

AI is reshaping the commercial landscape for telecom companies. It offers innovative solutions that empower telcos to operate with heightened efficiency and precision. In this Viewpoint, we explore how leveraging AI optimizes individual transactions, can boost customer engagement by over 15%, and reduce operational costs by up to 30%. As telcos embrace AI-driven tools, the potential to accelerate growth and gain a competitive advantage becomes increasingly evident.

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Al is a rapidly evolving field that encompasses a variety of techniques and approaches to create intelligent systems capable of performing tasks that typically require human intelligence. Al is fueled by advancements in various subfields, including:

- Natural language processing, which enables computers to recognize, understand, and generate text and speech
- Computer vision, which enables computers to interpret and understand visuals such as images and videos
- Predictive analytics, which allows for predictions based on historical data, statistical modeling, data mining, and machine learning
- Generative AI (GenAI), which focuses on creating new content, such as images, text, code, simulations, and audio, among others

By seamlessly integrating various subfields, telcos unlock a diverse range of promising AI use cases, tailored to the maturity of the company and industry, the complexity of the desired solution, and the practical applicability of the use cases. In customer engagement, in particular, AI excels at personalized approaches, proactive service enhancement, sentiment analysis, and churn prevention. Core processes benefit from automated knowledge management, enterprisewide search, and dynamic content generation.

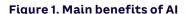
On the technology front, substantial improvements come via demand forecasts, infrastructure monitoring, legacy code analysis, and software development. These applications demonstrate AI's versatility and impact across multiple facets of telco operations and promise enhanced efficiency and innovative solutions.

A study conducted by Arthur D. Little (ADL), comprised of 70 chief experience officers (CxOs) from world-class communications service providers (CSPs), identified the main benefits leveraged through daily use of AI (see Figure 1):

- 71% emphasized improved customer experience (CX) as a primary AI benefit, including the customer-facing side of personalized sales and as an active tool for agents to improve customer support.
- 63% use AI to enable intelligent network optimization and predictive maintenance, leading to improved service quality and reduced downtime.

These benefits come primarily from GenAI.

These AI models hold immense potential for various industries, with commercial applications for sales, marketing, and customer relationships, among others. As GenAI goes beyond automating tasks, it introduces innovative solutions that companies can use to accelerate opportunities to cut through complexity in customer support.





ENHANCING DIGITAL ADOPTION

Many telecom operators worldwide still lag in understanding the significant impact of digital channels on the evolution of channel mix and in understanding the methodologies required to seamlessly apply AI to enable such digital adoption by telecom operators. According to a recent ADL Blue Shift Report based on in-depth research, market experience, an online expert survey, and interviews with leading players, only 16% of the 49 organizations surveyed had large-scale investments in GenAI in 2023; 22% had limited investments in the area, with the rest having no investments or no awareness of any investments within the organization.

Attitudes toward GenAI are also a barrier, as documented in Blue Shift:

- 51% of surveyed experts and organizations had limited familiarity with the subject.
- 18% had strong familiarity with AI use cases within their organization.
- 20% of the surveyed organizations had no familiarity with the technology.
- 4% were aware of technology but refused to implement it.

1. Operational model and cost structure.

Efficient utilization of these new technologies and digital formats can yield significant benefits, particularly in three key areas of value:

Digital channels significantly reduce the need to maintain multi-format physical channels, as well as remote call centers and commissions with third parties. Consequently, the investment made would be directly offset by the savings and cost efficiencies produced. For example, ADL analysis shows that 30% more customers can be served by a single agent, and customer response waiting

time can be reduced by 20% through a well-developed AI digital channel where customers are greeted by a hybrid AI-agent profile first.

- 2. CX. Al can enhance engagement and improve CX at every stage of the lifecycle, from initial contact through the sales process and quality assurance to the management of existing customers to reduce churn probability. Our studies show that SMS/email content and visuals adjusted, based on consumer lifestyle/ microsegment, generate a 15% higher positive response, increasing the net promoter score (NPS) faster than with traditional mechanisms.
- 3. Commercial efforts. The availability of richer information and insights can assist in personalizing and adjusting the value proposition, promotions, pricing, and conducting more effective cross-selling and upselling efforts. For example, ADL analysis indicates that a text-to-image model creates custom "apparel" that can be tailored to a "unique" service, resulting in a 40% increase in platform browsing and attention from customers.

The AI revolution has the potential to help telco's commercial channels evolve from personalized sales to proactive service. Yet bridging the gap between potential and profit requires more than just technical expertise. A strategic roadmap is key to ensuring that the company does not fall behind and successfully implements AI commercial capabilities, as they must become part of daily operational routines. We propose an effective and seamless three-step approach to activate and enhance these capabilities. As we illustrate later in this Viewpoint, this approach focuses first on laying the proper foundations for AI adoption, followed by strategic implementation and development, and ends by optimizing the engine for continuous improvement. By following this roadmap, telcos can transform AI from a futuristic ideal to a potent engine for innovation and commercial success. But first, let's examine how AI affects the sales process.

HOW AI IMPACTS THE SALES PROCESS

Telcos can effectively use AI end-to-end (E2E) through the entire sales process, as shown in Figure 2. First, telcos can enhance sales productivity, resulting in more lead generation, by leveraging AI-driven insights to effectively target customers. Additionally, telcos can lower unit costs within the sales process by optimizing resource allocation and capabilities. Subsequently, telcos can maximize the value of each sales unit by adopting personalized offerings and pricing strategies. Finally, telcos can enhance CX and satisfaction by automating their follow-ups and resolution processes.

1. Impact of AI on sales productivity

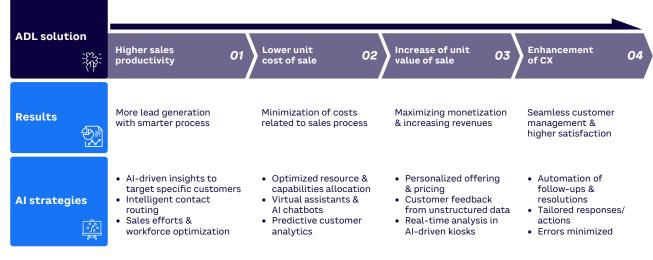
Al is reshaping sales with tools that elevate productivity; its offerings range from visual search for streamlined CX to real-time customer data platforms. These advancements work together, encompassing proactive communications, intelligent contact routing, and emotional detection, aiming to turn every interaction into potential sales through personalized responses.

AI HELPS TAILOR SALES APPROACHES AND MESSAGES TO DIFFERENT CUSTOMER GROUPS

Al's strength lies in task automation, interaction personalization, and workforce optimization.

Cases across the telco industry include targeting and lead generation, predictive analytics that empower teams to sift through vast amounts of customer data, and high-potential lead identification that enables focused efforts on the most promising opportunities. Through market segmentation, AI helps tailor sales approaches and messages to different customer groups, ensuring a more personalized and effective engagement strategy. Real-time lead scoring further streamlines the process, allowing sales reps to prioritize and convert leads based on their online behavior and interactions.

Figure 2. Effects of AI-driven commercial revamp with AI



Sector insights: Marketing, from B2C to B2Me

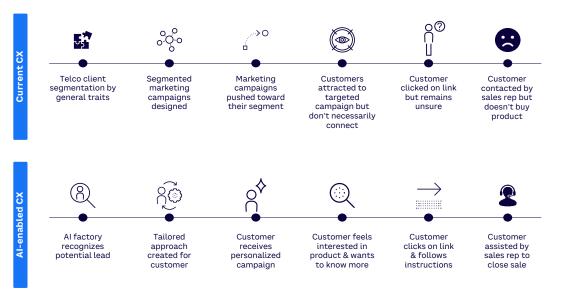
A leading telco operator developed an AI factory with a 360-degree data platform of automated marketing to offer the right product at the right time to the right customer. A rich customer knowledge base was created by leveraging realtime behavioral and transactional data. For example, a new platform delivered personalized offers across all channels in real time. An AI-powered automated marketing ecosystem - from productcentric (sending a product offer to relevant customers) to customer-centric (sending each customer the most relevant offer) — is shown in Figure 3. This AI factory has allowed the operator to increase existing sales by 6% since its implementation.

GenAI is redefining managerial capabilities by evolving reports into predictive diagnostic tools, enabling swift opportunity identification, and real-time coaching. This transformative approach replaces custom builds with the adoption of off-the-shelf applications, reducing the need for specialized talent.

In sales process automation and optimization, automated quote generation not only saves time for sales reps but also ensures precision. Moreover, AI facilitates more efficient contract analysis and review, highlighting key terms and potential risks. The integration of AI-powered sales pipeline management tools automates tracking, prioritizes tasks, and provides valuable insights, ultimately optimizing the entire sales workflow and enhancing team productivity.

Al is going beyond efficiency to unlock business-to-business (B2B) sales potential. Indeed, Gartner projects that by 2025, 75% of B2B sales teams will integrate Al-driven selling into their methods. By handling repetitive tasks, Al empowers sales reps to concentrate on strategic endeavors. Real-time insights from Al facilitate faster, data-driven decisions. Al's comprehensive tools are revolutionizing sales productivity by urging teams to work more intelligently, with the potential for further productivity enhancements.

Figure 3. Marketing experience case study



CSPS USE AI TO
PROVIDE TAILORED
SOLUTIONS, INCREASING
THE LIKELIHOOD OF
SUCCESSFUL SALES
CLOSURES AND
UPSELLING

2. Elevating unit value of sales through AI

AI-powered customer analytics and segmentation in telecom companies do more than streamline business operations; they amplify the unit value of sales. By leveraging data-driven insights, CSPs use AI to provide tailored solutions, increasing the likelihood of successful sales closures and upselling. GenAI enhances pricing strategies by rapidly benchmarking products and extracting valuable customer feedback from unstructured data. This facilitates intelligent customer segmentation and pricing approaches, which drive growth and customer satisfaction. Additionally, in B2B environments, AI's swift identification of key contract clauses supports the creation of competitive offers that contribute to revenue enhancement.

Sector insights: Al's role in amplifying sales value

A leading telco operator introduced AI to its stores to revolutionize its services. By implementing AI-driven kiosks, the telco personalized promotions and enhanced service assistance, while AI tools optimized inventory and prices based on local preferences. Furthermore, real-time AI systems provided staff with immediate customer data, ensuring tailored in-store guidance. As a result, the operator achieved a remarkable 75% surge in revenue, all while significantly elevating customer satisfaction.

3. Reducing unit cost of sale with AI

AI is dynamically transforming the sales function.
The adoption of AI is expected to potentially
generate a spike in leads, while significantly
reducing call time and costs. By automating
forecasting and honing high-quality lead targeting,
AI ensures efficient time and resource investment,
slashing both labor and miscellaneous costs.

Virtual assistants and AI-driven chatbots are revolutionizing customer support by delivering personalized experiences and automating routine tasks, freeing up human resources for more complex issues. AI-powered chatbots enhance CX and reduce costs by swiftly providing tailored information. They facilitate seamless handoffs to human agents, who are equipped with data acquired by the chatbot when needed. These elements expedite interactions, resulting in significant time and operational cost savings.

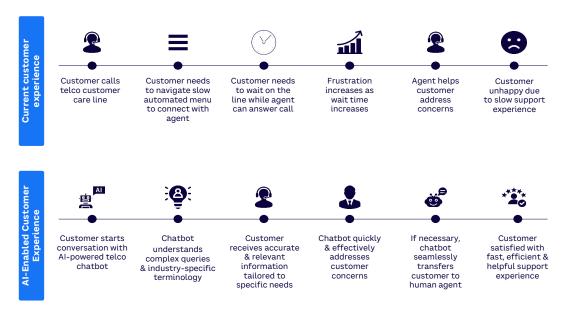
Sector insights: Al's role in reducing cost of sale

A leading telco operator implemented conversational AI to reduce the number of agents and increase service quality (see Figure 4). The implementation of AI has delivered impressive results, using billions of interactions to drive engagements in conversations. The chatbot has become more human and consistent and has relied on past experiences to select the best solutions; it managed to improve the brand's relationship with its customers while incrementing converted sales by 4x, reducing the cost per interaction by 50%, and increasing customer satisfaction by 20%.

Al's potential in commercial applications isn't restricted to applications that directly interact with the customer; it also ventures into dynamic price optimization, adjusting prices in real time to address market changes and integrate competitor data.

VIEWPOINT

Figure 4. Customer care experience case study



Source: Arthur D. Little

Internally, AI-powered management tools maximize human resource allocation; when paired with predictive customer analytics, the tools can anticipate needs and streamline operations. Additionally, AI's predictive capabilities extend to managing energy consumption across networks, serving as a preemptive factor in network planning, deployment, and operations.

4. Al enhancement of customer management & experience

Al plays a pivotal role in refining customer follow-up and responses, which significantly benefits sales executives. By automating lead nurturing campaigns, it enhances efficiency by introducing new offerings to existing clients and managing requests, complaints, and suggestions (RCS), thus freeing up executives to focus on critical tasks such as closing deals. Its unique capability lies in crafting personalized follow-up messages and responses, thereby increasing conversion prospects, providing efficient RCS solutions, and ultimately leading to higher customer satisfaction. By leveraging historical data, Al determines optimal times for follow-ups, ensuring timely and relevant interactions.

AI PLAYS A PIVOTAL ROLE IN REFINING CUSTOMER FOLLOW-UP AND RESPONSES

Moreover, it recommends tailored solution response actions, minimizes errors, and continually monitors effectiveness for strategic enhancements.

Al's impact extends further through complete automation of the follow-up and response process, autonomously dispatching personalized messages at precisely the right time without requiring human oversight. This timely and targeted communications significantly amplify the interaction outcomes, keeping customers engaged at crucial moments. Furthermore, this autonomy enhances conversion chances and empowers sales executives to engage in complex negotiations and cultivate relationships more effectively. Additionally, AI provides comprehensive records of these interactions, capturing their success metrics for future reference and analysis.

AI-powered transformation

Various AI tools assist customer service personnel in providing a better experience and gaining a deep understanding of their users. ADL recently embarked on proactively transforming the customer service of a tech company, aiming to establish a unified perspective on the customer. This involved consolidating diverse brand viewpoints to empower call center agents and enhance the overall CX:

 The project was launched after a merger and aimed to revolutionize engagement, creating a seamless 360-degree view of customers. Success was achieved through a multi-brand, fully integrated solution across channels, leveraging leading cloud providers for standard components and innovating differentiators.
 The iterative implementation, guided by agent preferences, delivered tailored efficiency.

Results included a unified view of customers and omnichannel communications with a consolidated entry point. A unified agent backend could access all relevant information, thus reducing resolution time. About US \$6 million in synergy savings resulted from eliminating technology and workforce duplication.

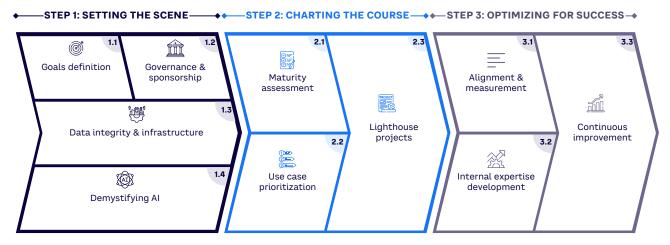
ACTIVATING COMMERCIAL CAPABILITIES THROUGH AI

As the wave of AI continues, several pivotal concerns emerge that businesses must address to harness its full potential. rom governance structures to the nuances of use case selection and the ever-present need for data security, a comprehensive three-step roadmap (see Figure 5) can guide leaders through their AI journey of integrating its capabilities into their day-to-day processes.

1. Setting the scene

- Goals definition. Clearly articulate desired outcomes for implementing AI. Identify specific business challenges to address and the value to unlock. A roadmap with well-defined goals guides the journey and ensures every step contributes to their achievement.
- Governance and sponsorship. Establish a
 clear ownership structure, whether centralized
 or decentralized, and designate a dedicated
 senior sponsor to drive decision-making and
 accountability aligned with the goals.

Figure 5. Three-step roadmap for AI journey



THE LANDSCAPE FOR CUSTOMER ENGAGEMENT WITHIN THE TELECOM SECTOR CONTINUES TO BE RIPE FOR INNOVATION

- Data integrity and infrastructure. Secure
 high-quality data, cultivate robust underlying
 processes and systems, and prioritize data
 security as the foundation for reliable and
 trustworthy AI outcomes that support the
 process of achieving goals.
- Demystifying AI. Bridge the knowledge gap by educating leadership on key AI concepts and equip the team with relevant AI tools to minimize bias and promote informed decisionmaking, enabling effective implementation and utilization of AI solutions.

2. Charting the course

- Maturity assessment. Conduct a comprehensive evaluation of the organization's Al readiness, identifying strengths and weaknesses to develop a roadmap for skill and infrastructure development.
- Use case prioritization. Meticulously analyze potential AI applications, quantify their impact, and prioritize high-value initiatives to maximize ROI and steer resources toward projects with the greatest potential.
- "Lighthouse" projects. Implement strategically chosen pilot projects, using minimum viable products as controlled experiments to gather valuable data, refine approaches, and ensure success before fullscale deployments.

3. Optimizing for success

- Alignment and measurement. Identify KPIs for each AI application to ensure alignment with overall strategic objectives and enable measurable results.
- Continuous improvement. Foster a culture
 of iterative learning by regularly evaluating
 the business impact of deployed AI solutions,
 adapting approaches based on data insights,
 and actively seeking new optimization
 opportunities.
- Internal expertise development. Invest in comprehensive training programs for the workforce on AI tools and methodologies to cultivate in-house expertise and empower teams to drive future innovation and success.

NAVIGATING THE NEXT DECADE

The landscape for customer engagement within the telecom sector continues to be ripe for innovation, with enterprise service management tools playing a pivotal role. An in-depth ADL analysis unveiled AI as the torchbearer leading the charge toward a more personalized, insightful, and efficient future:

- Hyperpersonalization in marketing.
 The power of GenAI is being harnessed to revolutionize marketing and sales strategies.
 Telcos are now poised to see a 3%-7% revenue increase through AI's capability to tailor social media and advertising messages, creating a more personalized dialogue with customers.
- The "segment of one." The traditional one-size-fits-all approach to campaign management is giving way to a "customer segment of one," with potential revenue boosts of 2%-6%. This hyperpersonalized strategy digs deep into consumer behaviors, enabling telcos to focus their communications and offerings on individual preferences and behaviors.

- Al-powered churn reduction. Churn management is transitioning from reactive to predictive, with Al using vast data sets, including location and browsing history, to anticipate and address churn proactively. This could lead to a 2%-5% reduction in churn rates.
- Redefining sales and channel partnerships. In sales and market planning, AI and datadriven strategies are recalibrating the dynamics between telcos and their channel partners. It's no longer just about managing partners, but empowering them with AI-crafted content to fuel their sales, projecting revenue increases of 2%-6%.
- Loyalty in the AI era. Lastly, loyalty and referral programs are being reimagined through AI's lens. Personalization goes beyond basic point systems to create dynamic loyalty programs that could enhance customer retention by 2%-5%.

THE ONUS IS ON COMPANIES TO STRATEGICALLY INVEST AND INTEGRATE ALADVANCEMENTS

As we push toward 2030, it's clear that AI's role in marketing, sales, and loyalty programs will not just support the existing infrastructure, it will redefine it. The technology's current trajectory promises a future where each customer interaction is an opportunity for telcos to consolidate their relationships, drive revenue, and reduce costs, all while delivering an unmatched CX. The onus is now on these companies to strategically invest and integrate these AI advancements to remain at the forefront of this customer engagement revolution.

CONCLUSION

BOOSTING SALES EFFICIENCY & CUSTOMER SATISFACTION

EMBRACING ADVANCEMENTS IS ESSENTIAL FOR MAINTAINING A COMPETITIVE EDGE

Telcos that proactively integrate AI into their daily operations can achieve significant improvements in sales efficiency and customer satisfaction. Embracing these advancements is essential for maintaining a competitive edge, maximizing operational efficiency, and enhancing customer interactions, which will create substantial value:

- 1 Refining sales strategies and follow-up processes. Al optimizes the unit value of each transaction, ensuring tailored and value-added engagements.
- 2 Advanced automation. All enables professionals to focus on more intricate tasks, fostering stronger relationships and improving conversion chances.
- **E2E impact.** When used proactively in daily operations with an E2E approach, AI can positively impact all areas and processes.
- 4 Competitive edge and operational efficiency. Embracing AI is crucial for businesses to maintain a competitive edge, maximize operational efficiency, and elevate customer interactions.

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