

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

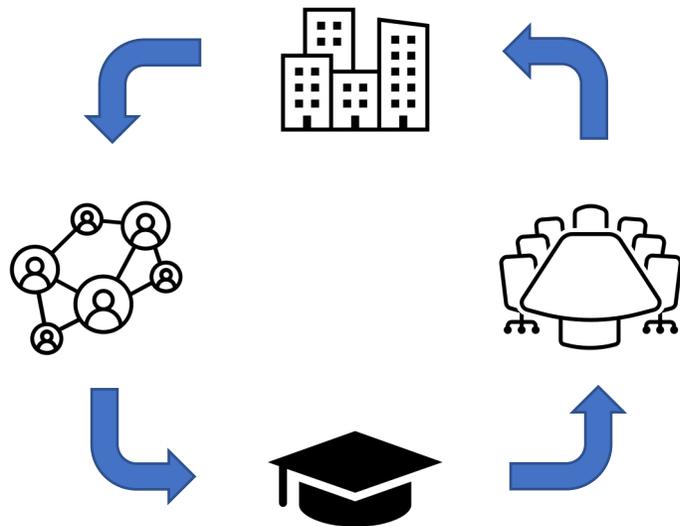


**Further
guidance and
resources**

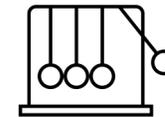
Developing the model

Collaboration

(cities, industry, academia,
civil society)



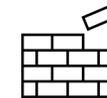
Impact



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

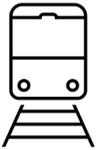
We want(ed) to focus on city needs



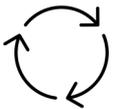
Net zero



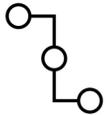
Climate resilience



Infrastructure equity



Circular economy



Better, connected services



Place-based decision making



What did we ask them?

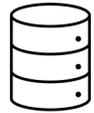
‘Current state’ experiences and knowledge

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



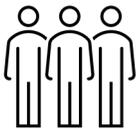
Candidate pilot projects



Collaboration and partnerships



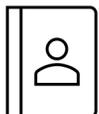
Regulatory framework



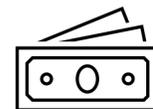
Community engagement



Long-term strategy

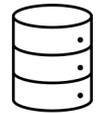


Skills needs and development



Financial incentives and funding

Potential further work based on city needs



Digital infrastructure investment



Awareness and education



Data sharing and interoperability



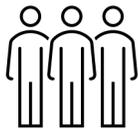
Candidate pilot projects



Collaboration and partnerships



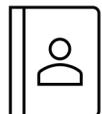
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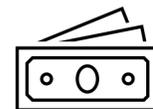
Community engagement



Long-term strategy



Skills needs and development



Financial incentives and funding

Thank you



www.globalsmartcitiesalliance.org