



# Commuting flows analysis & policy applications

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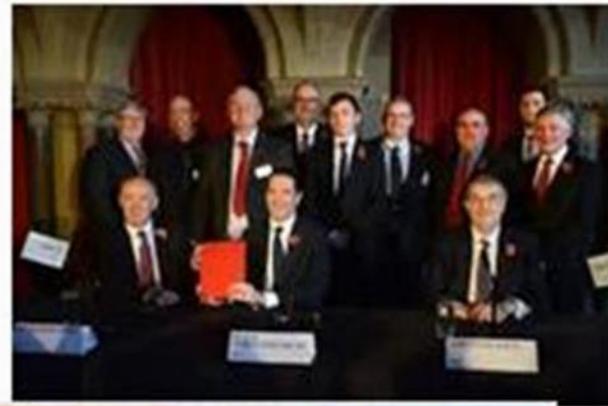
**Strategic spatial thinking of *functional* geographies**

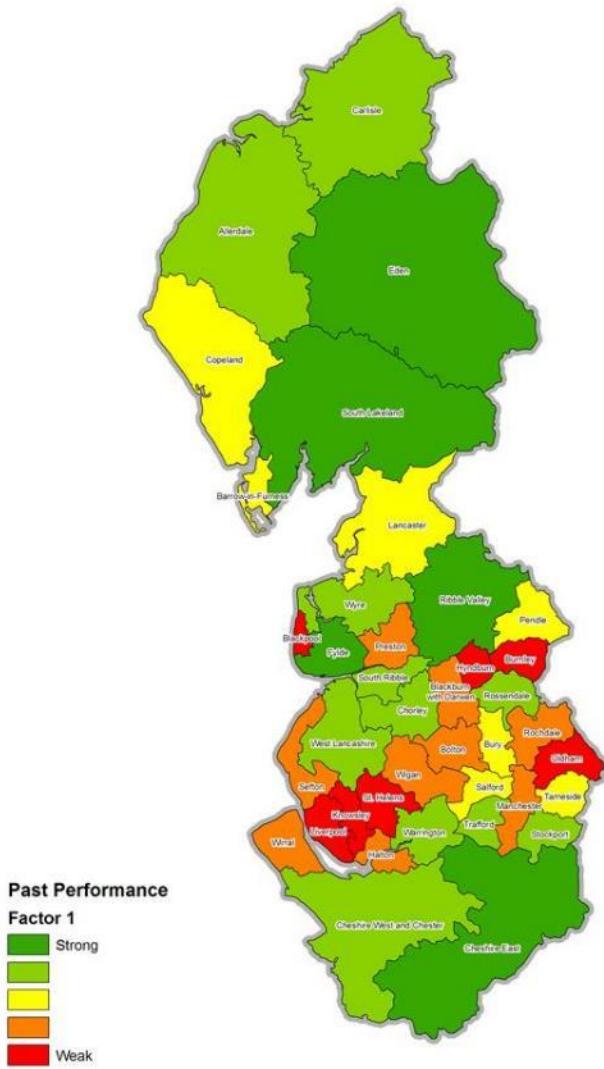
# A shift to city-regions



## Devo Manc

- Manchester (10 local authorities) is to get its own directly elected mayor
- with powers over transport, housing, planning and policing, and some control over business growth as well as health and social care budgets
- A total of £22 billion public spending





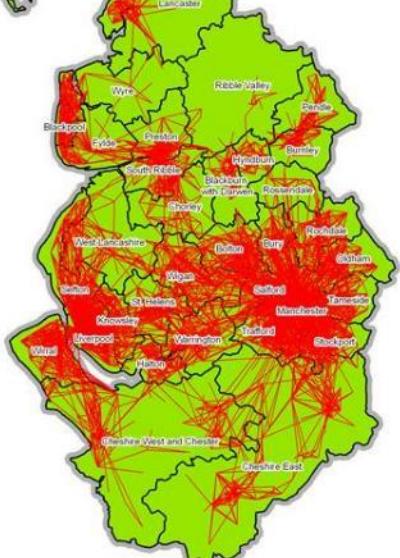
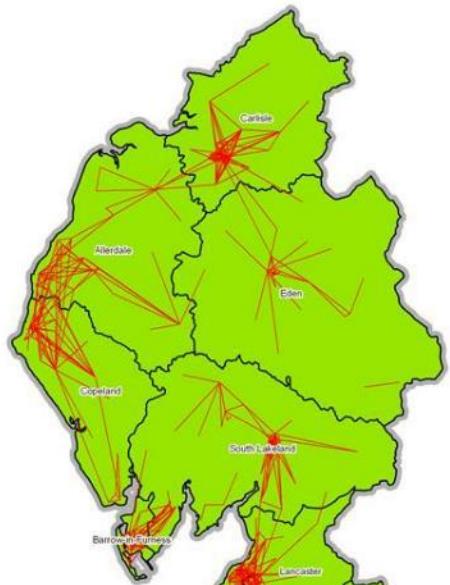
Established Performance since late 1980s



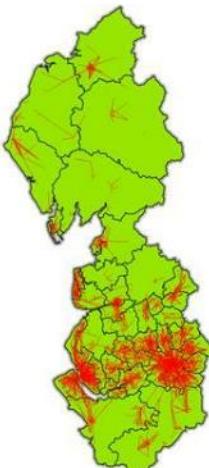
Labour Market & Productivity since late 1980s

**Night Time (Residence-based) vs Day Time (Workplace-based) Performance  
mediated by *Commuting***

# 2001 Census



Inter-Ward Flow of 50 or More



Inter-Ward Flow of 75 or More

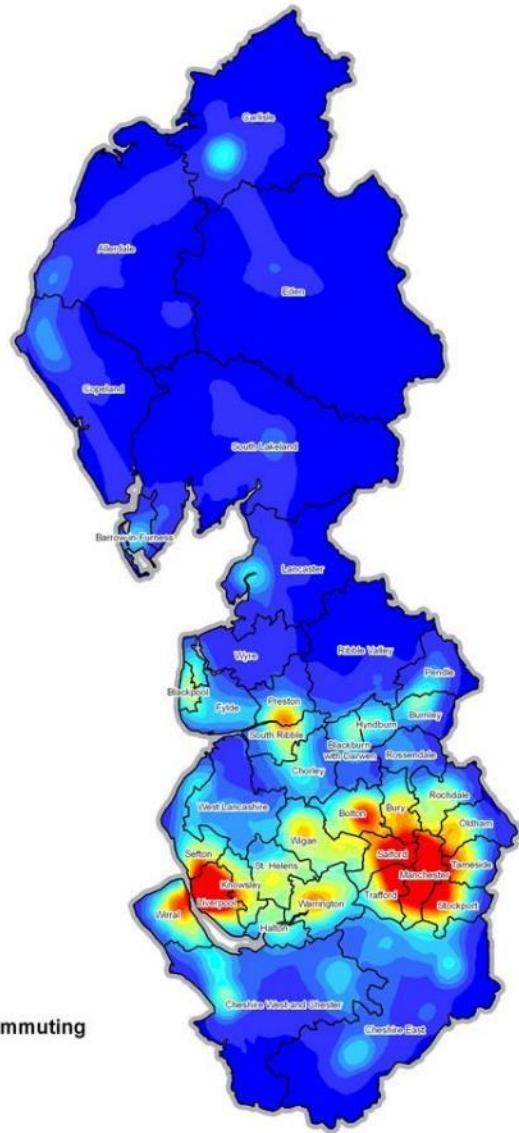


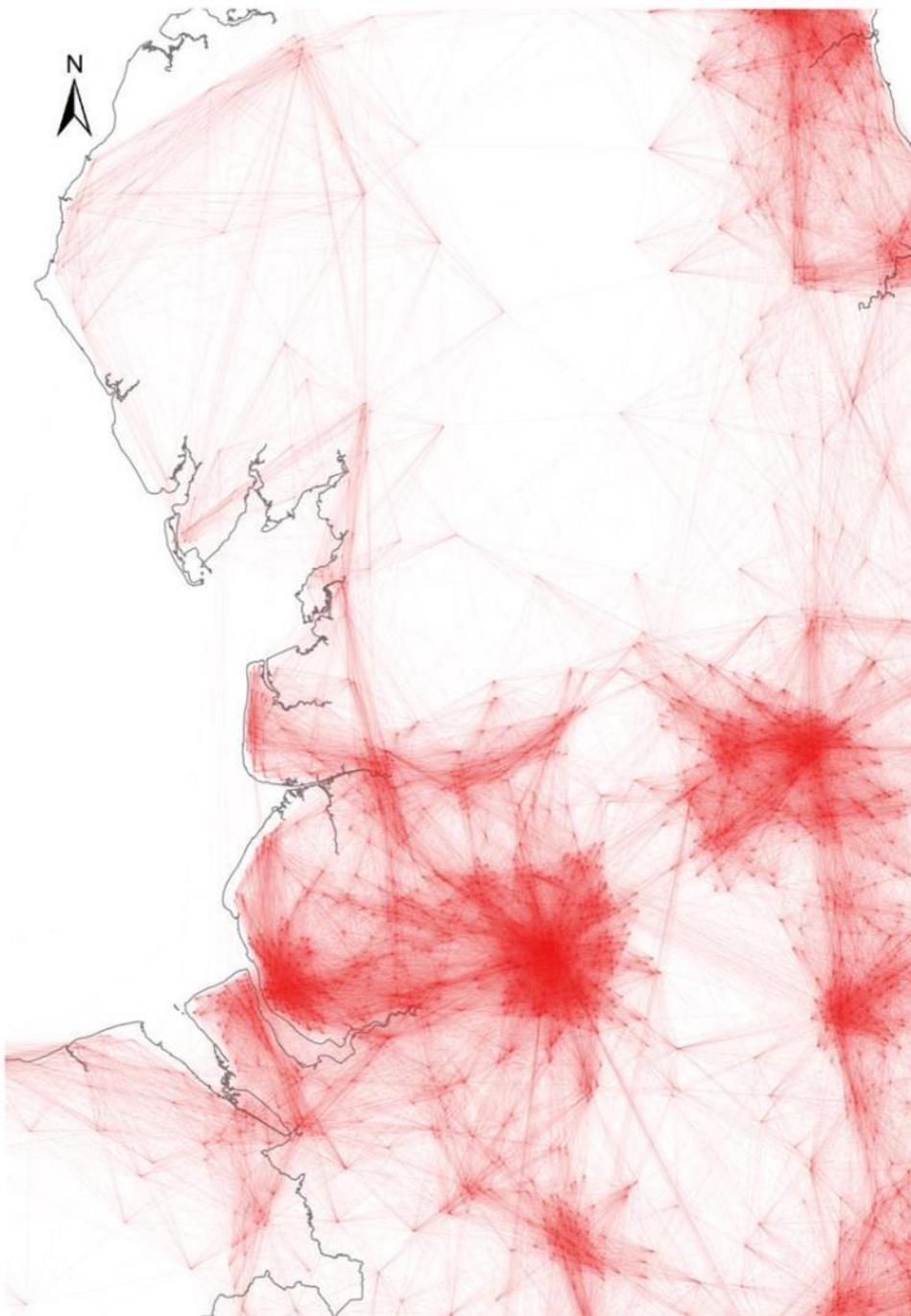
Inter-Ward Flow of 100 or More

Inter-Ward Commuting  
Intensity

High

Low



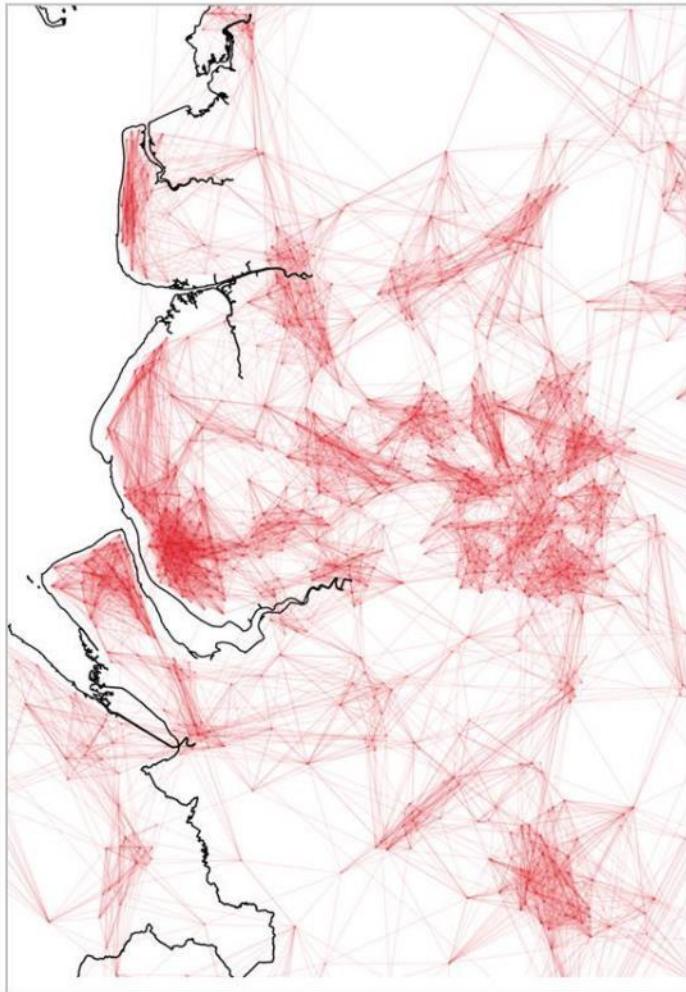


## 2011 Census

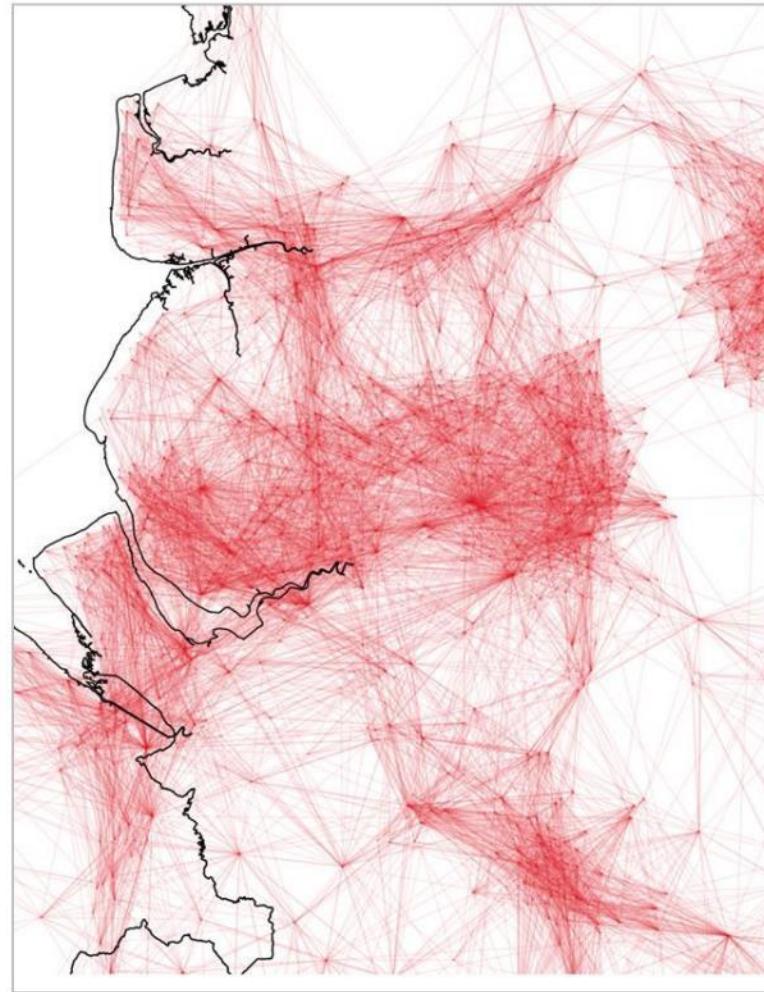
Incongruence between decision-making **accountability geographies** and **functional geographies**  
e.g. vote for congestion charges; location of HS2 stops

The effects of the area-based attributes (with uncertainty of the actual area – **contextual effects**) on individual behaviours or outcomes

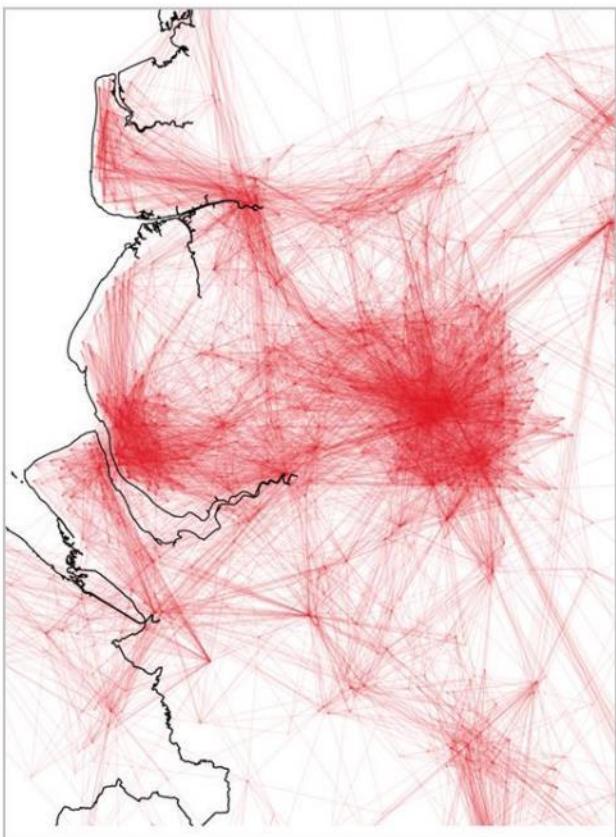
## 5 Serving Society



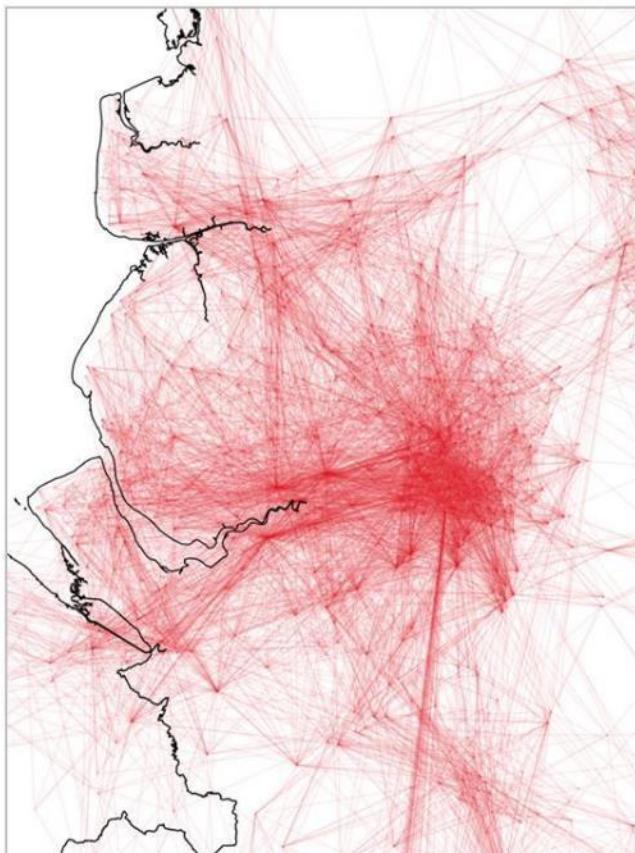
## 7 Traders, Movers & Makers



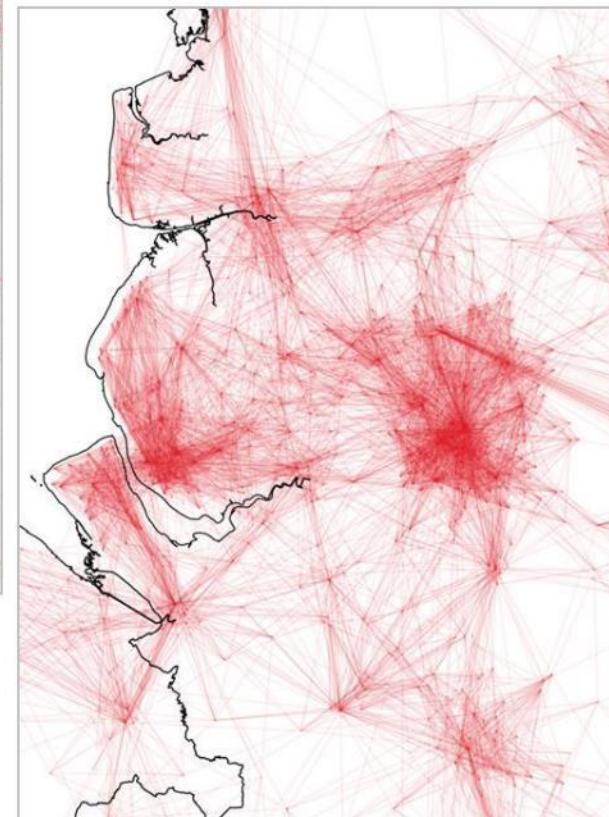
## 4 White Collar Workers



## 8 High Flyers



## 6 The Nurturers



# Northern Powerhouse

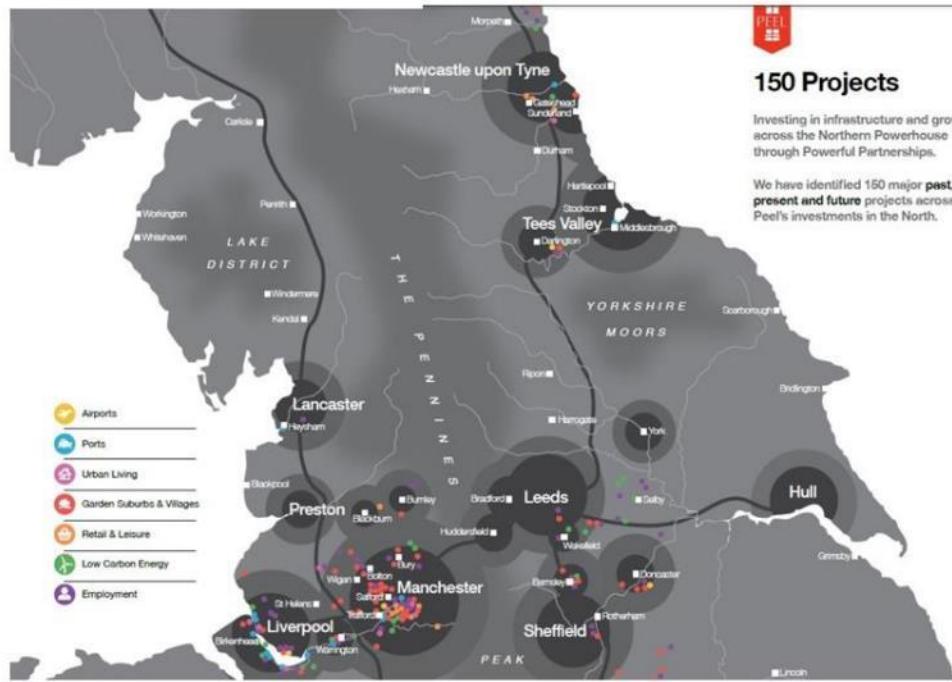
## One North

A Proposition for an Interconnected North

July 2014



NORTH



## George Osborne backs £15bn investment in five northern cities

Chancellor meets leaders of Leeds, Liverpool, Manchester, Newcastle and Sheffield over 'northern powerhouse' plans

**Patrick Wintour**, political editor

[theguardian.com](http://theguardian.com), Tuesday 5 August 2014 17.11 BST

[Jump to comments \(418\)](#)

TRANSPORT FOR THE  
NORTH

**The Northern Powerhouse:**  
One Agenda, One Economy, One North

A report on the Northern Transport Strategy



March 2015

# We're building a Northern Powerhouse

Autumn Statement 2014 announces **£7 billion** further investment in the North

We're connecting up the North to create a Powerhouse by:

- investing £6bn in the north's roads, to reduce jams
- introducing new modern trains, and 20% more capacity to end overcrowding
- developing HS3 to make east-west travel faster
- doubling the number of northern cities to benefit from the government's superfast broadband programme

To build on the North's strength in science, we're funding:

- a new Sir Henry Royce Materials Research Institute based in Manchester, with centres in Leeds, Liverpool and Sheffield
- a new Innovation Centre for Ageing, in Newcastle
- a new Cognitive Computing Research Centre in Daresbury, Warrington
- a new National College for Onshore Oil and Gas in Blackpool, with centres at Chester, Redcar and Cleveland

Civic leadership

In November we announced a groundbreaking devolution deal with Greater Manchester, as well as the first metro-wide elected mayor outside London.

Culture

We're committed to developing the thriving cultural heritage of the North, so we're announcing:

- a GREAT Exhibition in the North to showcase the best northern art, culture and design
- £78m funding for a major new theatre and exhibition space in Manchester

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Source: Autumn Statement 2014, HM Treasury

## National Infrastructure Plan 2014



## A £466 billion plan for the UK's infrastructure

### A £15 billion plan for roads



£2 billion for the A303 and A358 to the south west, including a tunnel at Stonehenge



£290 million for dualing the A1 north of Newcastle as far as Ellingham, more than half way to Scottish border



£300 million to upgrade the east-west connection to Norfolk, by dualing sections of the A47 and improving its connections to the A1 and A11



£5.8 billion for local highways maintenance

### Building and protecting homes



The government will take forward development at Northstowe, to support delivery of up to 10,000 homes



£100 million to fund infrastructure and land at Ebbsfleet, which will deliver up to 15,000 new homes



£150 million to regenerate London estates



£2.3 billion for flood defences

### Further investment in rail



**Norwich in Ninety**  
We want to achieve services to Norwich in 90 minutes along the Great Eastern Mainline



**Crossrail 2**  
£2 million to develop a business case, alongside an appraisal of London transport projects including the extension of the Bakerloo line



**Chesterton Rail Station**  
£44 million between 2014-15 and 2016-17 to build a new rail station at Chesterton



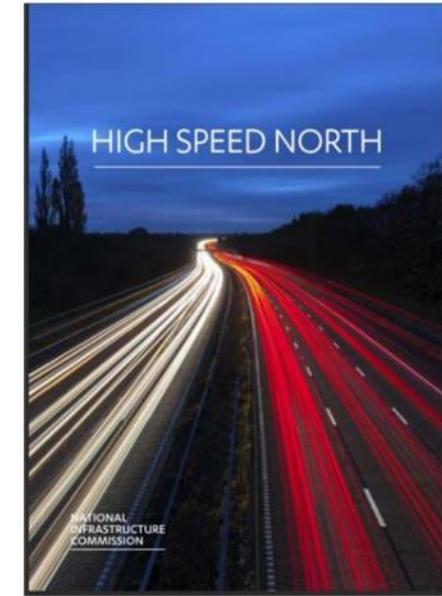
**Access for all**  
£60 million between 2015-16 and 2018-19, improving platform access at around 20 stations



**RTPI**  
Royal Town Planning Institute

**DO WE NEED A  
GREAT NORTH PLAN?  
CALL FOR EVIDENCE**

Institute for Public Policy Research



05.10.15

**Lord Adonis to spearhead Osborne's new independent National Infrastructure Commission**

Chancellor George Osborne is set to create a 'National Infrastructure Commission', spearheaded by Labour's Lord Adonis, to advise Whitehall on how to speed up British infrastructure spanning road, rail, housing and energy projects in the long term.

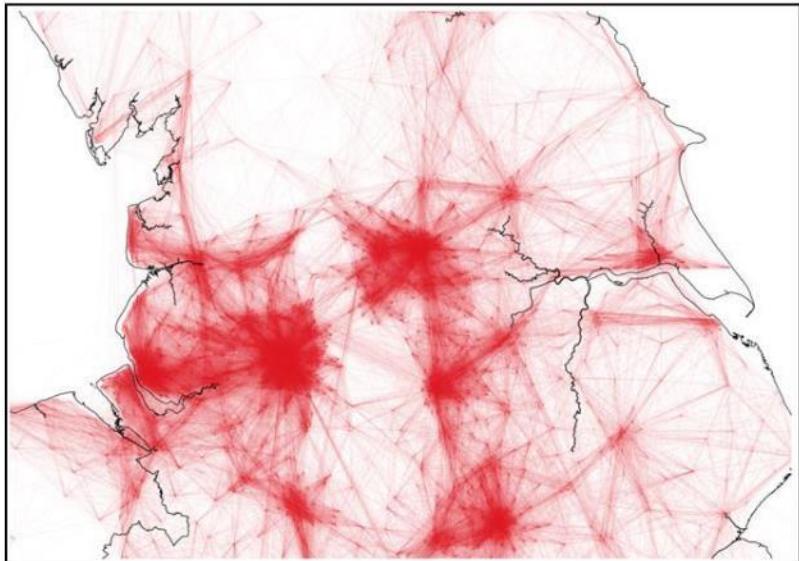
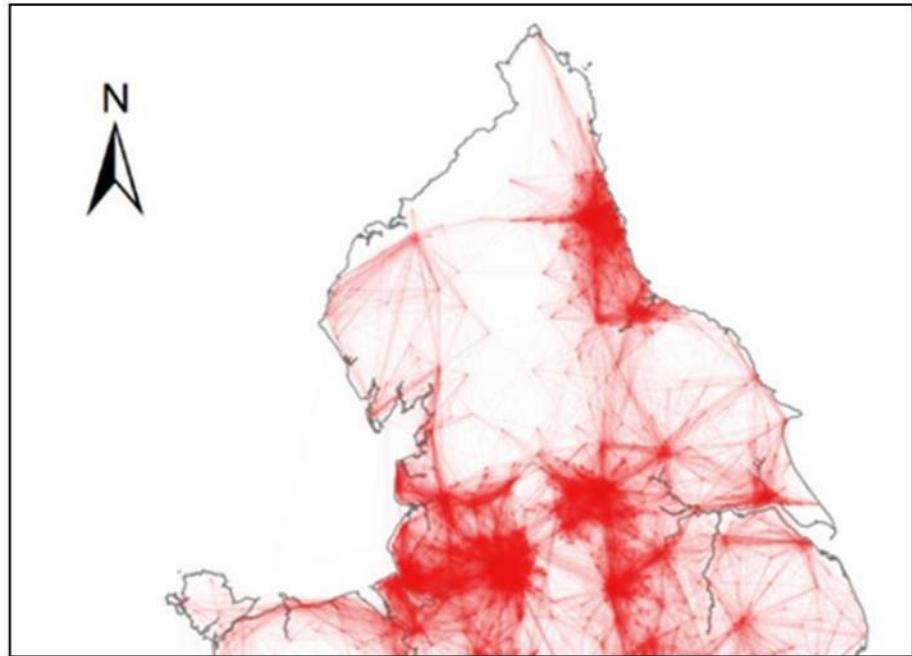
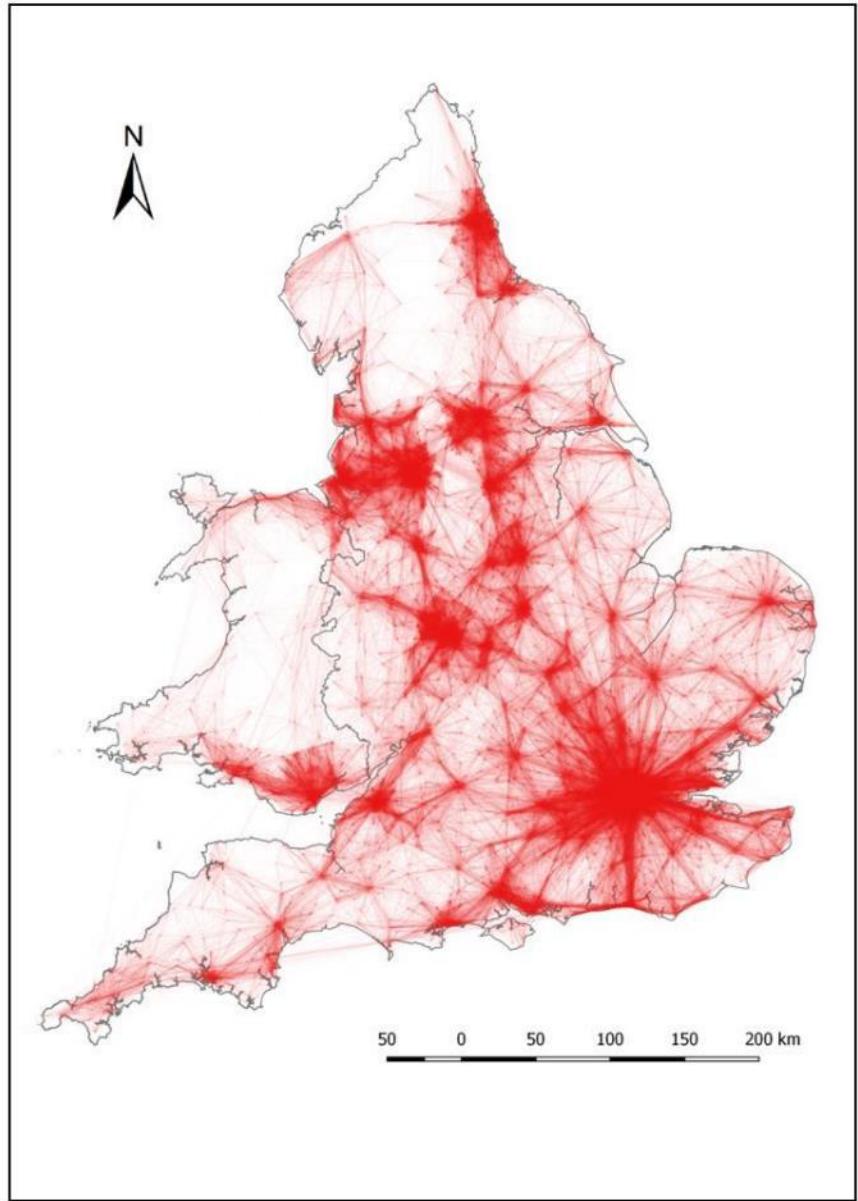
Adonis, former Labour transport secretary and non-executive member of the HS2 Ltd Board, will take charge of the commission to "shake Britain out of its inertia on the projects that matter most". He will resign the Labour whip in the Lords, though will remain a party member.

### Agglomeration economies

Agglomeration economies are the benefits that come when firms and people are located near one another together in cities and industrial clusters. For example, Rappaport and Sachs (2003) found that 57% of the income in the US was generated within 80 km from the coast and only 13% of the landmass.<sup>20</sup> There are two main forms of agglomeration economies:

- Localisation economies, where firms from the same industry benefit through proximity, knowledge spill-overs and larger labour pools.
- Urbanisation economies, where firms from various industries benefit through concentration of shared resources

# Where is the Northern Powerhouse?



## **Impact assessment of major *development* schemes**

# Salford Quays

- Near the end of Manchester Ship Canal
- Closure of the Manchester Docks in 1982 and loss of 3000 jobs
- 1985 Salford Quays Development Plan
- 1986-1990: infrastructure building



# SALFORD QUAYS



# Imperial War Museum (N)

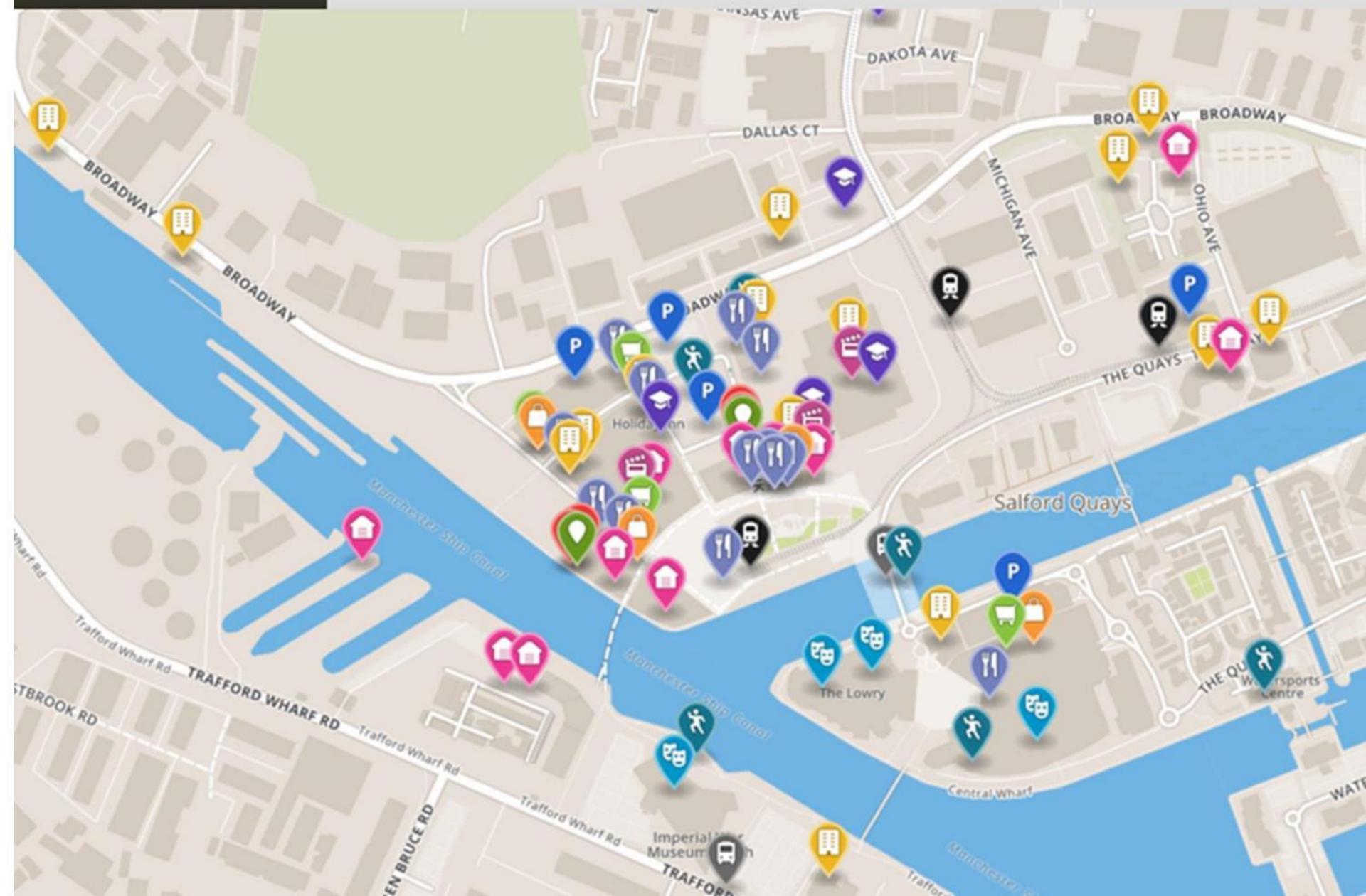
- Designed by Daniel Libeskind
- Opened in July 2002
- extensive collection of historical artefacts, primarily from the wars occurring during the 20th century
- IWM's five branches and the first outside the south-east of England with over 2.5 million visitors



# MediaCity UK

- Mixed use property development by the Peel Group on an 200 acre site, innovative, creative hub to rival other media cities worldwide
- 1<sup>st</sup> phase completed in 2011
- Metrolink extended to it in 2010
- Focus on digital creative industries
- BBC: around 2,700 staff work in 26 departments including BBC Children's, BBC Learning, BBC Radio 5 live, BBC Sport, BBC Radio Manchester and BBC Breakfast as well as Religion & Ethics, the BBC Philharmonic and parts of Research & Development, Drama and Comedy.



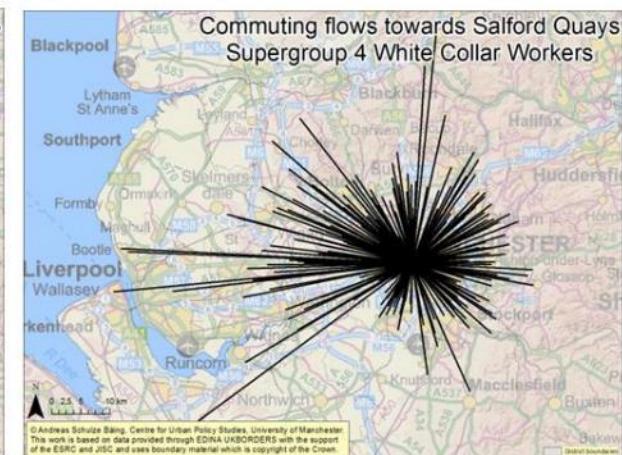
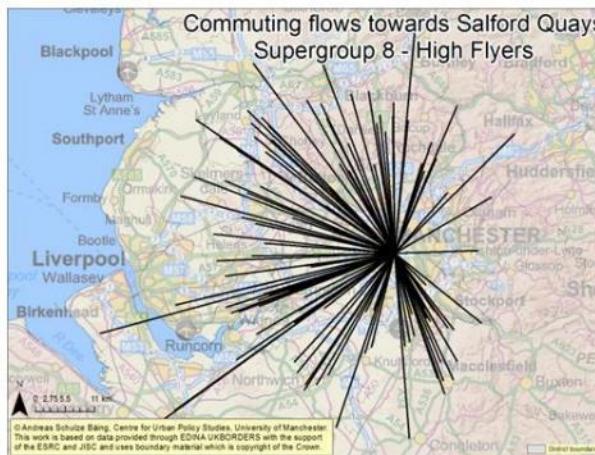
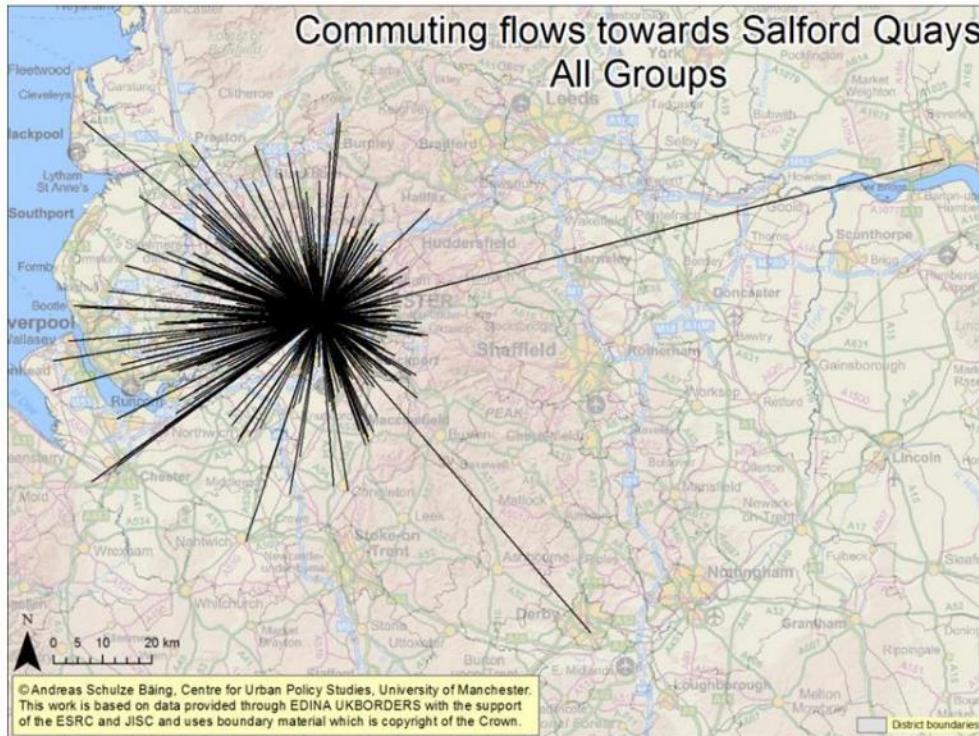
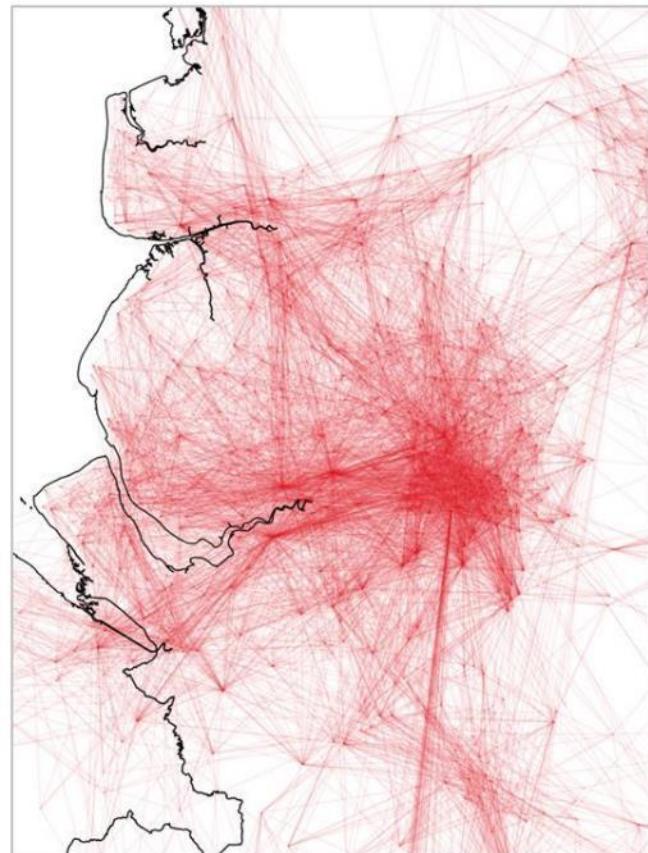


# Employment Change

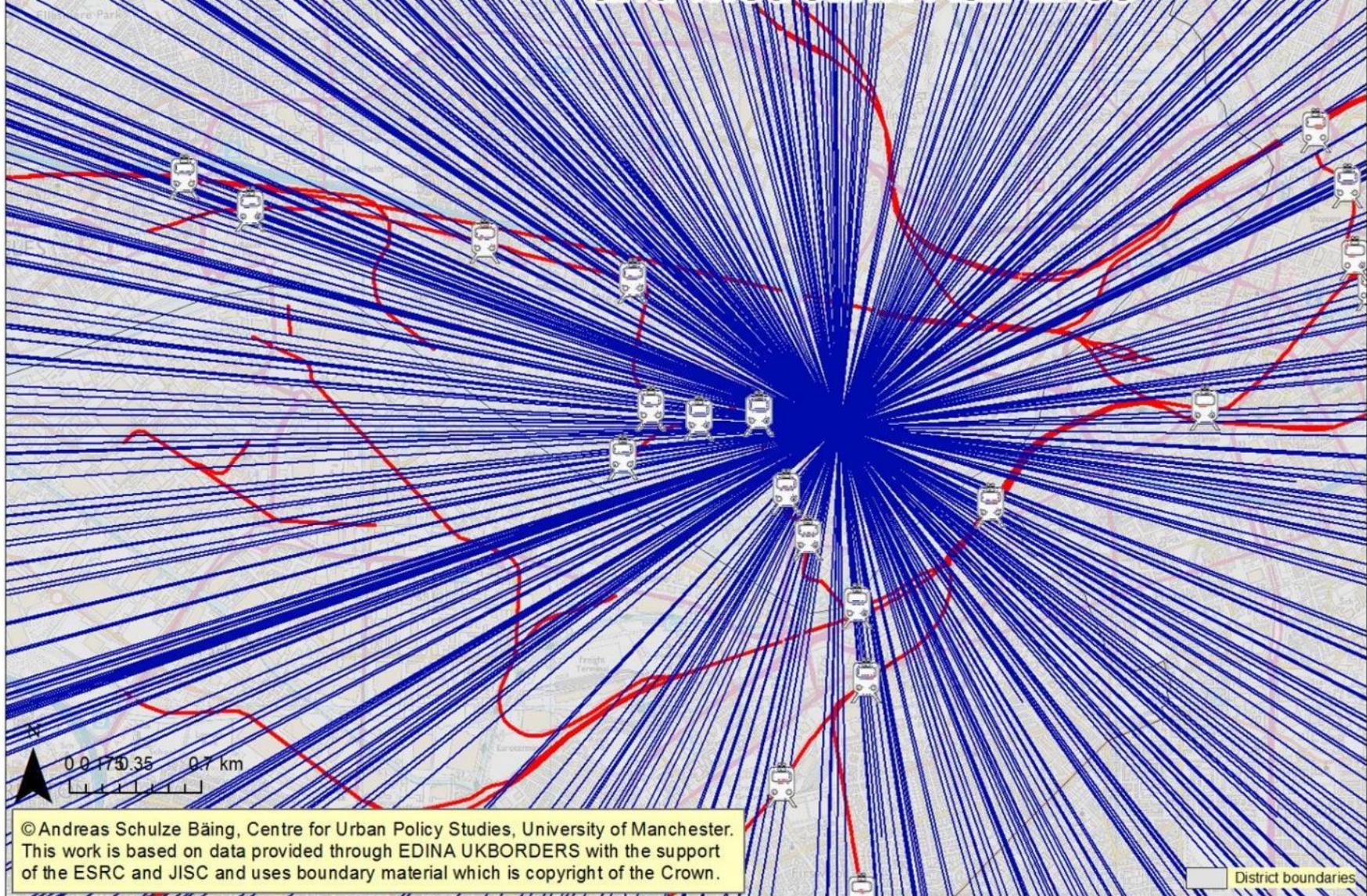
	1981 Census	2011
	Persons Working (16-54)	Workday population (16-74)
Professional & Managerial	28	5121
Intermediate	129	
Non-manual skilled	151	8628
Manual skilled	181	3303
Semi-skilled	128	4449
Unskilled	78	
<b>TOTAL</b>	<b>696</b>	<b>21501</b>

Different ward boundaries and definition over the two time periods, these are best estimations to illustrate the scale of change.

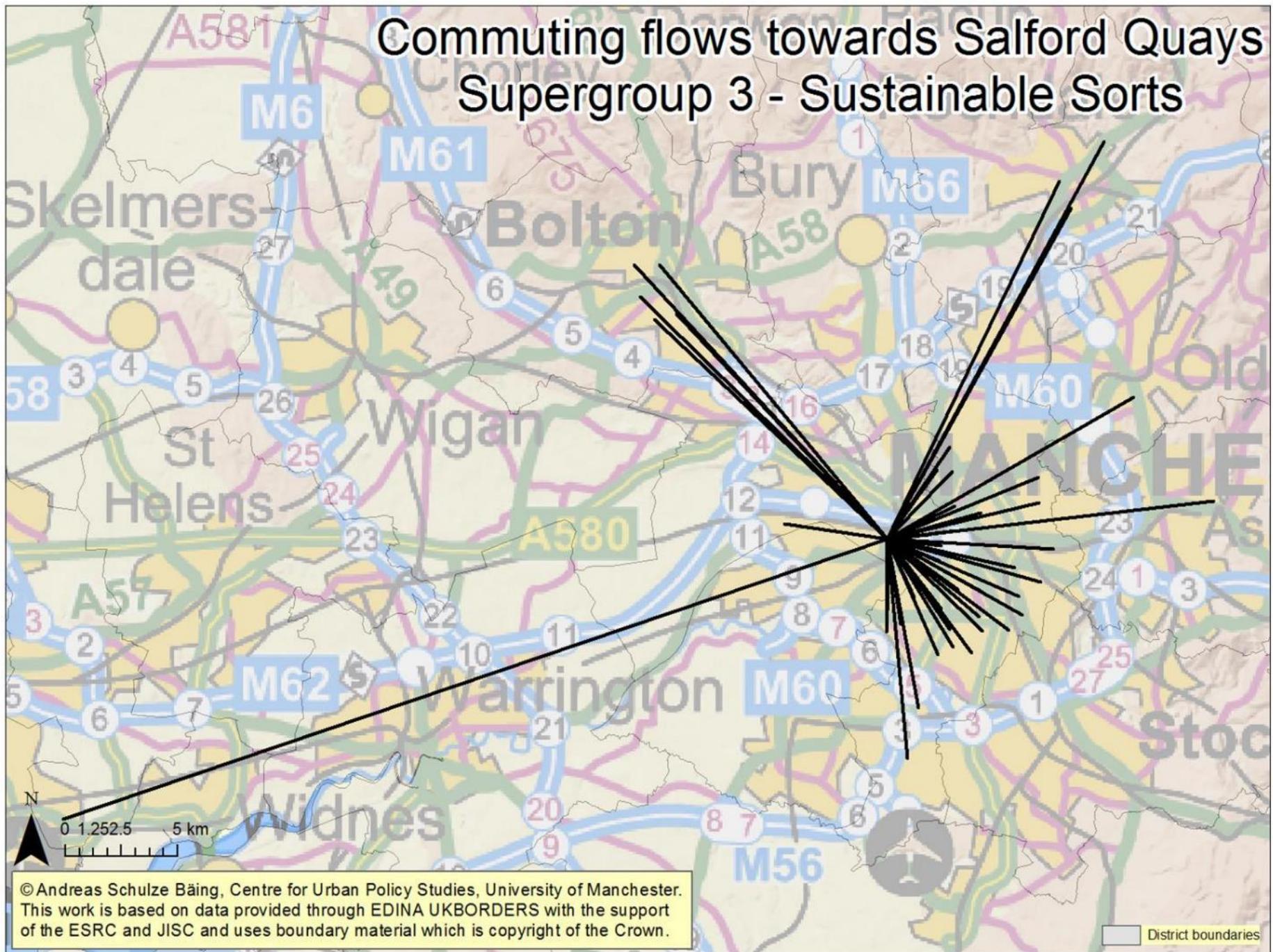
# High flying commuters



# Commuting Flows towards Salford Quays and Metrolink/Rail lines



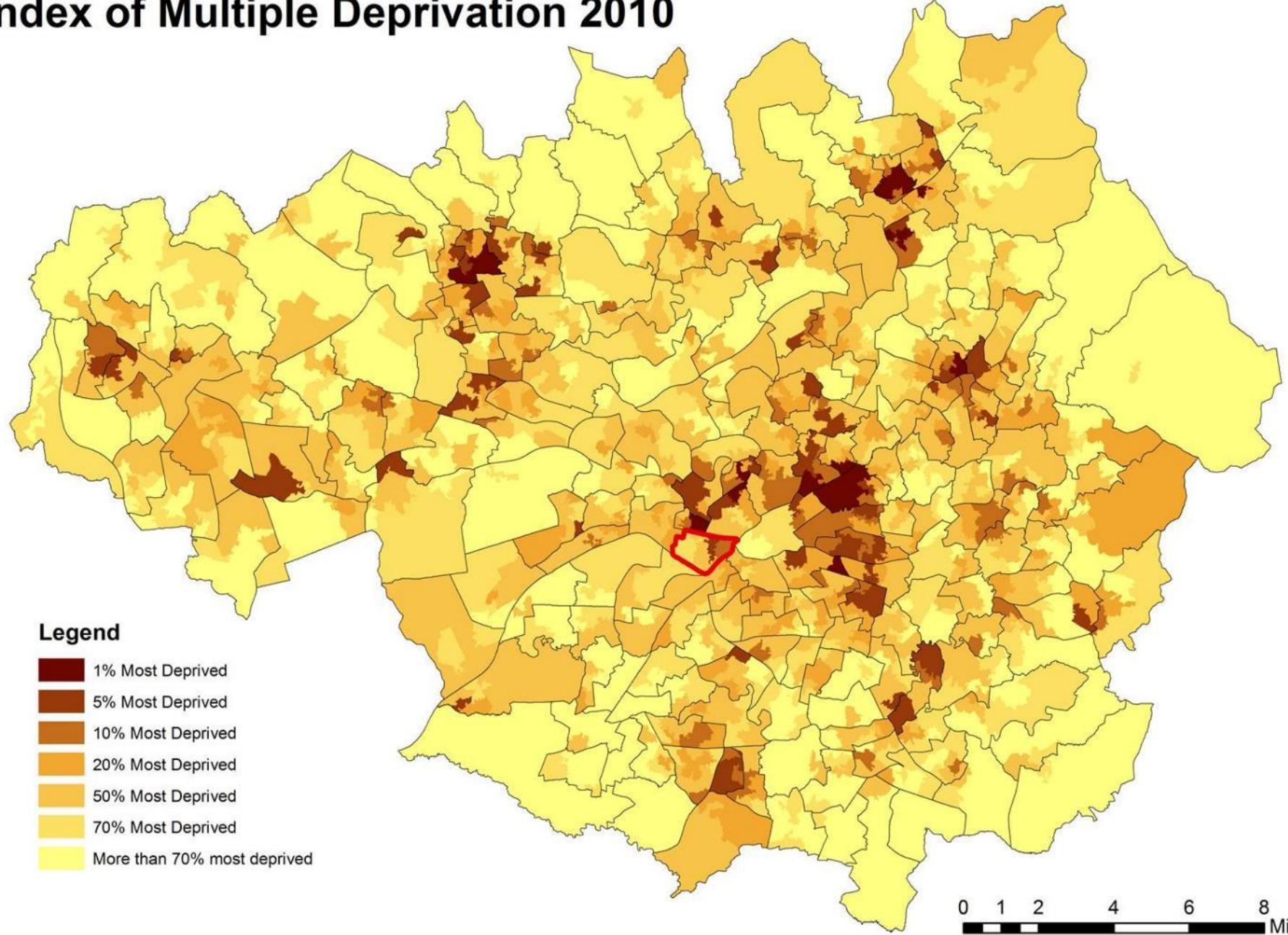
# Commuting flows towards Salford Quays Supergroup 3 - Sustainable Sorts

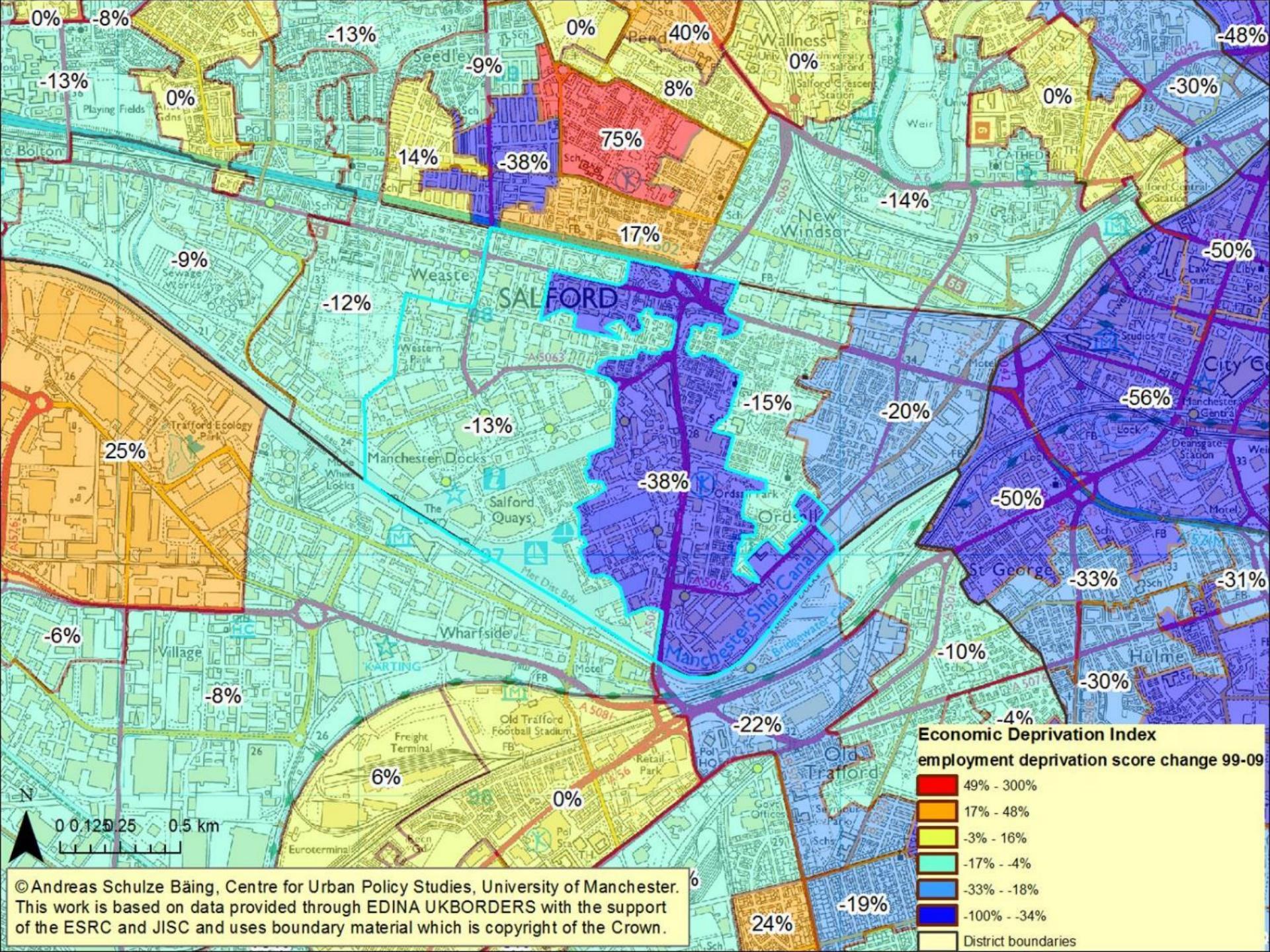


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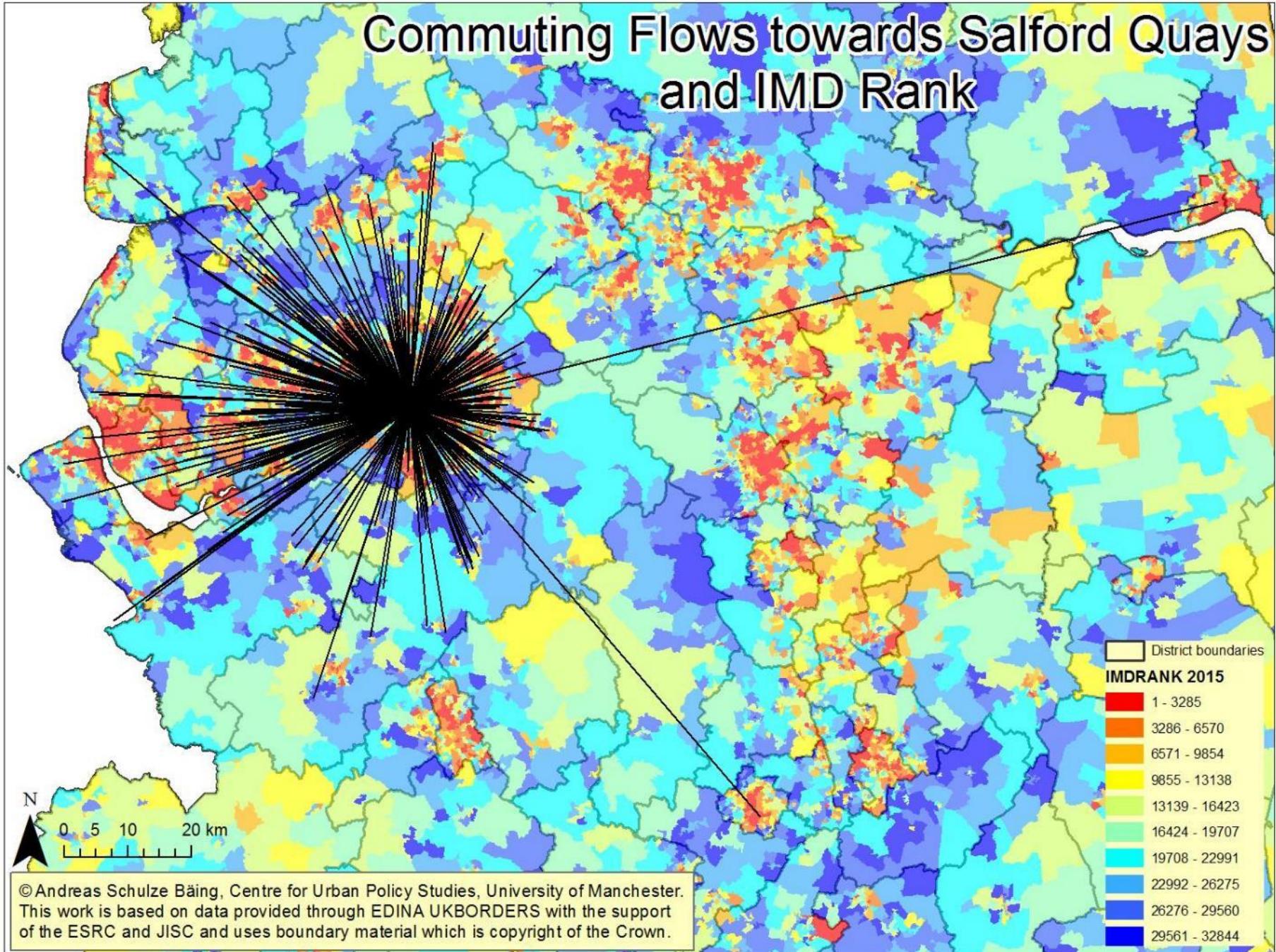
District boundaries

# Index of Multiple Deprivation 2010





# Commuting Flows towards Salford Quays and IMD Rank



# Thank you!