

# The Missions-Oriented Approach in the UK

The UK has increasingly developed a Mission-oriented approach to support our Industrial Strategy

## Grand Challenges – to drive industries of the future:

### Artificial Intelligence

- We will save around 20,000 lives a year by 2033 by using AI to improve cancer diagnosis rates

### Ageing society

- People will enjoy five more years of healthy, independent life in their own homes by 2035

### •Clean growth

- We will use new technologies to halve the energy use of new buildings by 2030

### Future of Mobility

- All new cars and vans will be effectively zero emission by 2040



# Why Grand Challenges and Missions

- **Increase productivity** by supporting researchers and industry to work together
- **Leverage the quality of the UK's research base** to address societal challenges
- **How were they chosen?**
  - The strength of the UK research base
  - The opportunity to grow new business opportunities
  - The possibility of making a real difference (in peoples lifetimes) in a measurable way



# Defining the missions within the Grand Challenges

**Harder than you might think!**

**UK approach has created the INDUSTRIAL STRATEGY CHALLENGE FUND to seed the research and business environment to support Challenges and Missions**

- Audience of the future/creative industries clusters
- Faraday Battery Challenge
- From data to early diagnosis and precision medicine
- Healthy aging
- Leading edge health care
- Next generation services
- Prospering from the energy revolution
- Quantum technologies
- Robots for a safer world
- Transforming construction
- Transforming food production

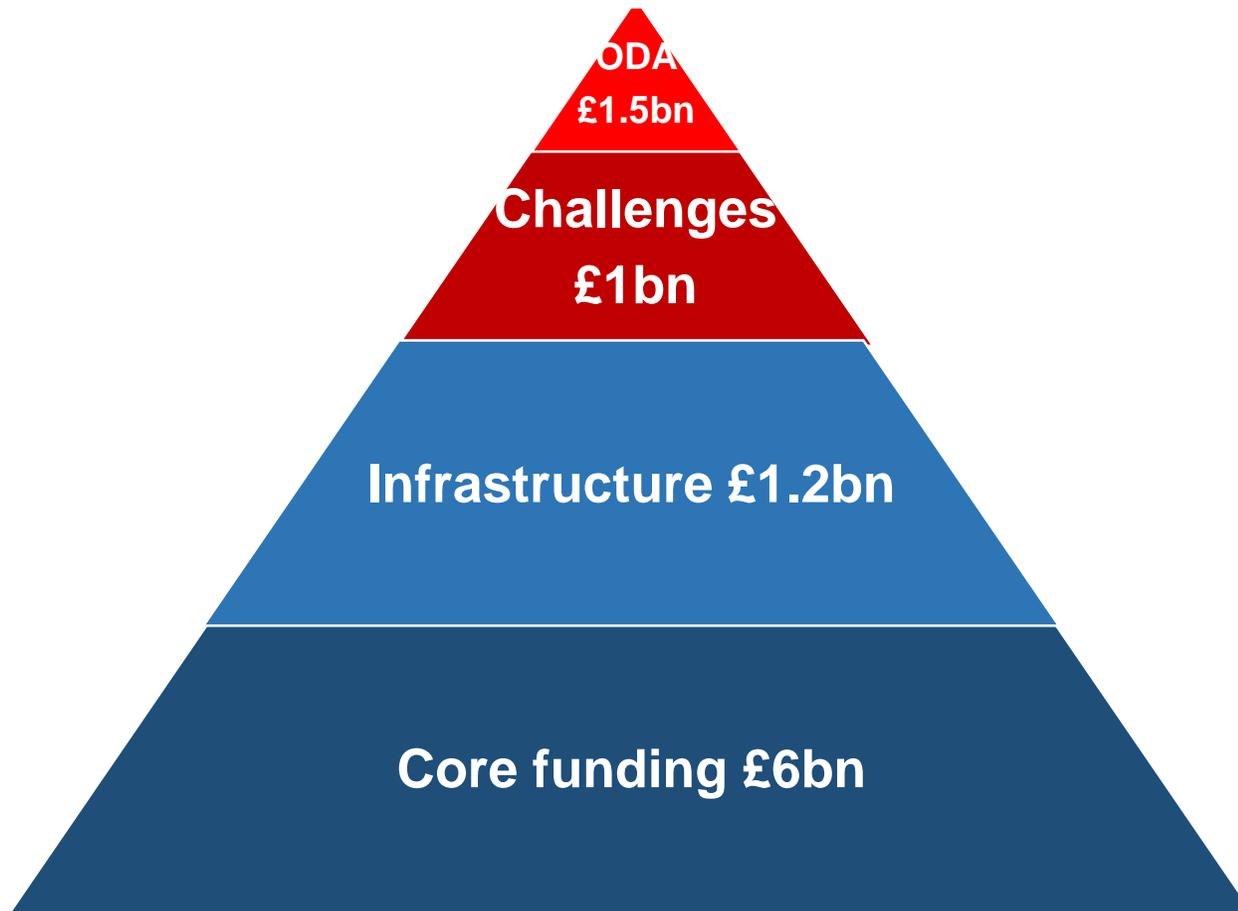
**Requires a new approach**

- Challenge Directors are a key part of the Challenges and Missions programme
- Build relationships globally and the programmes to deliver the outcome



# But the Mission-oriented approach cannot dominate domestic funding

BEIS science, research and innovation spend in 2018/19 totals £8.1bn (UKRI: £6.9bn, Other: £1.2bn)



# Need an early evaluation

- **We will evaluate the UK ISCF**, to learn lessons for the future and understand the impact of mission-led policy
- **We want to evaluate at the level of each challenge**, to understand where programmes are having the greatest impact
  - In terms of meeting their aims to support sector productivity and bring together world-class UK research with business investment to develop the technologies that will transform existing industries and create entirely new ones
- **But we also want to assess the success of the ISCF as a whole**, in meeting its aims to address the greatest challenges facing society today
- <https://www.gov.uk/government/publications/industrial-strategy-building-a-britain-fit-for-the-future>
- <https://www.gov.uk/government/collections/industrial-strategy-challenge-fund-joint-research-and-innovation>

