

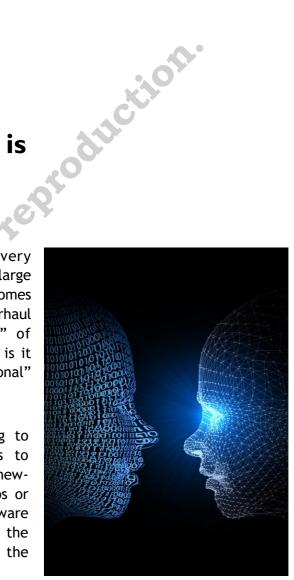
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Digital-First MVNOs: How AI is Transforming CX

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The telecom industry is constantly changing. With every technological breakthrough, from generative AI and large language modeling to composable software architecture, comes new opportunities to redraw market boundaries and overhaul the customer experience. However, the "leveling up" of telecommunications isn't being driven by "big telcos," nor is it solely driven by what we might now describe as "traditional" mobile virtual network operators (MVNOs).

Instead, a new breed of digital-first MVNOs is emerging to capitalize on the AI boom. Their singular objective is to champion the customer experience above all else. These newbreed MVNOs don't necessarily regard themselves as telcos or network operators. They're retailers, banks, software developers, energy companies, digital disruptors that have the agility, resources and talent to deliver what they see as the ultimate end-user experience.



Traditional MNOs, and to a certain extent, legacy MVNOs, often operate from a back-end-first perspective, optimizing infrastructure and software before considering customer interactions. Digital-

first MVNOs reverse this model. They prioritize front-end, AI-driven engagement, ensuring subscribers receive intuitive, highly customized services without the complexity of managing telecom networks or moving from one monolithic business support system (BSS) to another.

According to Fortune Business Insights, the <u>MVNO market was valued at a staggering \$84 billion</u> in 2023. The figure is expected to swell to \$149 billion by 2030, with market consolidation and increasing competition among MNOs and MVNOs cited as key drivers. As digital natives, newer MVNOs are best positioned to compete in the market. They can leverage cloud-based platforms and mobilize AI-driven workloads to rapidly deploy new services, make tailored recommendations, reduce

subscriber churn and adjust to market needs in ways that traditional operators and even established MVNOs struggle to keep pace with.

The key differentiator? Artificial intelligence. The evolution of AI isn't tracked from one year to the next but week-by-week, month-by-month. While MNOs and older MVNOs are relatively slow off the mark with new AI capabilities, new-breed MVNOs can adapt and respond as digital disruptors in any industry. They don't see AI as an add-on or an enhancement. They see it as the foundation of the modern MVNO business model.

Championing the Customer Experience

Traditional telecom operators are weighed down by infrastructure, legacy systems and regulatory constraints that shape their operational models. In contrast, digital-first MVNOs have no such baggage. Their focus is entirely on delivering seamless, intuitive, and hyper-personalized customer experiences.

Without the burden of maintaining complex networks or legacy BSS platforms, these operators can move faster, innovate more freely and prioritize service over infrastructure. Their agility allows them to identify emerging consumer trends, launch services tailored to specific market segments and pivot quickly when customer demands shift. Unlike MNOs, which must balance network optimization with customer-facing services, digital-first MVNOs can dedicate their full attention to perfecting the enduser experience.

This shift in priorities means that the digital-first MVNO model fundamentally differs from its predecessors. These operators are channel-first, not network-first. Instead of managing telecom infrastructure, they integrate cloud-native platforms and AI-driven automation to streamline onboarding, billing, and customer engagement.

AI-powered BSS, for instance, allow them to leverage real-time predictive analytics to dynamically adjust pricing and service plans and anticipate customer needs before they arise. The result is a more personalized, frictionless telecom experience. It feels less like a traditional mobile service and more like a digital ecosystem where various services and features converge.

Al as the Engine of Change

For digital-first MVNOs, customer experience *is* the product – and AI is the engine driving it. While traditional operators rely on predefined service bundles and static customer interactions, AI enables a fluid, individualized approach to subscriber engagement. Predictive analytics allow MVNOs to analyze real-time customer behavior, identifying trends that inform dynamic service adjustments.

MNOs once broke the mold by offering tiered pricing and service plan options; now digital-first MVNOs are taking that one step further by tailoring deals to individual subscribers — adjusting pricing and service options based on user engagement and behavioral patterns.

Still, AI's role extends beyond pricing and personalization. It's raising the bar for customer engagement. Virtual assistants and agentic AI chatbots are replacing traditional customer service models, offering instant, conversational support without raising support tickets or sit in queues. AI can also automate issue resolution, predicting and preventing service disruptions before they impact the user.

For example, consider an AI-powered support system that detects an unusual spike in a user's data usage. Rather than waiting for a customer to notice and get caught short, the system can proactively notify them, suggest a temporary data boost and later recommend a data plan that might better fit their needs. This shift from reactive to proactive customer service is one of AI's most significant contributions, reducing churn and drastically reducing the chances of a customer becoming frustrated.

There are broader market considerations too. Al-driven automation makes it easier for consumers to seamlessly switch between service providers, creating brand loyalty or "marriages of convenience" a thing of the past. With Al-powered tools capable of continuously analyzing pricing, network quality and user preferences, customers could soon rely on autonomous systems to optimize their mobile plans in real-time, switching providers as effortlessly as they might switch streaming services.

As eSIM technology removes the friction of swapping physical SIM cards, this trend will likely accelerate and force operators to rethink customer retention strategies. Rather than relying on traditional loyalty programs or long-term contracts, MVNOs will need to use AI proactively to respond to customer needs and anticipate and preempt churn before it happens. The battle for customer retention will no longer be won through static incentives but through dynamic, AI-driven personalization that makes switching unnecessary.

MNOs, MVNOs and the Al-Driven Future

The telecom sector has reinvented itself repeatedly to "follow the market" and meet customers – first in the middle, and now on their doorstep. The shift to AI-driven, customer-centric services has been mirrored in countless other sectors by digital-first challengers. Much like over-the-top (OTT) services redefined media consumption and eliminated intermediary traditional broadcasters, AI-native MVNOs are positioning themselves as the new trust layer between consumers and connectivity.

The risk for MNOs is clear: as MVNOs take ownership of customer relationships and use AI to create seamless, hyper-personalized experiences, traditional operators may be reduced to mere infrastructure providers, managing networks without meaningful brand engagement. To remain relevant, MNOs must rethink their approach, either by adapting AI-driven models or embracing sub-brands and partnerships that allow them to compete in this new landscape.

For digital-first MVNOs, AI will need to be regarded as more than just a tool. It will become the defining factor that determines who thrives and who fades. As generative AI advances, its ability to automate, personalize and optimize mobile services will further redefine how customers interact with – and consider – telecom providers. Connectivity will become a commodity like any other, a background facilitator that customers expect to work in their pockets. Whether through real-time predictive analytics, dynamic service offerings, or fully autonomous AI-driven interactions, the next telecom era belongs to those who can deliver this connectivity in the most non-invasive, frictionless, and complementary way possible.