Creating Smarter Cities through Co-design

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Background in Smart Cities

• Worked for Bristol City Council for 12 years alongside academic & consultancy work
• Developed Smart City Bristol Programme (2011-14)
• Now work freelance on smart city & sustainability projects
• Open University Associate Lecturer & writing MOOC for MK:Smart
What are Smart Cities?

• Terminology
• Smart cities – role of ICT in addressing city challenges and opportunities
• Technology the ‘enabler’
• Different models
  ➢ Top-down – city government, business
  ➢ Bottom-up – citizen, SME led
  ➢ Efficient versus fun
Smart Citizens

• What is the role of citizens in a smart city?
  ➢ Consumers
  ➢ Producers
  ➢ Test-bed participants
  ➢ Active citizenship
  ➢ Collaborators
  ➢ Co-designers
Co-design in Smart Cities

• Working with people to co-design innovative solutions
• Bring people together through living labs
• Communities of interest e.g. citizens, government, local authorities, business, academics, NGOs, communities...
• Cities learning, networking and innovating
Smart City Bristol

- Smart City Report (2011)
- Key themes:
  - Smart energy
  - Smart transport
  - Smart data
- Public-Private-People Partnership
- £3m Future City Demonstrator: open data, business model, partnership/governance, city living lab & sensor mesh network
Key elements of a Smart City

✓ Strong city leadership
✓ Define smart city aims & outcomes
✓ Partnership model
✓ Involvement of citizens
✓ Creating space for innovation
✓ Business model & finance
Strong Leadership

- Political & managerial leadership from a range of organisations
- Set ambitious goals and support delivery of those

- Bristol made it a priority to be a green/digital city
- Strong political support & partnership working over many years
Smart City Aims & Outcomes

- Remember technology is the enabler
- What is the issue you need to solve and what would be a good outcome?

- Smart City Bristol - innovative use of digital technologies & connectivity to meet city challenges and opportunities
- Focus on sustainability outcomes e.g. environmental, social and economic
Partnership Model

➢ Partnership working - city challenges can’t be overcome alone
➢ Engage broad range of stakeholders
➢ Avoid getting tied into proprietary solutions
➢ Learn from other cities

❖ Bristol Public-Private-People Partnership
❖ Integrated approach & open to conversations
Involvement of Citizens

- People in cities far outweigh the current decision makers, how do you engage them?
- How do you engage young people in future city planning?

- Bristol takes ‘co-design approach’ through a Living Lab
- Work with organisations with experience of community engagement
- Build trust and think about the language you use
Create Space for Innovation

- Bring together different partners
- Provide investment
- Encourage large companies to work with SMEs and communities
- Take and share risks – not everything will work or how you thought it might!

- Bristol: Living lab, SME incubators & support programmes, competitions, hackathons, art & culture projects etc.
Business Model & Finance

- Need to scale up from pilot projects to city wide approach
- Need to move from short term funding to sustainable citywide programme
- Understand public procurement

- Bristol exploring other city’s business models, investment & revenue streams
- Enable SMEs to access public procurement
Junior Digital Producers

http://kwmc.org.uk/projects/curatingactivism/
The Basics

Here are all the things you will need to get started with your data project.
Data Patchwork

STRENGTHENING THE FABRIC OF OUR COMMUNITY BY BRINGING INFORMATION TO LIFE

Top 3 barriers to Dream Jobs are:

- Other
- Age
- Busy

WHAT DOES KNOWLE WEST THINK IS THE HEALTHIEST BREAKFAST?

16% OF PEOPLE SAID SUPERMARKET
11% OF PEOPLE SAID ART
10% OF PEOPLE SAID SHOPS

24% OF PEOPLE HATE
Cardboard Living Room
The Super Knowle

Total Spent: £22588

People Want: Fruit, Other, Fairtrade

People Shop At: Tesco, Asda, Sainsbury's

Yes to Supermarket: 89
No to Supermarket: 11
"This exciting project will not only directly benefit Milton Keynes, but will also demonstrate ways forward for other cities right around the world."

- Martin Bean, Vice-Chancellor, The Open University

http://www.mksmart.org/
Education

• MK:Smart: an integrated innovation and support programme leveraging large-scale city data to drive economic development

• Education Programme
  - Professional development programme
  - Schools programme
  - MOOC
Smart Cities MOOC

• Massive Open Online Course
• >50,000 students on similar courses
• Interactive and open learning
Developing course content:

– What are smart cities, leadership & governance, technology & data, citizens, business & enterprise, city case studies, metrics....

What would you like to see?

Ideas to l.e.hudson@open.ac.uk
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Thank you for listening

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