



Infrastructure BUusiness models, valuation and Innovation for Local Delivery

Stakeholder Event
Richard Dawson

4 November, 2015



UNIVERSITY OF
BIRMINGHAM



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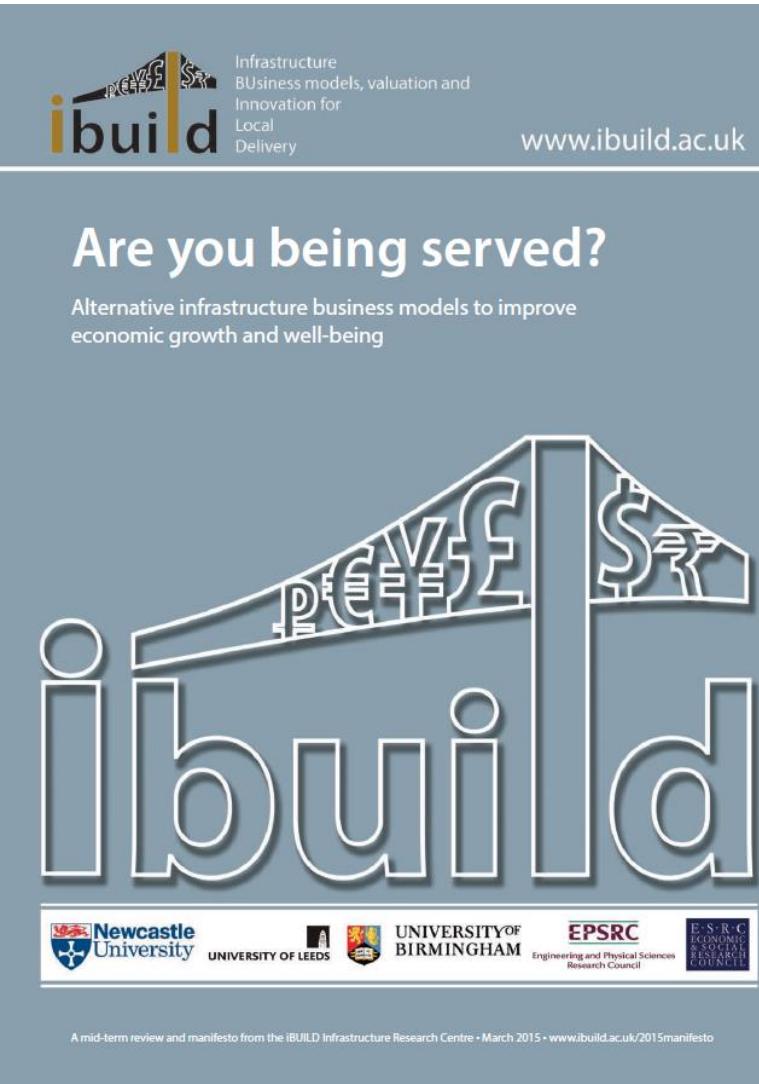
Infrastructure business models

- Creating, delivering, capturing values over infrastructure life cycle
- Impact the use, quality and equity of infrastructure provision
- National importance of the local
 - Cumulative economic contribution of many small infrastructures
 - Higher jobs multiplier
 - Quality of life



Are you being served?

Alternative infrastructure business models to improve economic growth and well-being



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Infrastructure
Business models, valuation and
Innovation for
Local
Delivery

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Newcastle University UNIVERSITY OF LEEDS UNIVERSITY OF BIRMINGHAM EPSRC E.S.R.C.
Engineering and Physical Sciences Research Council Economic & Social Research Council

A mid-term review and manifesto from the iBUILD Infrastructure Research Centre - March 2015 - www.ibuild.ac.uk/2015manifesto

1. Have a broader, integrated appreciation of infrastructure
2. Enable action at the local scale that connects with the national
3. Capture long-term value of every kind
4. Deliver more efficient planning, procurement and delivery
5. Accelerate the uptake of innovations through practical action and demonstration

Programme

10:00: Welcome and update on progress

Richard Dawson (Newcastle University)

10:15: Transportation and Connectivity in Birmingham

Anne Shaw (Acting Assistant Director, Birmingham City Council)

10:45: Financing infrastructure for climate change adaptation

Katy Roelich (University of Leeds)

11:15: Motivation for energy efficiency policy: national recognition of the infrastructure benefits from energy efficiency retrofit in buildings

Niall Kerr (University of Leeds)

11:45: Breakout activity: Towards a typology of infrastructure values

Claire Walsh (Newcastle University)

12:45: Lunch

Interactive demonstration of an agent based model for local energy infrastructure

Programme

13:30: Alternative Business Models

John Bryson (University of Birmingham)

Breakout discussion groups

14:45: Refreshments

15:00: Local governance, devolution and implications for local infrastructure

Peter O'Brien and Andy Pike (Newcastle University)

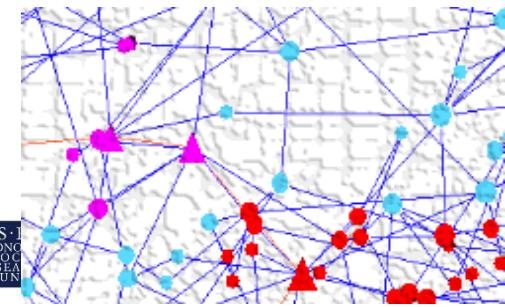
15:30: Challenges for metropolitan regions and their infrastructure 2015-2050

Professor Geoffrey Hewings (University of Illinois, Chicago)

16:00: Close

Ongoing and initialising activities

- Online searchable business models database
- Engineering implications of business models
- Integrating dimensions of value
 - Economics (Systems of provision);
 - Social;
 - Environmental
- Considering broader issues of value
 - Technical: whole life infrastructure design
 - Resilience
 - Multi-functionality
- Governance, devolution and infrastructure
 - Northern Powerhouse
 - London
 - Local authority assets
- Modelling and simulation of local infrastructure interdependencies



Collaboration and integration through case studies

Case study focus	Lead collaborator(s)
Energy / Transport interdependencies	Office for Low Emissions Vehicles ; Ofgem
Transport resilience	Department for Transport
Workington bridge failure	Cumbria County Council et al
Procurement and delivery	
Housing retrofit	
Electric vehicle charging	
Local infrastructure	
Valuing green infrastructure	
Cycling and walking	
Infrastructure performance	
Business models	
Local energy networks	Newcastle City Council
Cost of third party strikes of utilities	8 utility owners or contractors
District heating	Leeds City Council
Art and infrastructure	Tipping Point

Opportunities for further collaboration

Urban development zone scale

Analysis of missed opportunities