



The Programmable City progcity.maynoothuniversity.ie



Social Sciences Institute

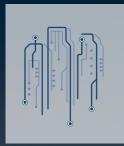






The Programmable City

- European Research Council (ERC) and Science Foundation of Ireland (SFI) funded
 - 2013-2018
 - SH3: Environment and Society
 - Based at the Maynooth University Social Sciences Institute

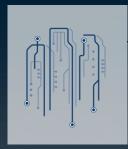


Team



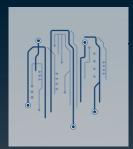
Geography, Geomatics, Sociology, STS, Anthropology, Philosophy, Business Studies, Computer Science

Main cases: Dublin, Boston. Also UK, Canada, Germany, Netherlands, Italy



Initial Programmable City questions





Investigating the relationship between networked digital technologies and infrastructures + urban management/governance and city life

Smart urbanism and the production of smart cities





























Build smart city tech

- + real-time information
- + interactive maps/graphs
- + location-based services
- + indicator trends
- + open and big data
- + city reporting

www.dublindashboard.ie

@dublindashboard

Building City Dashboards project SFI funded 2016-2020 @dashbuild





About DublinDashboard









Dublin Overview

How's Dublin Doing?

Dublin RealTime







Dublin Mapped

Dublin Planning

Dublin Near To Me







Dublin Housing

Dublin Reporting



Dublin Apps

Dublin Bay Dashboard

Dublin Social (Coming Soon)

Dublin Data Stores



Outputs

- 7 books; 3 more in progress; journal special issue
- A report for the Data Forum of the Dept of Taoiseach
- 29 academic papers; others in progress
- 29 book chapters
- 15 other publications
- 10 workshops and 25 seminars/panel discussions organized (with 131 online videos)
- 115 invited talks, 85 conference presentations, 35 panel participation
- >60 media citations (tv/radio/newspaper)
- Archive of data
- Fulbright, IRC-Ulysses, IRC, SFI awards
- A number of team members have progressed to other academic posts around the world (Australia, Belgium, Canada, England, Ireland, Taiwan, Wales)
- See http://progcity.maynoothuniversity.ie/

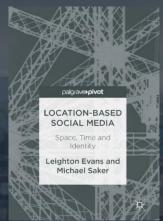






















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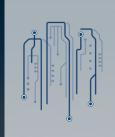






Summary of research

- Nature and genealogy of urban governance in smart cities
- Intersection with political economy neoliberalism
- Forms of governmentality
- Key actors and mobility of policy: technocrats, epistemic communities and advocacy coalitions
- Comparison of places
- Scalar and stakeholder issues
- Adoption gap issues



Key findings

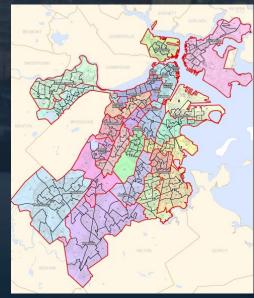
- Complex systems/places
- Momentum
- Trust
- Value for money and return on investment
- Competing demands and overloaded
- Procedural issues
- Inertia and resistance
- Weak staffing and skills capacity
- Fragmented and piecemeal approach



Scalar and stakeholder issues

- Fractured landscape
- With respect to geography
 - Back-to-back services and planning across municipalities
 - Scalar organisation local, county, regional, state, federal
 - Mismatch of functional territories and administrative geographies
- With respect to stakeholders
 - Within municipalities, across municipalities, with public sector agencies, industry, universities, NGOs, community organisations
 - Different goals, resources, practices, institutional structures, funding models
- Sub-optimal solutions/planning







Key lessons

- Cities are places, not simply system of systems
- Adoption gap is significant experimental urbanism
- Smart cities are as much about institutions, organization, administrative/scalar politics as they are technologies – there is no technical fix to addressing these issues
- Need to move past post-political framing of the smart city and unpack governmentalities and political economy
- Need to shift from technocratic governance to technological sovereignty

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- Kitchin, R. (2014) The real-time city? Big data and smart urbanism. *GeoJournal* 79(1): 1-14
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- Kitchin, R. (in press) Urban informatics, governmentality and an emerging logic of urban control. In Luque-Ayala, A. and Marvin, S. (eds) *Control Room: Nodes in the Networked City*. Routledge, London.



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