Innovate UK
The UK’s Innovation Agency

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1. Who we are and why we exist

- UK’s Innovation Agency – our role is to help increase UK’s economic performance by stimulating business-led innovation
- Address market failure – ‘Valley of Death’
- Sponsored by the Department for Business, Energy and Industrial Strategy (BEIS)
- Founded 1 July 2007
- Head Office in Swindon
- Two broad thrusts : Fund & Connect
- To be brought into UK Research & Innovation in 2018
Investment of £2.2bn since 2007

industry match funding taking the total value of projects above £3.75bn

Up to £16bn in added value to the economy

We’ve funded around 11,000 projects

8,000 unique organisations involved

up to £7.30 for every £1 we’ve invested.

8 jobs for each organisation involved

70,000 jobs created in total
Our 5-point plan

1. Working with the research community and across Government to turn scientific excellence into economic impact

2. Accelerating UK economic growth, nurturing small, high-growth companies, with strong productivity and export success

3. Building on innovation excellence throughout the UK, investing locally in areas of strength

4. Developing Catapults within a national innovation network

5. Evolving our funding models; helping public funding go further
2. Where does the money go?

In 2015/16 55% of our funding went to SMEs.
2. cont’d. Where does Innovate UK funding go?

- 82% of collaborative projects and 55% of ALL projects involve research base partner
- We work with >140 individual research base organisations (incl. Institutes and RTOs)
3. Fund and Connect - Connecting business with academic research and capabilities

Quantum Technologies

Synthetic Biology
The UK has a strong reputation for excellent science

- **0.9%** of the world’s population
- **3.2%** of global R&D spend
- **4.1%** of global researchers
- **140,000** academic papers per year
- **16%** of the most cited research output
- **10.9%** of citations in global patents

Data sources: Campaign for Science and Engineering and Elsevier
Technology Readiness Levels (TRLs)

Expenditure:
- Research Councils: £3.1bn
- Innovate UK: £489m
- Business R&D: £20.9bn

Data:
- Research Councils (2015-2016)
- Innovate UK (2015-16)
Technology Readiness Levels (TRLs)

- UK Research and Innovation
  - Research Councils
  - Innovate UK

Expenditure

Technology Readiness Levels (TRLs)
4. Mechanisms – how does it all work?
Sectors approach to supporting businesses

Our competitions schedule includes programmes run with partners – more details on our webpage
Sector and open programme competitions

- 2x per year
- Single company or collaborative (see early slides – big academic input)
- Broad scope
- Briefing events early after competition opening
- Typically £15m/competition (variable)
- Project duration 6 months – 3 years (typically)
- Minimum £25k, maximum low £m (again variable)
- Match funding needed (sliding scale size of business + TRL)
- Catapults can be a partner in a project
- Assessment done by independent experts who will provide detailed feedback on your proposal
- Only the best get funded
- We are looking for innovative, preferably disruptive ideas with global market potential, good market awareness by the project team, understanding how the product will be brought to market, so technology + commercialisation
Innovate UK’s Connect Portfolio – finding partners, investors, EU funding, business support, expertise, facilities.
Catapult network

- Access to state of the art facilities and expertise
- Open to businesses of all size
- UK-wide (+ global) reach
- Driving new technologies into the market
- Core funding comes from Innovate UK
- Income from projects, partly through Innovate UK, regional and EU funding
- Can be project partner
- BUT – they are not a source of funding in themselves
Knowledge Transfer Partnerships

• KTP is all about transforming businesses through the application of knowledge to create new capabilities resulting in wealth creation
  – an opportunity for businesses to innovate by accessing the expertise in UK Universities/Colleges and RTOs
  – to embed it in their business for long term benefit
  – enables companies to meet skills needs in areas of developing opportunity

• New sector portfolio approach to KTP
  – KTP will be part of Innovate UK sector competitions (with a link to the KTP instructions), and close the same day as the sector closes
  – KTP will be in the briefing event presentations and represented at most of the events
  – KTP will follow its current assessment process
  – £30m Knowledge Transfer Partnerships planned for FY17 (incl. £6.5m co-funding)
Investing in science, research & innovation
Upgrading infrastructure
Improving procurement
Delivering affordable energy & clean growth
Driving growth across the whole country
Developing skills
Supporting businesses to start & grow
Encouraging trade & inward investment
Cultivating world-leading sectors
Creating the right local institutions
Investing in science, research and innovation

We must become a more innovative economy and do more to commercialise our world leading science base to drive growth across the UK

Industrial Strategy Challenge Fund

- Industry-led and powered by multi-disciplinary research and business academic collaboration
- Develop UK industries that are fit for the future, driving progress in technologies where the UK can become a world-leader in research and commercialisation
Industrial Strategy Challenge Fund

- Medicines manufacturing technologies
- Robots for a safer world
- Batteries for clean and flexible energy storage
- Self-driving vehicles
- Manufacturing and materials of the future
- Satellites and space technology
5. Examples

- Ella’s kitchen
- Dearman Engine
6. Where to go next

• Competitions
• Catapult programme
• Knowledge Transfer Partnerships
• Enterprise Europe Network
• Knowledge Transfer Network
We can't stop thinking about the future

‘Innovation is a contact sport’
Graham Spittle