

# An Introduction to the G20 Global Smart Cities Alliance

## Digital Twins Made Real:

*From Technical Complexity to Outcomes for People and Place*



# What is the G20 Smart Cities Alliance?



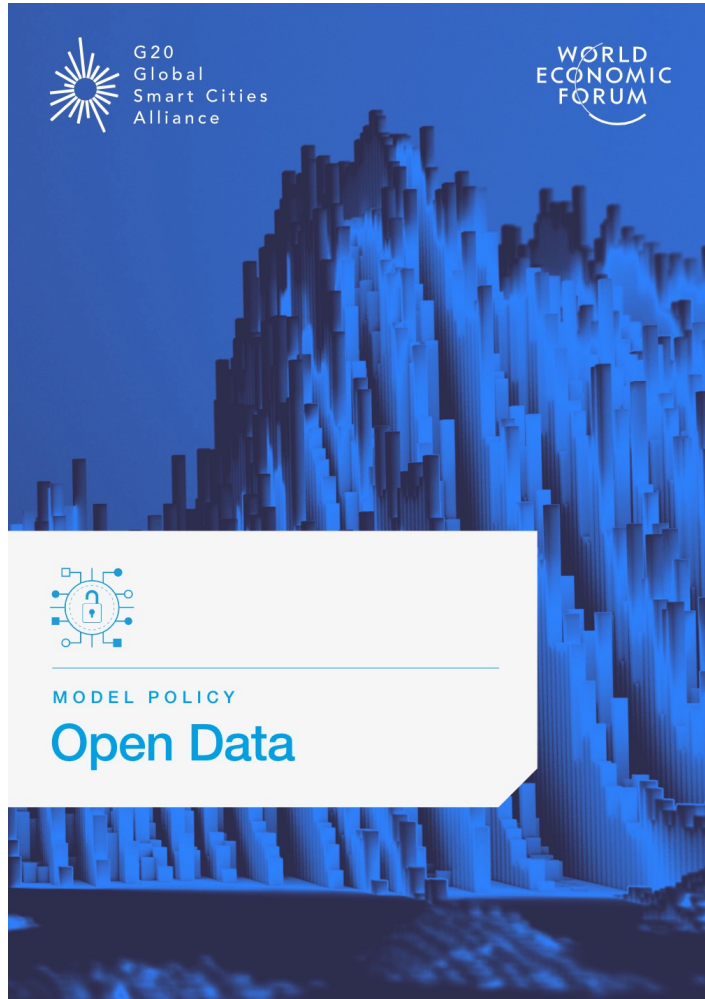
## Global Policy Roadmap for Successful, Ethical, Smart Cities

A global effort to advance the responsible and ethical use of smart city technologies

[Learn more](#)



# Example policy – open data



## Model Policy

1. Fundamentals of Open Data
2. Wider City Technology Policy, Strategy and Initiatives
3. Governance and Process for Accountability and Compliance
4. Ecosystem Creation for Trust and Value Creation
5. Relationships with Principal Data Stakeholders
6. Technical Measures
7. Platform and Data Infrastructure Definitions

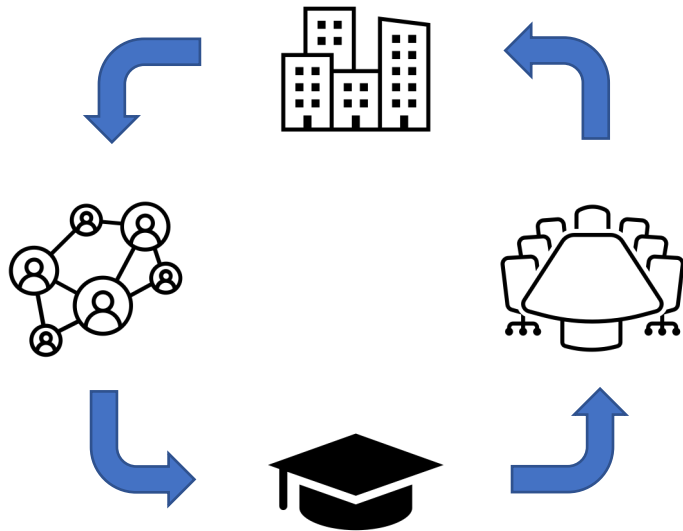


**Further  
guidance and  
resources**

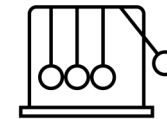
# Developing the model

## Collaboration

(cities, industry, academia,  
civil society)



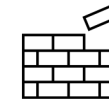
## Impact



short-term **practical**  
long-term **knowledge enrichment**



governance and policy



data skills



urban challenges

# Initial workshop participants

Porto

Dubai

Rotterdam

Singapore

Tampere

Milan

Al Ula (KSA)

Riyadh

Indore



DIGITAL TWIN  
HUB



**CATAPULT**  
Connected Places

Melissa Zanocco

Mark Enzer

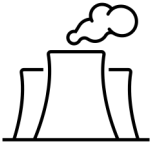
Yalena Coleman



# We want(ed) to focus on city needs



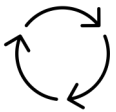
**Net zero**



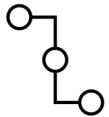
**Climate resilience**



**Infrastructure equity**



**Circular economy**



**Better, connected services**



**Place-based decision making**





# What did we ask them?

‘Current state’ experiences and knowledge

Insights on possible future adoption of digital twin technologies

To gauge appetite for (involvement in) a model policy to encourage adoption of digital twins for cities



# Potential further work based on city needs



Digital infrastructure investment



Awareness and education



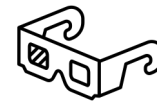
Data sharing and interoperability



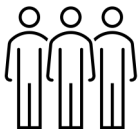
Candidate pilot projects



Collaboration and partnerships



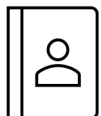
Regulatory framework



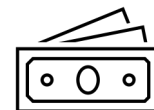
Community engagement



Long-term strategy



Skills needs and development



Financial incentives and funding



# Potential further work based on city needs



Digital infrastructure investment



Awareness and education



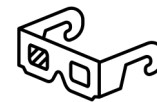
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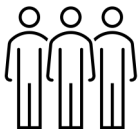
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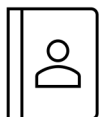
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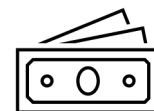
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Long-term strategy



Skills needs and development



Financial incentives and funding

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# Thank you



[www.globalsmartcitiesalliance.org](http://www.globalsmartcitiesalliance.org)