Intelligent Visibility

Reimagining Contact Center Infrastructure: How AI-Powered IVR and Co-Managed CX Platforms Are Reshaping Enterprise Customer Engagement

Intelligent Visibility ⚙ intelligentvisibility.com ⚙ (866) 840-5456 ⚙
223 S West St. Suite 900 Raleigh, NC 27601

I. Executive Summary

The landscape of enterprise customer engagement is undergoing a significant transformation, driven by the increasing sophistication of customer expectations and the rapid evolution of technology. This report examines the pivotal role of AI-powered Interactive Voice Response (IVR) systems and co-managed Customer Experience (CX) platforms in this reshaping. Key findings indicate a clear shift in customer preferences towards immediate, personalized, and seamless support, with a strong inclination for self-service options and natural language interactions. The limitations of traditional touch-tone IVR systems are becoming increasingly apparent, paving the way for the adoption of AI-driven solutions that offer enhanced capabilities such as intent-based routing, contextual handoffs, and proactive issue resolution. Co-managed CX platforms are emerging as a strategic approach, providing enterprises with a collaborative model to leverage specialized expertise and optimize their customer experience delivery. This report further analyzes the economic implications of this modernization, highlighting the shift from CAPEX-heavy models to more agile OPEX-based approaches, and explores the transformative impact of these technologies on key contact center metrics across diverse industries. Ultimately, the report provides strategic recommendations for enterprises seeking to modernize their contact center infrastructure to meet the demands of the future.

II. Introduction: Reimagining Enterprise Customer Engagement

The contact center stands as a critical nexus for enterprises to interact with their customers, directly influencing satisfaction, loyalty, and overall brand perception. In an era defined by digital interactions and heightened customer expectations, traditional contact center infrastructures are facing unprecedented challenges in delivering the desired levels of service. The complexity of customer interactions has grown exponentially, demanding sophisticated infrastructure capable of handling multi-channel communications, providing personalized experiences, and resolving issues efficiently. Recognizing these evolving needs, the emergence of artificial intelligence (AI) and collaborative management models has become a significant driving force in the transformation of contact center operations. AI-powered IVR systems and co-managed CX platforms represent key innovations that offer promising solutions for enterprises seeking to enhance their customer engagement strategies and optimize their operational performance.

Several factors are fueling this transformation. Firstly, **rising customer expectations** are compelling businesses to rethink their approach to customer service. Customers in 2025 anticipate immediate support, personalized service tailored to their individual needs and history, and seamless experiences across all interaction channels [1]. Their patience for outdated systems and cumbersome processes is dwindling, necessitating a move towards more intuitive and technologically advanced solutions. Secondly, there is a persistent **need for operational efficiency**. Enterprises are constantly under pressure to optimize their operational costs, improve agent productivity, and ensure efficient resource allocation. Modernizing contact center infrastructure through automation and intelligent systems offers a pathway to achieve significant operational savings and enhance overall efficiency [4]. Finally, **technological advancements** in artificial intelligence, natural language understanding (NLU), cloud computing, and omnichannel communication are providing the building blocks for more sophisticated and effective contact center solutions [1]. These advancements are enabling the development of intelligent systems that can understand customer intent, automate routine tasks, and provide human agents with the tools they need to deliver exceptional service.

This report aims to provide a comprehensive analysis of the evolving contact center landscape, with a specific focus on the transformative potential of AI-powered IVR systems and co-managed CX platforms. The objectives include examining the changing expectations of enterprise customers, identifying recent market trends in contact center technology adoption, analyzing the capabilities and limitations of

traditional IVR systems, exploring the benefits and functionalities of AI-driven IVR, investigating the concept and advantages of co-managed CX platforms, reviewing the current landscape of technology vendors, assessing the economic implications of infrastructure modernization, and illustrating the impact of these technologies on key contact center performance metrics across various industries. The scope of this report encompasses a detailed examination of these aspects, providing insights for Chief Information Officers (CIOs), VPs of Customer Service, and Senior IT Managers seeking to understand the strategic and economic implications of modernizing their contact center infrastructure.

III. The Voice of the Customer in 2025

The expectations of enterprise customers regarding contact center interactions are undergoing a significant evolution as we approach 2025. Several key themes are emerging that highlight the changing demands and preferences of today's consumers.

Customers in 2025 place a high premium on **speed and efficiency**. They expect immediate support and swift resolution to their inquiries [2]. Solutions such as intelligent call routing, which directs callers to the most appropriate resource based on their needs, and seamless integration with live chat functionalities are becoming essential to meet these expectations. The digital age has instilled in customers a desire for instant gratification, and prolonged wait times or slow response rates can lead to frustration and dissatisfaction, ultimately impacting their perception of the brand and their loyalty [2].

Furthermore, **personalized service** has transitioned from a desirable feature to a fundamental expectation. Customers want businesses to recognize them, remember their past interactions, and tailor their service accordingly [2]. This necessitates the integration of communication tools with Customer Relationship Management (CRM) systems, enabling agents to access customer information instantly and deliver experiences that feel relevant and valued. Generic, one-size-fits-all interactions are no longer sufficient; customers expect businesses to understand their individual needs and preferences [3].

The concept of **proactive support** is also gaining prominence. Customers increasingly value businesses that anticipate their needs and offer solutions before problems even arise [2]. By leveraging tools like call recording and data analytics, companies can identify potential issues and proactively reach out to customers with relevant information or assistance. This demonstrates a commitment to customer success and can significantly enhance the overall customer experience by preventing negative situations from occurring in the first place [2].

Beyond direct interaction with agents, customers in 2025 show a strong preference for **self-service options**. Many prefer to resolve their issues independently, especially for simple tasks, highlighting the importance of providing robust and user-friendly self-service tools such as AI-driven chatbots and Interactive Voice Response (IVR) systems [2]. Research indicates that a significant majority of customers attempt to find solutions on their own before contacting a live representative [5]. This preference stems from the convenience, accessibility, and time-saving benefits that self-service options

offer [5]. Therefore, investing in well-designed and effective automated solutions is crucial for meeting customer expectations and optimizing contact center operations. While IVR systems can be highly effective in providing self-service and reducing operational costs, their success hinges on their usability. The menus must be intuitive, and the navigation must be simple to avoid frustrating callers [5].

In terms of interaction methods, customers are increasingly favoring **natural language** when engaging with automated systems like IVR. They find the experience of navigating through complex, rigid menu options by pressing numbers to be frustrating [3]. A significant percentage of customers express a desire to use natural language IVR systems, indicating a clear preference for more human-like and conversational interfaces [8]. This shift in preference reflects the growing familiarity with virtual assistants that understand and respond to natural speech. In contrast, traditional touch-tone IVR systems are perceived negatively by a considerable portion of the contact center industry, suggesting a growing intolerance for systems that lack conversational capabilities and are difficult to navigate [14].

Finally, customers in 2025 expect **seamless omnichannel experiences**. They utilize multiple communication channels – including voice, email, live chat, social media, and mobile apps – and demand a unified and consistent experience across all of them [1]. The ability to switch between channels without disruption and with the context of their interaction being maintained is paramount. By 2025, delivering a truly seamless omnichannel customer experience will no longer be a luxury but a fundamental expectation [1]. Organizations must prioritize aligning their multichannel support systems to ensure that agents have access to a complete history of customer interactions and can follow customers as they move through different stages of their service journey [1]. Siloed communication channels will no longer be acceptable; integration and context preservation across all touchpoints are crucial for meeting the evolving expectations of today's customers.

IV. The AI-Powered IVR Revolution

The limitations of traditional touch-tone IVR systems, often criticized for their impersonal nature and frustrating menu structures [15], are driving a significant shift towards AI-powered IVR solutions. These advanced systems leverage artificial intelligence and natural language understanding to transform customer interactions and address the evolving expectations of modern consumers.

One of the key capabilities of AI-driven IVR is **intent-based routing**. Unlike traditional IVR systems that rely on customers navigating through a series of pre-defined menus, AI-powered IVRs can analyze the natural language input from the caller to understand the purpose of their call [3]. By accurately identifying the caller's intent, the system can intelligently route the call to the most appropriate agent or self-service option without requiring the customer to navigate complex menus. This capability significantly reduces misrouted calls, which can decrease by as much as 35%, and improves first-call resolution rates [16]. The ability of AI to understand the underlying need of the customer, even if they don't use the precise terminology in the IVR menu, leads to a more efficient and satisfactory experience, resulting in a 45% reduction in the average cost per call [16].

Another crucial functionality is **contextual handoffs**. When a customer's issue requires escalation to a human agent, AI-powered IVR systems can retain the conversation history and context from the automated interaction [3]. This ensures a seamless transition, preventing the customer from having to repeat the information they have already provided to the IVR system. Features like AI Agent Transfer Context Summaries facilitate this process, providing the human agent with a concise overview of the interaction, leading to improved efficiency and customer satisfaction [20]. Eliminating the need for customers to reiterate their issues multiple times significantly enhances their experience and demonstrates that the business values their time.

AI-driven IVR systems also offer the capability of **proactive issue resolution**. By analyzing customer data, past interactions, and even real-time information, AI can identify patterns and predict potential issues [2]. This allows the system to proactively offer solutions or information to the customer before they even realize there is a problem. For instance, an AI could detect a potential service outage and automatically inform affected customers with troubleshooting steps [23]. This proactive approach not only improves the customer experience by preventing negative situations but also reduces contact volumes and fosters trust and loyalty.

Furthermore, AI-powered IVR can integrate with **agent assist tools**. These tools

provide real-time guidance and support to human agents during their interactions with customers [3]. By analyzing the conversation in real-time, agent assist tools can offer suggested responses, provide access to relevant knowledge base articles, and even offer real-time coaching tips to the agent. This empowers agents to handle complex issues more efficiently, provide accurate and consistent information, and ultimately deliver a better customer experience. AI Agent Assist can also automate post-call work, such as summarizing the interaction, further enhancing agent productivity [30].

The benefits of AI-powered IVR extend beyond these core capabilities. They offer an **improved customer experience** through personalized and natural language interactions, making the experience more satisfying and less frustrating for customers [33]. Conversational AI can improve the overall customer experience by as much as 20% [33]. These systems also lead to **reduced wait times** by efficiently routing calls and handling common inquiries automatically, ensuring customers get the assistance they need quickly [33]. Conversational IVR systems can reduce call handling times by up to 30% [33]. Moreover, AI-powered IVR results in **increased efficiency** by automating routine tasks and providing agents with better tools, leading to higher agent productivity [33]. This can increase agent productivity by up to 15% [33]. The automation capabilities also translate to significant **cost savings** by reducing the need for human intervention and improving overall operational efficiency [6]. Businesses utilizing AI-powered IVR report savings on operational costs ranging from 20% to 30% [6]. Additionally, these systems allow for **improved data collection** on customer inquiries, preferences, and pain points, providing valuable insights for business improvement [33]. AI-powered IVR also offers **scalability** to handle large volumes of calls without compromising service quality and provides **24/7 availability**, ensuring customers can access support and information at any time [33].

At the heart of AI-powered IVR lies **Natural Language Understanding (NLU)**. NLU is a subfield of AI that focuses on enabling machines to understand human language as it is spoken or written [38]. It goes beyond simply recognizing words to interpret their meaning and the intent behind them [38]. NLU enables IVR systems to understand natural language requests, allowing callers to state their needs in their own words rather than navigating rigid menus [38]. It can analyze syntax, semantics, and context to generate an understanding of the speaker's intended meaning [38]. This technology can even decipher bad grammar, mispronounced words, and distinguish between similar-sounding words [40]. Ultimately, NLU is the foundational technology that allows AI-powered IVR to move beyond basic commands and engage in more natural, intuitive, and effective conversations with customers.

V. Co-Managed CX Platforms: A Collaborative Approach

In the evolving landscape of customer experience, enterprises are exploring various models to optimize their contact center operations and deliver exceptional customer service. Among these models, **co-managed CX platforms** are gaining traction as a strategic approach that offers a collaborative framework between the enterprise and a specialized provider.

A co-managed CX platform can be defined as a partnership where the enterprise and a third-party vendor share the responsibility for managing the technology and operations of the customer experience delivery. This model distinguishes itself from traditional managed service providers (MSPs) and platform-only vendors. Traditional MSPs typically assume full responsibility for the contact center, handling everything from infrastructure to agent management. Conversely, platform-only vendors provide the technological tools, but the enterprise is solely responsible for their implementation, management, and operationalization. Co-managed platforms offer a hybrid approach, allowing enterprises to retain strategic control over their CX initiatives while leveraging the specialized expertise and resources of the provider for specific functions [3].

This collaborative model offers several potential benefits. Firstly, it provides **shared control**. Enterprises maintain oversight of their core CX strategies, branding, and customer interaction policies, ensuring alignment with their overall business objectives. Simultaneously, they can rely on the co-managed partner to handle the complexities of the underlying technology, platform management, and potentially specific operational tasks that require specialized skills [3]. This balance of control allows enterprises to focus on their core competencies while benefiting from external expertise.

Secondly, co-managed platforms can lead to **operational efficiency**. Providers specializing in CX technology often bring a wealth of experience, industry best practices, and advanced technologies that can optimize contact center operations [1]. By leveraging their expertise, enterprises can streamline workflows, improve agent productivity, and enhance the overall efficiency of their customer service delivery. This can result in significant improvements compared to managing all aspects of the contact center in-house.

Cost management is another significant advantage of co-managed CX platforms. These platforms typically follow an operational expenditure (OPEX) model with

subscription-based pricing, which can result in lower upfront costs compared to the substantial capital expenditure (CAPEX) often required for traditional on-premise infrastructure [3]. Additionally, the shared responsibilities and optimized operations facilitated by the co-managed partner can contribute to overall cost optimization and more predictable budgeting.

Furthermore, co-managed platforms often leverage cloud infrastructure, providing inherent **flexibility and scalability** [3]. This allows enterprises to easily adapt to fluctuating call volumes, seasonal demands, and business growth without the need for significant infrastructure upgrades or the risk of over-provisioning. The ability to quickly scale resources up or down as needed ensures that the contact center can remain agile and responsive to changing market conditions and customer needs.

Finally, co-managed platforms provide enterprises with **access to expertise**. By partnering with a specialized provider, businesses can tap into a team of experts with in-depth knowledge and skills in areas such as contact center technology, AI integration, data analytics, and CX best practices. This access to specialized knowledge can be particularly valuable for enterprises that may lack the in-house expertise to effectively manage and optimize complex CX technologies, accelerating the adoption of advanced solutions and ensuring optimal platform performance.

VI. Navigating the Vendor Landscape

A diverse range of vendors populates the contact center technology landscape, each with their own strategic directions and approaches to innovation. Several key players are actively shaping the future of customer engagement by adopting AI and evolving service models.

AWS Connect is a cloud-native contact center service that offers robust artificial intelligence capabilities through its integration with other Amazon AI services, such as Amazon Lex for building conversational interfaces in IVR systems [42]. With native access to AWS Bedrock, and the wide range of models that it supports, Connect offers the broadest range of AI options of any CX solution we've reviewed.

Cisco and Webex are strategically focused on integrating artificial intelligence into their contact center solutions to enhance agent performance, automate tasks, and improve overall customer experiences [20]. They offer features like AI Agent Transfer Context Summaries, designed to facilitate seamless handoffs between AI agents or IVR systems and human agents, ensuring customers do not have to repeat themselves [21].

Five9 provides an Intelligent Cloud Contact Center platform that incorporates AI-powered agent assist capabilities. These tools offer real-time guidance to agents, automate after-call work such as call summarization, and aim to boost agent productivity while improving customer satisfaction [30].

NICE offers the CXone platform, a comprehensive solution that integrates AI across various aspects of customer experience. This includes AI-powered agent guidance, analytics for understanding customer sentiment, and potentially flexible service models that could align with a co-managed approach [29].

Genesys provides the Genesys Cloud CX platform, which is known for its extensive feature set and a growing emphasis on the adoption of AI technologies. Their AI capabilities focus on enhancing self-service options through conversational AI and empowering agents with intelligent tools to improve customer interactions [33].

Twilio provides a highly flexible platform that allows businesses to build customized contact center solutions using their APIs. While not offering a pre-built co-managed solution, their platform's flexibility enables integration with various AI services and the

potential for customized management models [3].

Google CCAI (Contact Center AI) focuses on delivering advanced conversational AI capabilities that can be seamlessly integrated into existing contact center infrastructure. Their offerings include AI-powered virtual agents and agent assist tools designed to enhance customer self-service and agent productivity [3].

Avaya is in the process of evolving its contact center platform with a focus on integrating AI to improve customer and employee experiences. They are also exploring flexible service models, which could include options that align with a co-managed approach [47].

Zoom Contact Center, while a more recent entrant, is increasingly incorporating AI features into its platform, such as sentiment analysis during calls and proactive issue resolution capabilities, aiming to enhance both agent and customer experiences [23].

The overarching strategic direction for the majority of these vendors is a strong emphasis on **AI adoption**. They are heavily investing in embedding AI across their platforms to enhance self-service capabilities, improve agent productivity, personalize customer interactions, and derive deeper insights from customer data [1]. Key areas of AI integration include the development of sophisticated conversational AI for more natural and effective IVR interactions, the implementation of AI-powered agent assist tools that provide real-time guidance and support, and the utilization of AI analytics to understand customer sentiment, identify emerging trends, and pinpoint areas for service improvement.

While the term "**co-managed**" might not be explicitly used by all vendors, the general trend towards cloud-based Contact Center as a Service (CCaaS) offerings inherently supports more flexible and collaborative management approaches. Enterprises often have the ability to choose different levels of service and support from these vendors, ranging from basic platform access to more comprehensive managed services that involve shared responsibilities for platform management and optimization. The increasing complexity of AI technologies, particularly in areas like natural language processing and machine learning, is likely driving a greater need for closer collaboration between enterprises and vendors to ensure optimal platform performance and achieve desired business outcomes.

VII. The Economic Imperative for Modernization

Modernizing contact center infrastructure carries significant economic implications for enterprises, particularly when comparing traditional capital expenditure (CAPEX)

models with the operational expenditure (OPEX)-based co-managed approach.

Traditional contact center infrastructure typically involves a substantial **capital expenditure (CAPEX)**. This includes significant upfront investments in hardware, software licenses, installation services, and the ongoing costs associated with maintenance and upgrades [3]. These large initial outlays can strain budgets and may require complex depreciation schedules.

In contrast, co-managed CX platforms, especially those delivered through the cloud, generally follow an **operational expenditure (OPEX)** model [3]. This means that instead of a large upfront investment, enterprises pay a recurring subscription fee for the use of the platform and associated services. This shift from CAPEX to OPEX offers several advantages from a budgeting perspective. It allows for more **flexible budgeting** as costs are typically tied to usage metrics, such as the number of agents or the volume of interactions. This makes it easier to scale costs in line with business needs. Furthermore, the reduced upfront financial commitment frees up capital that can be strategically allocated to other business priorities or revenue-generating activities. Co-managed platforms can also lead to potential **cost savings** in the long run through optimized resource utilization, as the provider often handles infrastructure maintenance, updates, and security, reducing the need for extensive in-house IT resources [4].

The adoption of co-managed CX platforms, particularly cloud-based solutions, can significantly enhance an enterprise's **agility**. These platforms offer the ability to rapidly scale resources up or down in response to fluctuating customer demand or seasonal peaks, providing a level of flexibility that is often difficult to achieve with traditional on-premise systems [3]. The deployment of new features and functionalities is also typically faster with cloud-based platforms compared to the often lengthy upgrade cycles associated with traditional infrastructure.

Finally, modernizing contact center infrastructure with a co-managed approach can have a notable impact on **IT staffing**. By offloading the day-to-day management and maintenance of the contact center infrastructure to the co-managed provider, enterprises can potentially **reduce the burden on their internal IT staff**. This allows IT teams to shift their focus from routine operational tasks to more strategic initiatives that directly contribute to business growth and innovation. However, it is important to note that while the operational workload may decrease, the adoption of co-managed platforms may necessitate the development of new skills within the internal IT team, such as vendor management, cloud service governance, and ensuring seamless

integration with other enterprise systems. The role of the IT department may evolve from hands-on infrastructure management to a more strategic oversight function, ensuring that the co-managed partnership aligns with the overall IT strategy and security policies of the organization.

VIII. Transforming Contact Center Performance: Metrics and Impact

The modernization of contact center infrastructure through AI-powered IVR and co-managed CX platforms has a profound impact on key performance metrics, leading to significant improvements in efficiency, customer satisfaction, and overall business outcomes.

One of the most notable impacts is on **Mean Time to Resolution (MTTR)**. AI-powered IVR systems can resolve a substantial portion of common customer inquiries through self-service, thereby reducing the number of interactions that require agent intervention and consequently lowering the overall MTTR [3]. Furthermore, agent assist tools, by providing agents with real-time guidance and access to comprehensive knowledge bases, empower them to diagnose and resolve complex issues more quickly, further contributing to a reduction in MTTR [29]. Intelligent call routing also plays a crucial role by ensuring that customers are connected with the most appropriate agent or self-service option from the outset, minimizing the need for transfers and delays that typically prolong resolution times [16].

Average Handle Time (AHT) is another critical metric significantly affected by these modernizations. AI-powered IVR systems can automate various pre-call processes, such as authentication and information gathering, and offer self-service options for routine tasks, thus reducing the volume of calls that human agents need to handle and lowering the overall AHT [3]. Agent assist tools further contribute to AHT reduction by providing agents with quick access to relevant information and suggested responses, streamlining their interactions with customers [29]. Additionally, the automation of after-call work, such as generating call summaries, through AI can free up agent time and further decrease AHT [7].

The implementation of AI-powered IVR and co-managed CX platforms has a direct and positive influence on **Customer Satisfaction (CSAT)**. Personalized and natural language interactions facilitated by AI-powered IVR create a more engaging and satisfactory experience for customers, leading to higher CSAT scores [3]. Faster resolution times, reduced wait times, and seamless transitions between automated and human agents all contribute to a more positive customer journey and ultimately higher satisfaction levels [3]. Moreover, the proactive support and contextual awareness provided by AI demonstrate a genuine focus on customer needs, further enhancing satisfaction [2].

Similarly, the enhanced customer experiences resulting from modernized contact

center infrastructure can lead to a significant improvement in **Net Promoter Score (NPS)**. Customers who experience faster resolutions, personalized interactions, and seamless service are more likely to be loyal to the brand and recommend it to others, driving up the NPS [3]. Furthermore, generative AI can analyze customer feedback collected through various channels, including NPS surveys, to identify key sentiments and areas for improvement, providing actionable insights that can further enhance customer loyalty and boost NPS [51].

The impact of these modernizations can be observed across various industries. In **retail**, AI-powered IVR can streamline product inquiries, order tracking, and returns processes, leading to faster service and improved customer satisfaction. Personalized product recommendations and proactive communication, facilitated by AI, can further enhance both CSAT and NPS [34]. In the **healthcare** sector, AI IVR can automate appointment scheduling, prescription refills, and provide essential information to patients, reducing call volumes and improving the overall patient experience. Efficient call routing and faster access to information can positively impact CSAT and potentially increase patient loyalty (NPS) [34]. For example, a leading health plan reported a 20% reduction in AHT by leveraging self-service and automation [61]. In the **logistics** industry, AI can optimize call routing for delivery status inquiries, provide real-time updates, and automate confirmation processes, leading to improved efficiency and customer satisfaction. Proactive notifications about delivery schedules and faster resolution of any delivery-related issues can enhance both CSAT and NPS [34]. One logistics company achieved a remarkable 400% surge in first-contact resolution rates by implementing smart IVR systems [66].

IX. Conclusion and Strategic Recommendations

The analysis presented in this report underscores a fundamental shift in the landscape of enterprise customer engagement. Customers in 2025 harbor clear expectations for their interactions with businesses, prioritizing speed, personalization, seamlessness, and the convenience of self-service options, often preferring natural language communication. Traditional touch-tone IVR systems are increasingly falling short of meeting these demands, creating a compelling need for modernization.

AI-powered IVR systems emerge as a transformative technology, offering a suite of advanced capabilities that address the limitations of their predecessors. Features such as intent-based routing, contextual handoffs, proactive issue resolution, and intelligent agent assist tools not only enhance the customer experience but also drive significant operational efficiencies. Co-managed CX platforms present a strategic and economically sound approach to this modernization, providing enterprises with a flexible, collaborative model to leverage specialized expertise and optimize their customer experience delivery without the burden of heavy upfront capital investments.

The economic imperative for modernizing contact center infrastructure is evident in the shift from traditional CAPEX-heavy models to the more agile and predictable OPEX-based co-managed approach. This transition offers benefits in terms of budgeting flexibility, enhanced agility to scale operations, and the potential to reduce the burden on internal IT staffing. Moreover, the impact of these modern technologies on key contact center performance metrics is substantial. Improvements in MTTR, AHT, CSAT, and NPS demonstrate the tangible value of investing in AI-powered IVR and co-managed CX platforms across diverse industries, including retail, healthcare, and logistics.

Based on these insights, the following strategic recommendations are offered for enterprises seeking to reimagine their contact center infrastructure:

- **Prioritize Customer Experience:** Ensure that all modernization efforts are centered around the goal of enhancing the overall customer journey and consistently exceeding customer expectations.
- **Embrace AI-Powered IVR:** Recognize the transformative potential of AI and NLU-powered IVR systems and strategically invest in their implementation to meet the evolving customer preference for natural language interactions and efficient self-service.
- **Evaluate Co-Managed CX Platforms:** Carefully consider the adoption of co-managed platforms as a means to achieve a flexible and cost-effective

modernization, gaining access to specialized expertise and optimizing the management of complex CX technologies.

- **Focus on Omnichannel Integration:** Develop and implement a comprehensive omnichannel strategy that provides a truly consistent and seamless experience for customers across all interaction channels, ensuring context is maintained throughout their journey.
- **Leverage Data and Analytics:** Harness the power of data and analytics generated by modern contact center systems to gain deep insights into customer behavior, identify key areas for improvement, and personalize interactions to enhance satisfaction and loyalty.
- **Continuously Optimize and Adapt:** Recognize that the landscape of customer expectations and technology is constantly evolving. Establish processes for ongoing monitoring, testing, and optimization of the contact center infrastructure to ensure its continued effectiveness and alignment with future needs.

By embracing these strategic recommendations, enterprises can effectively reimagine their contact center infrastructure, transforming it from a transactional cost center into a strategic asset that drives customer engagement, loyalty, and ultimately, business success.

Feature	Traditional IVR	AI-Powered IVR
User Interaction	Limited to preset menus with touch-tone input	Natural, flexible interaction through conversational AI and NLP
Voice Command Recognition	Basic, often unreliable	Advanced, accurate voice command and natural speech recognition
Problem Resolution	Slower, often requiring live agents to intervene	Faster, more efficient self-service solutions
Scalability	Struggles with high volumes of calls	Easily scalable, able to handle large call volumes without issue
Cost Efficiency	Higher costs due to frequent human intervention	Lower operational costs through automation and

		AI-driven workflows
Customer Satisfaction	Lower due to limited options and frustrating menus	Higher with quicker responses and personalized experiences
Personalization	Limited or non-existent	Higher with personalized experiences based on data and past interactions
Contextual Awareness	Lacks the ability to remember previous interactions	Remembers previous customer interactions and tailors responses accordingly

Metric	**Impact of AI-Powered IVR**	**Impact of Co-Managed CX Platforms**
MTTR	Reduction through efficient self-service for routine issues and by providing agents with better information for complex issues.	Potential reduction through optimized operations, access to specialized expertise, and efficient platform management.
AHT	Reduction through automation of routine tasks, providing self-service options, and equipping agents with quick access to information and suggested responses.	Potential reduction through efficient platform management, streamlined workflows, and the implementation of best practices.
CSAT	Increase through personalized and natural language interactions, faster resolution times, reduced wait times, and proactive support.	Potential increase through improved agent performance, a focus on customer experience strategy, and access to advanced technologies.
NPS	Increase through improved customer experiences leading to higher loyalty and likelihood of recommendations, also aided by AI analysis of customer feedback.	Potential increase through enhanced customer loyalty driven by better experiences, consistent service delivery, and a strategic focus on customer satisfaction.

Vendor	Strategic Direction/Focus	AI Adoption	Co-Managed Model Support
AWS Connect	Cloud-native contact center	Robust AI capabilities through Amazon Lex and other AI services	Co-Managed through Aegis CX
Cisco/Webex	AI-driven CX, unified communications	AI for agent assistance, automation, contextual handoffs	Possible through Aegix CX
Five9	Intelligent Cloud Contact Center	AI Agent Assist for real-time guidance, after-call work automation	Likely through their cloud platform and partner ecosystem.
NICE	Cloud CX platform, workforce engagement	AI for agent guidance, analytics, automation	Likely through their cloud platform and various service level options.
Genesys	Experience as a Service, cloud-first	Conversational AI for self-service, AI-powered agent tools	Likely through their cloud platform and a strong partner ecosystem for managed services.
Twilio	Programmable communication platform	Integrates with various AI services through APIs	Enables customized management models; not a pre-built co-managed solution.
Avaya	Evolving platform with focus on cloud and AI	Integrating AI across its platform	Exploring flexible service models, potentially including co-managed options.
Zoom Contact Center	Unified communications with	Incorporating AI for sentiment analysis	Likely through their cloud platform and

	integrated contact center	and proactive issue resolution	potential partnerships.

Works cited

1. Top 2025 Trends in Customer Service - Computer Talk, accessed March 29, 2025, https://computer-talk.com/blogs/top-2025-trends-in-customer-service
2. 7 Top Customer Expectations for 2025 - Blog | NFON UK, accessed March 29, 2025, https://blog.nfon.com/gb/7-top-customer-expectations-for-2025
3. Future of IVR in 2025: Key Trends Shaping Smart IVR Development, accessed March 29, 2025, https://www.asteriskservice.com/blog/trends-in-ivr-development-worth-adopting/
4. Ivr Menu Design in 2025 - Callin.io, accessed March 29, 2025, https://callin.io/ivr-menu-design/
5. Top 2025 Self-Service Statistics & its Importance - Document360, accessed March 29, 2025, https://document360.com/blog/self-service-statistics/
6. Voice Recognition IVR: Transforming Call Centers in Kansas City - Towner Communications, accessed March 29, 2025, https://townerkc.com/voice-recognition-ivr-call-center/
7. Contact Center AI [Benefits + How to Implement] | Sprinklr, accessed March 29, 2025, https://www.sprinklr.com/cxm/contact-center-ai/
8. The Future of IVR Systems: Trends and Technologies Shaping Customer Experience, accessed March 29, 2025, https://reverieinc.com/blog/future-of-ivr/
9. AI in 2025, The Impact on Call Centers and Why You Need It - cxperts, accessed March 29, 2025, https://cxperts.us/2025/01/ai-in-2025-the-impact-on-call-centers-and-why-you-need-it/
10. 2025 Call Centre Trends: Data Driven Insights to Propel Your Business Forward, accessed March 29, 2025, https://primodialler.com/blog-detail/2025-Call-Centre-Trends:-Data-Driven-Insights-to-Propel-Your-Business-Forward
11. Call center technology trends & best practices for 2025 | CallMiner, accessed March 29, 2025, https://callminer.com/blog/call-center-technology-trends-and-best-practices-for-2025
12. Cloud Trends 2025: Unveiling the Future of Cloud Technology - Wipro, accessed March 29, 2025, https://www.wipro.com/content/dam/nexus/en/lab45/images/cloud-trends-2025-unveiling-the-future-of-cloud-technology.pdf
13. Top-10 Contact Center Industry Trends for 2025 (+Infographic) - VoiceSpin, accessed March 29, 2025, https://www.voicespin.com/blog/top-contact-center-industry-trends/
14. IVR Systems: The Powerhouse of Modern Call Centers - Teneo.Ai, accessed March 29, 2025, https://www.teneo.ai/blog/ivr-systems-the-powerhouse-of-modern-call-centers
15. Role of IVR in Contact Center Solutions: Barriers & Solutions - eDAS, accessed March 29, 2025,

https://edas.tech/role-of-ivr-in-contact-center-solutions-barriers-solutions/
16. What is Intelligent Routing? - CSG, accessed March 29, 2025, https://www.csgi.com/insights/what-is-intelligent-routing/
17. What is intelligent call routing and how does it work? - Convai, accessed March 29, 2025, https://www.convai.com.au/blog/what-is-intelligent-call-routing
18. Discover The Benefits of IVR Systems for Call Centers - CSG, accessed March 29, 2025, https://www.csgi.com/insights/ivr-systems-for-call-centers/
19. Unified Customer Service: Integrating IVR with Multiple Channels, accessed March 29, 2025, https://www.teneo.ai/blog/customer-service-ivr-omnichannel
20. Cisco Releases AI Assistant for Webex Contact Center and Webex Customer Experience Updates - Smart Customer Service, accessed March 29, 2025, https://www.smartcustomerservice.com/Articles/News-Briefs/Cisco-Releases-AI-Assistant-for-Webex-Contact-Center-and-Webex-Customer-Experience-Updates-167976.aspx
21. Delivering exceptional customer experiences with new AI-powered Webex innovations, accessed March 29, 2025, https://blog.webex.com/customer-experience/delivering-exceptional-customer-experiences-with-new-ai-powered-webex-innovations/
22. How Conversational AI Examples Improve IVR Systems - Tene, accessed March 29, 2025, https://www.teneo.ai/blog/conversational-ai-improve-ivr
23. How Agentic AI is Transforming Customer Service and Contact Centres | Acceleraate, accessed March 29, 2025, https://acceleraate.com/insights/how-agentic-ai-is-transforming-customer-service-and-contact-centres
24. How to Overcome IVR AI Challenges: Top 7 Solutions - Voiceoc, accessed March 29, 2025, https://www.voiceoc.com/blogs/ivr-ai-challenges
25. How to Use AI for Proactive Customer Issue Resolution in Call Centers - Insight7 - AI Tool For Interview Analysis & Market Research, accessed March 29, 2025, https://insight7.io/how-to-use-ai-for-proactive-customer-issue-resolution-in-call-centers-2/
26. From Static Menus to Conversations: Is the Future of IVR with AI ? - Aistra, accessed March 29, 2025, https://aistra.com/blog/from-static-menus-to-conversations-is-the-future-of-ivr-with-ai
27. Proactive service: Using AI to anticipate customer needs - Genesys, accessed March 29, 2025, https://www.genesys.com/blog/post/proactive-service-using-ai-to-anticipate-customer-needs
28. Customer Engagement Suite with Google AI, accessed March 29, 2025, https://cloud.google.com/solutions/customer-engagement-ai
29. What are AI Agent Assist Tools? - NICE, accessed March 29, 2025, https://www.nice.com/glossary/ai-agent-assist-tools
30. Five9 AI Agent Assist, accessed March 29, 2025, https://www.five9.com/products/capabilities/agent-assist
31. AI Agent Assist Software for Agents and Contact Centers - Exotel, accessed

March 29, 2025, https://exotel.com/blog/ai-agent-assist-software-for-agents-and-contact-centers/
32. AI Agent Assist Software to Improve Agent Productivity - Sprinklr, accessed March 29, 2025, https://www.sprinklr.com/products/customer-service/agent-assist/
33. 7 Key Benefits of IVR - Teneo.Ai, accessed March 29, 2025, https://www.teneo.ai/blog/7-key-benefits-of-ivr
34. AI-Powered IVR: How It's Shaping the Future of Customer Service Automation - TeleCMI, accessed March 29, 2025, https://www.telecmi.com/blog/how-ai-ivr-is-transforming-customer-service
35. The impact of conversational AI on IVR systems explained - Telnyx, accessed March 29, 2025, https://telnyx.com/resources/conversational-ai-ivr
36. 5 Top Benefits of IVR Technology - Collab, accessed March 29, 2025, https://collab.com/5-top-benefits-of-ivr-technology/
37. What is AI IVR? The Benefits of AI-Powered Call Handling - Talkative, accessed March 29, 2025, https://gettalkative.com/info/ai-ivr
38. Natural Language Understanding & Cognitive Contact Centers - Verbio Technologies, accessed March 29, 2025, https://www.verbio.com/nlu-and-cognitive-contact-center/
39. NLP and NLU – What Are They? (IVR Technologies Defined!) - babelforce, accessed March 29, 2025, https://www.babelforce.com/blog/inbound-call-center/nlp-and-nlu-whats-the-difference-ivr-technologies-defined/
40. Conversational AI 101: NLU and IVR for Beginners | SmartAction by Capacity, accessed March 29, 2025, https://smartaction.ai/blog/natural-language-understanding-interactive-voice-response-beginners/
41. What NLP, NLU, and NLG Mean, and How They Help With Running Your Contact Center, accessed March 29, 2025, https://www.observe.ai/blog/nlp-nlu-nlg-contact-centers
42. 17 Best Contact Center as a Service (CCaaS) in 2025 - Whatfix, accessed March 29, 2025, https://whatfix.com/blog/best-contact-center-as-a-service-ccaas/
43. 5 Customer Experience Trends for 2025 & Beyond - CX Today, accessed March 29, 2025, https://www.cxtoday.com/contact-center/5-customer-experience-trends-for-2025-beyond-nice/
44. Csat vs. nps: which provides better insights for service improvements? - NICE, accessed March 29, 2025, https://www.nice.com/info/csat-vs-nps-which-provides-better-insights-for-service-improvements
45. Conversational AI improves CX metrics for health plan - Cognizant, accessed March 29, 2025, https://www.cognizant.com/us/en/case-studies/conversational-ai-improves-cx-metrics-for-health-plan

46. Proving CX ROI: Linking customer experience to business value - Genesys, accessed March 29, 2025, https://www.genesys.com/blog/post/proving-cx-roi-linking-customer-experience-to-business-value
47. Modernizing the Contact Center | Metrigy Research | Avaya download, accessed March 29, 2025, https://www.avaya.com/en/registration/metrigy-report-modernizing-contact-center-reg/
48. Top Contact Center Trends to Watch in 2025 - CMSWire.com, accessed March 29, 2025, https://www.cmswire.com/contact-center/top-contact-center-trends-to-watch-this-year/
49. 10 contact center automation trends to look out for in 2025 - Webex Blog, accessed March 29, 2025, https://blog.webex.com/customer-experience/10-contact-center-automation-trends-to-look-out-for-in-2025/
50. Call Center IVR: Benefits, Use Cases & Best Practices - Exotel, accessed March 29, 2025, https://exotel.com/blog/call-center-ivr/
51. The role of generative AI in shaping customer experience KPIs ..., accessed March 29, 2025, https://www.talkdesk.com/blog/customer-experience-kpis/
52. 10 Ways to Improve CSAT, NPS, and Loyalty: Conquering CX KPIs for Repeat Business, accessed March 29, 2025, https://www.ibex.co/resources/blogs/10-ways-to-improve-cx-kpis-for-customer-retention/
53. 7 Customer Satisfaction Metrics to Measure for CX Improvements - Nextiva, accessed March 29, 2025, https://www.nextiva.com/blog/customer-satisfaction-metrics.html
54. NPS vs CES vs CSAT: Which Customer Experience Metric To Use? - CustomerGauge, accessed March 29, 2025, https://customergauge.com/blog/nps-csat-ces
55. CSAT vs NPS: Which Customer Satisfaction Metric Is Best? - Qualtrics, accessed March 29, 2025, https://www.qualtrics.com/experience-management/customer/csat-vs-nps/
56. The Death of NPS: How AI Can Transform Customer Feedback into Actionable Insights, accessed March 29, 2025, https://www.valuize.co/resources/article/the-death-of-nps-how-ai-can-transform-customer-feedback-into-actionable-insights/
57. Mastering Contact Center Performance: The Critical Metrics Every Leader Needs to Know (AHT, NPS, and CSAT) - SymTrain, accessed March 29, 2025, https://symtrain.ai/contact-center-performance-aht-nps-csat/
58. CSAT vs NPS: Key Differences and Which One to Use - GrowthDot, accessed March 29, 2025, https://growthdot.com/csat-vs-nps-surveys-right-metrics/
59. NPS, CSAT and CES - Customer Satisfaction Metrics to Track in 2025 - Retently, accessed March 29, 2025, https://www.retently.com/blog/customer-satisfaction-metrics/

60. The Impact of AI on Retail: Enhancing Retail Through Technology | ProfileTree, accessed March 29, 2025, https://profiletree.com/the-impact-of-ai-on-retail/
61. Visual IVR & AI: Game Changers for Healthcare Contact Centers, accessed March 29, 2025, https://www.firstsource.com/insights/blogs/visual-ivr-and-conversational-ai-game-changers-for-healthcare-contact-centers
62. healthsystemCIO: AI-Infused IVR with Extensive Integrations Has the Potential to Produce Smoother Patient Interactions - CTG, accessed March 29, 2025, https://www.ctg.com/news/ctg-news-healthsystemcio-ai-infused-ivr
63. From Patient Care to Medical Device Production: AI's Comprehensive Impact on Customer Experience in Healthcare, accessed March 29, 2025, https://www.oliverhcp.com/news-and-resources/packtalk/from-patient-care-to-medical-device-production-ais-comprehensive-impact-on-customer-experience-in-healthcare
64. Artificial intelligence in healthcare logistics – moderating role of industry pressure and organisational readiness | Request PDF - ResearchGate, accessed March 29, 2025, https://www.researchgate.net/publication/389953723_Artificial_intelligence_in_healthcare_logistics_-_moderating_role_of_industry_pressure_and_organisational_readiness
65. Case Studies: Successful Implementation of Self Customer Service Technologies - Teneo.Ai, accessed March 29, 2025, https://www.teneo.ai/blog/case-studies-self-customer-service-technologies
66. 6 Customer Experience Metrics (+ What is CX Metrics) - Ozonetel, accessed March 29, 2025, https://ozonetel.com/customer-experience-metric/
67. Customer Experience (CX) Design in Logistics and Transportation: Examples & Case Studies - Renascence, accessed March 29, 2025, https://www.renascence.io/journal/customer-experience-cx-design-in-logistics-and-transportation-examples-case-studies