



UK Cities Research Gaps

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22 October 2015

Workshop

- Smart & Sustainable Cities: European Funding Opportunities
- London 25 June 2015
- 70 delegates
- Workshop session on Challenges & Drivers



Research Capabilities Mapping



Online Validation



Welcome to the National Platform survey on Smart & Sustainable Cities.

This survey is based on initial outputs from a workshop session held in June 2015 on EU funding opportunities, convened by the Knowledge Transfer Network, Future Cities Catapult and Innovate UK. The survey outputs will provide a consensus-based view on UK research drivers and knowledge gaps that will be used by the National Platform to influence future research interventions at a UK and EU level.

The survey should take just ten to fifteen minutes. We thank you in advance for your input.

Visit www.nationalplatform.org.uk for more information

Tell us your priorities press ENTER

Online Validation

- 4 weeks in July / August 2015
- 55 respondents
- Rating research categories & specific issues out of 10

d. Systems thinking

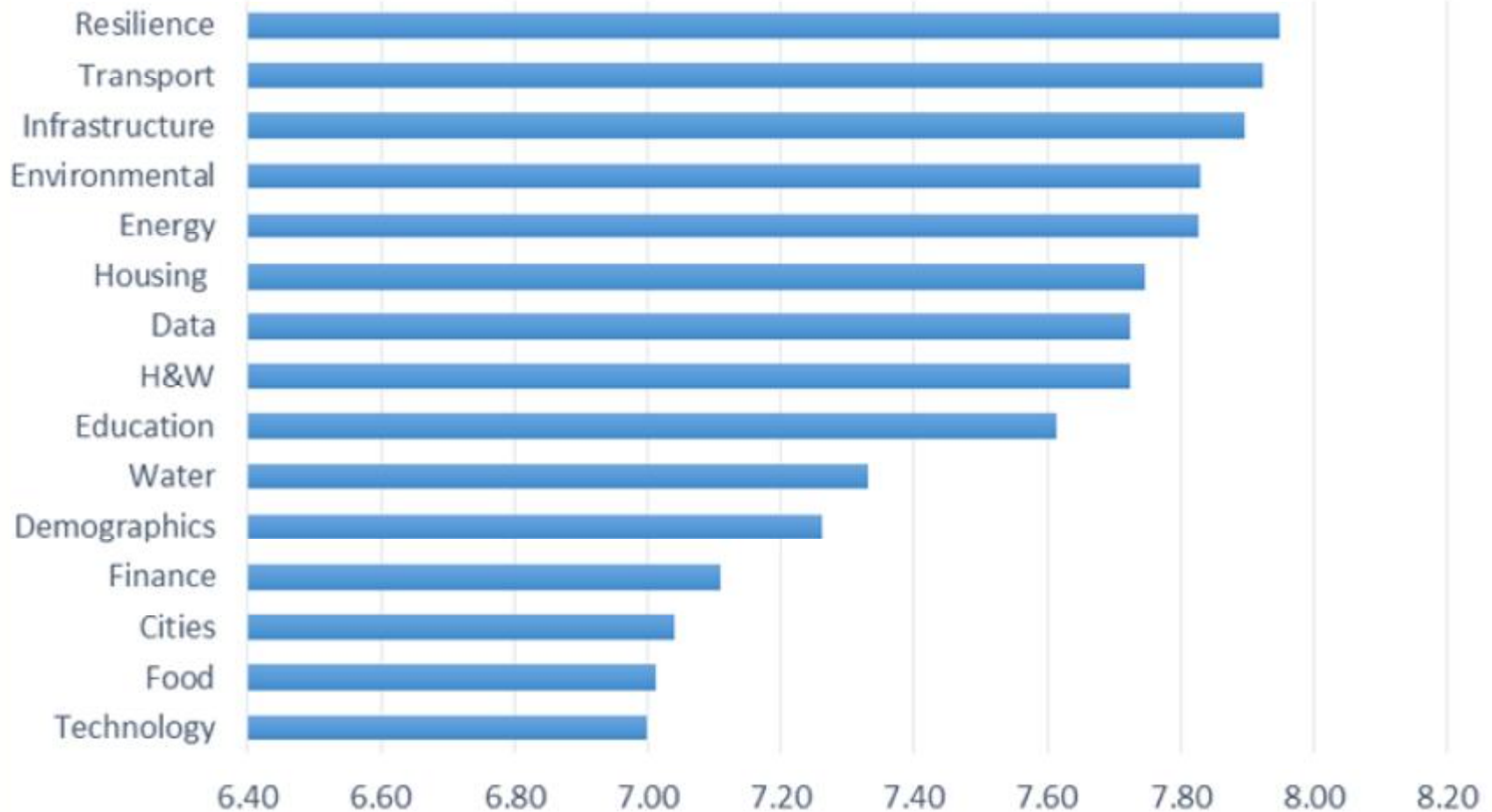
Approaching cities as whole systems, within and across thematic priorities



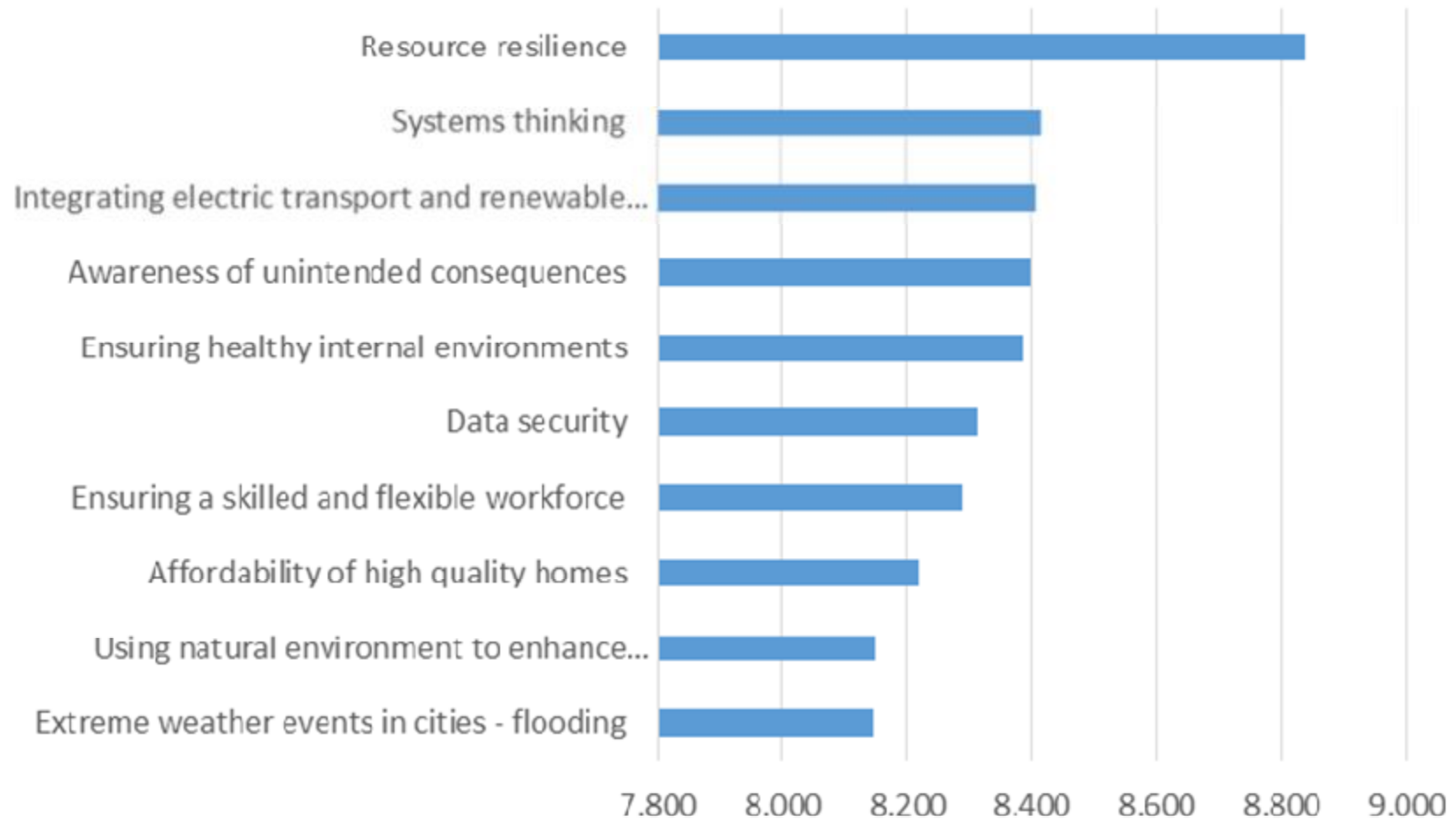
e. Comments

Are there any city-related themes missing? Are there any particular challenges, and/or gaps in knowledge that you want to highlight?

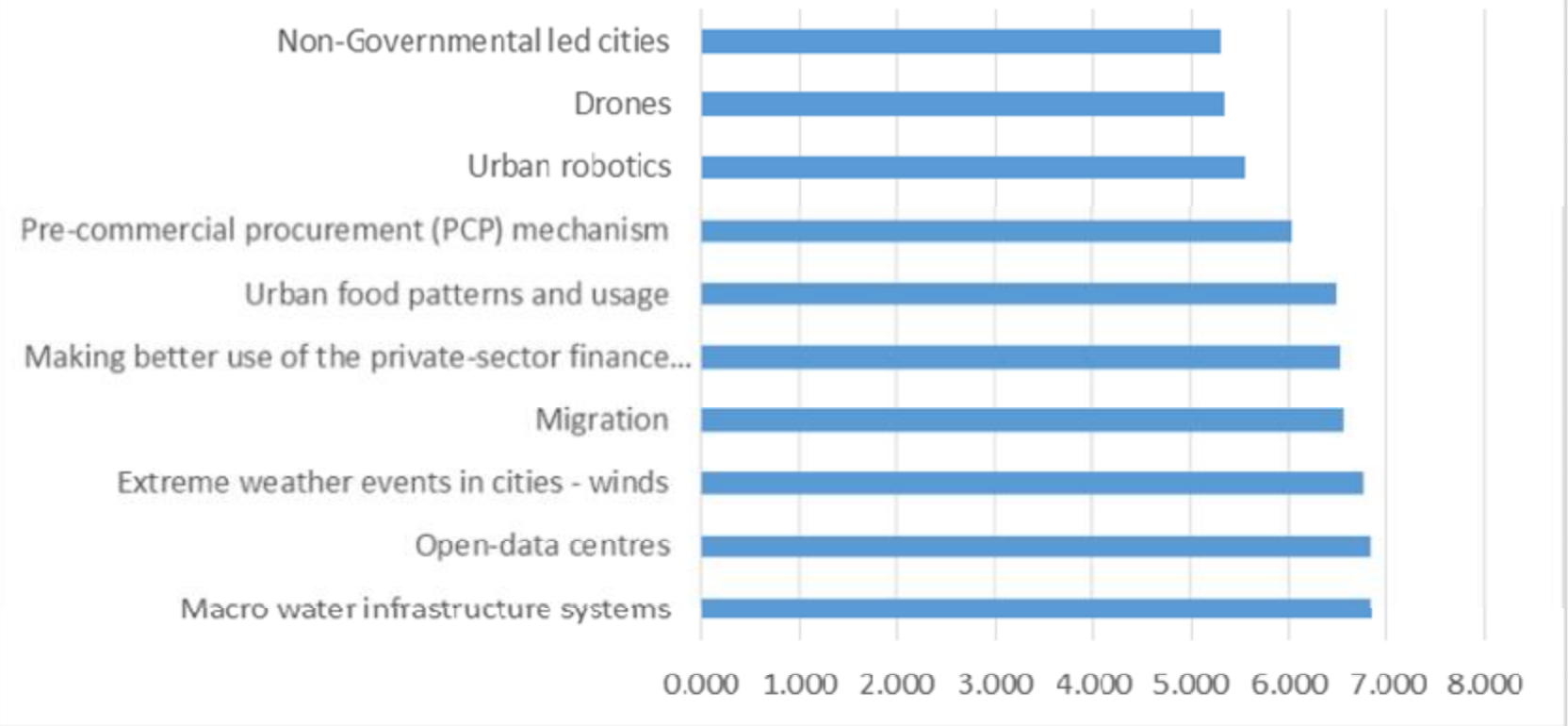
Average Category Rating



Top 10 Issues

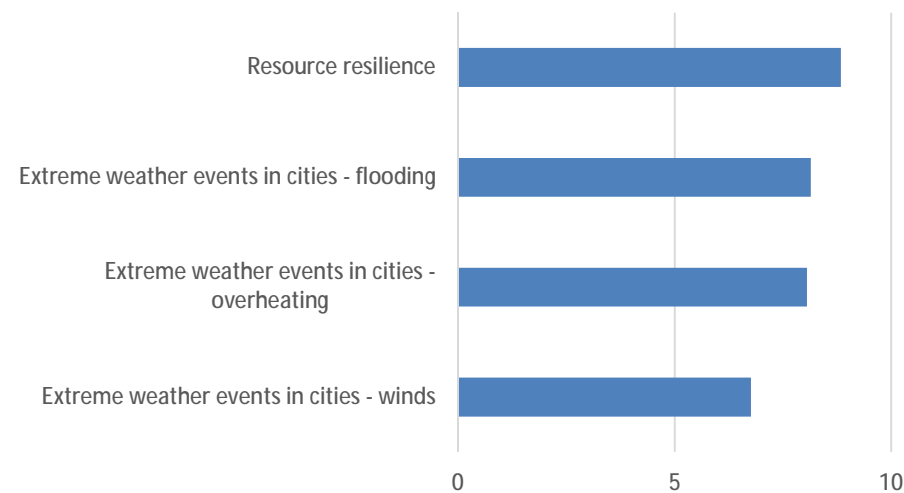


Lowest 10 prioritised issues



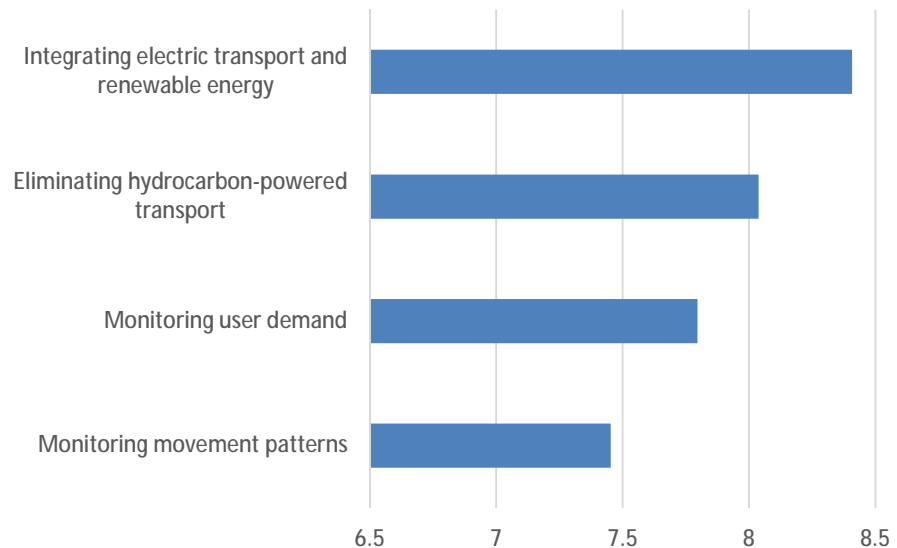
Resilience

- Interdisciplinary approaches
- Planning for extreme events
- Business continuity
- Physical & societal resilience
- Natural infrastructure
- Interdependencies
- Energy



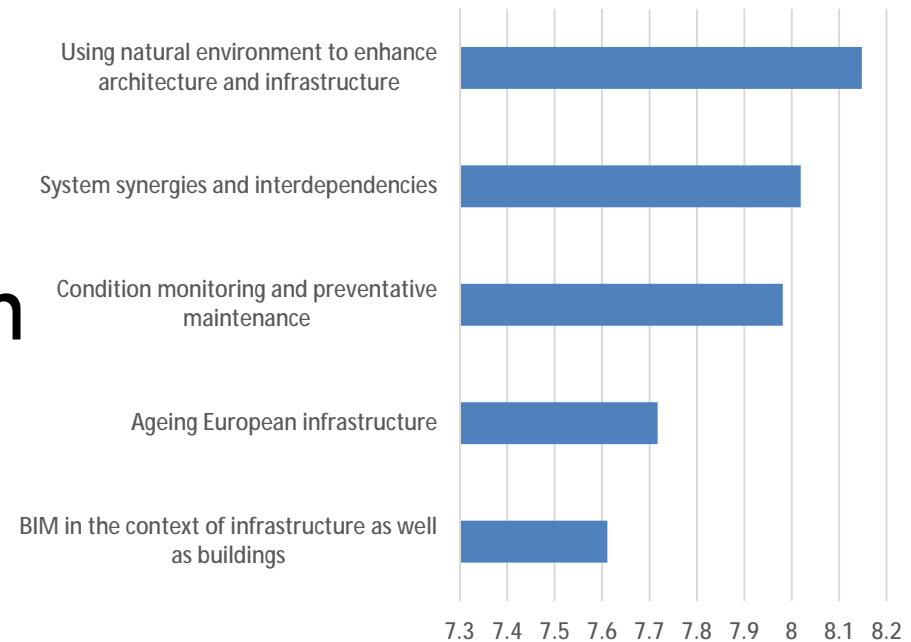
Transport

- Transportation & logistics – not just people
- Integration of transport systems
- Detailed understanding of movement patterns – cause & effect
- Sustainability of electric transport



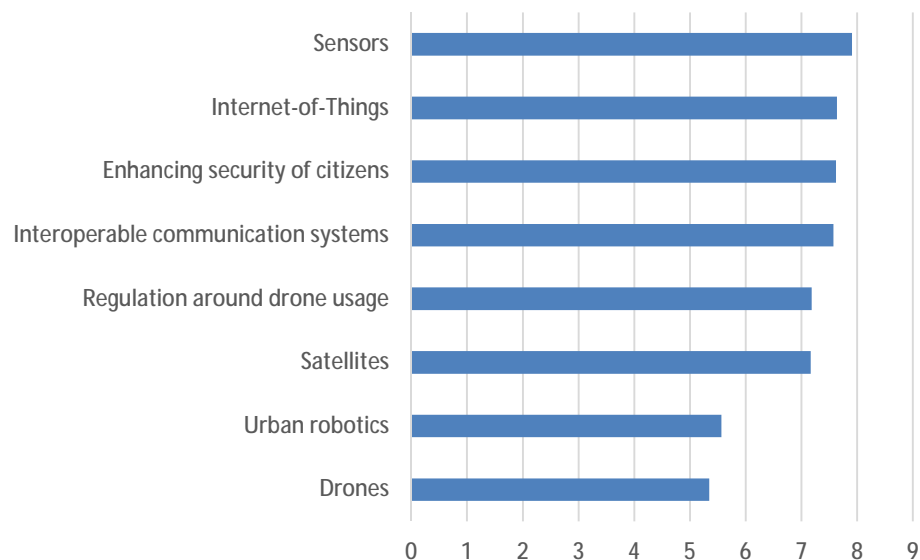
Infrastructure

- Interdependencies
- Integration of infrastructure systems
- Green infrastructure
- Asset management via BIM
- Service-led approach (not just assets)



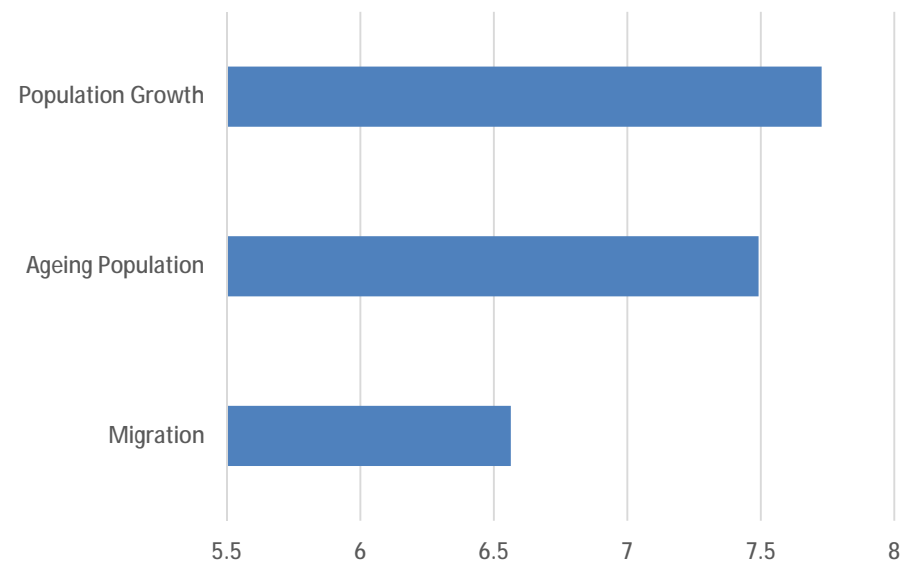
Technology

- Understanding social science behind technology
- Supporting & empowering citizens
- Machine learning
- Asset management
- Impact of regulation
- Resilience?



Demographics

- Variation across cities and within cities
- Impact on services & resources
- Changes in working patterns
- Cultural changes



Next Steps

- Collaboration with Future Cities Catapult to refine research priorities
- Open up online consultation to other National Technology Platforms
- Review of 2007 ICT & Automation Research Roadmaps