

Smart City Bristol



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BRISTOL
2015 EUROPEAN
GREEN CAPITAL

Bristol Futures

Jon Brookes, City Innovation Team

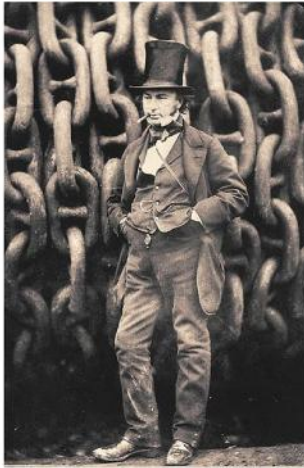
Slide 1



- I. Introduction to Bristol**
- II. Smart City Programme**
- III. Smart energy –Barriers and Lessons learned**
- IV. Bristol is Open – Creating a ‘Programmable’ City**
- V. Bristol Energy Company**
- VI. Q & A**



Bristol?

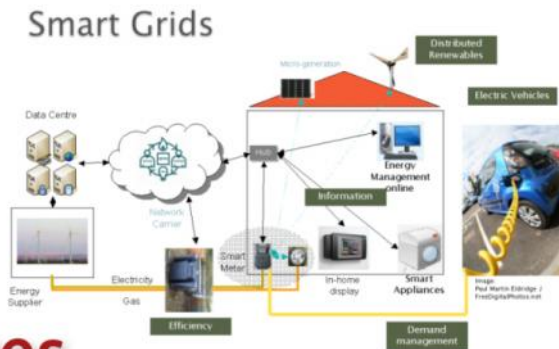


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Smart Energy Portfolio

- **Smart Metering:**
3eHouses
- **Smart Grid:** So La
Bristol
- **Smart Spaces:**
reducing energy demand in
public buildings using ICT
- **STEEP:** smart energy
master planning



SYSTEMS THINKING FOR
COMPREHENSIVE CITY
EFFICIENT ENERGY PLANNING



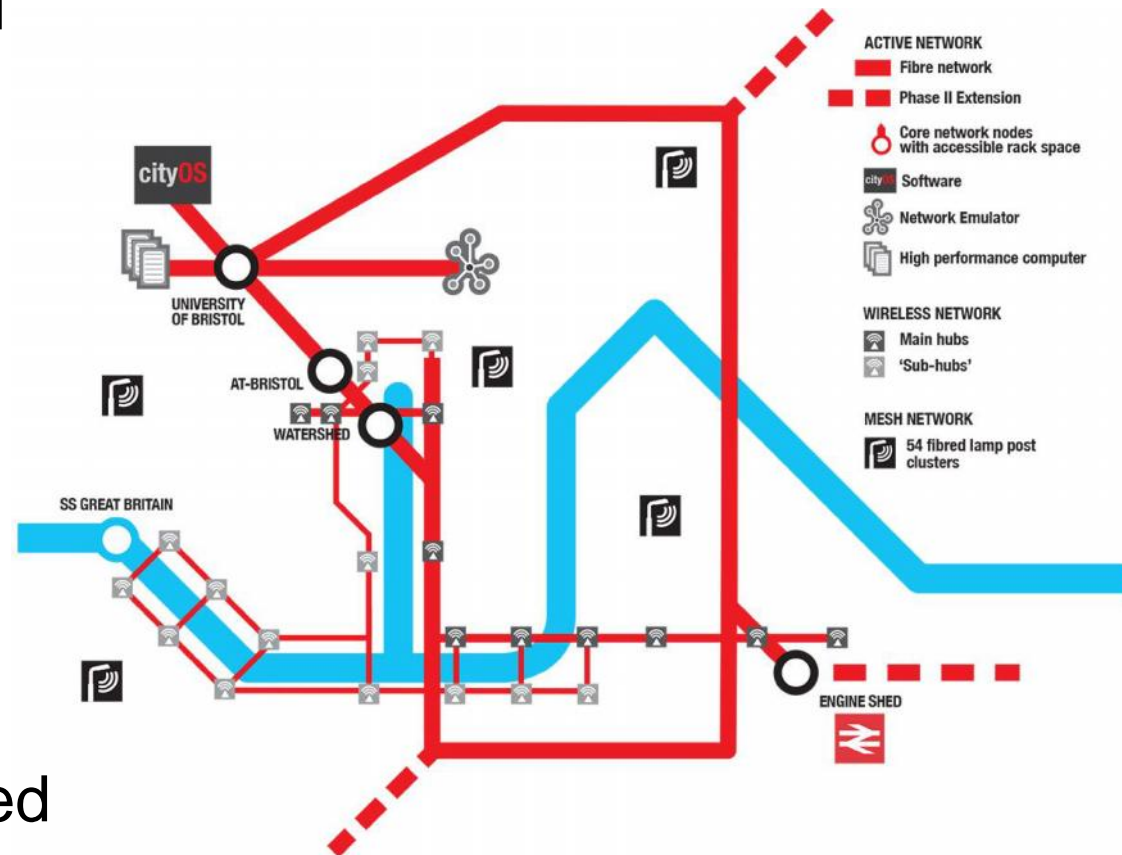
Smart energy innovation –Barriers and Lessons learned

- Stakeholder identification–Balance between levels of engagement and potential benefit
- Securing buy-in of other internal services
- Complex and fragmented service organisation – the authority has no control over utilities/transport networks etc.
- Complementarity / integration of technology
- Use of intermediary to support end-users
- Collaborative and co-determination approach – ‘Prosumers’ rather than users
- Must have effective legacy plan

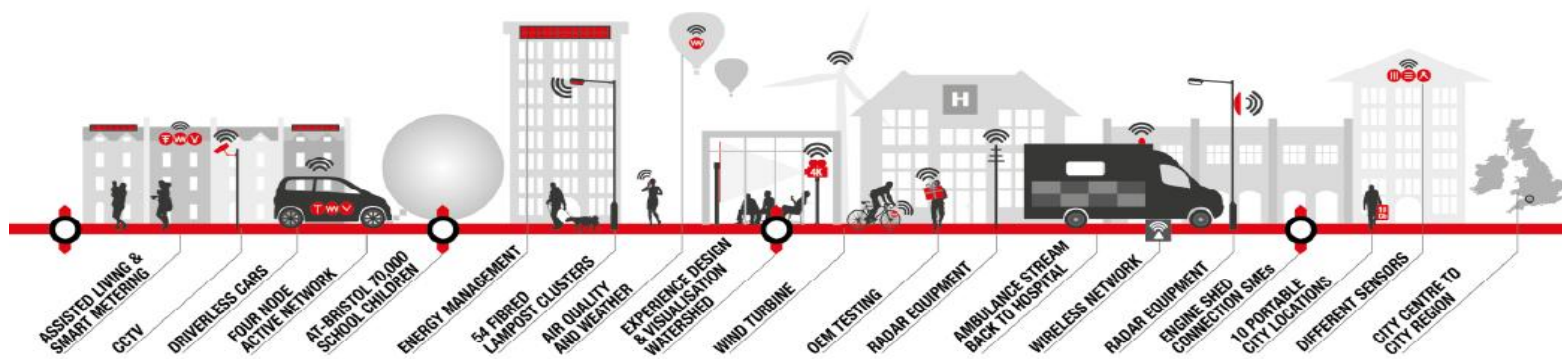
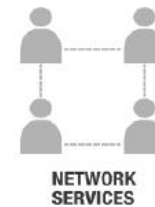


Bristol is Open – Creating a ‘Programmable’ City

- £75m city-scale test-bed
- 3 networks
 - active
 - wireless
 - mesh sensor canopy
- Working together
 - academics
 - business
 - service delivery
 - community organisations
- An open ‘software defined network’



- The test-bed will be used for IoT purposes to test a variety of applications and their interface with the network
- Supports sensor development
- Aims to create a fully 'smart' city network for data



bristolenergy

- Creation of a fully licensed, publically owned ESCO (Not just a white-label)
- Ready to trade in 2016
- Aspirations for customers homes to be 'Smart from the start'
- Specifically targeting victims of 'Fuel Poverty'
- Lessons from other energy projects informing our approach to smart meter roll-out
- One aspect of a strategy to become a city with a truly 'smart energy system'
- How can we aggregate services, sustain local-generation and engage in 'power-matching'
- E.g Groningen



Thank you
Grazie Mille

Any questions?

