

# Prospering from the Energy Revolution

Proving cleaner, cheaper local energy approaches that people want to buy in to.

Rob Saunders Challenge Director

### The Industrial Strategy Challenge Fund





**UK Research** and Innovation

#### **Our five foundations**



Ideas the world's most innovative economy

#### People

good jobs and greater earning power for all



Infrastructure a major upgrade to the UK's infrastructure

**Business Environment** the best place to start and grow a business



Places

prosperous communities across the UK



#### AI & Data Economy

We will put the UK at the forefront of the artificial intelligence and data revolution



#### **Future of Mobility**

We will become a world leader in the way people, goods and services move



#### **Clean Growth**

We will maximise the advantages for UK industry from the global shift to clean growth



#### **Ageing Society**

We will harness the power of innovation to help meet the needs of an ageing society

### Industrial Strategy Challenge Fund... ...not business-as-usual Innovation

- Focused on improving productivity and economic benefit across the UK
- Learning from the 'DARPA approach'
- Clear measureable challenges are needed
- Needs clear industry buy-in to be successful and should be ambitious











## **Wave 1 Programmes**



Leading-Edge Healthcare Challenge (including Medicines Mfg) up to £188m



Faraday Battery Challenge up to £246m



Robotics and Al in extreme environments Challenge up to £93m

INDUSTRIAL STRATEGY



Next Gen. Affordable Lightweight Materials Mfg up to £26m



Autonomous Vehicles up to £38m



National Satellite Test Facility up to £99m

Underpinning UKRI investments (Wave 1a) up to £244m

## Wave 2 challenges

Audience of the future (up to £33m)



Data to early diagnosis and precision medicine (up to £196m)



Prospering from the energy revolution (up to £103m)





Healthy ageing (up to £98m)



Next generation services (up to



Quantum technology (up to £20m)



Transforming construction (up to £/170m)



Transforming food production (up to £90m)



UK Research and Innovation

And Wave 3 in business case approval for launch......





## Energy Revolution: The Macro-challenge context





## Energy Revolution: The Opportunity



INDUSTRIAL STRATEGY



## Energy Revolution: Pull, not push





### Energy Revolution: Programme Objectives

#### 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

#### **Unlock 10x future private investment**

in local integrated energy systems in 2020s (vs business as usual)

### Accelerate new products and services to commercialisation creating real world proving grounds

Build UK leadership in integrated energy services provision



## Energy Revolution: Committing >£100m in public funding





### Demonstrators & Designs:







In scalable, replicable and investable models





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### Delivering the programme







# Thank you