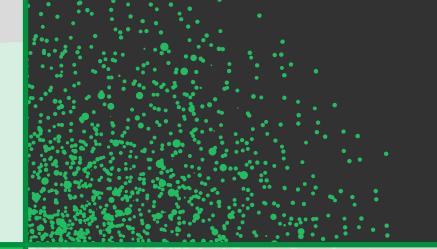
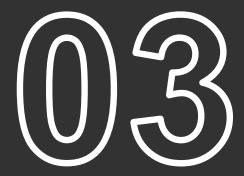


Executive Perspectives





#### **Unlocking Impact from AI**

**Customer Service Operations** 

August 2024

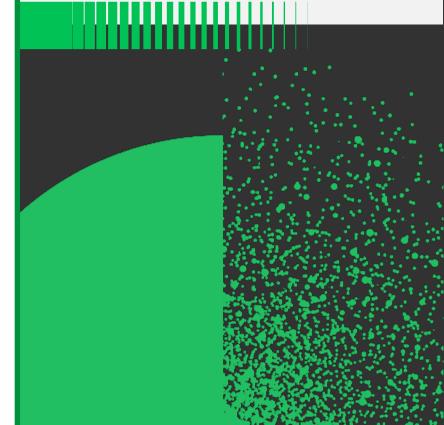
#### Introduction

We meet often with CEOs to discuss AI—a topic that is both captivating *and* rapidly changing. After working with over 1,000 clients in the past year, we are **sharing our most recent learnings in a new series designed to help CEOs navigate AI**. With AI at an inflection point, the focus in 2024 is on turning AI's potential into *real* profit.

In this edition, we discuss the future of customer service and the role AI will play in turbocharging growth. We address key questions on the minds of service leaders:

- How will the economics of customer service change with AI?
- How will the customer experience evolve?
- What will my future customer service team need to look like?
- How do I get started...and where should I focus?

This document is a guide for CEOs and customer service leaders to cut through the hype around AI in service operations and understand what unlocks value now and in the future. In this BCG
Executive Perspective,
we articulate the vision
and value of the future
of customer service
with AI



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#### **Summary** Unlocking impact from AI in customer service operations

Executives must act on Al now

As customers spend 14B hours/year contacting customer service, leading players set long-term ambitions to **improve service productivity by up to 60% while enhancing customer experience** with positive impacts on retention and additional sales

While most companies focus on support response, **transforming upstream is imperative to maximize value** – including deflection, self-healing, and prevention to create a competitive edge

AI impacts all elements of customer service operations

Unlocking the full potential of AI in customer service requires an **end-to-end reshaping of the entire operation** from prevention and self-service to service delivery, with **focus dimensions** being:

- **Team skilling and structures:** Increase productivity, which will lead to fewer but multi-skilled frontline teams with redesigned agent journeys, focusing on data generation for upstream prevention
- Al Ops capabilities: Establish new roles and skills that build, shape, and govern Al
- Tech ecosystem: Build modular components on layered stack

**Execute** successfully

Develop a **value-focused AI strategy with clear and visionary roadmap** to realize impact that balances short-term benefits and unlocking of long-term value

Broad, "at-scale" enablement of service agents and overall change management (including customer-facing communication) is critical to drive adoption – starting with leader enablement

#### Leading players set ambitions to improve customer service productivity by up to 60%

#### The baseline

On average, customers spend

**14B** 



Hours per year contacting customer service

#### The future

Leading companies set ambition of up to

60%



Productivity improvement for customer service

#### Value enabled by

**~10%** from AI models

**~20%** from tech/IT solutions

70% from people and process transformation

## **Deep dive: ambition** | Examples of leading players with high ambitions across industries

Select case examples

## Global tech company

~60% reduction in resolution time

~50% in volume reduction by 2030



Global tech company with contact centers serving 120 countries



**Embedded AI agent assist tool** into ways of working for support agents



New target operating model for AI-led support and interim states across three time horizons

## Global high street bank

~30% productivity improvement over the next three years



Global bank operating in ~20 countries, with ~15k FTE in customer service



Designed **target model** for omni-channel customer service, with AI at the heart



#### First wave of sprints

(tech, people, process changes) to realize early value and fund the journey

## Global financial company

~50% cost savings over the next five years



Private label and co-brand credit card issuer with over 100 brands signed in the US



Diagnosed current state, designed a 5-year AI vision and implementation roadmap



Defined service vision and strategy with focus on the target customer and agent Al experience

#### Short-term customer service P&L impact ranges between ~10% and 20%

## Productivity uplift on individual use cases today



Individual use cases
proving uplift on productivity
of ~30-40% already today

## Short-term P&L value impact



Short-term, **realizable P&L impact** across the function of ~10-20%

### Long-term P&L ambition



Leading companies with **ambition** to realize up to 60% productivity increase long-term

## Deep dive: short-term impact | Initial productivity uplift for tech company already achieved today

BCG case example

#### Where did they start?



Large tech company with initial AI deployment for their support agents focused on auto-case summarization and knowledge mgmt. for cases



**No unified vision** for the desired outcomes of Al



**Inconsistent user experience** and siloed, uncoordinated efforts to implement AI use cases across teams



**Limited enablement plan** and change management efforts leading to poor adoption



**Unclear use case prioritization** approach for informing the engineering roadmap

#### What are they doing?



Defined **North Star vision** to inform ambition and direction of the customer support organization



Stood up an **AI-focused program office** to ensure priority activities are executed against



Developed a detailed impact model to inform savings potential and help **prioritize use cases** 



Launched a **change management program** to ensure feedback is received and key messages are disseminated



Designed and launched **continuous improvement process** of Al-assistant-deployed use cases

## What impact do they already see today?

~80%

Reduction in average time agents spend on case summaries

**10-15**%

Decrease in need of expert help to solve cases

~10%

Increase in volume of cases handled by agents

#### In addition to productivity, AI can radically enhance Customer experience...



#### As-is **Human agent**

Fixed, linear processes, 'one size fits all" response, high variance in quality depending on individual agent

Customer



"Why is my bill so high?"

Solve the 1st order problem

Explain the bill



Commercial thinking

Make a cross-sell offer

Al augmentation goes beyond just automating this process

#### Customer



"Why is my bill so high?"



To-be vision Al-augmented agent

Dynamic process based on multiple parallel predictions improving average service quality

"Customer need" thinking

End-to-end process thinking

Risk-based thinking

Personalization

Situational thinking

Solve the 1st order problem

Commercial thinking

Root-cause thinking

*Is customer on the* right plan?

Has customer called before?

Has customer been scammed?

How much detail is needed?

What is customer's context?

Explain the bill

Make a relevant offer

Improve welcome communications

Optimized conversation based on real-time context

## ... with benefits on both customer satisfaction and commercial performance



#### **Better customer experience**

#### Pre-empt calls and foster self-help

- Prevent issues and requests from arising in the first place
- Generate proactive actions resolving issues before need for call
- Steer customers to self-service (voice/digital self-help)

#### Make interactions more seamless

- Use AI-powered assistants (chat, voice, or virtual [avatar]) to offer quick, accurate, round-the-clock support across service and sales processes
- Generate more personalized answers
- Enable more engaging conversational interactions (e.g., generative self-service IVR)



#### Stronger commercial excellence

#### Foster sales excellence

- Identify real-time sales opportunities
- Offer successful selling arguments and provide personalized sales pitch to agents
- Use virtual avatar that proactively engages with customers in a sales funnel to close the sale



#### Increase cross-/upsell performance

- Identify most appropriate by-product and provide sale details
- Enrich recommendations with personalized sales arguments

#### Reduce churn

- Spot customers at risk with predictive analysis
- Identify root causes of customer dissatisfaction
- Guide agents with ladders and personalized scripts

**+10-20** NPS

**+20-35%** CLTV<sup>1</sup>

## To realize full potential, transformation of the entire customer service value chain required, with support response being the typical starting point









**Pre-empt** 

Self-heal

Self-help

**Support response** 

Leveraging AI to
prevent issues
and requests from
arising in the
first place

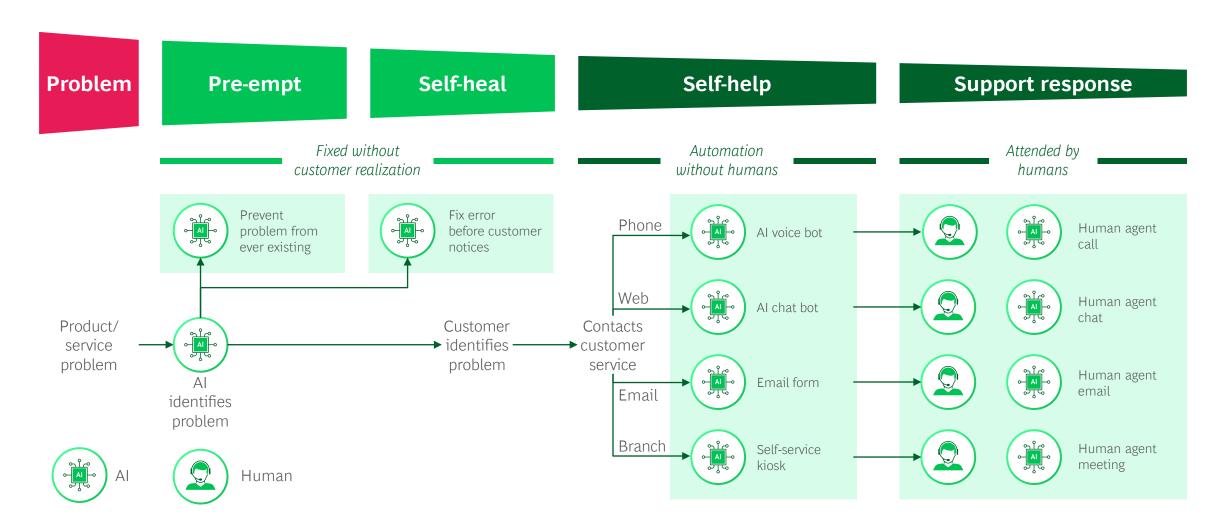
Using AI to fix issues before the customer notices them and without customer effort

Empowering customers with AI-based tools and information to self-solve their issues

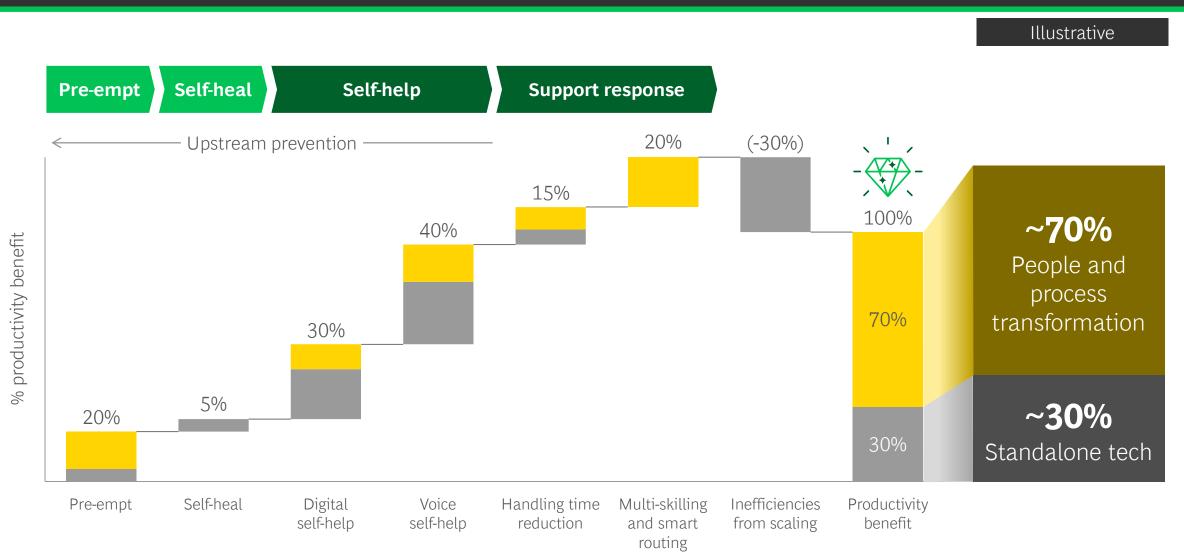
Enabling support teams and agents to resolve customer issues in the most efficient manner

Typical starting point

## **Deep dive** | AI transforms the entire customer journey, including upstream prevention



## Majority of value is unlocked by upstream prevention and realized by transforming both technology and people and processes



## Many have started implementing AI in customer service – we identified five common pitfalls that prevent value from being realized

#### **Common pitfalls**





Technologydriven Limited focus on people, process and change management leading to low adoption





Fragmentation

Individually built use cases that don't reuse common components





Use casecentric Improving status quo w/o leveraging transformative power to change the whole service function





**POC-focused** 

Implementation w/o pathway to scale and realize business value





Perfectionism

Striving for AI to be perfect vs. providing a better customer experience than the average agent (while of course still ensuring factually correct responses)

#### Three key success factors



Focus on end-to-end transformation

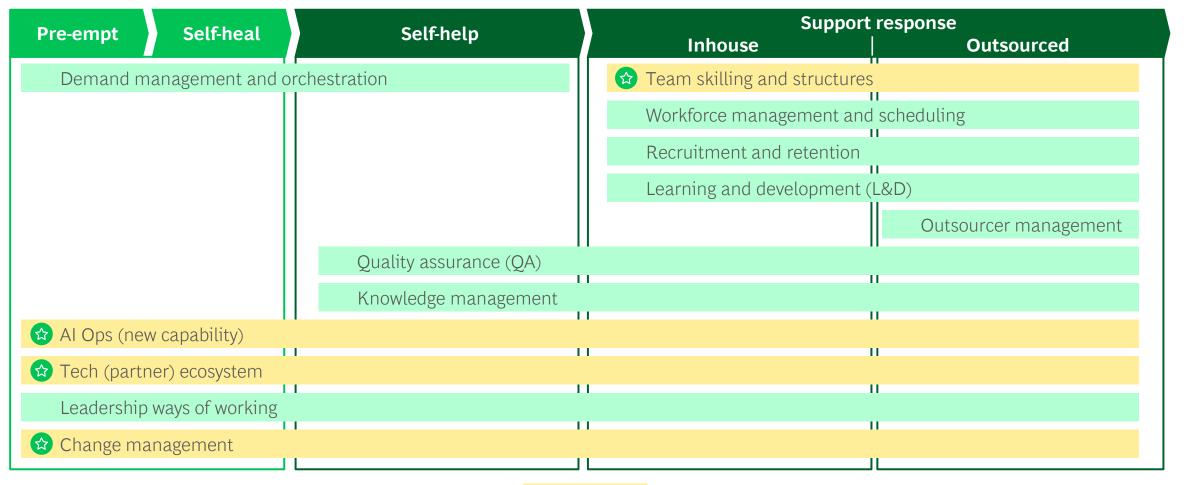


Set an ambitious top-down target



Measure P&L impact from "day 1"

## AI-driven transformation impacts all elements of customer service operations



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#### Deep dive: team skilling and structures | Three key shifts

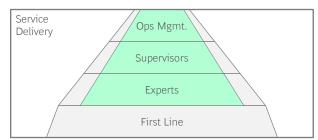
Illustrative – not to scale

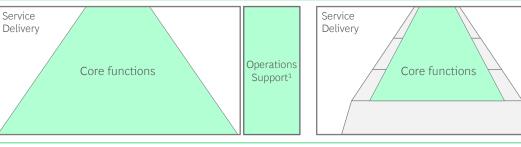
#### **Today**

## Team size



#### **Future**





#### **Key changes**

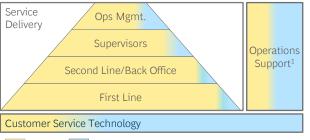
Move from people-heavy teams to 20-40% smaller frontline teams in 2-3 years and 60-70% smaller frontline teams in the long-term

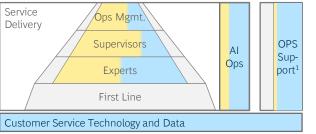
Al OPS to be included as central element of the Service Delivery (with limited role of Operations Support in the future)

Team focus

composition

Team





OPS

Sup-

port?

ΑI

Ops

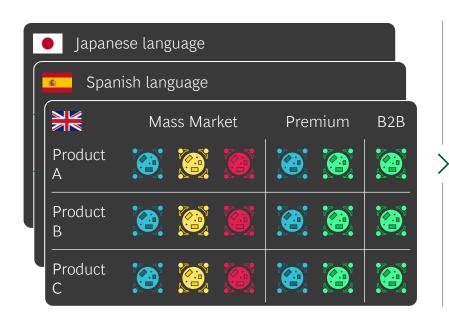
Time spent on activities: Run Continuous improvement and delivery of long -term change

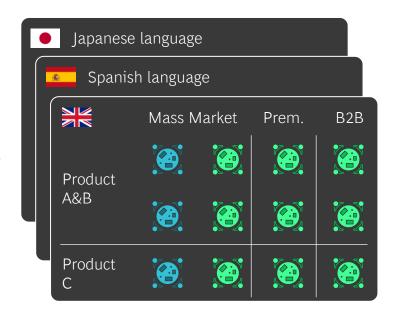
1. Functions including: WFM, knowledge management, partner management, training, QA, etc.

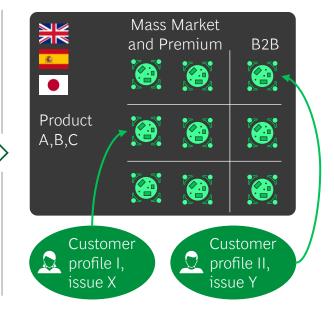
Shift from high share of time spent on run activities to **continuous improvement and delivery of long-term change** 

#### Deep dive: team skilling and structures Shift to multi-skilled second- and third-level support

Illustrative







**Starting point:** many discrete teams in contact center, split by:

- Product
- Contact reason
- Customer segment
- Language
- Etc.

#### Next 2-3 years:

- Lower volumes handled
- Mix of contacts is more complex
- Agents assisted by AI co-pilot
- Teams become more multi-skilled and fungible

#### **Target state:**

- AI-augmented agents handle broad set of requests, customers, languages, etc.
- Routing based on individual best match, not job title











## **Deep dive: AI Ops capability | New capabilities and roles build, shape, and govern AI**



## Roles that **BUILD AI**



and support technology platforms, leveraging advanced technical capabilities



## Roles that SHAPE AI

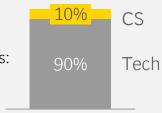
Business and functional experts who collaborate with customerfacing agents to articulate business needs and integrate models into business processes

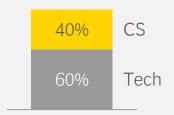


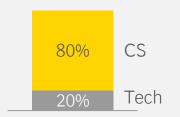
## Roles that GOVERN AI

Professionals who monitor Al outputs to ensure software is driving returns while verifying technology is being used safely and ethically









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## Deep dive: change management | Focus on increasing leadership, customer, and agent engagement



### **Enablement** of leaders

Build case for change and narrative, incl. benefits and metrics to provide leaders with tactics for leading the change and driving adoption



## Al adoption by customers

Nudge customers to use AI-enabled self-service through suggestions and adjustments to their options



Al adoption by agents

Establish training programs, change networks and feedback loops to drive adoption



## Agents' skillset and capability mix

Drive change in workforce capabilities through agent upskilling, new hiring, and cultural change

## Long-term ambition of value realization requires time horizon of over 24 months with first benefits possible after 3 months

Boosting impact of early use cases

(at ~0-12 months)

Unlocking AI impact through new use cases (at ~3-24 months)

Reimagining service experience with Al (at ~6-24+ months)

Increased adoption and success of early use cases driving measurable and marketable performance impact

Incremental benefits within current service model

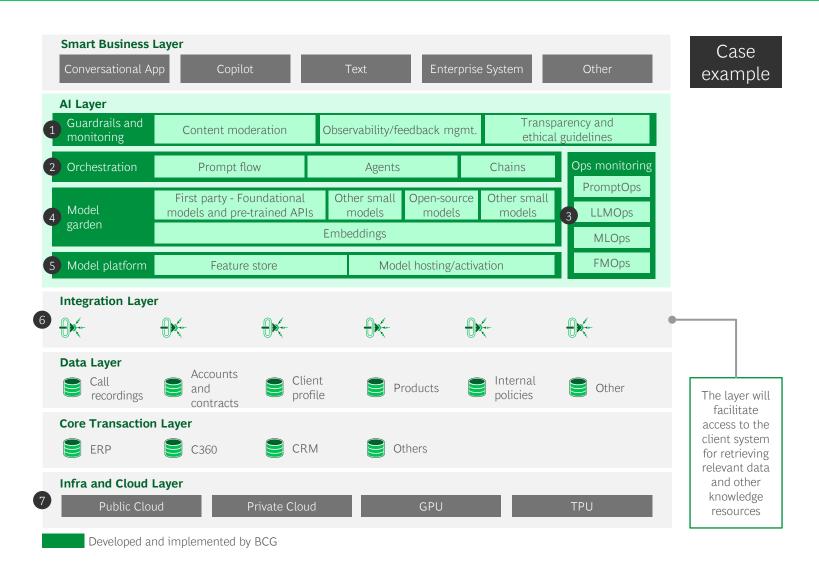
Initial unlocks of **full AI potential** via new **high-impact**and moderate-effort use cases

Step-function change in experience and efficiency

Fundamental shift of entire service function that transforms the experience for customers and employees

Watershed leap: Radical change in experience and efficiency

## Deploying and scaling AI effectively demands an optimized technology stack tailored to support and expand AI use cases



#### **Key considerations**

- Guardrails and Monitoring
  Capabilities to ensure correct behavior of AI (e.g., RLHF, red-teaming, constitutional AI)
- Orchestration
  New capabilities expected to coordinate different models and calls to internal and external APIs
- Ops and Monitoring
  New capabilities to ensure correct operation of Al use cases (including models, pipelines, and data)
- Model Garden

  Model capabilities required for use cases may impact nearterm platform selection. Open source for build use cases.

  (expect multiple)
- 5 **Model Platform**Support multiple models, privacy controls, performance (1-2 preferred platform(s) in short-run)
- Integration
  Integrate AI use cases to client enterprise systems to leverage client knowledge base, CRM system, ERP systems, etc.
- 7 Infra and Cloud
  Ensure AI choices align with overall hosting strategy
  (multi/hybrid cloud); plan for higher infra consumption

#### Reusable MODULES ...

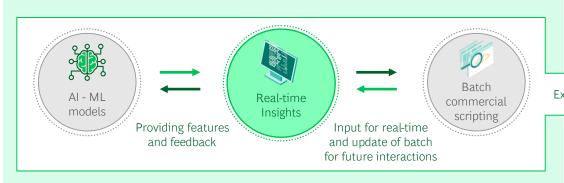
Product modules rely on reusable sub-components that combine to enable desired functionalities

Reusable code assets are bundled into reusable modules ...

- P1 Silence batch slicing
- P2 Whisper on-prem integration
- P3 Transcription cleaning
- PX Speaker parser

- M1 Call transcription
- M2 Transcription post-processing
- M3 Call summarization
- M4 Parameters extraction

... that constitute larger tech capabilities. Combinations of multiple modules augment each other's capabilities





#### Way forward to a value-focused AI transformation of customer service:



### Al vision and roadmap

- Baseline starting point and organizational challenges today (including baselining of as-is, narrative, tech foundation, etc.)
- **Define North Star vision**/Al ambition and align key stakeholders
- Prioritize and design use cases
- Conduct high-level impact assessment
- Set up **roadmap** for transformation and tech rollout



## PoC and value potential testing

- Build and launch PoCs and capture learnings
- Evaluate technical architecture, data options and build tech readiness plan
- Create detailed impact assessment and test future value potential
- Build out operational transformation plans for further rollout and scale-up



## **Transformation and change management**

- Drive and manage **tech rollout**
- Execute operational transformation at scale, e.g., integrate AI into key processes, establish op. model
- Drive change management and communications plan, e.g., change agent and customer adoption, etc.
- Select and onboard further tech partners, as needed
- Capture learnings and benefits

## **BCG experts** | Key contacts for customer service operations AI transformation

#### **EMESA**



Marcus Wittig



Alfonso Abella



Ignacio Hafner



Yasmine Hamri



Juan Martin Maglione



Hrvoje Jenkač



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