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Future-Proofing Citizen Services: Technology Strategies for the Public Sector

Peter Carr
VP Consulting, Ecosystm

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Innovation is a driving force behind new approaches, often occurring at the point of adoption rather than technology development. As public sector organisations increasingly focus on improving citizen services through technology, it is important to adopt a strategic approach that considers innovation as a complex journey of systemic and cultural transformation. This strategic approach should guide the integration of technology into citizen services.

Here is a comprehensive look at what public sector organisations should consider when integrating technology into citizen services.

1. Immediate View: Foundational Technologies

The immediate view focuses on deploying technologies that are widely adopted and essential for current digital service provision. These foundational technologies serve as the backbone for enhancing citizen services.

Foundational Technologies

Web 2.0

Establishing a solid online presence is usually the first step, as it is the broadest channel for reaching customers. Web 2.0 refers to the current state of the internet, encompassing dynamic content and interactive websites.

Mobile Applications

Given that mobile usage has surpassed desktop, a mobile-responsive platform or a dedicated mobile app is crucial. Mobile apps provide a more specialised and immersive user experience by utilising device-specific features like GPS, document scanning, and push notifications.

2. Second-Generation Enablers: Emerging Technologies

As organisations establish foundational technologies, they should look towards second-generation enablers. Although less mature, these technologies offer emerging digital opportunities, and can significantly enhance service differentiation.
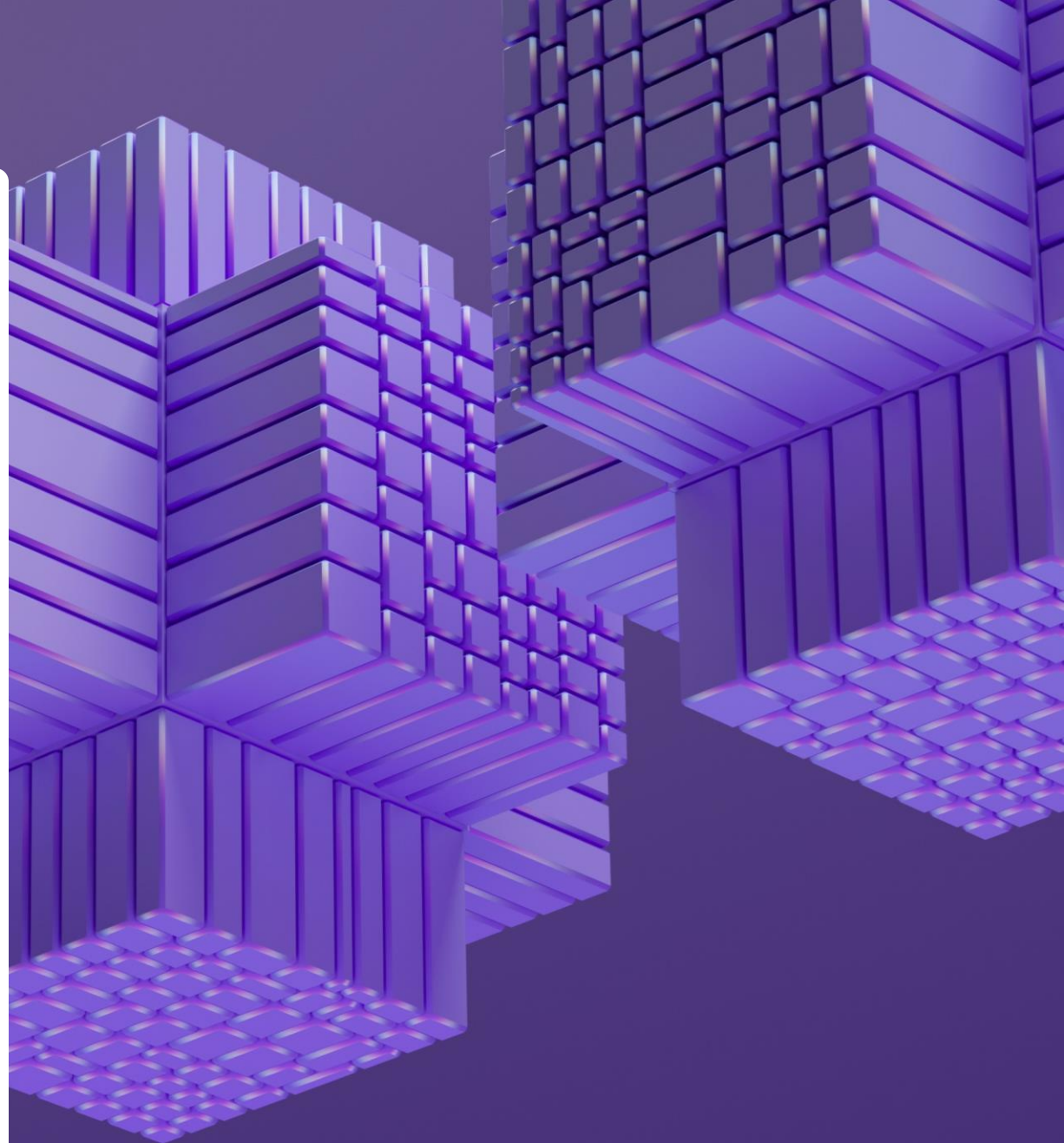
Emerging Technologies

> **Interactive Voice Response (IVR)** systems improve the efficiency and effectiveness of digital services by routing callers to self-service options and providing relevant information without human intervention. These systems operate outside typical government agency working hours, ensuring continuous accessibility. Additionally, IVRs generate valuable data for future Voice of the Customer programs, improving overall service quality and responsiveness.

> **Digital Wallets** facilitate transactions by expediting fund transfers and enhancing transparency through meticulous transaction records. They streamline administrative tasks, simplify transactions, and encourage service usage and adoption.

> **AI-driven Virtual Agents** or chatbots revolutionise customer interactions by providing 24/7 support. They offer prompt, efficient, and personalised services, enhancing customer satisfaction and trust. In resource-limited public sectors, virtual agents are cost-effective, optimising resource allocation and meeting growing service demands. Specialised virtual agents for specific sectors can further differentiate service providers.

3. Futuristic View: Ambitious Innovations

The futuristic view focuses on forward-looking technologies that address long-term roadblocks and offer transformative potential. These technologies are currently speculative but hold the promise of significantly reshaping the market.
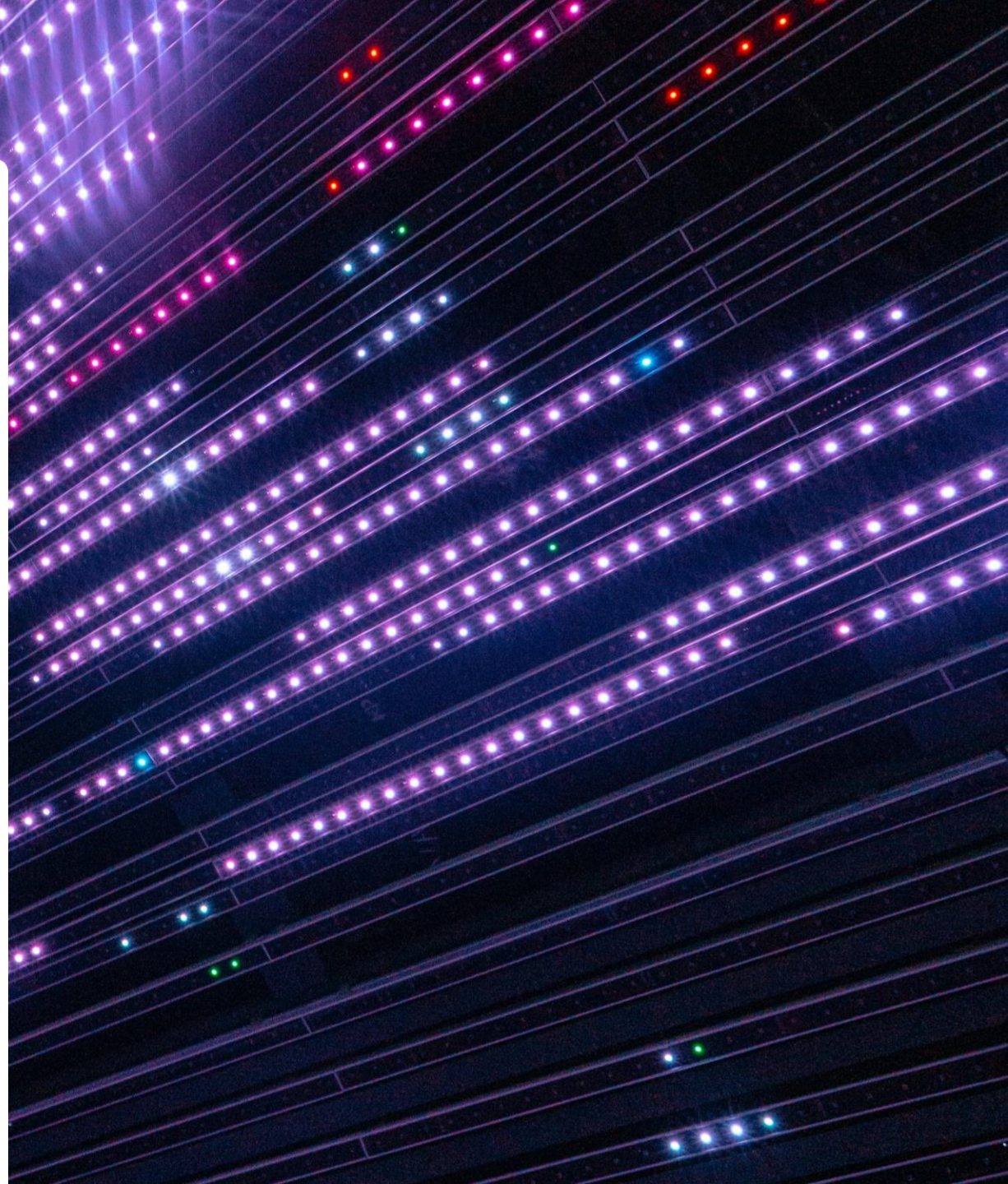
Innovations

Subscription Management models enable public sector information services to be accessed in highly personalised ways, thereby enhancing citizen engagement. This model supports regulatory oversight by providing common data insights and improves the management of services, ultimately benefiting the public by ensuring more responsive and tailored information delivery.

AI concierge leverages advanced technologies like Natural Language Processing, Computer Vision, and Speech Technologies to provide personalised and proactive customer service. They redefine customer management, ensuring a seamless and tailored experience.

Immersive reality technologies, such as augmented and virtual reality (AR/VR) create captivating customer experiences by allowing interactions in virtual environments. These technologies establish a shared virtual environment, helping customers to engage with businesses and each other in new and immersive ways. As an emerging customer management tool, immersive reality can transform the dynamics of customer-business relationships, adding substantial value to the service experience.

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info@ecosystm.io

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