

# Data Governance for Smart Cities

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# Pros and Cons of Smart Cities...

- “Smart City” by Wikipedia: [https://en.wikipedia.org/wiki/Smart\\_city](https://en.wikipedia.org/wiki/Smart_city)
- An urban area that uses **different types of electronic methods and sensors to collect data**.
- Insights gained from that data are used to **manage assets, resources and services efficiently**; in return, that data is used to improve the operations across the city.
- The smart city concept integrates **information and communication technology (ICT)**, and various physical **devices connected to the IoT (Internet of things)** network to optimize the efficiency of city operations and services and connect to citizens.
- Smart city technology allows **city officials** to interact directly with both **community and city infrastructure** and to **monitor what is happening** in the city and how the city is evolving.

# Various Adoptions All Over the World

- Amsterdam
- Barcelona
- Columbus, Ohio
- Copenhagen
- Dubai
- Dublin
- Gdynia
- Isfahan
- Kyiv
- London
- Madrid
- Malta
- Manchester
- Milan
- Milton Keynes
- Moscow
- New Songdo City
- New York
- San Leandro
- Santa Cruz
- Santander
- Shanghai
- Singapore
- Stockholm
- Taipei

# Criticism

- A **bias in strategic interest** may lead to ignoring alternative avenues of promising urban development.
- A smart city, as a scientifically planned city, would defy the fact that real development in cities is often **haphazard**. In that line of criticism, the smart city is seen as unattractive for citizens as they “can **deaden and stupefy** the people who live in its all-efficient embrace”. Instead, people would **prefer cities they can participate to shape**.
- The focus of the concept of smart city may lead to an **underestimation of the possible negative effects** of the development of the new technological and networked infrastructures needed for a city to be smart.

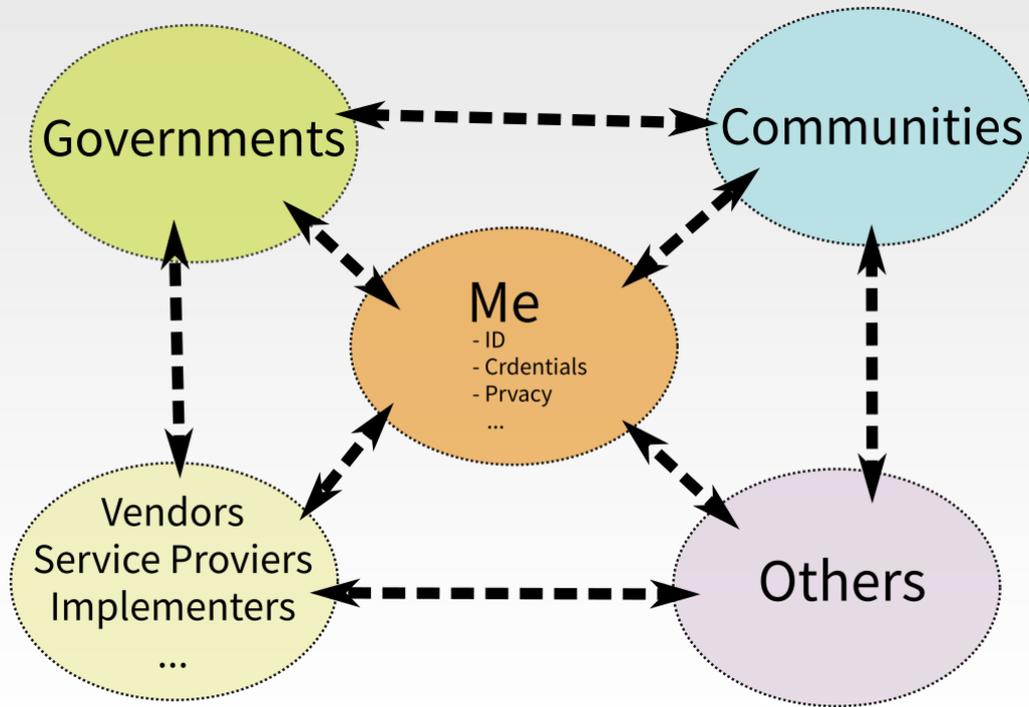
# Criticism (contd.)

- As a globalized business model is based on capital mobility, following a business-oriented model may result in a **losing long-term strategy**: "The 'spatial fix' inevitably means that mobile capital can often 'write its own deals' to come to town, only to move on when it receives a better deal elsewhere. This is no less true for the smart city than it was for the industrial, [or] manufacturing city."
- The **high level of big data collection and analytics** has raised questions regarding surveillance in smart cities, particularly as it relates to predictive policing.
- As of August 2018, the discussion on smart cities centres around the **usage and implementation of technology** rather than on the inhabitants of the cities and how they can be involved in the process.

# Criticism (contd.)

- Especially in **low-income countries**, smart cities are irrelevant to the majority of the urban population, which lives in poverty with limited access to basic services. A focus on smart cities may worsen inequality and marginalization.
- If a smart city strategy is not planned taking into account people with **accessibility problems**, such as persons with disabilities affecting mobility, vision, hearing, and cognitive function, the implementation of new technologies could create new barriers.

# Data Governance for Smart Cities



Data Transfer among various stakeholders

- Who
- What
- When
- How
- Need clarification based on concrete Use Cases by a dedicated IG 😊

# Thanks!