

"Cities of the Future: How smart communities should be focused on being connected, sustainable and citizen centric"

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What we will cover

- Our current trajectory in enabling smart communities is still too focused on the technology and not on the outcomes.
- So how do we initiate a step change in our approach?
- We will explore some different strategies that have worked in other places.
- From these experiences outline a plan that will help smart communities become connected, sustainable and citizen centric.



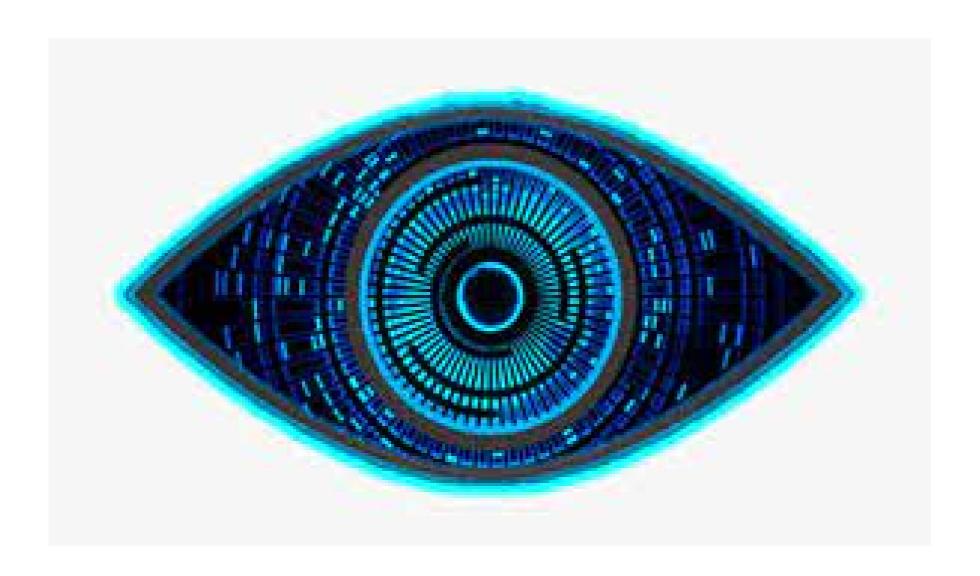
How Smart Are We Really?



Source: Scientific American

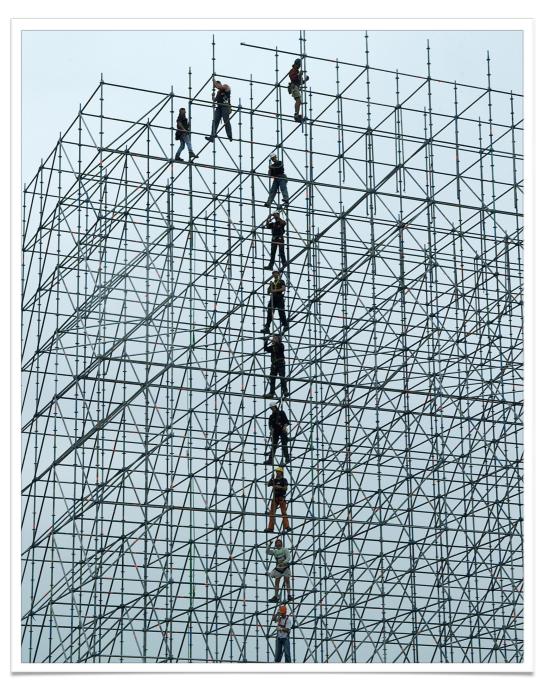


Today





Standards

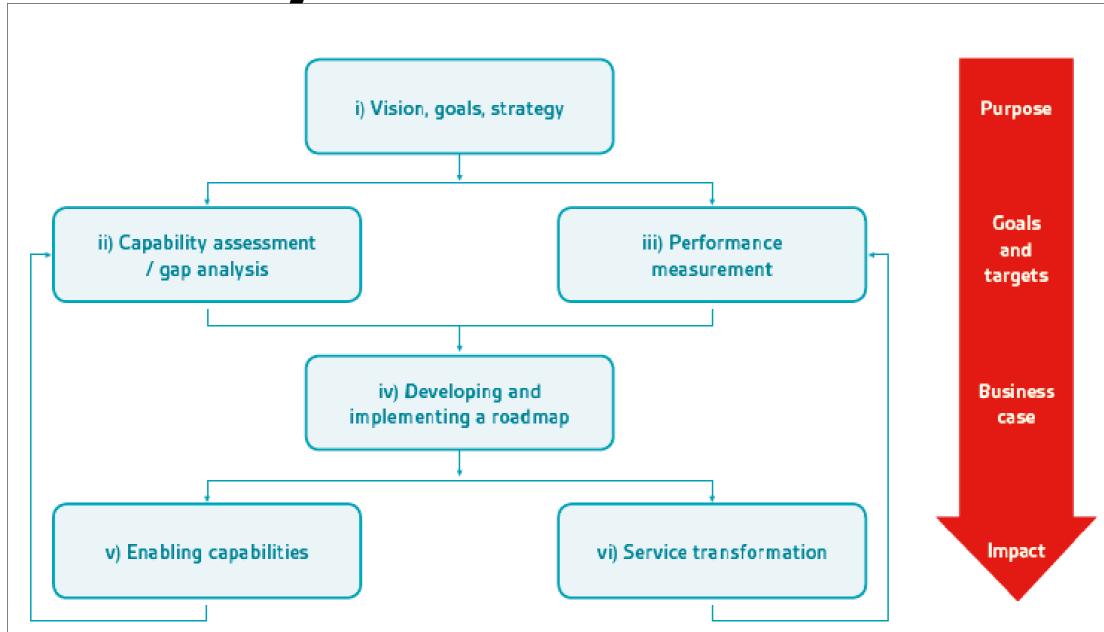


Standards provide a framework to create a joined up, focused and successful programme

Photo by Bo de Visser - https://freeimages.com/



Journey to Smart



A Smart City requires that all the key stakeholders in the city agree to a joint vision, a set of goals and an overall approach with which to achieve them (see illustration). Part of this approach could be to set up a Smart City team, directly accountable to city leadership and with a mission to drive forward smart initiatives



Principles

"A genuinely "smart" city puts the needs of its citizens first. Data must be collected with a purpose, and that purpose should improve some aspect of the interaction of people with the cities they inhabit"

"A well-facilitated interaction between citizens and city administrators creates a virtuous circle: when a service improves thanks to feedback and interaction, citizens are motivated to continue to participate and connect."

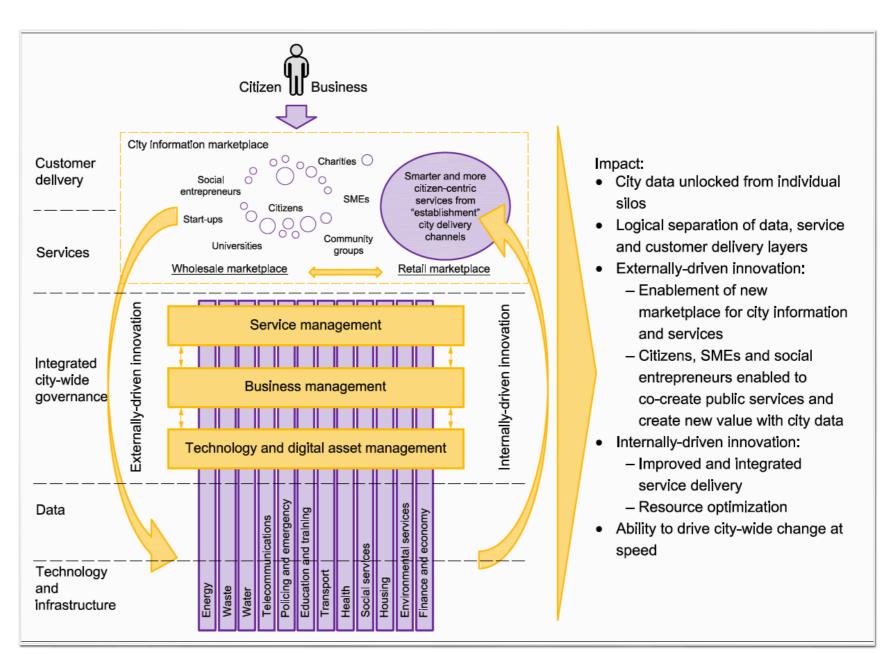
http://smartcityinnovation.eu/wp-content/uploads/2019/06/7389-Final-Smarter-Cities-web-B.pdf

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What does Good Look Like?

- Visionary
- Collaborative
- Digital
- Interoperable
- Transparent
- Privacy-by-Design
- Citizen Centric
- Open Data
- Outcomes Centric
- Governance



Taken from ISO 37106 - Smart City Operating Model - copyright BSI



Outcomes

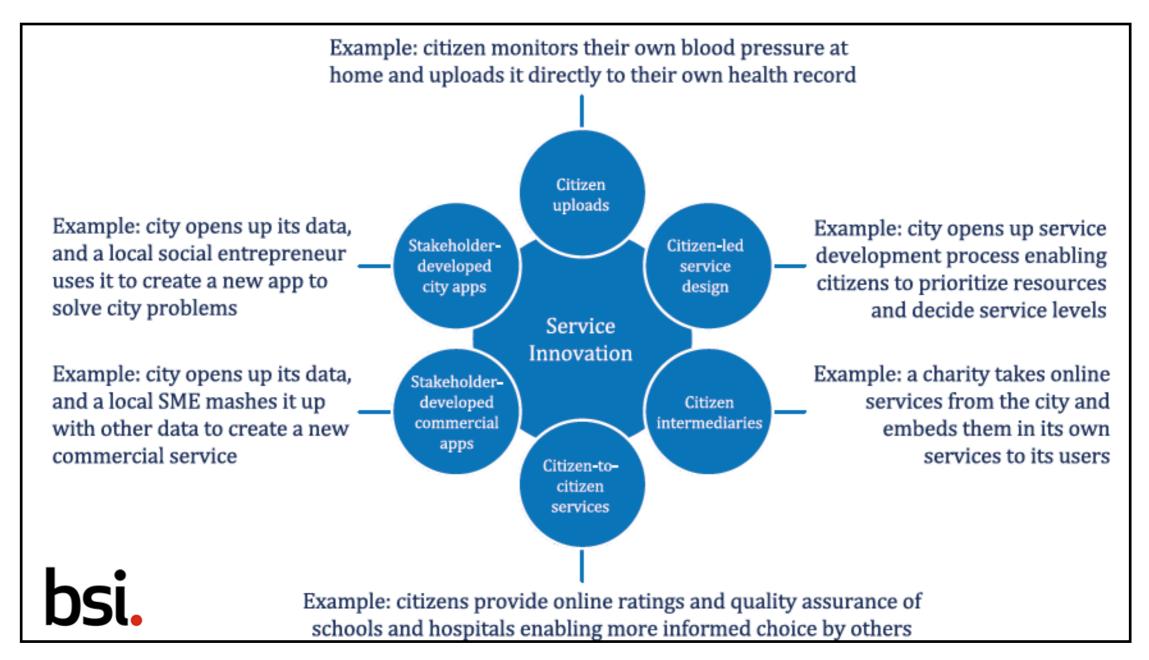
Introducing the Sustainable Development Goals







Service Transformation



Taken from ISO37106



What information is being collected? By whom and for what purpose?

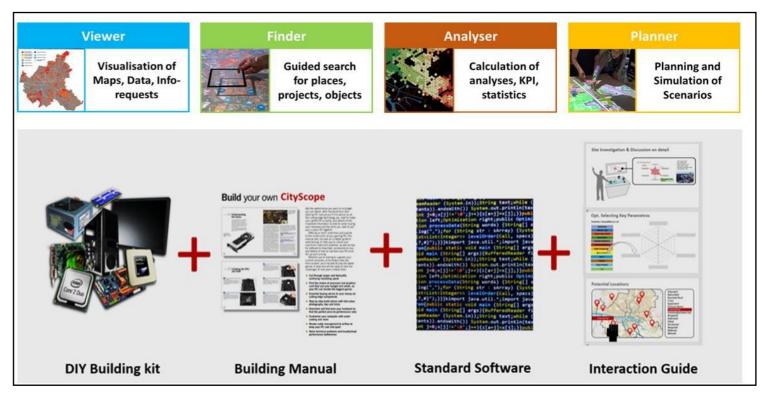
BRISTOL ONE CITY

https://www.bristolonecity.com



Bristol Approach - Knowle West Media Centre https://www.bristolapproach.org

Open City Toolkit



https://github.com/citysciencelab/open-city-toolkit

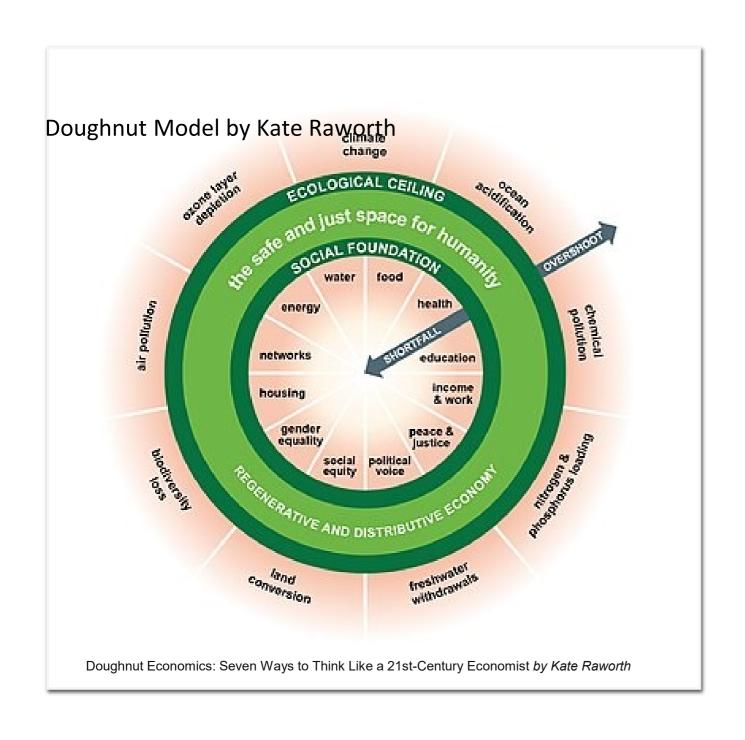
New Forms of Collaboration Open Source Need a Lab!

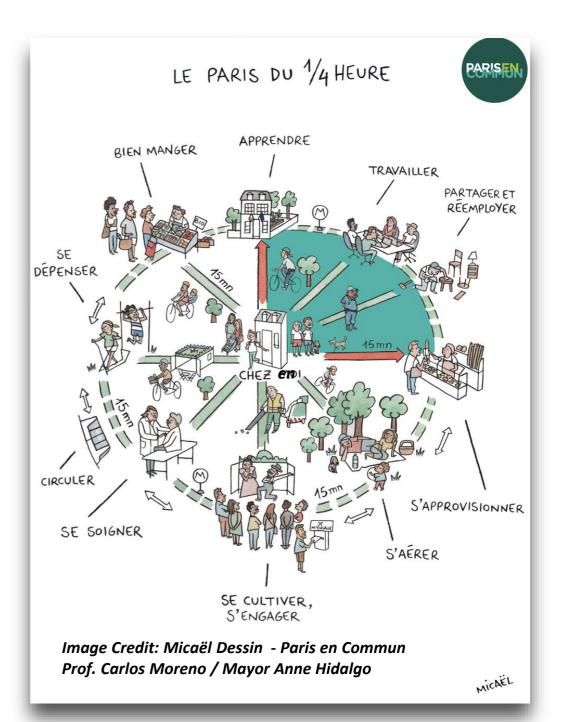
In use in cities across the world: Bhubaneswar, India & Latacunga, Ecuador





For Consideration







UoS Thought Leadership

International Conference on Evolving Cities - ICEC 2021



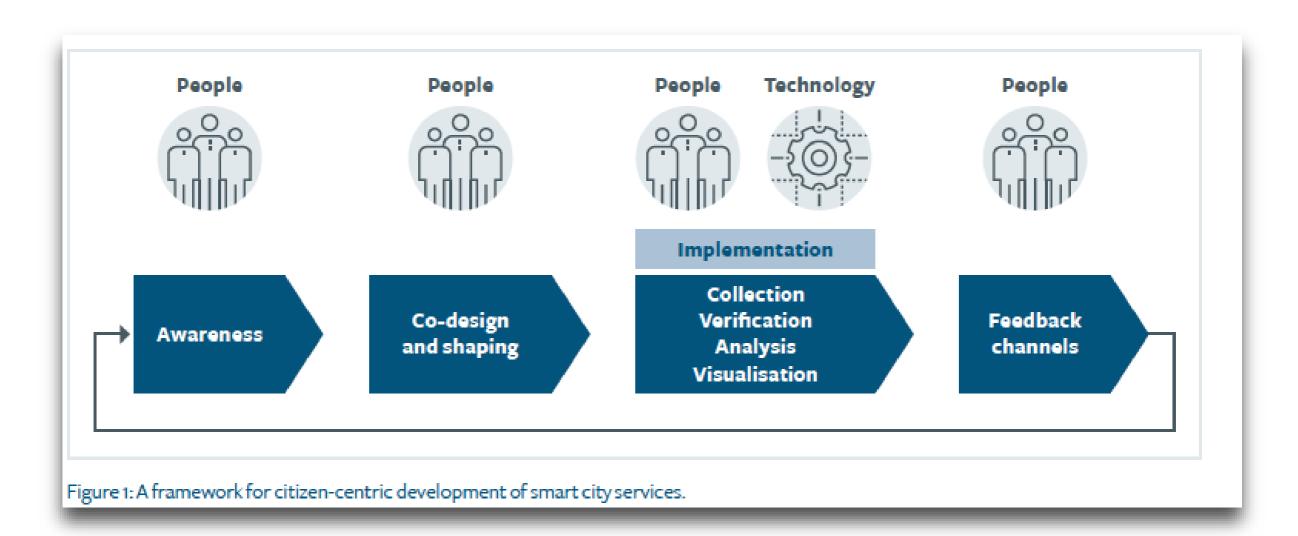


https://evolvingcities.org



SCIFI

http://smartcityinnovation.eu/about/



http://smartcityinnovation.eu/wp-content/uploads/2019/06/7389-Final-Smarter-Cities-web-B.pdf



Citizen Centricity

Key Recommendations for Engaging Citizens in Smart Cities:

To enable citizens to engage effectively with the development of smart city services, they should be:

- Informed about the opportunities provided by civic technology and how this can empower them to use and provide data to transform their city;
- Presented with a range of opportunities for co-creation across the framework;
- Engaged via low tech, bottom-up approaches which reduce barriers and value diverse insights;
- Offered opportunities to interact with technically skilled citizens, and to develop technical awareness themselves;
- Engaged with apps and sensors that build on existing tools and existing practices, rather than requiring them to learn and implement entirely new activities;
- Supported to engage with city authorities (and vice versa) feedback channels should enable citizens to improve, as well as benefit from improved, services.

http://smartcityinnovation.eu/wp-content/uploads/2019/06/7389-Final-Smarter-Cities-web-B.pdf





Appendix Links to BSI Standards

Standard		Link
PD 8100	PD8100 - Overview Guide	https://shop.bsigroup.com/forms/PASs/PD-81002015/
PAS 180	PAS180 - Smart Cities Terminology	https://shop.bsigroup.com/forms/PASs/PAS-1802014/
ISO37106 / PAS181	PAS 181/ISO37106 - Sustainable cities and communities. Guidance on establishing smart city operating models for sustainable communities.	https://shop.bsigroup.com/forms/PASs/PAS-18120142/
PAS182	PAS 182 - Smart City data concept model (SCCM)	https://shop.bsigroup.com/forms/PASs/PAS-1822014/
PAS 183	PAS183 - Guide to establishing a decision-making framework for sharing data and information services	https://shop.bsigroup.com/forms/PASs/PAS-1832017- download/
PAS 184	PAS184 - Developing project proposals for delivering smart city solutions.	https://shop.bsigroup.com/forms/PASs/PAS-1842017/
PAS 185	PAS185 - Smart cities – Specification for establishing and implementing a security-minded approach	https://shop.bsigroup.com/forms/PASs/PAS-185/
PAS 186	PAS 186 - Smart cities – Supplying data products and services for smart communities – Code of practice	https://shop.bsigroup.com/PAS186
BIM - ISO 19650-5		https://www.bsigroup.com/en-GB/iso-19650-BIM/