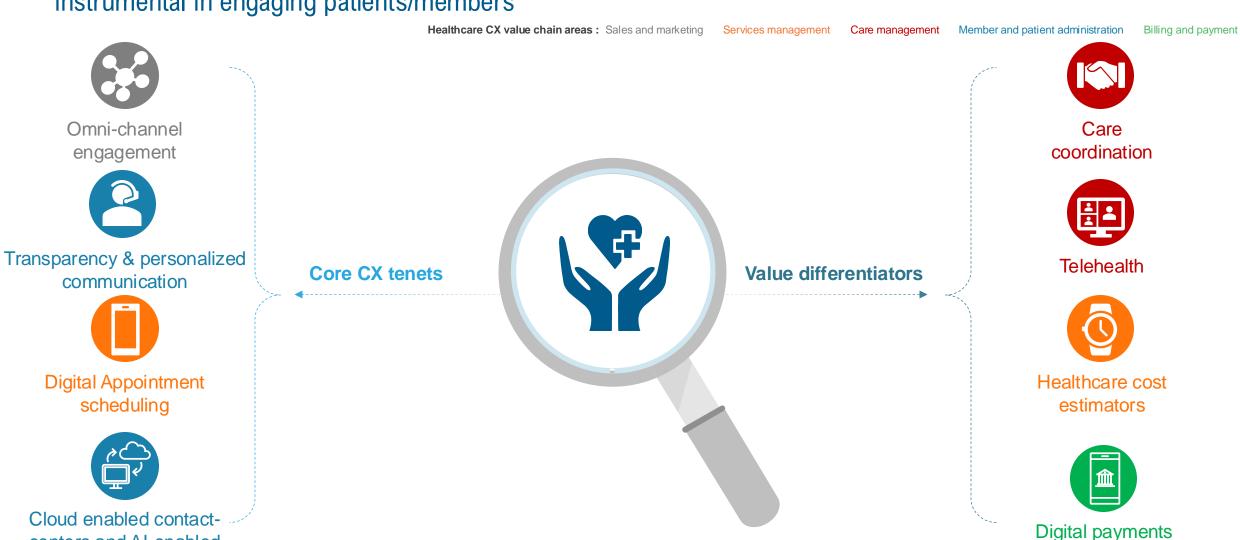
# Enterprises are leveraging Al/automation across the engagement value-chain to streamline various member/patient touchpoints



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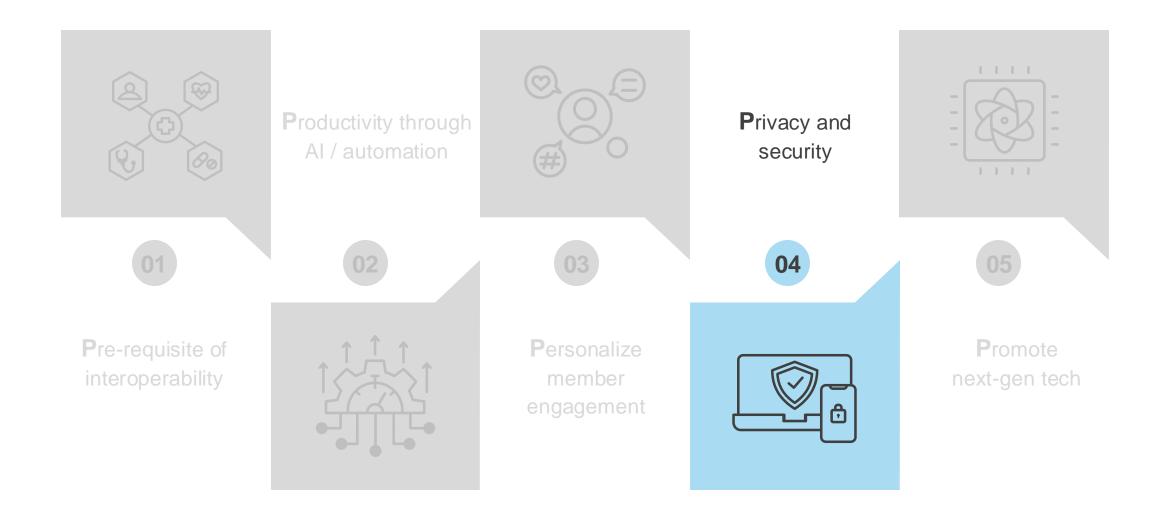
# While most enterprises are already leveraging core CX tenets, adopting value differentiators can be truly instrumental in engaging patients/members



chatbots
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centers and AI-enabled

## We will leverage the 5Ps to anchor the discussion today



## Audience poll 2

## What would be your preferred approach to balance your firms' security/functionality posture?

- High functionality (leverage third-party applications for productivity), but potentially vulnerable to threats
- Low vulnerability to threats (high control over data), but low functionality

In many ways, the UHG-Change Healthcare attack has been the key driver for enterprises to focus on cybersecurity



CHANGE

**HEALTHCARE** 

131 Mn

\$2.3-2.45 Bn

94%

Patients are served by Change Healthcare

Estimated total impact of the cyber breach as per UHG in 2024

of hospitals experienced some adverse impact

#### Prominent cyber threats in healthcare sector







Data breach

Ransomware attacks

Phishing

#### Best practices for enterprises to navigate data and security issues



Redefining CIO's role in healthcare



**Revamp security** culture



**Develop an incident** response plan

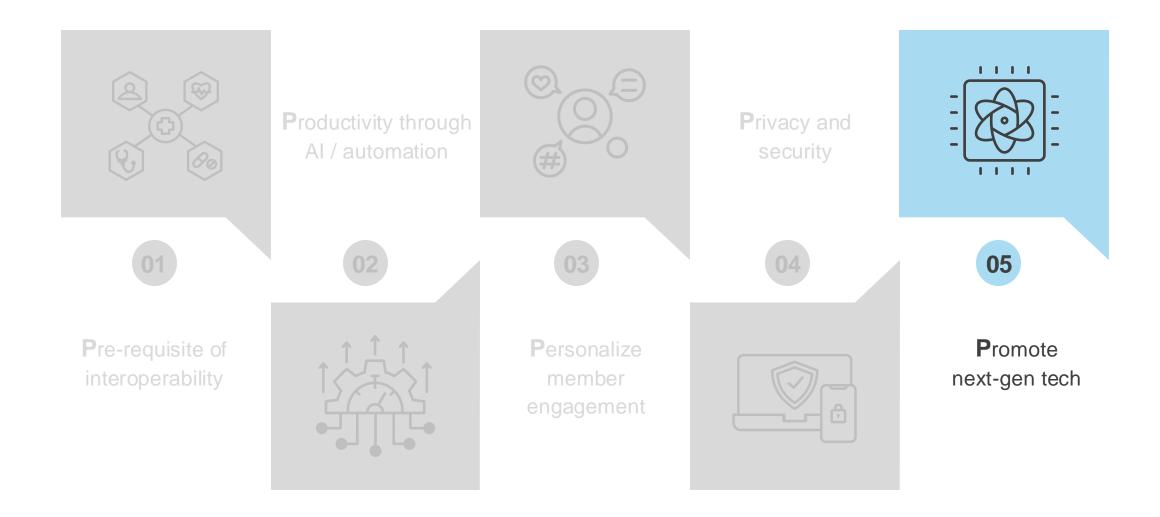


Implement data encryption and tokenization

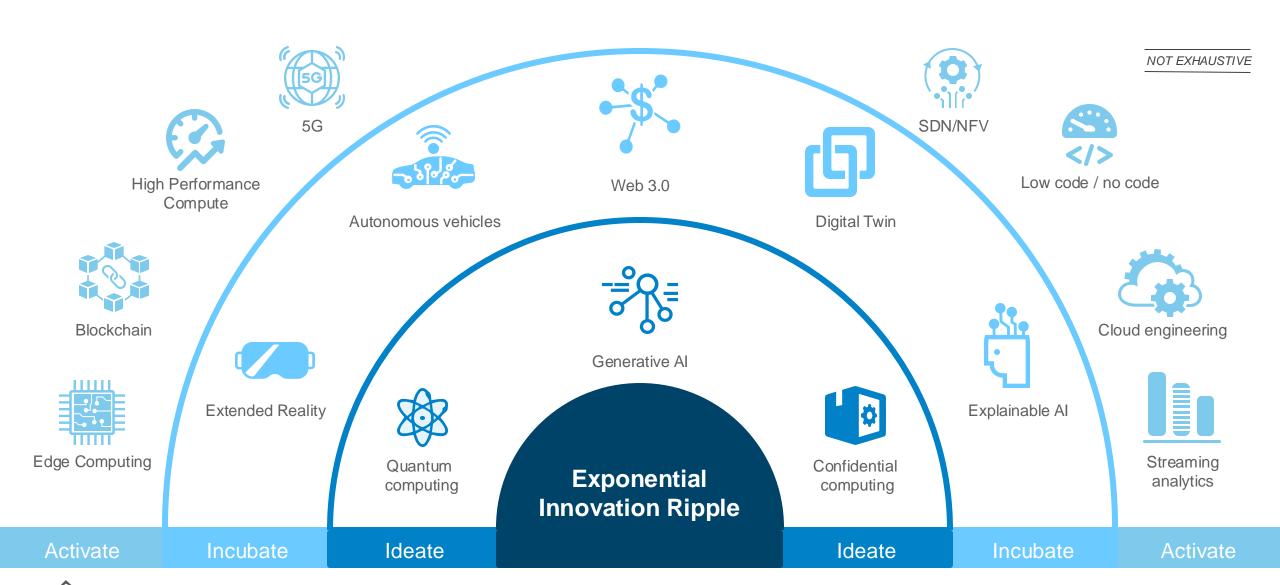


Leverage disruptive technology

## We will leverage the 5Ps to anchor the discussion today



We see an exciting array of exponential technologies and their innovation potential as they make their way through the ideate to activate to scaled enterprise adoption stages



# Gen Al has risen to prominence as a key focus, while the momentum in cybersecurity and big data is likely to persist

#### Top digital/next-generation investments for the next 6-12 months

Ranking based on percentage of respondents selecting as high priority

Growth in spend Significant (more than 6%) Moderate (4 to 5%) Low (2 to 3%)

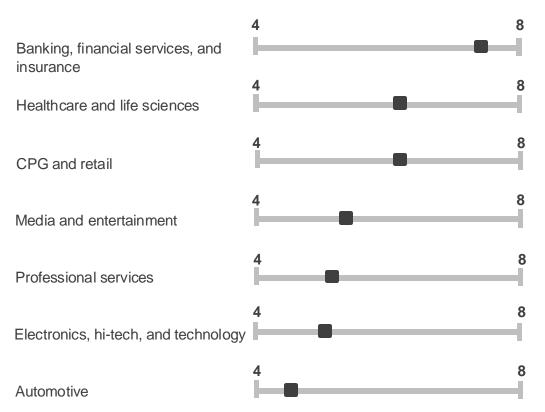
_	Cybersecurity	Cloud Advanced automatio solutions cognitive		Big data analytics	Generative Al	
2024 rank	1	2	3	4	5	
2023 rank	2	1	4	3	New addition in 2024	
Expected growth in spend						

Source: Everest Group Key Issues Studies 2024 and 2023

# Expectations are high for generative AI in healthcare

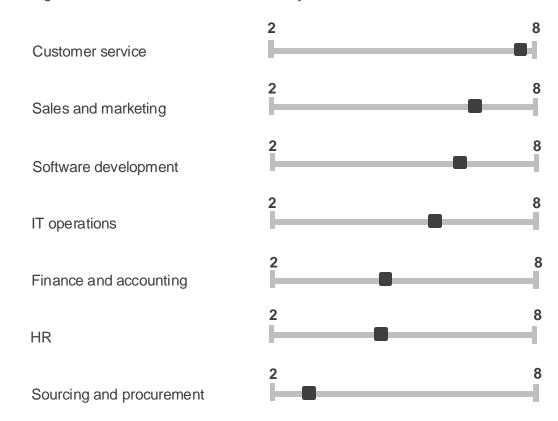
#### Key industries expecting gen Al to have high relevance

Rating on a scale of 1 to 10 from CXO survey1



#### Business functions expecting gen Al to have high relevance

Rating on a scale of 1 to 10 from CXO survey<sup>1</sup>



1 Conducted by Everest Group (2023)

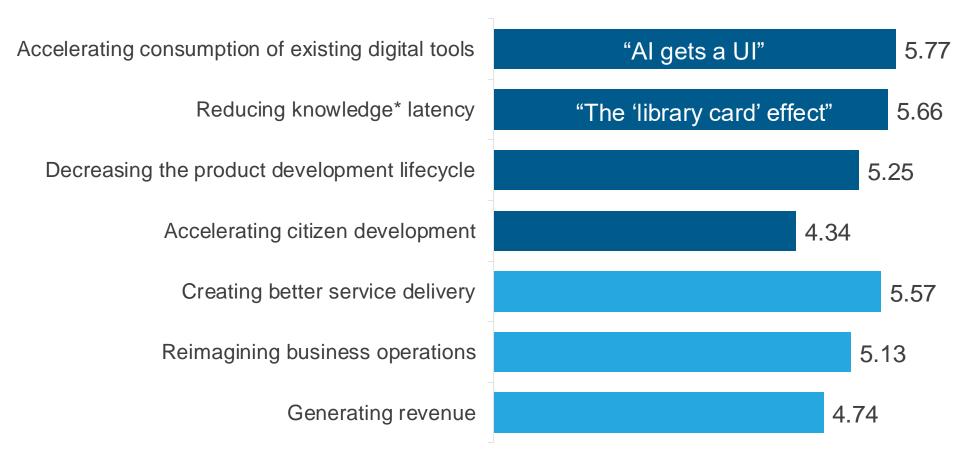


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## What objectives is generative AI credibly impacting?

What business objectives can gen Al credibly impact? On a scale of 1 to 7 (7 being highest)





<sup>\*</sup> Organizational knowledge management: executives, customers, employees, developers, functions Source: Based on a CXO survey conducted by Everest Group (2023)



## Very few healthcare-specific pilots are reaching proof-of-scale; most that do are IT or function-specific

			Low Med	lium High
Key areas	Use cases	Proof of concept	Proof of value	Proof of scale
	Personalized treatment plans			
Clinical excellence	Medical image reconstruction and noise reduction			
	Precision diagnosis			
	Chronic disease management			
Home health	Virtual health assistants			
nome neatth	Personalized patient communication and education			
	Disease progression monitoring and forecasting			
	Personalized learning pathways for healthcare professionals			
Supporting workforce and eliminating waste	Automated referrals and consultation letters			
eminiating waste	Simulating scenarios (surgical procedures, medical images for training, agent coaching)			
	Eligibility verification and initial screening			
Prior authorization	Automated data extraction and submission			
	Accelerated denial management			
	Provider credentialing and contract management			
Provider data	Patient risk stratification			
	Automated triage messages and routing to clinical staff			
	Code generation and debugging			
IT specific	Case generation and automated testing			
	Chatbot assistance (health chatbots with multi-language support)			
Contact center	Agent assistant (search, summarization, script generation)			
	Voice interface with contextual recommendations			

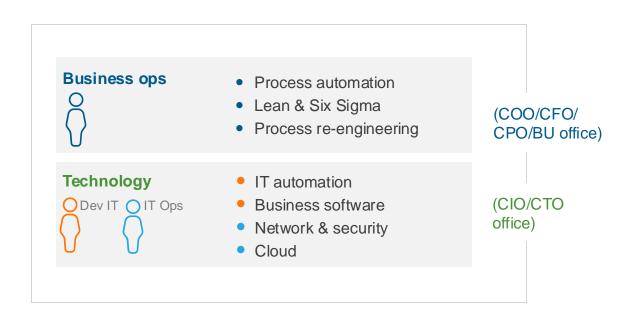
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Industry-specific



### Healthcare enterprises can solve for these challenges by adopting a value-based operating model

This operating model intertwines tech and business ops to respond to changing market needs at speed



Platform owner Accountable for endbusiness outcomes • Ensures tighter tech Techand ops alignment DevOps-led infused tech business ops Enterprise Design thinking Data & analytics Automation

- Siloed structure with focus on unit component optimization
- Different Objectives and Key Results (OKRs) for various teams
- Tech and operating model changes often out of sync
- Tech investment considered discretionary and centralized

- Intertwined teams with singular focus on business growth and outcomes
- Shared OKRs across the platform

Value based operating model

- In-step and ongoing tech and operating model changes
- Tech investment essential and federated

Current state

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# Thank you



