

# Smart Districts and Docklands Developments

Liam Heaphy  
@HeaphyLiam

Réka Pétercsák  
@RekaPetercsak





# Summary of research

- Collaboration between **Programmable City** and **Lero** (Maynooth University)
- Aiding the creation of a **stakeholder network** for the Dublin Docklands smart district



- Comparative angle on **South Boston Waterfront** and the **Cork Docklands**
- Understanding how smart districts trial **new urban technologies** as a form of smart urbanism



# Key findings

In Dublin, **two narratives** with differing outlooks

## “SILICON DOCKS”

- Silicon Valley, US-driven vision of urban development supporting innovation
- Technology driven with focus on disruption, and creative destruction

## “DUBLIN DOCKLANDS”

- emphasis on urban activation
- fostering of shared spaces for all communities

Stakeholders emphasised the need for a **vision, aligned timelines, and defined outcomes**. Clear **role of local government** of guidance and mediation



# Key lessons

- Developing and articulating a **sense of place** (urban activation, **integrated planning of social and hard infrastructures**)
- **Cohesion with planning strategies**, including local area plans and city development plans (multiscale, learning from DDDA, DCC CDP, NSS/NPF)
- Fostering a **sense of inclusion** from the start by **including all relevant stakeholders**
- Ensuring the **municipalisation of data**, following the datafication of the city

## Further reading

SmartIMPACT - <http://urbact.eu/smartimpact>

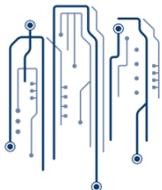
Heaphy, L., & Pétercsák, R. (2016). Building Smart City Partnerships in the 'Silicon Docks.' In *Creating Smart Cities*. Maynooth University, Ireland.

Retrieved from <http://progcity.maynoothuniversity.ie/2016/11/creating-smart-cities-workshop-videos-session-4/>

Ryazanova, O., Pétercsák, R., Heaphy, L., Connolly, N., & Donnellan, B. (2016). Perception of Value in Public-Private Ecosystems: transforming the Dublin Docklands through smart technologies. In *"IoT & Smart City Challenges and Applications"* – ISCA 2016 (pp. 1–10). Dublin. Retrieved from <http://iot-smartcities.lero.ie/isca-2016/>

Pétercsák, R., Maccani, G., Donnellan, B., Helfert, M., and Connolly, N. 2016. "Enabling Factors for Smart Cities: A Case Study," in *ICIS 2016 Research-in-Progress Papers*, Dublin, Ireland.

Heaphy, L. (2018). Interfaces and divisions in the Dublin Docklands "Smart District." SocArXiv. <https://doi.org/10.17605/OSF.IO/Z2AFC>



The Programmable City  
[progcity.maynoothuniversity.ie](http://progcity.maynoothuniversity.ie)



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**Social Sciences Institute**

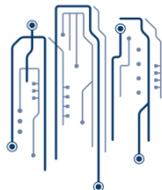


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# Work Environments

Leighton Evans



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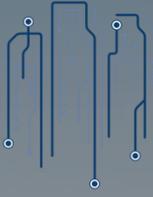
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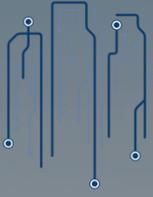
Science  
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# Summary of research

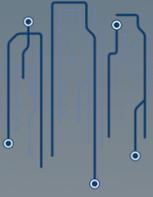
- This case study focused on the use of software, and its algorithms and models, in the work of individual workers
- The focus was on system users and how software shapes their work and workplace
- Interviews with workers and observations conducted in a typical workplace site: a large retail space.
- A nine-week period between September and November 2015 at a large retail store operating in Ireland.
- Examining in detail how software alters the tasks, forms, spaces and scales of work.





# Key findings

- Big data systems were extensively deployed across retail work and these software and hardware assemblages have a significant impact on operations
- The spaces and practices of retail are pervasively mediated through computation
- Big data has introduced a regime of control - management of labour is concerned with data capture and analysis.
- Management of work is automated, mediated, monitored and regulated by code and data that saturates all tasks and sites of labour.
- Even where managers are still directly involved, their work is directed by a series of auto-generated KPIs and data-reactive work processes

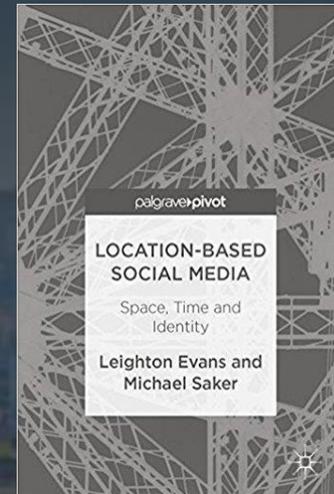


# Key lessons

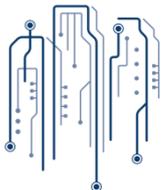
- The regime of control is **highly precarious and fallible**, open to vertical and horizontal fissures that disrupt the various operations vital to the functioning of a store.
  - Tasks can become data-satisfying rather than operations- or customer-focused;
  - Symbolic labour vital to customer satisfaction is largely ignored;
  - Systemic system and equipment failures continually disrupt operations.
- Thanks to this, retail work involves a continual movement between a regime of control that seeks to harness automation, and a disciplinary regime that deals with the symbolic and interactive labour that acts as a reserve mode of governmentality when control fails.

L.Evans@swansea.ac.uk  
@leightonevans

<http://www.swansea.ac.uk/staff/arts-and-humanities/academic/evans/>



Evans, L. & Kitchin, R. (2018). [A Smart Place to Work? Big Data Systems, Labour, Control and Modern Retail Stores](#). *New Technology, Work and Employment*, 33 (1), pp. 44-57.  
doi:10.1111/ntwe.12107



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