Reimagining the Future of Cities: AI, Virtual Worlds and the Citiverse

Ernesto Faubel-Cubells

AJUNTAMENT DE VALÈNCIA
SERVICIO DE CIUDAD INTELIGENTE
Y GESTIÓN DE DATOS

Structure

Pillar 1 – Bringing Virtual Worlds to Life

- Strategic Guidance
- Digital Inclusion and Accessibility
- Scaling Framework
- Evaluation and Assessment

Pillar 2 – Connecting Cities with the Virtual and Real Worlds

- Emerging Technologies
- Use-case Identification
- Security and Trust
- Interoperable Citiverse
- Sandbox Experiment Facility

Pillar 3 – Tunneling the citiverse

- Citiverse Assembly
- Citiverse Challenge
- Citiverse Alliance
- Awareness Building
- Virtual Worlds Toolkit
- Annual Training
- Talent Grants Programme for Developing Countries

AJUNTAMENT DE VALÈNCIA

- **Immersive Interactive Tourism**
- **Virtual Urban Place-making**
- **Virtual Town Hall (assistant)**
- **Participation**
- **Description of buildings**
- **Interactive public spaces**

Horizon 1: Current deployment

- **Interactive public spaces**

Impacts
1) Community resilience
2) Quality of life
3) Participatory co-creation
4) New economic and tourism opportunities
5) Health and wellbeing
6) Citizen engagement

SmartCity València

AJUNTAMENT DE VALÈNCIA
SERVICIO DE CIUDAD INTELIGENTE
Y GESTIÓN DE DATOS

- **Interactive public spaces**

Key beneficiaries
- Urban planners and city administrations
- Citizens and local communities
- Architects, designers, and creatives
- Tourism boards and cultural institutions:
- Tech and XR companies
- Real estate developers and investors:
- Mobility and infrastructure providers:
- Educational institutions and students

SDG alignment

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

11 SUSTAINABLE CITIES AND COMMUNITIES

Key technologies
- Metaverse platforms
- Augmented reality (AR)/eXtended reality (XR)
- Internet of Things (IoT)
- Generative AI (GenAI)

SmartCity València

AJUNTAMENT DE VALÈNCIA
SERVICIO DE CIUDAD INTELIGENTE
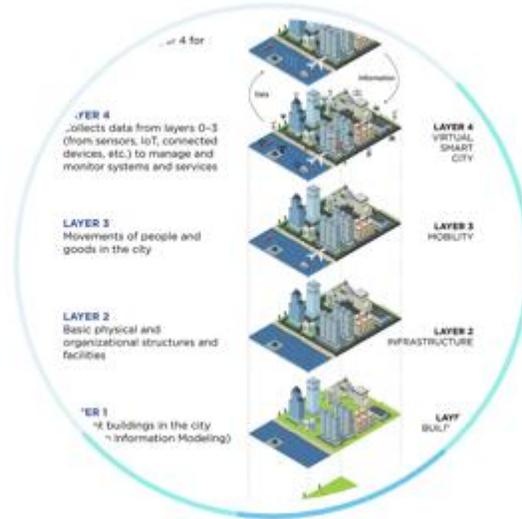Y GESTIÓN DE DATOS

Valencia is already committed with Citiverse

- We are deeply committed to the digital transformation of our city.

- A leap into the Citiverse is necessary, but with a clear strategy and time

- Need to work together

Shift to Citiverse offers better services, sustainability, inclusivity

- Urban planning, Tourism, Net-zero emissions, green mobility, intelligent energy & water, citizen-first services.

- Valencia aims to export its model, build around digital twin and AI-based simulations.

The cities of the future will face new challenges

- The transition to the Citiverse is essential to proactively address the current and future needs of our citizens.

- Developing a strategic framework that embraces the new paradigms of disruptive technologies represents the first step in this transformative journey.

SmartCity València

AJUNTAMENT DE VALÈNCIA
SERVICIO DE CIUDAD INTELIGENTE Y GESTIÓN DE DATOS

- Connection with Digital Twins
- A lot of related technologies
- Multiple scope of use cases
- For citizens and for cities
- Improved experience