



Day 2, 27th April 2017 Valuing and financing infrastructure: national and international perspectives

#ValuingInfrastructure





Keynotes: Valuing and financing national infrastructure: pressing needs, possible solutions. Brian Collins, University College London Ann Pettifor, Director of Policy Research in Macroeconomics (PRIME)

Chair: Andy Brown, University of Leeds



Valuing and financing national infrastructure: pressing needs, possible solutions

Professor Brian Collins CB, FREng Professor of Engineering Policy, UCL, PI ICIF Convenor UKCRIC



Economic and Social Research Council Shaping Society





Infrastructure Grand Challenges

- What are the potential benefits?
- How can we realise these?
- What is stopping us?

Innovative business models and a focus on outcomes, value and purpose can deliver improved infrastructure delivery and performance

Infrastructure interdependence, system resilience, vulnerability, adaptability, flexibility require collaborative multi-disciplinary / cross-sectoral / systemic / holistic approaches



Low Carbon, resilience and sustainability must be at the core of all infrastructure planning, delivery and operations



Governance and Regulation are important tools to enable cross-sectoral communication, collaboration and decision making to improve performance and provision infrastructure systems



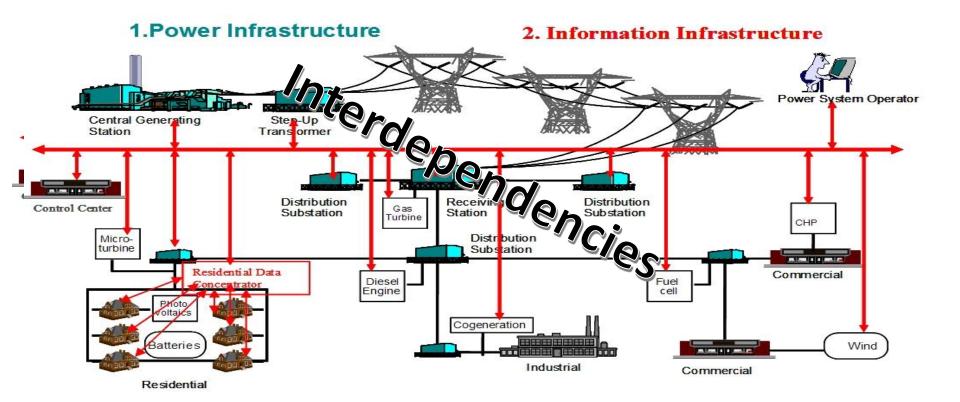
Themes for new business models

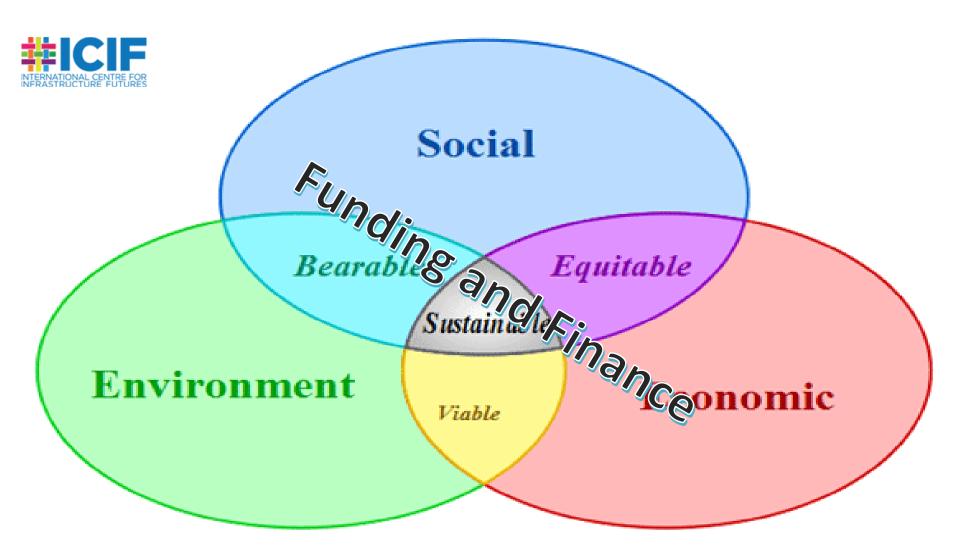
- Risk
- Low carbon
- Interdependence
- Finance and funding
- Resilience
- Organisational learning











Valuing Resilience



ICIF outcomes



- Impact on how IPA is handling large programmes Project X scope and definitions synergistic multipolar value capture and risk mitigation
- Treasury guidance on interdependence in project definition and assessment
- Ongoing conversation with NIC about needs assessment criteria and Infrastructure governance strategy
- International recognition of the value of the UK knowledge and research capability in infrastructure research
- Understanding the value of learning journeys in enabling organisational and personal behavioural change
- Catalysed conversation with i3P the infrastructure industry innovation and project consortium
- Contribution to the UKCRIC vision <u>www.ukcric.com</u>
- Contribution to ISNGI 2017 <u>www.isngi.org</u>

Challenges – pressing needs

- How to capture value and mitigate risk across a whole infrastructure programme from statement of purpose and need thro procurement and operation to decommissioning
- How to show new ways of collaboration and co development deliver the benefits that fixed bilateral contracts, project management and annual accounting are stifling
- How do we develop a sufficient number of systems thinkers who can see the big picture and can sustain the intellectual investment through the life of a programme.
- How do we embed the learning of new approaches into normal practice
- How do we capture the evidence that a multipolar systems approach provides better outcomes
- Maintaining ICIF as the component of UKCRIC that will provide the international element of collaborative infrastructure research with developed and developing countries



For More about ICIF

- Visit <u>www.icif.ac.uk</u>, @icif_live, #icifGC
- Read Our Infrastructure White Papers
- View our Research Outputs and recommended resources:
 - Interdependence and Resilience
 - Governance and Regulation
 - Business Models and Delivery Challenges
- Contact Dr Tom Dolan Thomas.dolan@ucl.ac.uk

#icifGC Add your Voice to our Infrastructure Grand Challenges <u>World</u> <u>Café Conversations</u>

#icifGC What are the most significant infrastructure service and system challenges we face? - <u>Have Your Say</u>

#icifGC Share your <u>questions</u> and see those raised by <u>others</u>



Thank You

