

Agenda

1. The definition of Smart Cities

2. From products to projects and standards

3. Hurdles and risks

4. Emerging trends

Definition



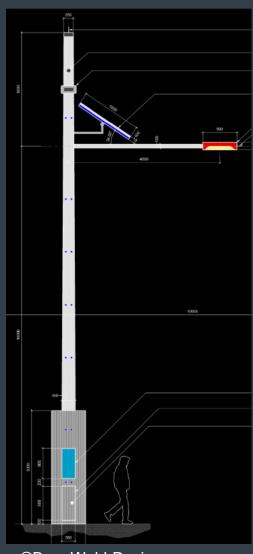
Please give me one sentence definition on smart cities



Smart cities are urban areas that leverage advanced technologies and data-driven solutions to enhance efficiency, sustainability, and quality of life for residents.

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Smart, connected street lighting



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A DESIGN FOR A SMART CITY

ADVANCED SOLAR POWERED DIMMED LED STREETLIGHT WITH SUNTRACKING PHOTO VOLTAIC BATTERY SUPPORTED ENERGY COLLECTION.

THE STREETLIGHT PRODUCES 2 TIMES THE ILLUMANCE AS REQUIRED BY AS/NZ 1158
SCHEDULE OF DRAWINGS AND SPECIFICATIONS.

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- 1. High efficiency LED lighting
- 2. Sensors
- 3. Auxiliary services

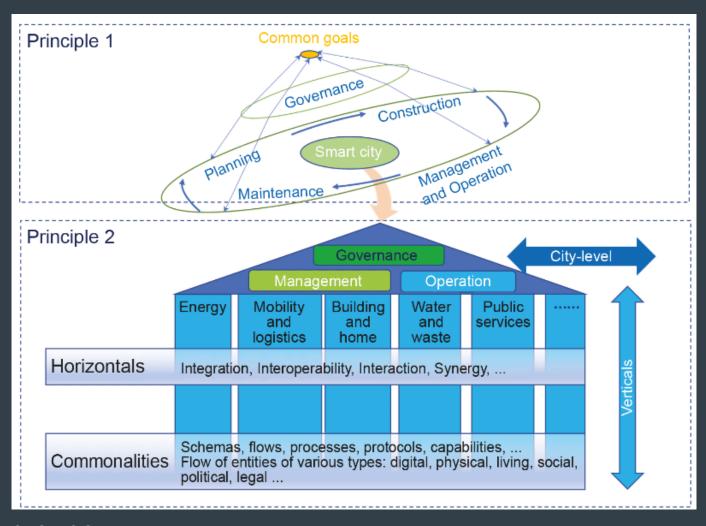
Product to projects



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"What is 'Smart'? What do we want to achieve?"

Standardization: Smart Cities



©AS IEC SRD 63233.1:2023

Smart city standards inventory and mapping, Part 1: Methodology

City Information Modelling

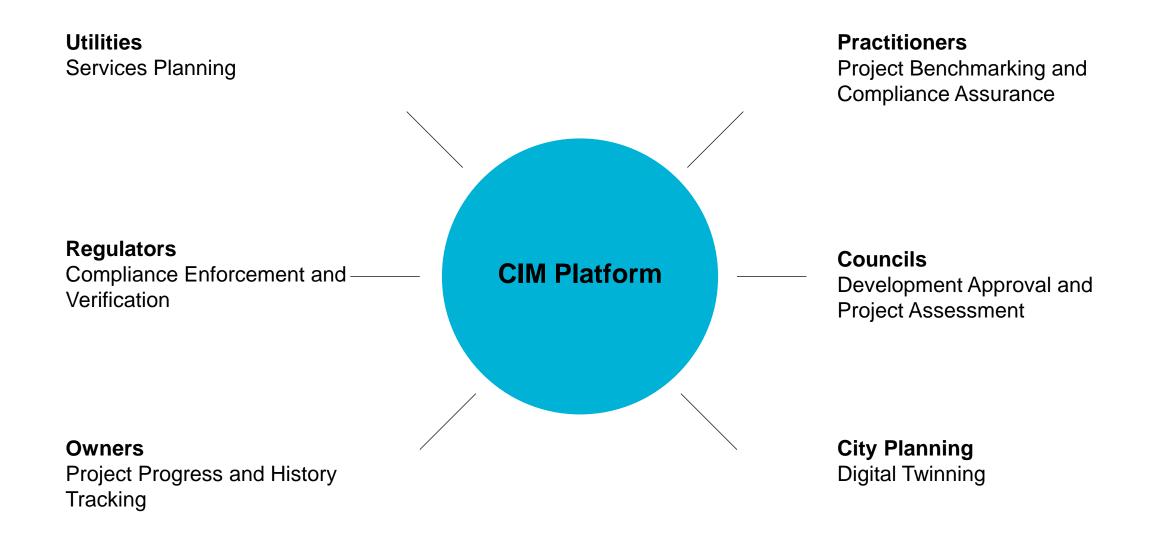
"City Information Modelling

development of digital representations of a city made up of large quantities of geospatial data, often including real time data, which enable better city planning and management"

-IEC SRD 63273: Use Case Collection and Analysis: City Information Modelling



Stakeholders of CIM



Hurdles and risks

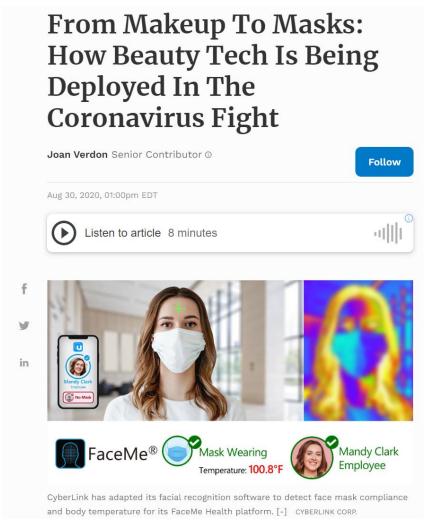
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- 1. Understand the needs
- 2. Coordination of city departments
- 3. Planning and financing projects

2

- 1. Security
- 2. Privacy and trust

Hurdles and <u>risks</u>: From body temperature detection to identification

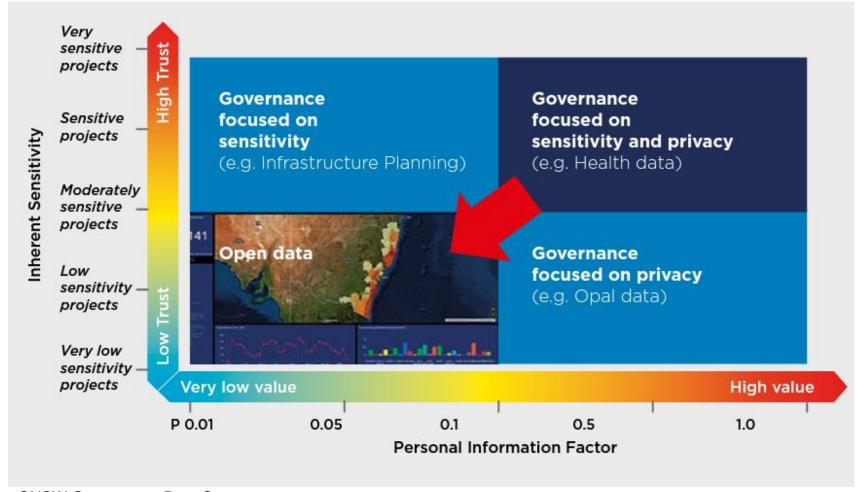


- Smart Infrastructure to control Covid
- 2. Software upgrade that enables identification
- 3. Consent, trust and human rights

©Forbes

Hurdles and <u>risks</u>: Data Management

- 1. Creation
- 2. Collection
- 3. Storage
- 4. Use
- 5. Analysis
- 6. Reuse
- 7. Archive
- 8. Deletion



©NSW Government Data Strategy

Emerging trends

1. Interoperability

2. Advanced analysis

