



Industrial Strategy: Prospering from the energy revolution

Rob Saunders, Interim Challenge Director

UK Research
and Innovation





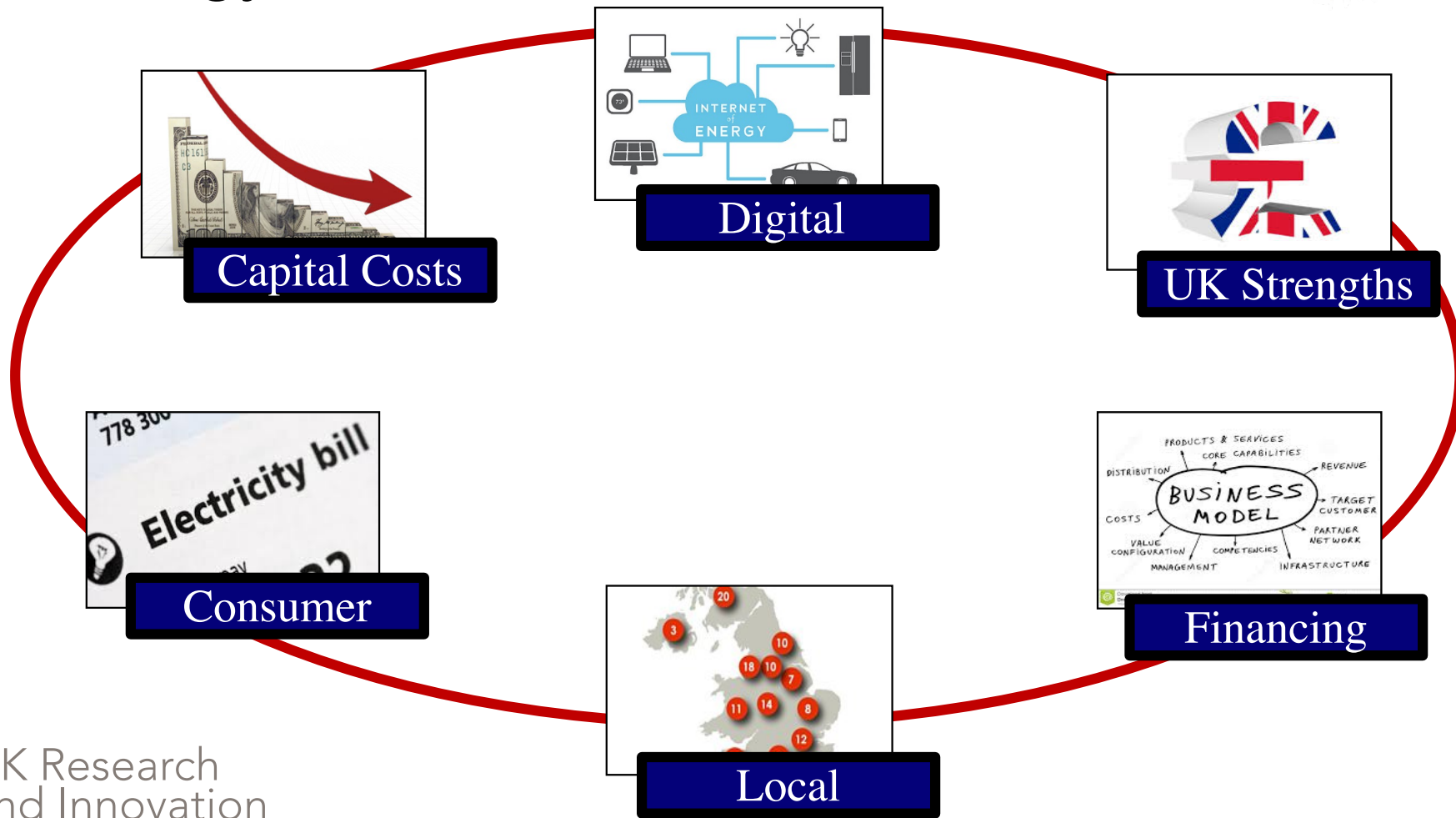
The energy revolution challenge:

Prove by 2022 that local, investable, consumer-centric energy approaches can create prosperous clean energy communities across the UK

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Energy Revolution: The Context

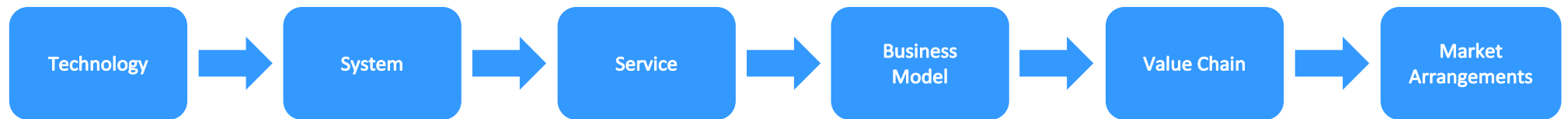


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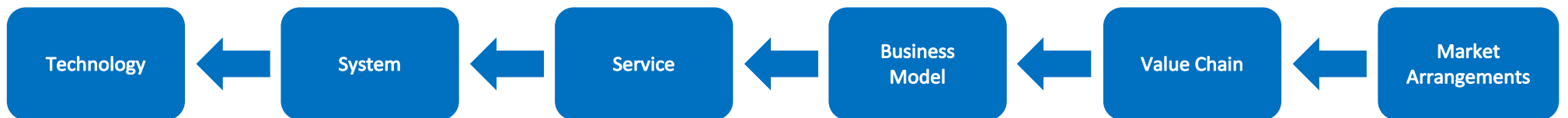
Energy Revolution: Pull, not push.



“Traditional” Energy Innovation Approach



A new approach...





Energy Revolution: Programme Objectives

- 1. Prove investable, scalable local business models** by 2022, that
 - deliver cleaner, cheaper energy services
 - build more prosperous and resilient communities
 - benefit the whole energy system
 - use integrated, intelligent approaches
- 2. Unlock 10x future private investment** in local integrated energy systems in 2020s (vs business as usual).
- 3. Accelerate new products and services to commercialisation** creating real world proving grounds.
- 4. Build UK leadership** in integrated energy services provision

What will the programme do to deliver these?



Practical
Demonstrators



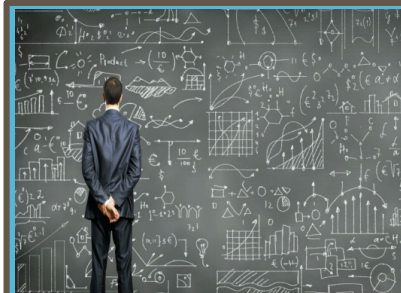
Advanced
Designs



Technology Development

Future Energy Model Proving

£41.5m funding launched 11th April



Expertise, Capability, Coordination.

Future Energy Models: What benefits, for who?



Central Government

- Policy Learning on revolutionary models
- *Accelerated progress to Carbon Budget 5*
- *Design of system cost reductions to £8bn/yr*
- *High value jobs proven across UK*

Businesses

- Innovation proving ground
- New integrated design service proving
- World-leading showcase to catalyse export.
- Cutting edge innovation integrated into new models

Consumers:

- Thousands of users with cleaner cheaper energy
- *Radical new, engaging clean energy models for 2020s*
- *>25% bills reductions, ready for Carbon Budget 5*
- *More competitive Markets*

Research & Academia

- New data streams
- New modelling services
- Evaluation of multiple future designs
- World-leading research programme

Investors

- Engagement in radical new investable models for 2020s
- Foresight of new scalable revenue streams
- Investment Pipeline for 2020s

Local Authorities

- Decarbonisation assistance
- Fuel Poverty assistance
- Capability Building
- Investable local energy plans
- *10x Local investment*
- *High Value local jobs development*



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