Glasgow - a Collaborative Future

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Glasgow’s Smart City Journey

Future City Glasgow

Scotland’s 8th City - the Smart City

Smart Cities Scotland

a world class city, focused on economic growth and tackling poverty and inequality

www.glasgow.gov.uk
• In Glasgow we're exploring ways to harness the power of data and technology to make our city a better place to live, work and play.
• Leading to an ambitious programme to open up Glasgow like never before.
• So what is a Future City?
• People Make Glasgow.
Consolidated operations centre.
• Public space CCTV and traffic management sensors and cameras.
• Video Analytics (protection of assets, anti social behaviour, missing person search).
• Event management.
• Protection against crime – data analytics.
• City operations, sensing the city, protecting the city, keep the city moving.
City Centre ‘Busyness’ Model

Process | Data | Digital | Design
• City energy model.
• Sensors and data to understand insulation success.
• Renewables mapping to support ground mounted solar PV.
• Demand side management – supporting grid balancing.
• Behavioural change – Gamified Engagement Tool (schools).
Public Safety

- Intelligent Street Lighting.
- Energy reduction using LED technology.
- Central Management System to Control Lights.
- Further energy savings.
- Use of air quality sensors (Internet of Things).
- Noise sensors (public safety).
- Footfall counters to monitor crowd levels and understand city needs.
• £10m ERDF Programme Funding – Value of Programme £24m

• 8th City vision:
  – “enable cities to become more attractive, liveable and resilient through the use of data and digital technology”

• Example Projects:
  - £2m Data Cluster – involving all seven Scottish Cities
  - £6m Intelligent Street Lighting – involving Aberdeen, Glasgow, Perth and Stirling
• Data Operation involves all seven Scottish Cities working collaboratively around Open Data
Scotland wide identity enables Scotland’s cities to access opportunities of scale for investment;

Dynamic market place for smart city projects and solutions in Scotland;

Promoting Scotland’s cities unique inter-city approach to developing Smart City solutions; and

Encourage and catalyse investment to build Scottish smart cities that can support increased business productivity.
ROTTERDAM . UMEÅ . GLASGOW:
Generating Exemplar Demonstrations in Sustainable Energy Deployment
BRNO . PARMA . GDANSK
So why do we need smart technology to help manage our cities?
Smart City Operations – Vision of the Future

- Location tracked, route optimised, driver behaviour monitored, energy efficient vehicles.
- Data used to support infrastructure (EV Charging Points).
- Mobile working.
- Tagged, managed and connected assets.
- Sensors to manage waste, parking, flooding, buildings, air quality, public safety, health and wellbeing.
- Data to support operational transformation and to develop policy.
- Citizen engagement and empowerment using technology as an enabler.
Future City Glasgow
Return on investment
Innovate UK
Smart City - References

- http://futurecity.glasgow.gov.uk/