

# SMART CITIES - PROGRESS

An aerial photograph of a city, likely Hong Kong, showing a dense urban landscape with numerous high-rise buildings. In the foreground, several large construction cranes are visible, indicating ongoing development. A wide river or harbor is visible on the right side of the image, with several boats and ships. The sky is overcast with soft, diffused light. The text 'SMART CITIES - PROGRESS' is overlaid in the center in a large, white, sans-serif font.

# Scottish Cities Alliance



- Formed within Agenda for Cities, December 2011
- City Investment Plans agreed in 2014 - £6bn
- Glasgow City Deal agreed 2014 - £1.3bn
- Investment Prospectus – March 2015
- 7 cities vision – May 2015
- Operational Plan
  - *Infrastructure*
  - *Investment*
  - *Low Carbon*
  - *Smart Cities*
- Promoting Investment in Scottish Cities

# SCA Smart Cities

- National Future Cities Demonstration Manager
- SCA smart cities workstream, roadmap and self assessment process.
- Application for £10m (£1.8m to H&I ring fenced) to support SCA smart cities 2014-2020.
- ‘Phase 1’ Strategic application submitted 10th March 2015.
- PMO established by GCC (funded by SCA).
- Phase 2 ‘Operations’ applications in progress.

# Smart Cities: Key Dimensions

STRATEGIC  
INTENT

TECHNOLOGY

CITIZEN & BUSINESS  
ENGAGEMENT



DATA

GOVERNANCE &  
SERVICE DELIVERY

“The integration of data and digital technologies into a strategic approach to sustainability, citizen well-being and economic development”

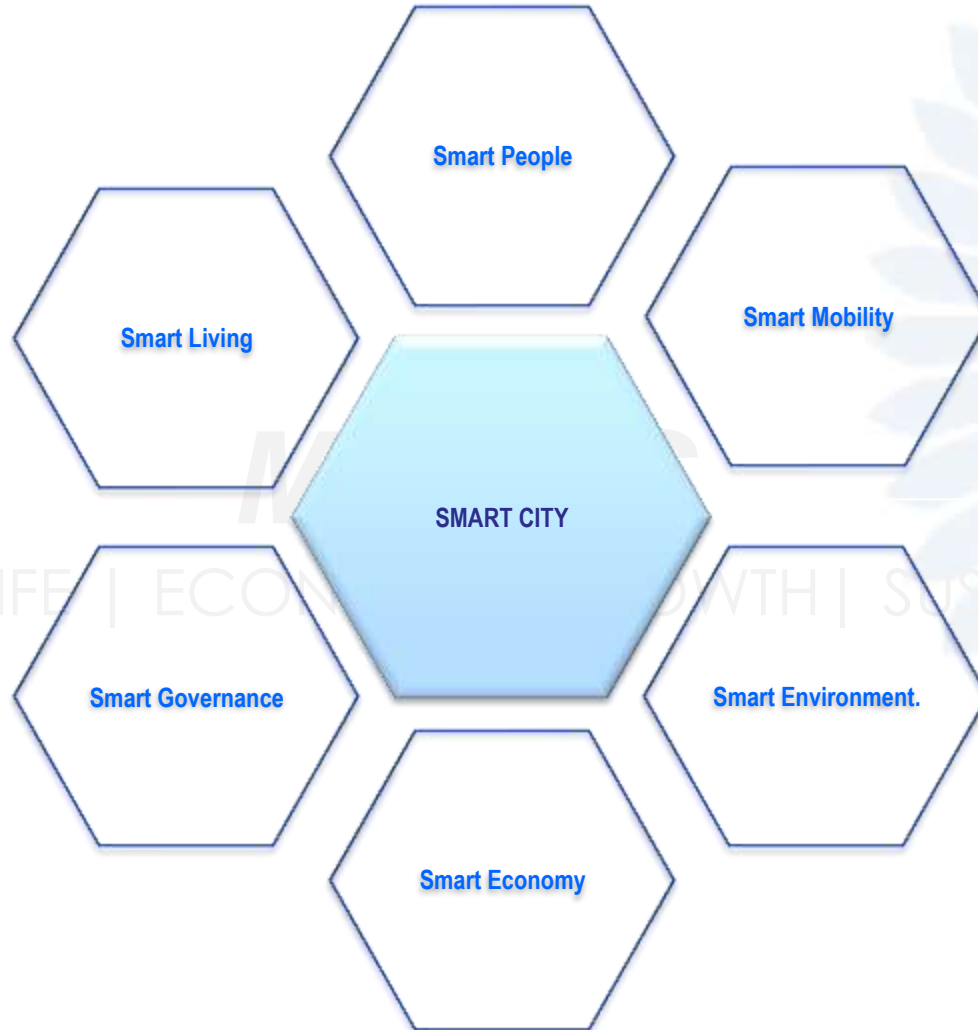
Quality of Life – Economic Growth - Sustainability

# INTEGRATION

Integration of «infrastructure», «citizen» and «administration»

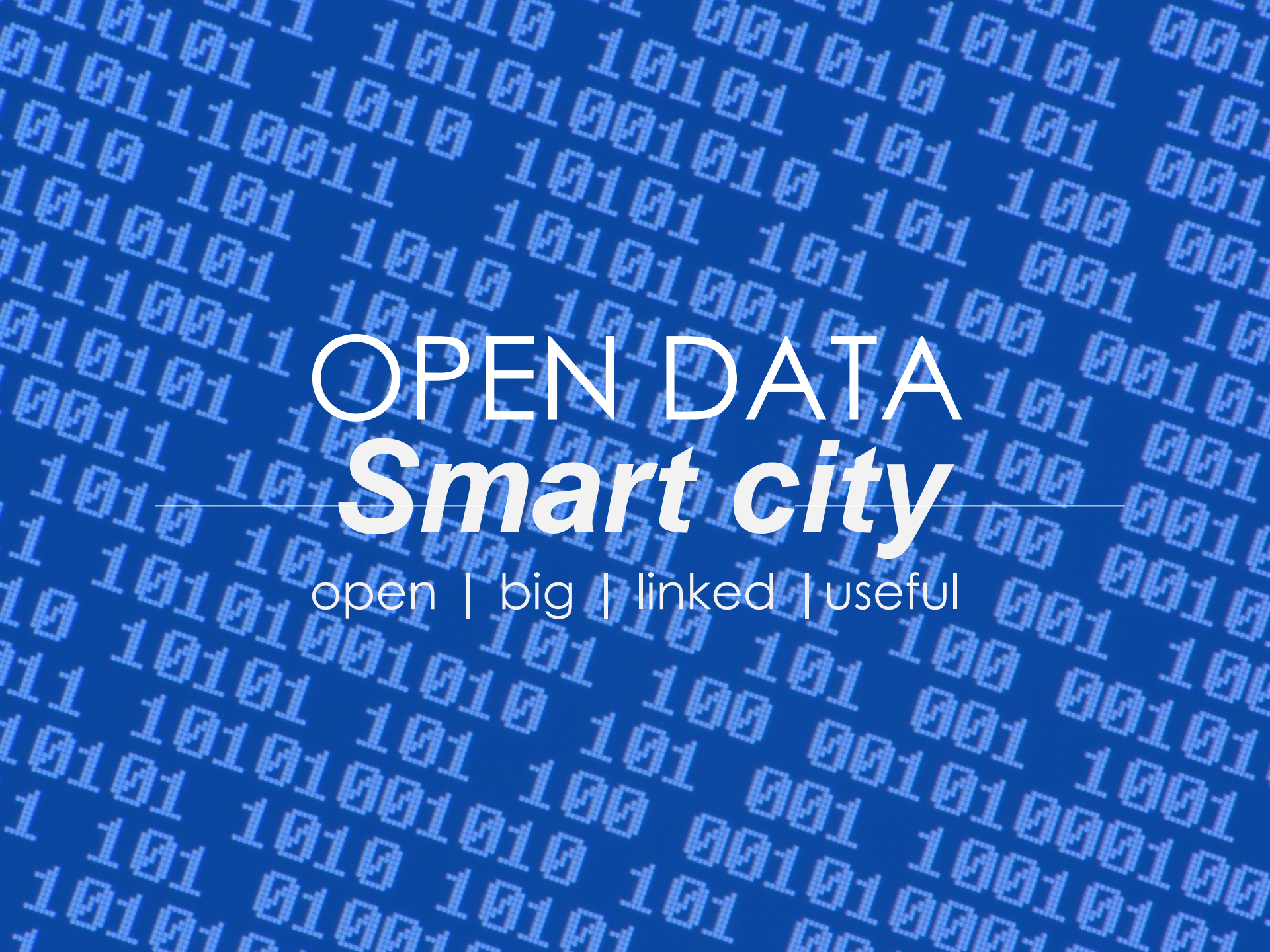


# INTEGRATION



QUALITY OF LIFE | ECONOMIC GROWTH | SUSTAINABILITY





# OPEN DATA

## *Smart city*

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open | big | linked | useful

# OPEN DATA



Open data is helping policy-makers and politicians respond to complex questions



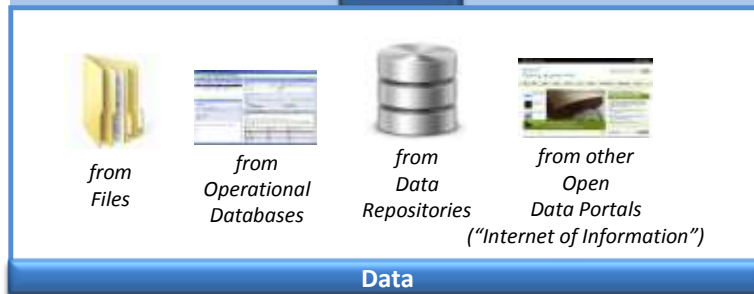


# OPEN DATA

## Data Platform & Web Portals



### City Technology Platform



# Open data Glasgow



OPEN Glasgow | Open Da x Outlook.com - grahampin x Graham

open.glasgow.gov.uk/datastories/opendatafuellingsustainability/

OPEN GLASGOW PRODUCTS EXPLORE

## Sites for renewable technology are now mapped!

OPEN Glasgow has used Open data to develop a renewable energy map to help you achieve this goal. It shows vacant and derelict land across the city and assesses the policy and technical constraints of each site. These locations are then rated on a scale from 'sensitive and unlikely' to 'possible and favourable' for future development of green energy projects. Communities and individuals who are planning to invest in solar photovoltaic panels can use this data to target potential sites as well as to make stronger funding applications.

Map labels: M8, ROYSTON RD, Royston, Riddrie, MOTORWAY, GARTLOCH RD, BELLROCK S, Cranhill, EDINBURGH RD, FRONZARD RD.

Search the web and Windows

6:57 AM 9/15/2015

# Open data Glasgow



PERTH &  
KINROSS  
COUNCIL

The screenshot shows a web browser window with the following elements:

- Browser Tabs:** "Energy App - Glasgow Fut...", "Outlook.com - graham...", and "Graham".
- Address Bar:** "https://www.glasgowenergyapp.org".
- Website Content:**
  - A large yellow plug icon centered over a background image of a river and buildings.
  - The text "Energy App" in a large, yellow, sans-serif font.
  - A text box containing the message: "This state of the art app explores building energy use across Glasgow. You can rate how your building performs against benchmarks and discover how to save money. Start using the latest technology in this area. Be part of the City of the Future!"
- Windows Taskbar:** Shows the Start button, search bar ("Search the web and Windows"), and icons for Edge, Mail, Photos, YouTube, Chrome, and other applications. The system tray shows the time as 6:55 AM on 9/15/2015.

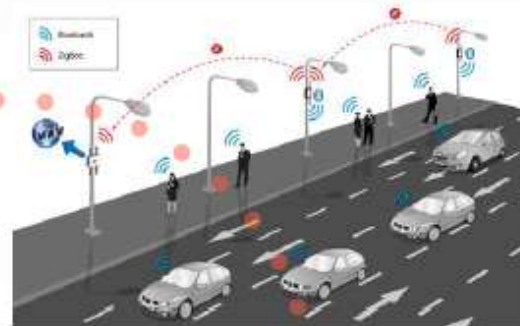
# INTERNET OF THINGS

## Everything connected

Connected  
Single  
Devices




Connected  
Network




Connected  
City




# Smart and sustainable cities




•A **sustainable city** will use less resources and produce less waste than a unsustainable city. This concept can be built into the design of cities and buildings



•A **smart city** will make intensive use of ICT to enhance energy efficiency, maximise the integration and use of renewables and ensure smart and sustainable urban transport.



•A **resilient city** reduces vulnerability to extreme events and responds creatively to economic, social and environmental change in order to increase their long-term sustainability.



# Discussion

- Is the smart and sustainable cities agenda being integrated?
- Is this focus on cities helpful or not?
- Are we exploiting the opportunities of data and technology to improve our services and cities?