

Smart City Priorities Workshop

7 December 2017

At the beginning of December Krassi Paskaleva hosted a discussion between members of the Manchester Institute of Innovation Research engaged in different ways in research related to the 'smart city', and colleagues from across the University who are involved in similar agendas. The purpose of the meeting was to link up MIOIR research activity with that happening elsewhere, and to investigate opportunities to pursue joint activities.

A number of areas of mutual interest emerged, and some ideas for future activity. An overview of participants' presentations is also included below.

Interests:

- Ongoing involvement in pan-University projects such as City Verve and Trangulum
- Questions of governance
- Smartness vs sustainability
- Smart or 'wise' cities
- The impact of 'smartness' and AI on the future of the economy and the workplace
- Innovation ecosystem in the smart city
- The triple/quadruple helix – the roles of different partnerships and actors in developing the smart city
- Urban living labs
- Relationships between the state and the citizen

Future opportunities

- Collate overview of UoM activity on Smart Cities in to a Policy@Manchester 'On Smart Cities' document to showcase breadth of research in the area (Laura Dawson to discuss with P@M)
- MIOIR colleagues to link in with other groups, in particular MUI
- Investigate option to contribute to upcoming Triple Helix Conference in Manchester in September 2018
- Mixed views on the value of a 'roadmap' for Smart City research, but acknowledgement that a consistent overview of the direction of research in this area is useful for communication with policy stakeholders
- Keep communication channels open – potential for future joint research bids etc; important to tap in to already existing cross-university networks looking at these activities.

Participants' presentations

- **Participants:** Krassi Paskaleva, John Rigby, Dimitri Gagliardi, Lisa Dale-Clough, Laura Dawson, Mokter Hossein, Maria Karaulova, Kate Barker, Denis Loveridge, Barbara Jones (MIOIR); Joe Ravetz (SEED), James Evans (SEED/MUI), Dave Carter (SEED), Andrew James, Shanta Aphale (Faculty of Humanities), Caroline Jay (School of Computer Science), Ann Gledson (School of Computer Science), Mark Hudson (MIOIR/SCI)
 - **Apologies:** Jakob Edler (MIOIR), John Keane (School of Computer Science), Carmel Dickinson (Informatics Institute), Ettore Burabito (Data Lead Triangulum Manchester), Kevin Ward (MUI), Richard Kingston (SEED)
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Krassi Paskaleva

- Focus on research about smart city at University; Building horizontal links and possibility to work together
 - Previously we gathered to meet and discuss teaching activities
 - 10 people are working on smart city related research at MIOIR, some have long time experience in the area of innovation eco-system, service innovation, governance, evaluation
 - Now is time to build relationships and capacity on smart city at the university
 - People working on innovation, urban planning, environment, governance, business engagement, computer science, data science, and informatics are present at workshop
 - Meeting with technology colleagues in a following stage
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James Evans

- City change, carbon
 - Thousands of successful projects but still we have many problems in the smart city; Digital divide is an example of city problem
 - Partnership working, how university can work, innovative quadruple helix approach, knowledge exchange, development.
 - More creativity how we work with partners
 - Smart and sustainability
 - Discuss those issues in the global south – research fund, global urbanization, etc. Cities like Dakar
 - Learning, different practices drive, role of scientific evidence, making them more clear
 - Sustainable, ecological knowledge, different groups they empower, make more sustainable to live
 - Smart city is a way to make city sustainable
 - EU has emphasized and UK is catching up on it
 - Innovation platforms, urban living labs
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Joe Ravetz

- Between tech, robot,
- There was a belief that Robot would take our jobs; 15 million jobs will go by 2030;
- Geek economy
- Five part-time jobs done a single person, not productive
- Public policy debate to provide interesting and sustainable approach for city
- Trying to frame a project
- Digital labs, three d printing
- Get some grants, trying to have project by October
- Small project – collecting intelligent access
- Analogue system (Model I)

- Transaction view
 - Factor view
 - System view
 - Smart system (Model II) (business model, profit flow)
 - Transaction view
 - Factor view
 - System view
 - Wiser system (Model III)
 - Clever, smart, wise services
 - Value and policy change
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Dimitri Gagliardi

- Role of ICT in city engagement
 - Action research
 - ICT and relationship between states and citizens
 - Employability and employment cases
 - Crowdsourcing and crowdfunding platforms
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Caroline Jay (School of Computer Science)

- **Britain breathing**
 - People to monitor their own health
 - Produce map to see how allergies areas
 - Crowdsourcing
 - Involving people is great
 - **CityVerve project**
 - Smart inhaler and instrumented homes
 - COPD friendly app
 - Facilities
 - Weather
 - Pollution
 - Crowdsourcing information about the above issues
 - Data about symptom and the living environment
 - Taking this to other countries – see if it can be transferred and see the differences between countries such as Britain, Brazil and China.
 - People need to know how technology works
 - How to breakdown interference so that tech- and non-tech people can engage in such an initiative
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Lisa Dale-Clough (MIOIR)

CityVerve

- Smart city governance, smart city public and smart city innovation
 - KPIs to define SmartCity
 - Governance model of SmartCity
 - Public-private partnership approach
 - Social justice and inequality
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Mark Hudson (MIOIR/SCI)

Manchester city agreed to have a dashboard on environment and then they have not done it

- Social justice and inequality
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Ettore Burabito (Triangulum) (contribution provided to Krassi for the workshop)

- Cities need open data city platforms and enable the citizens to use data to create new value and to improve urban service
- Issues of data quality, accessibility and data usage
- Readiness of local administrations is key.