



# EUTOPIA

## Researching with Industry

# CHAPTER

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## Universities UK

Universities UK: What do Universities do?

**Educate** Graduates to meet UK and global demand for higher level skills

Generate World class **Research** that transforms lives

Drive **Innovation** that supports local and National Economic Growth

## Universities UK

### Higher education institutions (2017–18)

There were 164 higher education institutions in the UK

In 2017–18, there were 429,560 staff

Total income for the sector was £38.2 billion.

2.34 million students studying at UK higher education institutions.

The 2014 Research Excellent Framework rated 76% of the research submitted as 'world leading' or 'internationally excellent'.

The UK has 4% of the World's researchers, 15% of the highly cited publications.

In 2014–15, UK universities generated £95 billion in gross economic output.

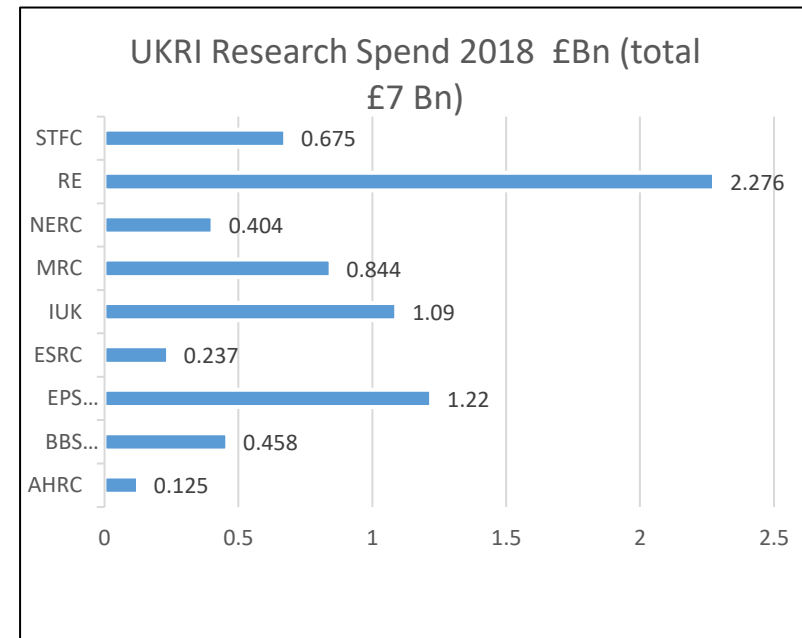
# Research Funding Landscape

From 1<sup>st</sup> April 2018 UKRI unified system for Research & Innovation  
– Research Councils, Research England and Innovate UK

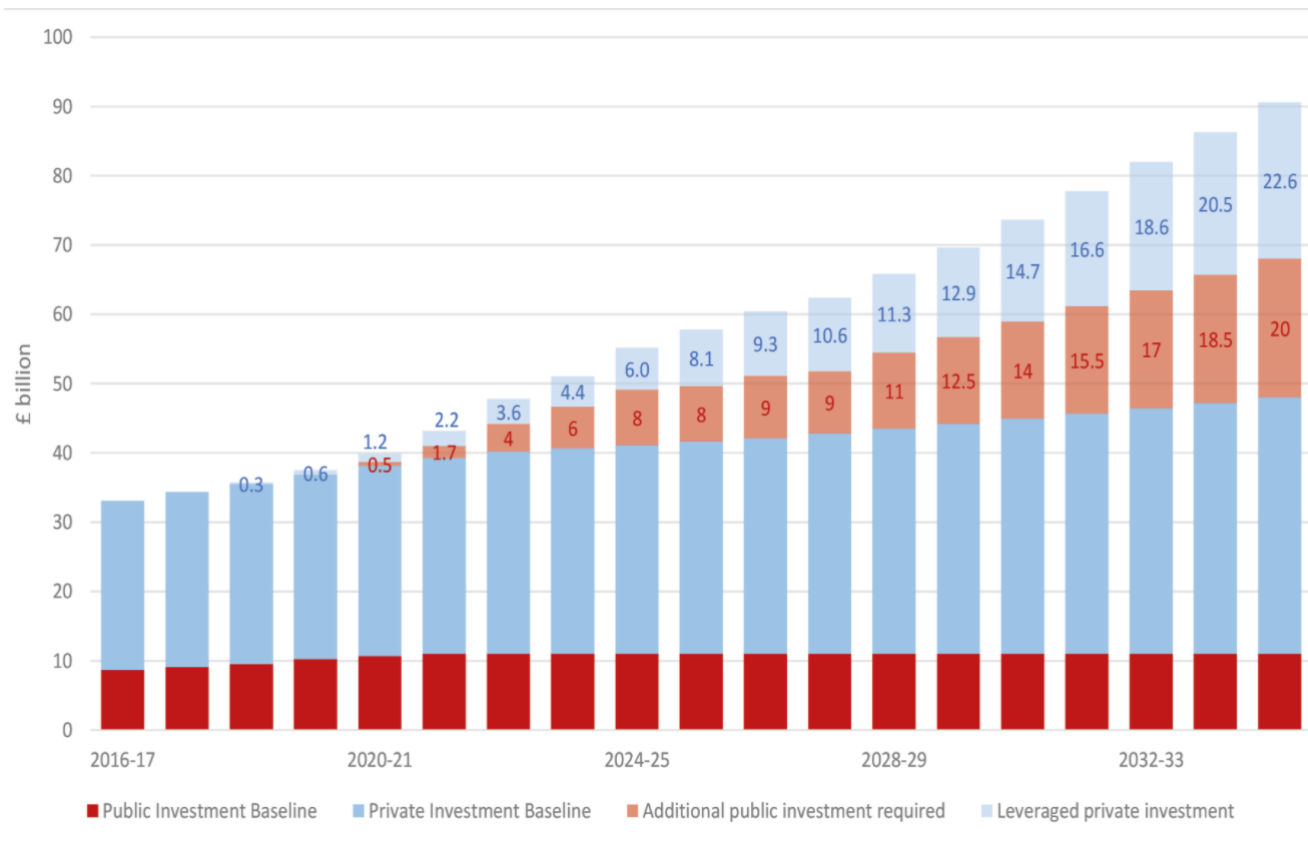
“Dual Support System” Research Councils funding “competitive” research, Research England funding Quality of Research (block grant to support Research Excellence) & Major Projects e.g. RPIF

UK Research Spend 2017 £7Bn Equivalent to **1.7% GDP**

Grand Challenges to put the UK at the forefront of future industries, in AI and data, the ageing society, clean growth, and the **future of mobility**. **Commitment set out in the Industrial Strategy to increase research and development spend to 2.4 per cent of GDP by 2027.**



2.4%?



# Research Agents and Funders



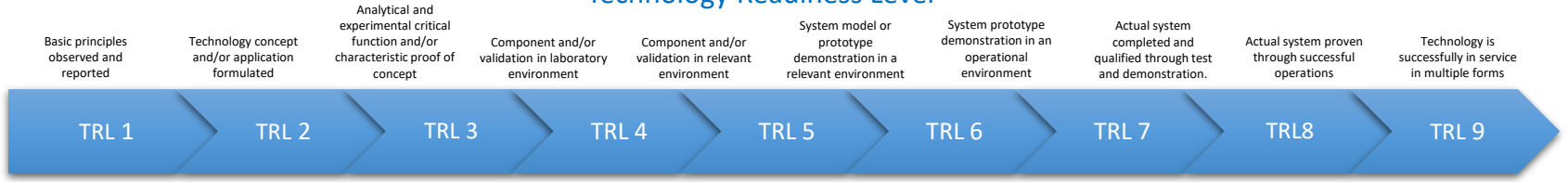
## Agents

Universities and Research Organisations

Catapult Centres

Industry and companies

## Technology Readiness Level



## UK Research & Innovation

Research councils (EPSRC, etc)

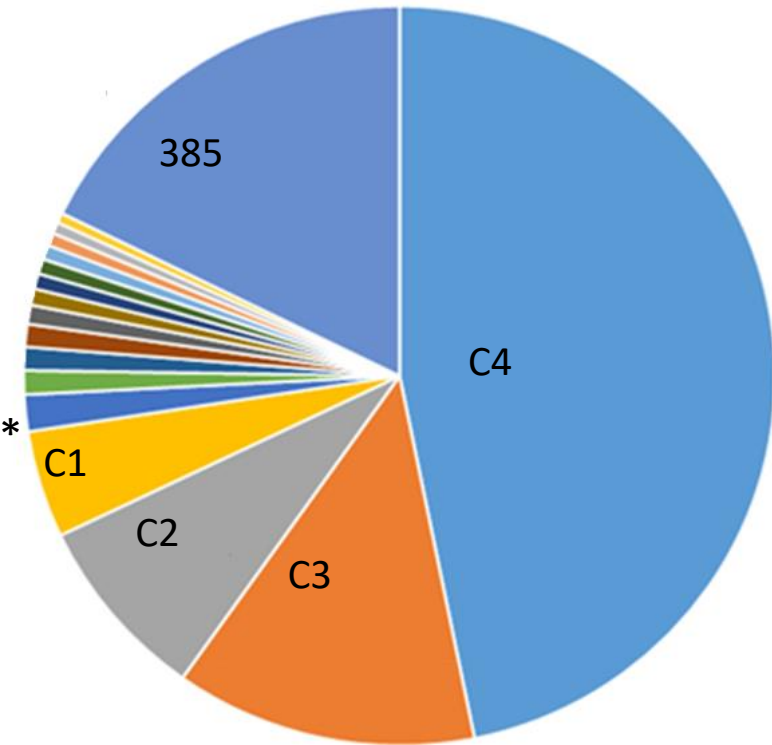
Innovate UK

Private sector funds

## Funding sources



## Warwick Research income, last full 5 years



Small number of large partners

Large number of small projects

An ideal would be a more graduated pipeline – medium sized relationships where efficiencies can be realized.



(Income from C1, C2, C3 and C4 groups actually 2 x Research value)



# WMG

## EDUCATION

- Over 2100 individuals currently studying at WMG. 1200 full time MSc students & over 900 on Professional Programmes.
- Centres in UK + China, Cyprus, India, Malaysia, Singapore, Thailand and Turkey
- Custom (bespoke) programmes, e.g. for Rolls-Royce, AstraZeneca, Network Rail, JLR, Lloyds Banking Group, Ericsson, BAE Systems, UTC Aerospace Systems
- Part-time 'open' MSc & BEng programmes
- EngD and PhD Research Degrees
- 2 WMG Academies for Young Engineers

## RESEARCH

- ▶ Contributes 41% of the University's total research activity
- ▶ Covering 5 main research themes:-  
Connected & Autonomous Vehicles; Energy; Materials & Manufacturing; Data Science, Digital & Business Transformation; Healthcare
- ▶ Open access R&D & Testing Facilities
- ▶ Research Partners: TVS, JLR, Tata Motors, William, Aston Martin...
- ▶ High Value Manufacturing Catapult
- ▶ Host to the Advanced Propulsion Centre Hub
- ▶ National Automotive Innovation Centre
- ▶ Energy Innovation Centre

**WMG: Over 750 people across ten buildings on campus, £106m annual research and education programme**

# WMG Approach with Partners

**KEEP IT SIMPLE**

**DE-RISK  
INNOVATION**

**MAKE A  
DIFFERENCE**



## Dedicated team

- Multidisciplinary
- Industry experienced

## Simple for SMEs

- Prepaid by Govt. grants
- Processes hidden

## Innovative

- Exploits technology & Advances capability

## Makes a difference

- Must be collaborative and have impact, right timed and achievable

## Networks

- 'Innovation eco-system'

## Many options for working with Warwick

- Joint collaborative R&D in one of our research consortia
- Company specific R&D projects
- Knowledge Transfer Partnerships
- Open courses and specially tailored postgraduate education programmes
- Education of staff - identify staff to attend relevant postgraduate or post experience modules
- Graduate recruitment - access to Doctorate and Masters students

## Partner benefits

- Unique capabilities
- Early access to IP
- Extended networking in multiple sectors
- Training and Skills