



standICT.eu 2026
ICT Standardisation Observatory and Support Facility in Europe

CitiVerse Vision & Standardization

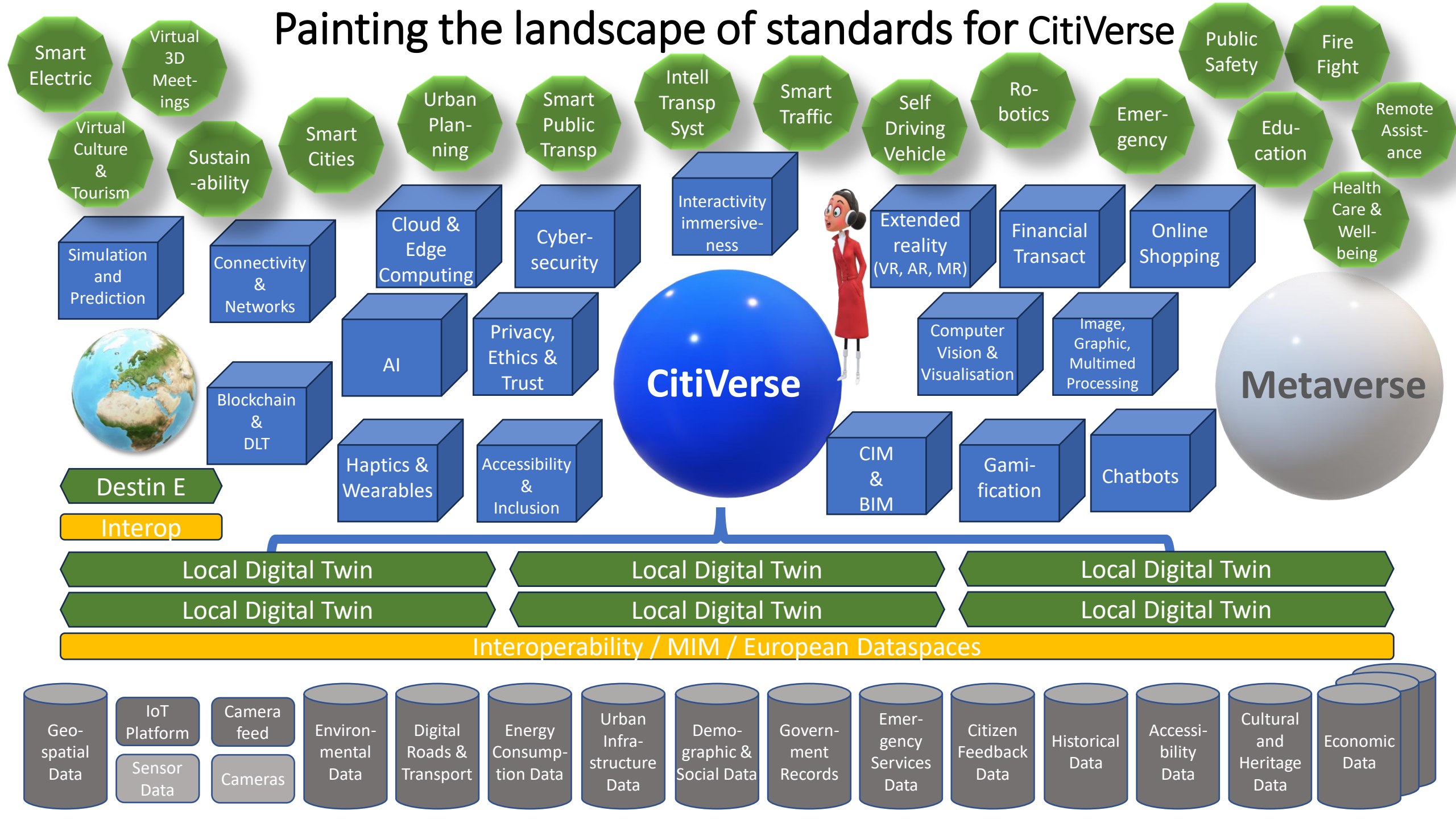
Meeting 2023-10-24

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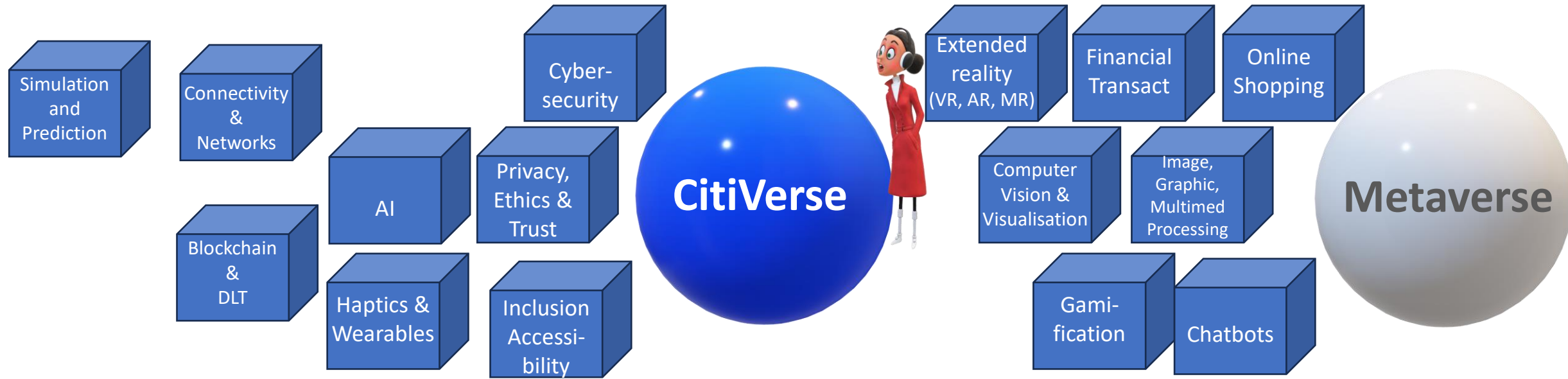


Funded by
the European Union

Painting the landscape of standards for CitiVerse

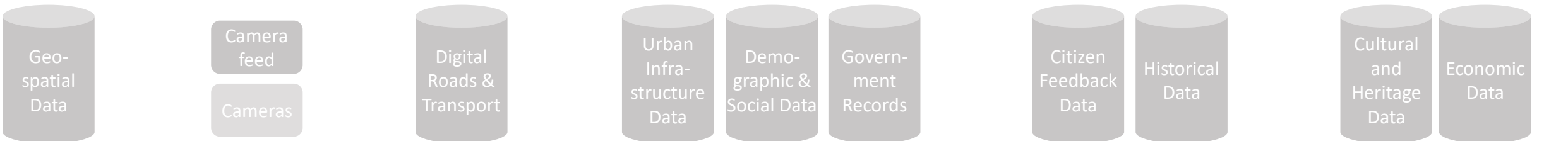


Similarities CitiVerse - Metaverse

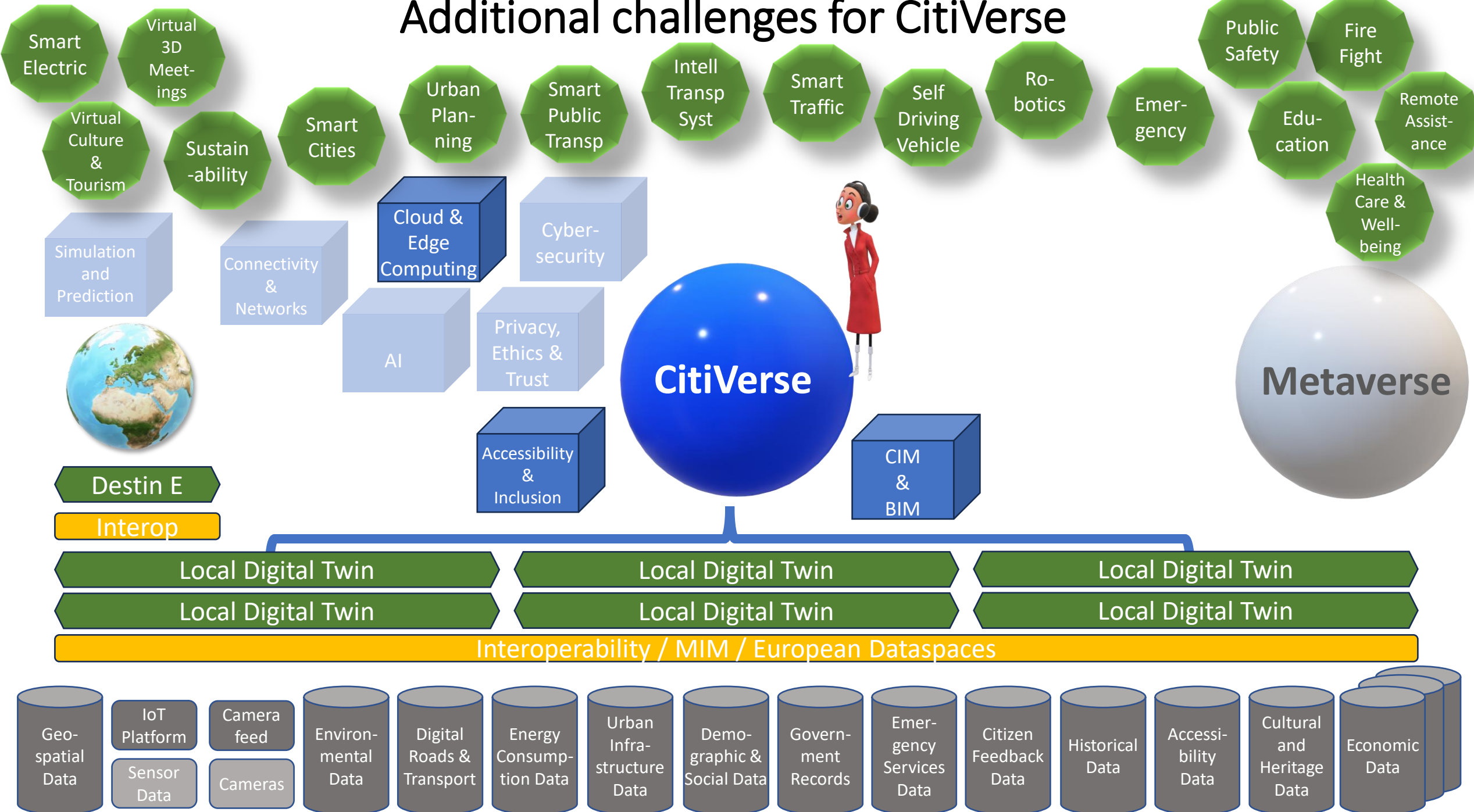


Local Digital Twin

Interoperability / MIM / European Dataspaces



Additional challenges for CitiVerse

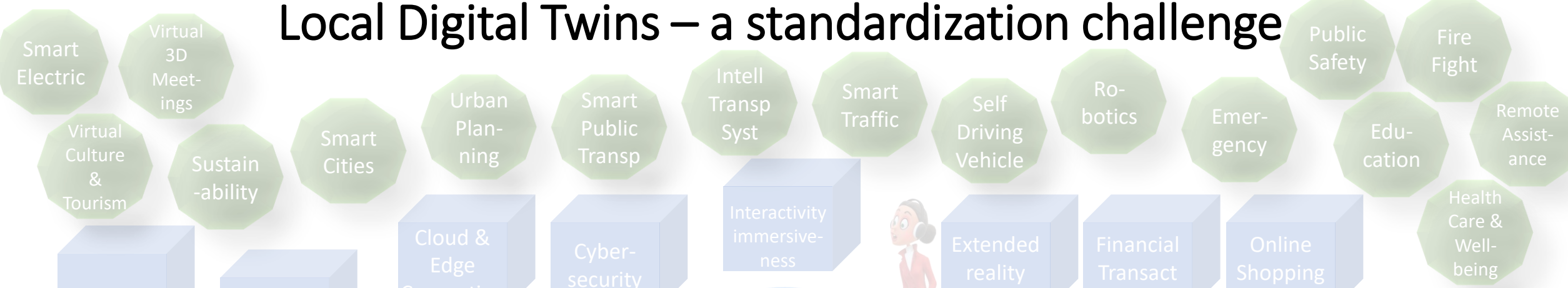




International Joint Working Group on City Information modelling & Urban Digital Twins

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Local Digital Twins – a standardization challenge



Destin E

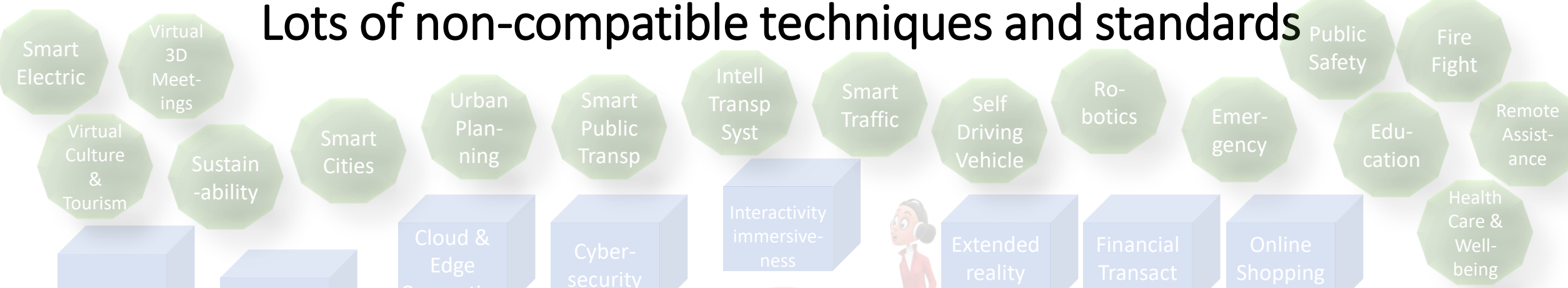
Interop



Interoperability / MIM / European Dataspaces



Lots of non-compatible techniques and standards



Chatbots

Accessibility & Inclusion

Cloud & Edge Computing

Cyber-security

Interactivity immersive-ness

Extended reality

Financial Transact

Online Shopping



CIM & BIM

AI

Privacy, Ethics & Trust

CitiVerse



Computer Vision & Visualisation

Image, Graphic, Multimed Processing

Metaverse

Haptics & Wearables

Connectivity & Networks

Blockchain & DLT

Gami-fication

Simulation and Prediction

Destin E

Interop

Local Digital Twin

Local Digital Twin

Local Digital Twin

Local Digital Twin

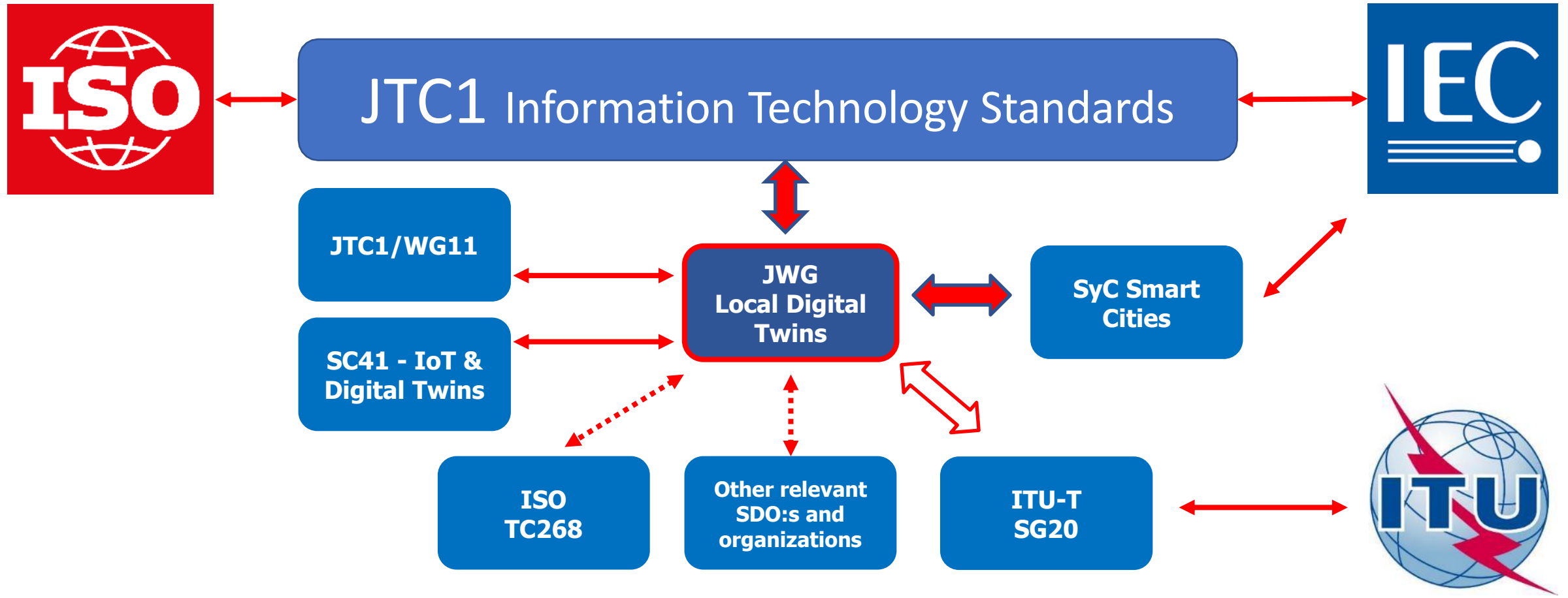
Local Digital Twin

Local Digital Twin

Interoperability / MIM / European Dataspaces



International standardization cooperation on Local Digital Twins



NWIP: Gap Analysis on Standards Related to City Information Modelling and Urban Digital Twins

Questionary will be sent to larger ongoing projects all over the world, dealing with Local Digital Twins.

The questionary will ask questions like:

- What are you doing and for what purpose?
- What stakeholders?
- What technology / software are you using?
- What data sets?
- Have you based your work on any existing standards? What have been useful?
- How did the project go? What are the successes and failures? What challenges? What lessons have you learnt so far?
- Do you see further standardization needs that would help you in the future?


Expected results from the NWIP

A published Technical Specification that:

- defines concepts of City Information Modelling and Urban Digital Twins
- collects the case studies how cities are using City Information Modelling and Digital Twin technologies
- identifies the standards being used
- scopes out the requirements for new standards and for possible revision of existing standards
- provides recommendations for Standard Development Organizations (SDOs)

The higher goal and justification

- To make sure that all investments made by all actors all around the world will result in solutions that have interoperability and can work together



Standardization gaps Next step

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Thank you!

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