



Virtual World Use Cases | From Strategy to Action

Taxonomy Deliverables coordinated by Louisa Barker

3 November 2025

Global Initiative on Virtual Worlds and AI – Objectives

01

Serve as the avenue for developing normative frameworks addressing principles, enablers and governance for applying metaverse solutions in cities.

02

Provide training and hosts events to disseminate knowledge, raise awareness and share best practices and solutions among cities worldwide.

03

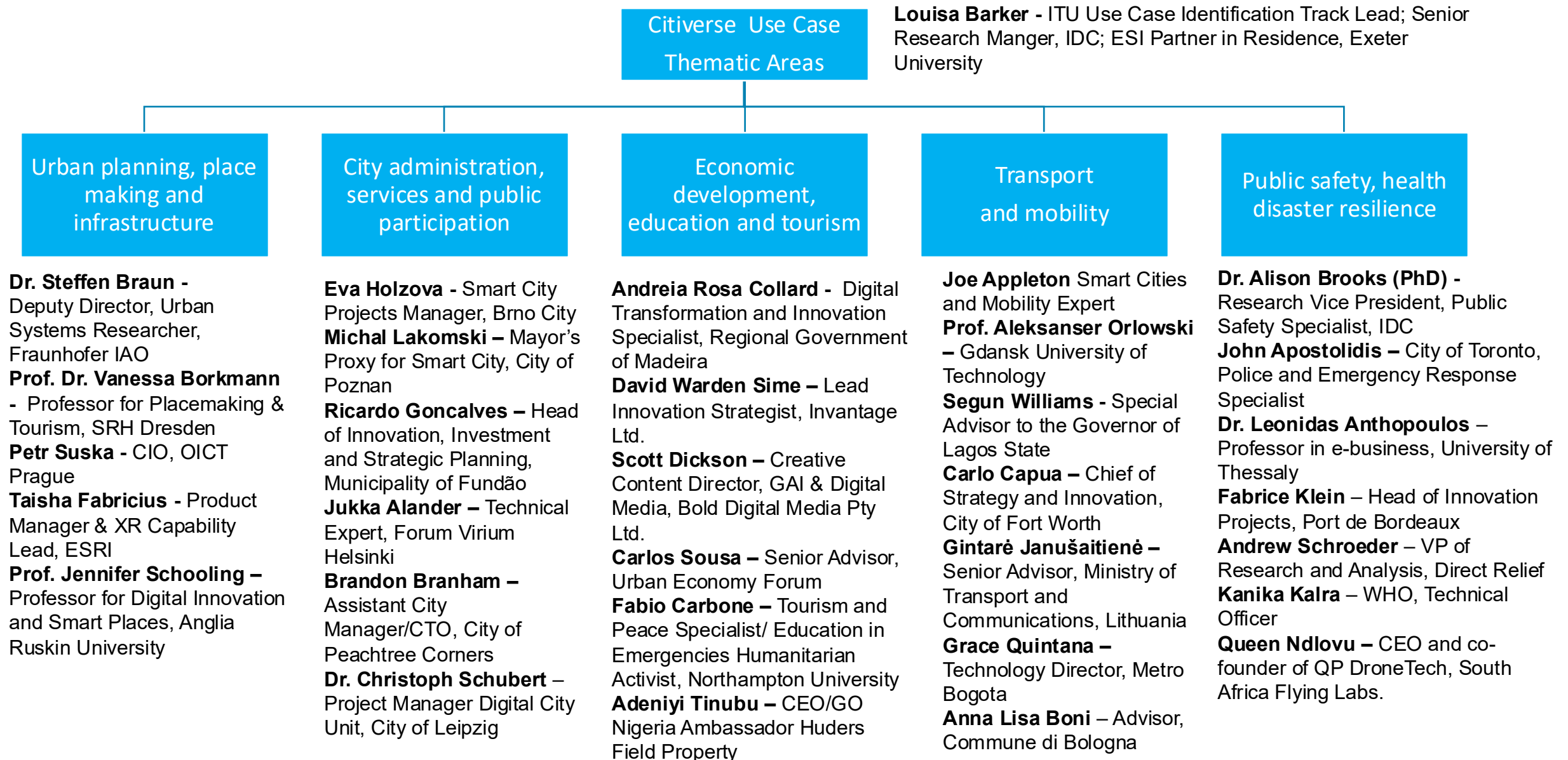
Deliver a sandbox environment to test, and experiment with metaverse scenarios in cities around the world.



Use Case Identification Track

The use-case identification track focuses on the collection and curation of **new use cases** pertaining to virtual worlds, including the adoption of digital technologies, such as **AI, VR, AR, digital twins and AI in cities**. The track brings together insights on the expected **opportunities, risks, and maturity horizons** associated with the use cases identified.

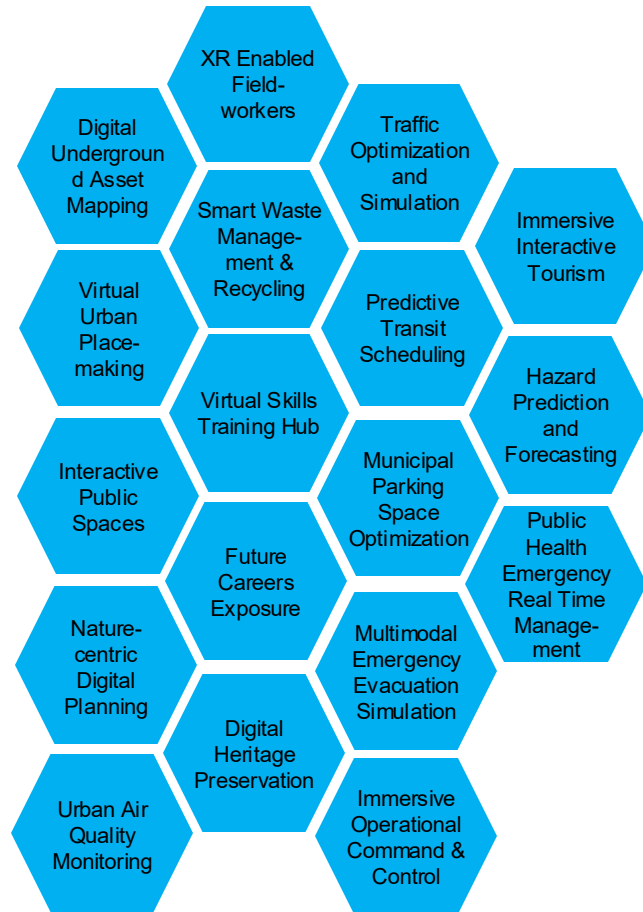
Use Case Identification Track Experts



Use Case Prioritisation

	Alignment with SDGS		To what extent does this use case contribute to one or more SDG targets?
	Scalability		How relevant is this use case for multiple cities and how easily can it be replicated and scaled?
	Impact		How impactful will the case study be for social, economic, and environmental outcomes?
	Feasibility		What are the long-term maintenance and resource requirements? What is the time to value?

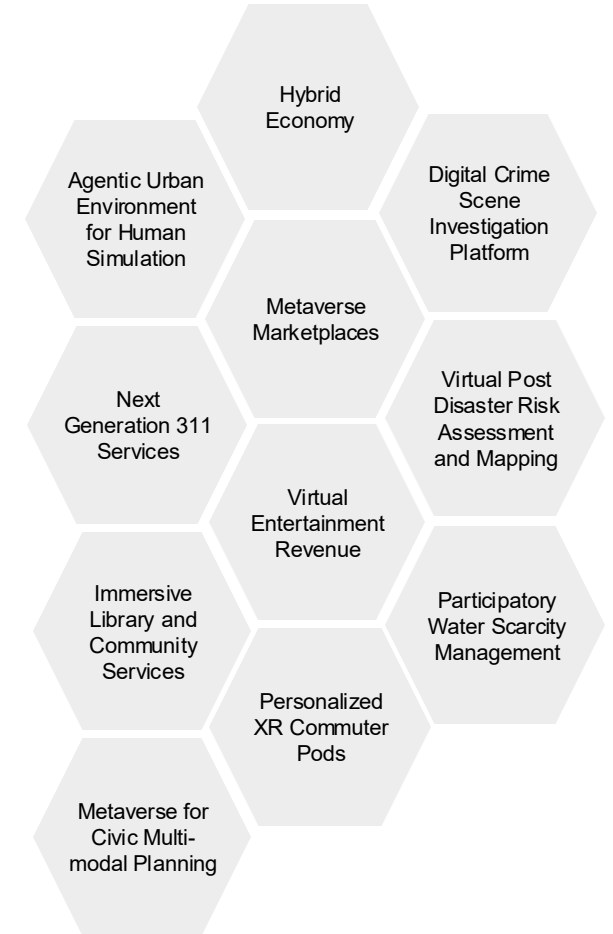
Citiverse Use Case Overview and Horizon Mapping



Horizon 1: Current Deployment



Horizon 2: Piloting



Horizon 3: Discovery

| Citiverse Use Case Taxonomy Overview

<https://www.itu.int/net/epub/TSB/2025-Citiverse-Use-Case-Taxonomy-Overview-Use-Case-Identification-Track/index.html#p=26>



QRCode

The Citiverse Use Case Taxonomy Overview was launched at the second UN Virtual Worlds Day on 12 June 2025 providing participants with an opportunity to explore the evolving landscape of Citiverse Use Cases and tangible examples of best practices from around the world.

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Citiverse Use Case Taxonomy: Global Insights and Implementation Pathways

The overarching framework

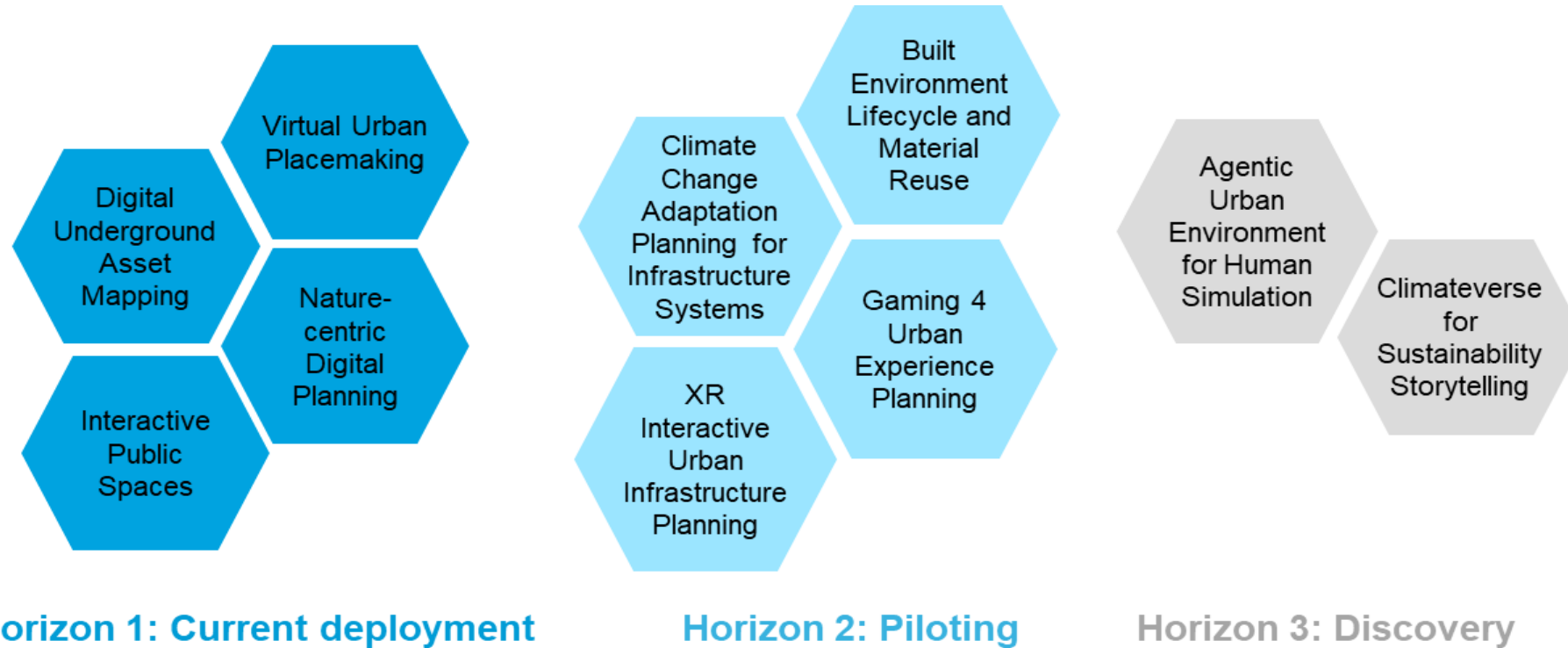
Presents sector-specific insights and detailed use cases in the areas of Urban Planning, Placemaking and Infrastructure; City Administration, Services and Public Participation; Economic Development, Education and Tourism; Transport and Mobility; and Public Safety, Health and Disaster Resilience. A comprehensive reference designed to inform policymakers, industry leaders, city officials, and other stakeholders on the **opportunities and pathways for Citiverse implementation**.

1st Citiverse Assembly

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1. Urban Planning, Placemaking and Infrastructure

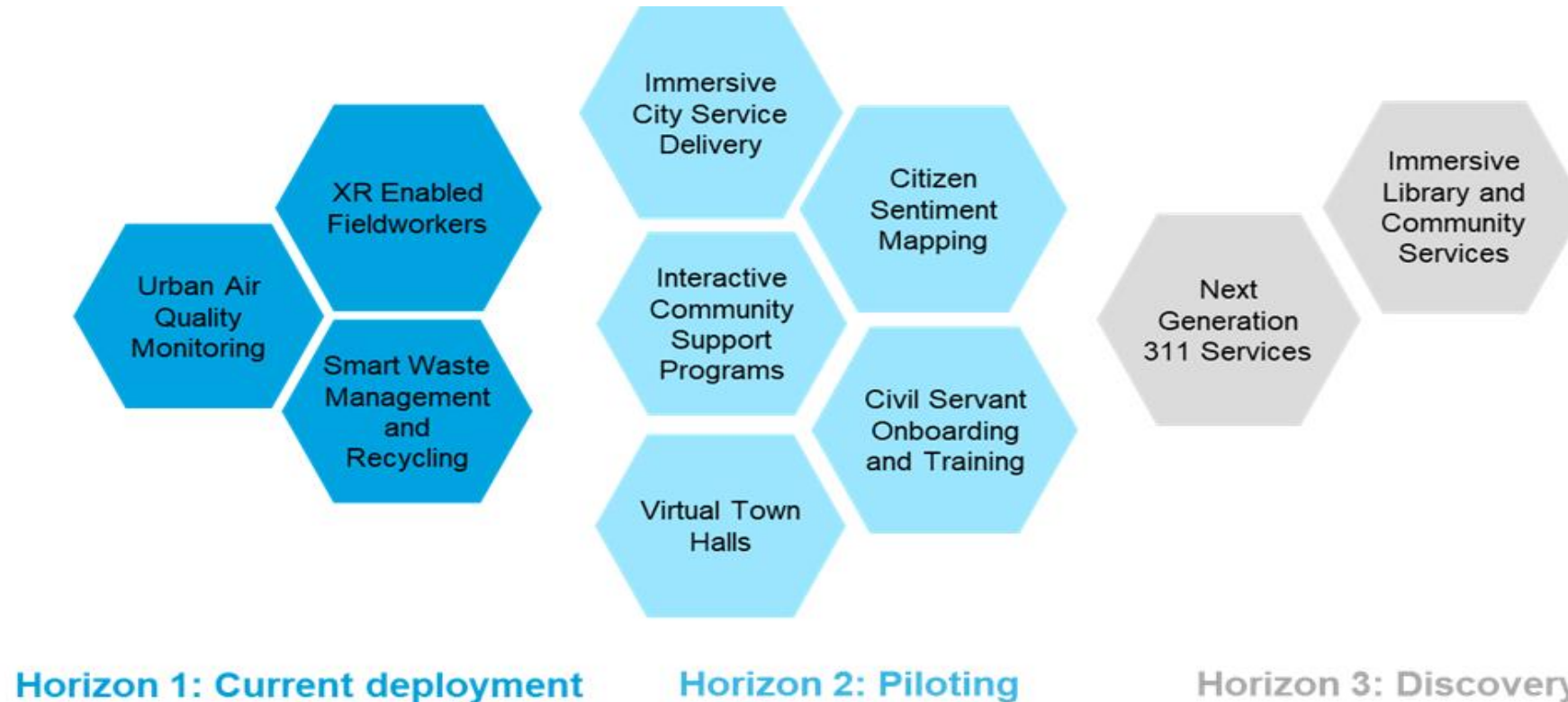


- Modern urban planning should be based on state-of-the-art urban technology and infrastructure that anticipate the evolution of energy, water, transport and security systems, fostering readiness and positive opportunities for future-proof cities.

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2. City Administration, Services and Public Participation

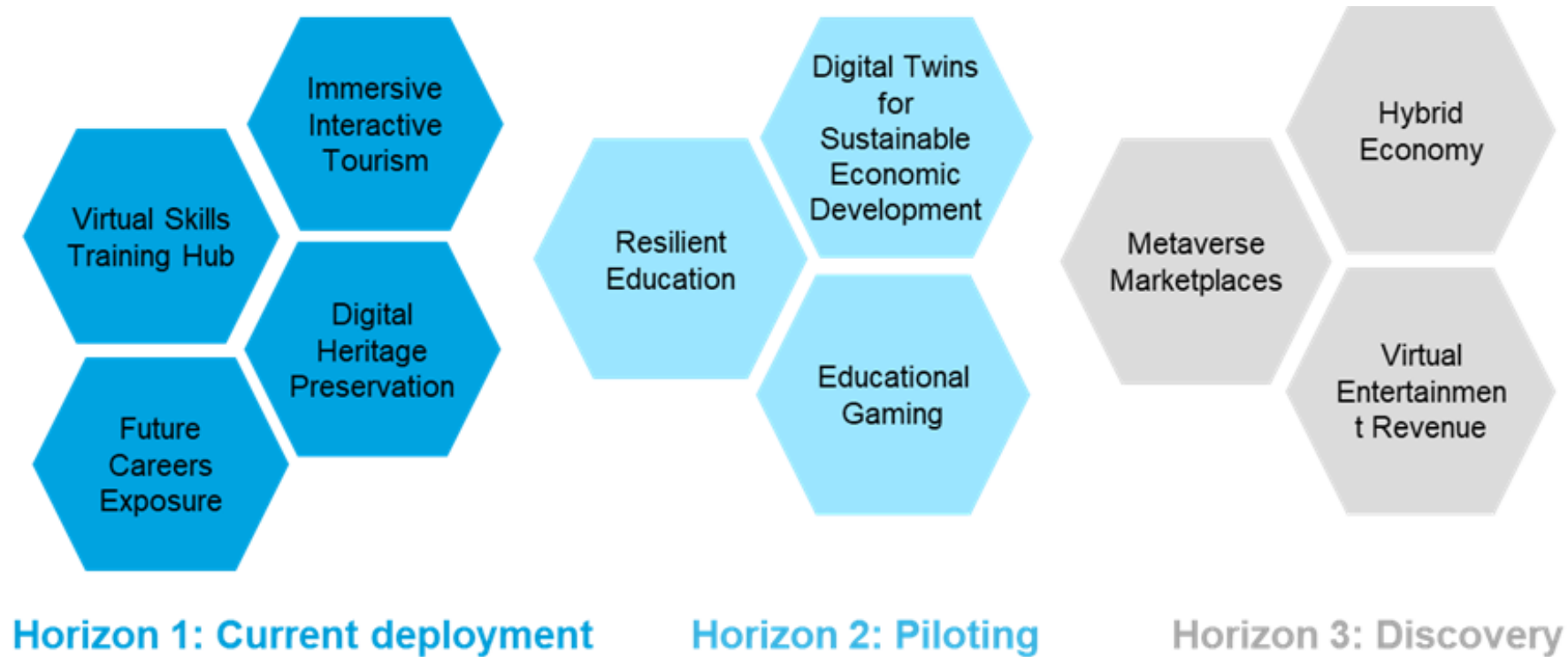


- Adopting digital technologies to transform governance, enhance public services, and foster meaningful citizen engagement through Public Service Delivery, Citizen Participation and Co-Creation, Sustainable City Operations, Transparency and Accountability

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3. Economic Development, Education and Tourism

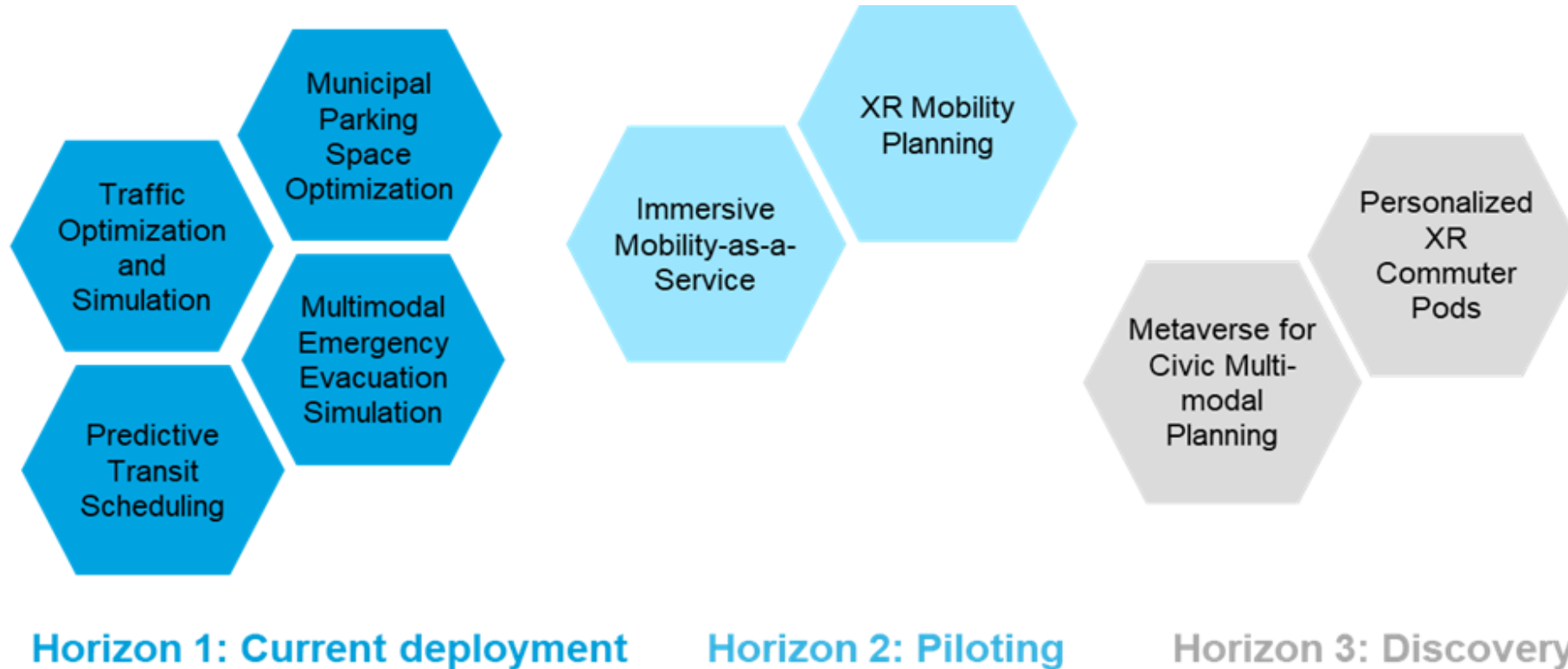


- Confluenting the digital and physical environments to transform how cities address the experiences and interactions of people with their learning, leisure, professional and business surroundings. Envision a world with a transformed economic system, a more effective and immersive education approach, whereby tourism is based on sustainable and cultural continuance impact.

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4. Transport and Mobility

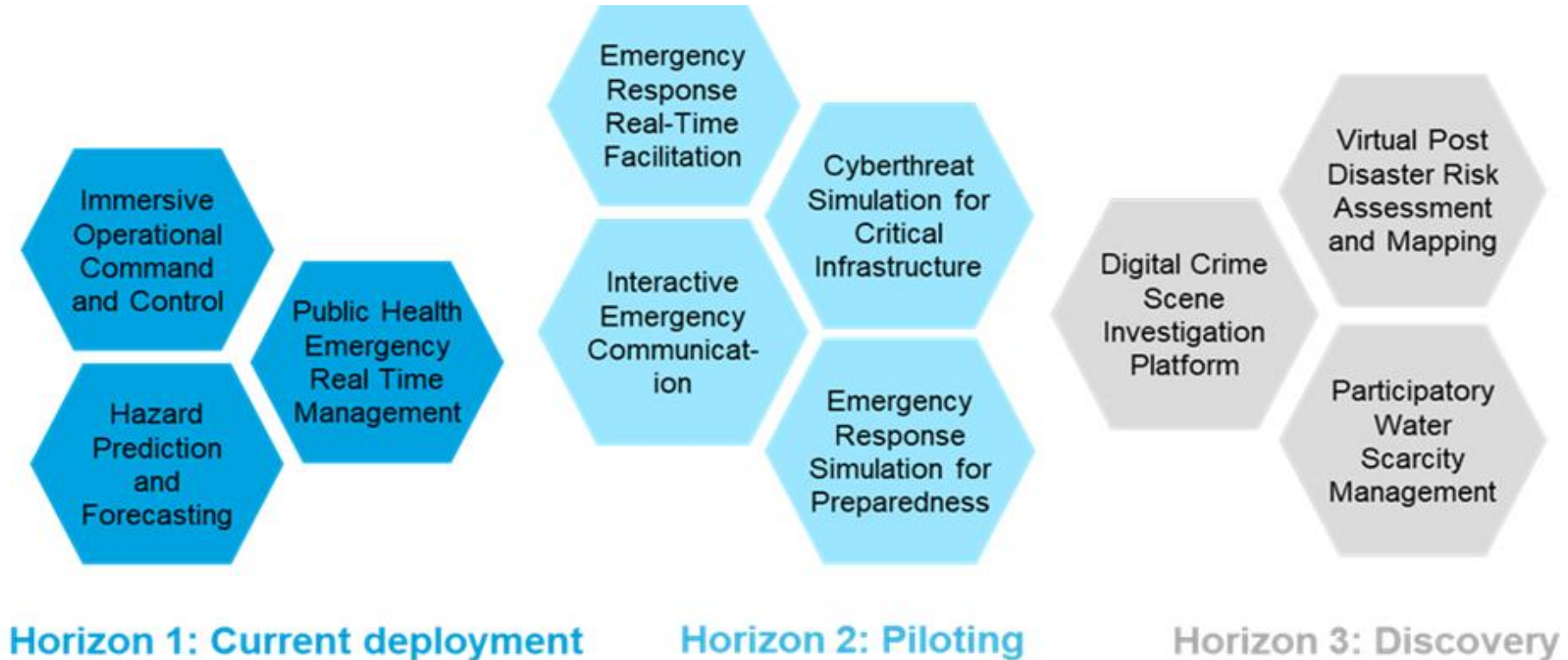


- Focuses on leveraging virtual worlds to transform the way people and goods move through cities, spanning from public transport, to active transportation and micro-mobility, private vehicles, urban logistics, freight and the transformation of stations, city ports and airports into integrated multimodal transport hubs.

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5. Public Safety, Health and Disaster Resilience



- The public safety, health, and disaster resilience thematic area focuses on harnessing virtual worlds to transform how cities protect and support their communities from emergency response, public health management, crime prevention, disaster preparedness and critical Infrastructure protection.

How | COMMON GOALS



The FUTURE: Predictive Forecasting | Optimization | Better Decision Making | Inclusion | Resilience | Sustainability | Post Disaster Recovery | Hybrid Economy | Real Time | Interactive | Immersive | Participatory | Adaptable | Balanced | Preservation | Heritage | Reuse | Support | Collaboration

Next Step to Action: **Goal 17 PARTNERSHIPS FOR THE GOALS**

Final Message to take



Let us Build the New World Together

INTEROPERABILITY | SECURITY | ROBUST GOVERNANCE = TRUST



Thank you!
