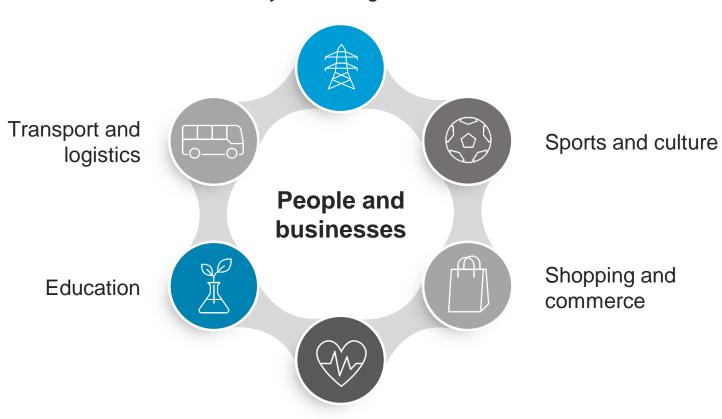


There is a lot happening in cities

Utility use and generation



Health



The data challenges facing cities and communities



The need to manage increasing complexity

Siloed nature of city and community management

Cities relying on incomplete, inconsistent and unreliable information

The need for affordable and transformative solutions



A local data sharing ecosystem is needed

Where increasing amounts of useful data about a community are collected and used by the public administration, by business, and by the citizen to help the community work better.





Considerations associated with managing local data

How to use data to manage physical assets?

How to link context data?

How to find the data I need?

How to handle data analytics?

How to ensure common data models?

How to combine compliance with conditions for data sharing?

How to ensure fair AI?

How to manage personal data?

How to find out about the conditions for data sharing?

How to manage data security?

How to gather data usage information?

How to ensure data quality?

How to manage geospatial data?



The evolving landscape of smart cities



Data life cycle management by default



Interoperability



New Technologies



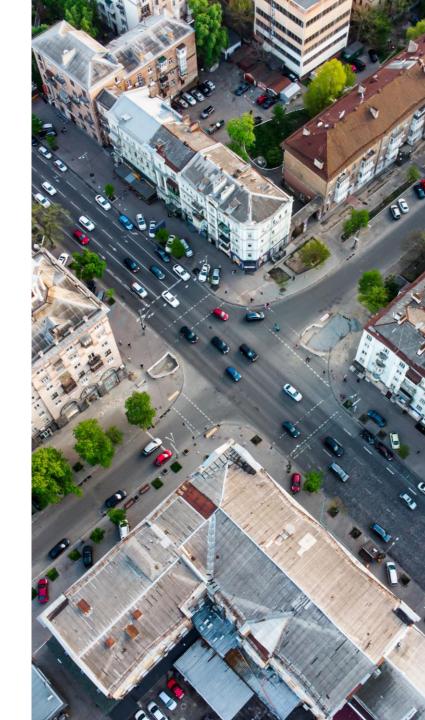
Data-enabled cities and communities



Data lakes and data spaces



Local digital twin



What is the role of MIMs?

Minimal Interoperability Mechanisms to enable all communities, whether large or small, to put in place effective local data sharing ecosystems and to enable solutions to be shared between cities and communities around the world





How MIM can be a practical tool

To be used by communities of any size to tackle challenges of a local data ecosystem



Minimal to ensure:

No unnecessary complexity or time-to-implement



Sufficient Interoperability to allow:

"Good enough" integration of systems



Clearly defined mechanism so that:

It is easy to determine if a product or service is compliant



There is need for standardization



Overarching Frameworks



Defining Objectives and Priorities



Best Practices and Guidance



Measure and Improve Performance



Inform Policies



How ITU-T supports digital transformation

SG20: Internet of things (IoT) and smart cities and communities (SC&C)

Internet of Things and its Applications

Smart Cities and Communities

IoT Identification

Digital health related to IoT and SSC



Africa Region



Americas Region



Arab Region



EECAT Region



Asia and Pacific Region





Minimal Interoperability Mechanisms for Cities **Work Item**

[2022-2024]: [SG20]: [Q1/20]

[Declared patent(s)] - [Associated work]

Work item:

Subject/title Minimal Interoperability Mechanisms for Smart and Sustainable Cities and Communities

Status: Under study Approval process:

Type of work item: Recommendation

Version: Equivalent number:

Timing: 2024-Q4 (Medium priority)

ISO/TC 268, ISO/IEC JTC1/SC41, IEC SyC Smart Cities, OGC

Supporting members: Denmark, Spain, European Commission, NEC

This draft Recommendation defines such modular mechanisms; Minimal Interoperability Mechanisms (MIMs), that provide the Summary:

requirements for implementing the minimal but sufficient capabilities needed to achieve interoperability based on a minimal common ground. The value of this approach is becoming widely recognised and several organisations and national and regional agencies are showing interest in the development of MIMs covering a range of different topics. This document uses the existing experience of developing and implementing MIMs to provide a clear definition, define a common format, and provide guidance as to how to develop a MIM.

Comment:

Reference(s): [SG20-TD288-R1/GEN (2022-07) (A.1 TD) a]

[SG20-TD690/GEN (2023-01) a]

Historic references:

[SG20-TD289-R2/GEN (2022-07) a]

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ITU-T A.5 justification(s):

[Submit new A.5 justification a]

See guidelines for creating & submitting ITU-T A.5 justifications

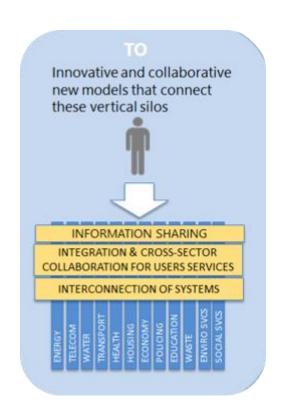
First registration in the WP: 2022-07-29 11:21:26

Last update: 2023-02-16 10:27:27



How standards can support interoperability







United for Smart Sustainable Cities

U4SSC serves as the global platform to advocate for public policy and to encourage the use of ICTs to facilitate and ease the transition to smart sustainable cities.









Building Urban Economic Resilience at City Level



Artificial Intelligence in Cities



Procurement for Smart Sustainable Cities



Enabling People-Centred Cities through Digital Transformation







































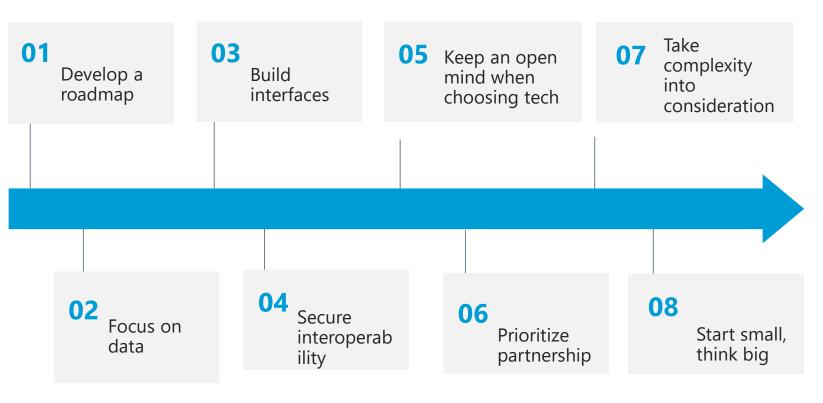
Redefining smart city platforms



Report provides guidance to governments and cities at all levels on setting up smart city platforms, as well as on procuring the requisite elements for building them.



Eight steps that cities and communities can take





Towards people-centred cities and communities











Community

Empowering People

Digital Equity

Making access to technology equitable

Infrastructure

Responsibility managing data and digital infrastructure

Security

Building trust by securing digital assets

Capacity

Building multistakeholder capacity



What does the future hold?

Building an open and interoperable metaverse







2nd FG-MV meeting: 4-6 July 2023, Shanghai, China Join the 2nd ITU Forum on "Creating a metaverse for all through international standards", 7 July 2023, Shanghai, China

To learn more, please visit: www.itu.itu/go/fgmv



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