



Department for
Business, Energy
& Industrial Strategy

scdi Scottish Council
for Development
and Industry



UK Industrial Strategy Seminar

#UKISforScotland #IndustrialStrategy

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Welcome: SCDI, Scotland and the UK Industrial Strategy

Matt Lancashire, Director of Policy and Public Affairs, SCDI

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The UK Industrial Strategy's Vision and Purpose

David Mundell MP, Secretary of State for Scotland,
UK Government

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The UK Industrial Strategy's Vision and Purpose

Nader Farahati, Head of Business Engagement,
Department for Business, Energy and Industrial Strategy

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UK Industrial Strategy

Nader Farahati, Deputy Director for Business Engagement, BEIS

#industrialstrategy



The UK's approach to Industrial Strategy



The Government's modern Industrial Strategy sets out a long-term plan to boost productivity by **backing businesses to create good jobs and increase the earning power of people** throughout the UK with investment in skills, industries and infrastructure. It is a cross-government programme to which all departments are contributing, and focuses on:



Strengthening the foundations of productivity – by encouraging innovation, developing high quality jobs, supporting UK businesses and fostering growth in all parts of the UK.



Building long-term strategic partnerships with businesses through Sector Deals between government and industry.



Taking on Grand Challenges – the society-changing opportunities and industries of the future where the UK can build on its strengths and lead the world. This will be done through an innovative 'mission based' approach.

Building on Britain's strengths:

- Rated one of the most **innovative** countries in the world
- Unemployment at **only 4%** - the lowest since 1971
- **1,100 businesses** start every day in Britain – or one every 75 seconds
- Home to 3 of Europe's top 10 **fastest-growing companies** (Deliveroo, CarWow, and Local Fuel)
- Cut **carbon emissions** by more than 40% since 1990
- Home to 4 out of the world's top 10 **universities**
- Top destination in Europe for **inward-investment** projects

Our approach:

- The UK's Industrial Strategy is a long term plan to **boost productivity** and **earning power** of people throughout the UK
- We are building a Britain **fit for the future** – helping businesses create better, higher-paying jobs in every part of the UK with investment in the skills, industries and infrastructure of the future
- By planning for a rapidly changing future, we can shape new markets and build the UK's **competitive advantage** while improving everyday quality of life

Strengthening the foundations of the UK economy



The UK's five Foundations in practice

While many of the Industrial Strategy's commitments are high impact over the long-term, there have already been important signals of progress towards our commitments. These include:



£7bn record increase in public R&D investment by 2021/22. Private sector R&D spend up 5%; research jobs up 7%.



47k people started higher level apprenticeships. Published the 'Good Work Plan', following the Taylor Review.



Public funding for £200m Local Full Fibre Networks Programme and £200m to test 5G technology.



82k smaller business supported by the British Business Bank. #1 for venture capital in Europe.



Up to £1.6bn invested in Scotland through City and Growth Deals, supporting UK productivity.

More than 80 policy announcements and milestones have been met over the last year. Examples include:

Grand Challenge missions announced.

Business support to SMEs such as through the British Business Bank.

Supporting UK priorities in key areas of innovation through investing in the **Industrial Strategy Challenge Fund**, with over £1.7bn of committed through the first two waves. We are working with industry on proposals for a future third wave.

Full fibre broadband connections in hard to reach areas through UK-wide £200m **Rural Gigabit Connectivity** programme.

Apprenticeships adapted to the needs of business – over 270 new standards have already been approved across all sectors.

Building long-term, strategic partnerships with business

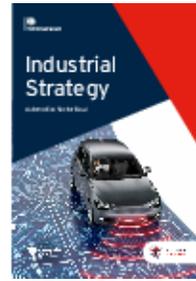


Partnerships between government and industry aiming to increase sector productivity:

10 Sector Deals have been negotiated so far, with further proposals under consideration. Agreed deals include:



Life Sciences



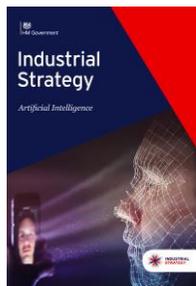
Automotive



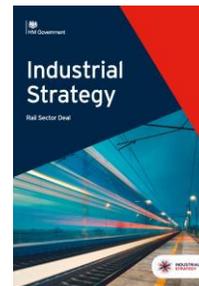
Life Sciences 2



Creative



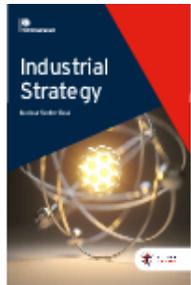
Artificial Intelligence



Rail



Off-Shore Wind



Nuclear



Construction



Aerospace

#industrialstrategy

The UK's four Grand Challenges



AI & Data

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



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



The Future of Mobility

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

Networking Break

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The Grand Challenges: Ageing Society, AI & Data, Future of Mobility and Clean Growth

Lucy Geoghegan, Head of Grand Challenges,
Department for Business, Energy & Industrial Strategy

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UK Industrial Strategy Grand Challenges

Lucy Geoghegan, Head of Grand
Challenges, BEIS



**INDUSTRIAL
STRATEGY**



The Industrial Strategy identified four **Grand Challenges** of our time to prepare for a rapidly changing future and to seize the opportunities.

The **fourth industrial revolution**, is transforming technology and society globally – the UK can build on our strengths to position us at the forefront of the industries of the future.

These Challenges will impact across the UK and need action and commitment across our **four nations**.

To identify the UK's Grand Challenges, we considered with experts:

1. Is it a complex coordination challenge?
2. Is it a global market megatrend?
3. Is it relevant to society?
4. Does it build on existing UK strengths?
5. Is it relevant to UK businesses and productivity?

Four Industrial Strategy Grand Challenges



AI AND DATA GRAND CHALLENGE

Putting the UK at the forefront of the AI and data revolution



CLEAN GROWTH GRAND CHALLENGE

Maximising the advantages for industry from the global shift to clean growth



FUTURE OF MOBILITY GRAND CHALLENGE

Becoming a world leader in the way people, goods and services move



AGEING SOCIETY GRAND CHALLENGE

Harnessing the power of innovation to help meet the needs of an ageing society



What's different about the Grand Challenge approach?



Working across the whole of the UK and with the Governments of Scotland, Wales and Northern Ireland

Use data, Artificial Intelligence and innovation to **transform the prevention, early diagnosis and treatment of chronic diseases by 2030**

Ensure that people can enjoy **at least 5 extra healthy, independent years of life** by 2035, while narrowing the gap between the experience of the richest and poorest

At least **halve the energy use of new buildings by 2030**

Establish the world's **first net-zero carbon industrial cluster by 2040** and at least 1 low-carbon cluster by 2030

Put the UK at the forefront of the design and manufacturing of zero emission vehicles, with **all new cars and vans effectively zero emission by 2040**

AI AND DATA GRAND CHALLENGE

Putting the UK at the forefront of the AI and data revolution



AGEING SOCIETY GRAND CHALLENGE

Harnessing the power of innovation to help meet the needs of an ageing society



CLEAN GROWTH GRAND CHALLENGE

Maximising the advantages for industry from the global shift to clean growth



FUTURE OF MOBILITY GRAND CHALLENGE

Becoming a world leader in the way people, goods and services move



Organisations and businesses in Scotland are taking on the Grand Challenges, while many of the actions taken by the Scottish Government align with the same priorities.

Scottish-led examples



As part of the Edinburgh and south-east Scotland City Region Deal, the Data-Driven Innovation initiative aims to help organisations and citizens benefit from the data revolution.



The Scottish Government published *A Fair Scotland for Older People: Framework for Action* in April 2019, recognising “older people as a vital part of Scotland’s potential for success”.



The Scottish Government have committed £2m to testing mobility as a service (MaaS) to provide people with better travel information, so they can decide the best way to undertake their journey.



The Scottish Government’s *Climate Change Plan 2018-2032* sets out plans to drive down emissions while growing the economy, increasing wellbeing of people in Scotland and protecting and enhancing the natural environment.

UK Government-led examples

The Chancellor announced £79 million to fund a new UK supercomputer in the Spring Statement. The new supercomputer (ARCHER 2) will be hosted at the University of Edinburgh.

We are investing in the UK Longevity Ecosystem providing £40m for a new National Innovation Centre for Ageing to develop innovations that support healthy ageing across the UK.

Winners of the CAV4 R&D funding competition (£24.3m) to deliver 6-month pilots of autonomous passenger services included Fife to Edinburgh bus service

The Offshore Wind Sector Deal builds on Scotland’s global leadership in offshore wind, maximising the advantages for UK industry from the global shift to clean growth.



Delivery of UK-wide **R&D and innovation** funding and competitions to deliver new ideas and businesses to tackle the Grand Challenges – including through global collaborations



As announced by the Prime Minister in June 2019, we will be carrying out **trade and partnership missions for each Grand Challenge** with Her Majesty's Trade Commissioners this year



We have opened the **Longitude Explorer Prize**, run by Nesta, that challenges young people across the UK to develop innovative and practical solutions to issues around the Grand Challenges



Starting in September, Tech Nation is running a programme for AI scaleup companies. Designed to give a cohort of some of the UK's most exciting tech companies exposure to later-stage founders with first-hand experience of key scaling challenges, and a peer network of like-minded founders



Green Great Britain Week 2019 — 4-8 November 2019 — will be held in support of our net zero emission by 2050 target

How can you get involved?

We want to work with businesses and other stakeholders to deliver the Grand Challenges. We want your ideas, case studies, views on missions and how we can engage with stakeholders to co-develop and co-deliver on these Challenges.

Please **contact us** at grandchallenges@beis.gov.uk and use the following hashtags [#industrialstrategy](#) and [#grandchallenges](#)

And don't forget to check out the latest progress on our website: www.gov.uk/industrialstrategy, where you and your contacts can get involved in things like Green Great Britain Week and the Tech Nation Applied AI programme



The Grand Challenges: Ageing Society, AI & Data, Future of Mobility and Clean Growth

Prof. Susan Deacon CBE, Member of the Scottish Business Taskforce and Champion of the Ageing Society Grand Challenge – Ageing Society

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The Grand Challenges: Ageing Society, AI & Data, Future of Mobility and Clean Growth

Dr George Hazel OBE
– Future of Mobility

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The Grand Challenges: Ageing Society, AI & Data, Future of Mobility and Clean Growth

Brian Hills, Head of Data, The Data Lab
– AI & Data

The Grand Challenges: Ageing Society, AI & Data, Future of Mobility and Clean Growth

Chris Van der Kuyl, Chairman, 4J Studios,
Member of the Scottish Business Taskforce and
Champion of the AI & Data Grand Challenge – AI & Data

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The Grand Challenges: Ageing Society, AI & Data, Future of Mobility and Clean Growth

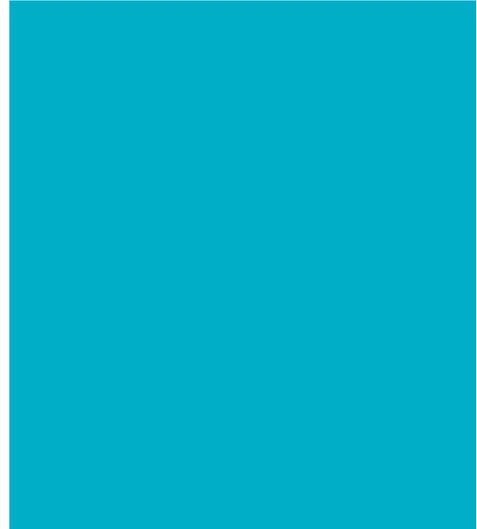
Kacper Stefaniak, Strategy Analyst,
Offshore Renewable Energy Catapult – Clean Growth

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Grand Challenges: Clean Growth

17/06/2019

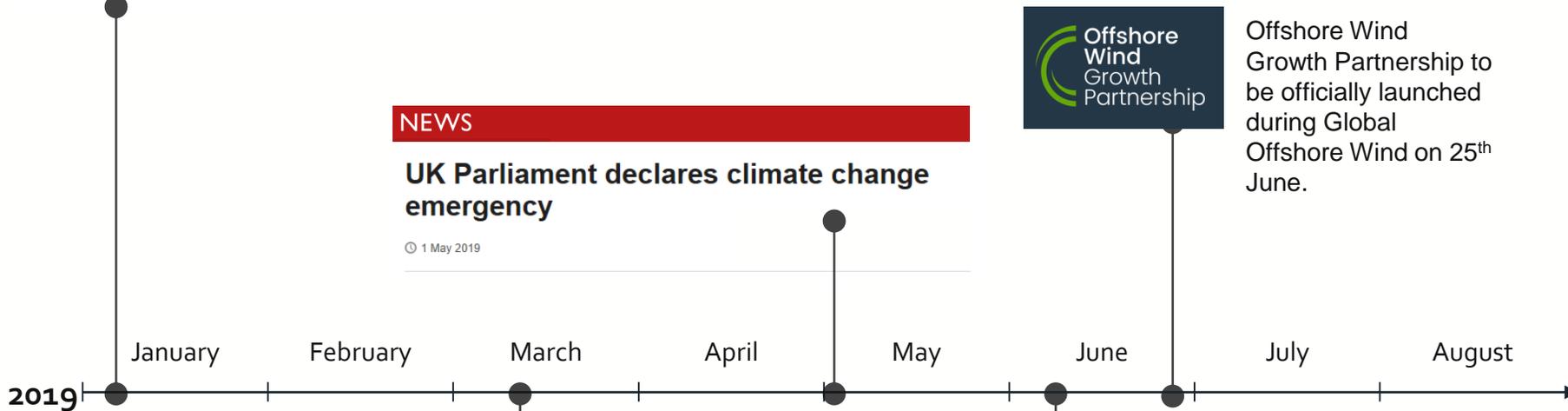
| Kacper Stefaniak

Background and policy implications

First 6 months of 2019 saw a strong push towards Clean Growth

HOME NEWS & FEATURES

2018 was 4th hottest year on record for the globe



NEWS

UK Parliament declares climate change emergency

1 May 2019

Business transformation programme launched



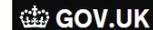
Offshore Wind Growth Partnership to be officially launched during Global Offshore Wind on 25th June.



Press release

Offshore wind energy revolution to provide a third of all UK electricity by 2030

Energy and Clean Growth Minister Claire Perry announced today the launch of the new joint government-industry Offshore Wind Sector Deal.



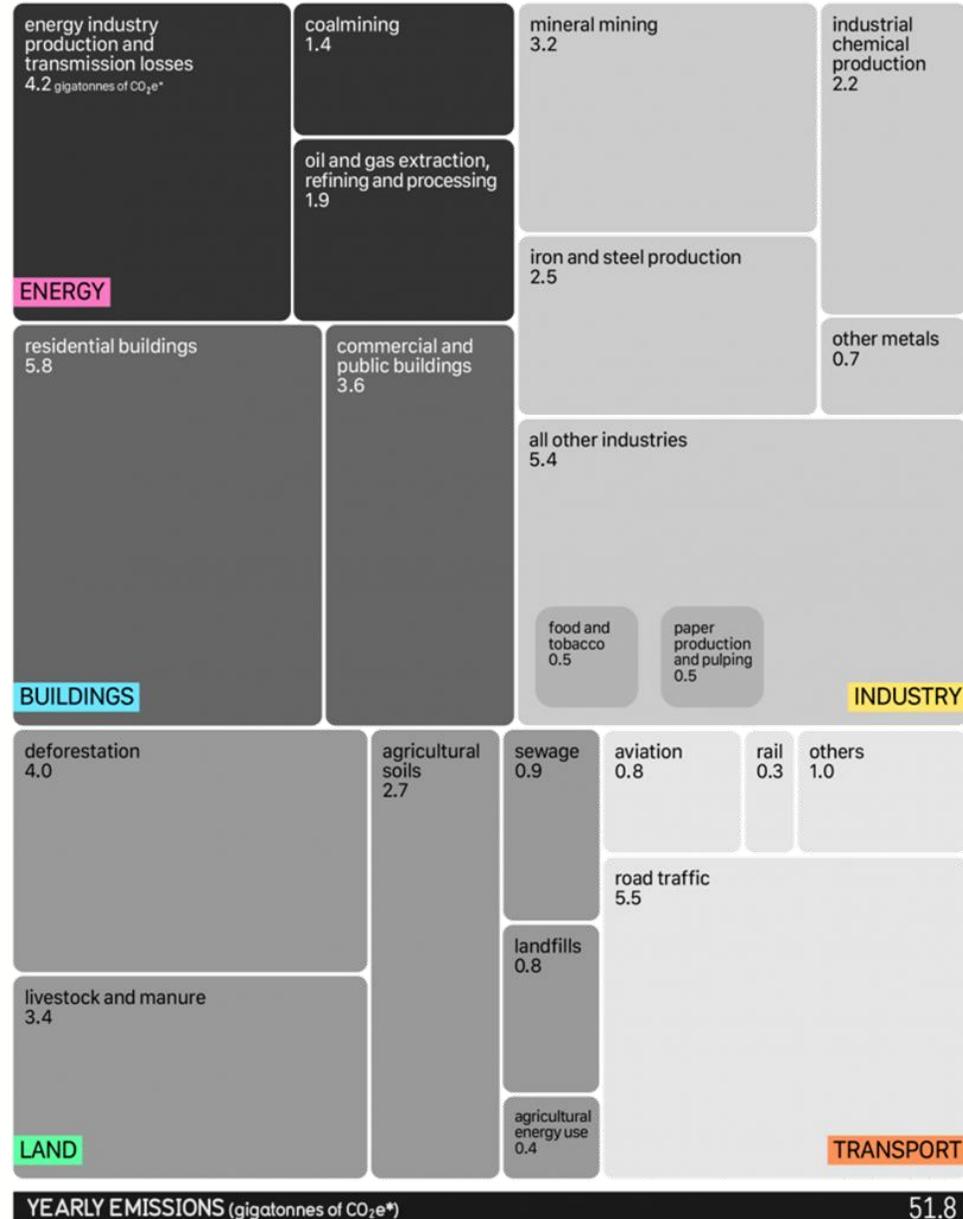
Press release

PM Theresa May: we will end UK contribution to climate change by 2050

Legislation laid today puts the UK on the path to become the first major economy to set net zero emissions target in law.

Clean Growth challenge – how do we get to Zero-Carbon emissions

Current Emissions



Selected policies to Zero by 2050

Energy

- % renewable electricity by law and subsidies
- Early retirement of fossil-fuel power plants
- Grid-scale electrical storage

Industry

- New efficiency standards
- Switch from coal to biogas, biomass and other sustainable alternatives
- Facilities designed to reduce waste

Buildings

- Higher energy-efficiency standards
- Electrification of heating, furnaces, stoves

Transport

- Fossil-fuel vehicles phased out
- Tax on aviation fuel
- Higher fuel-economy standards

Land

- Methane capture and use
- Improved forest and livestock management

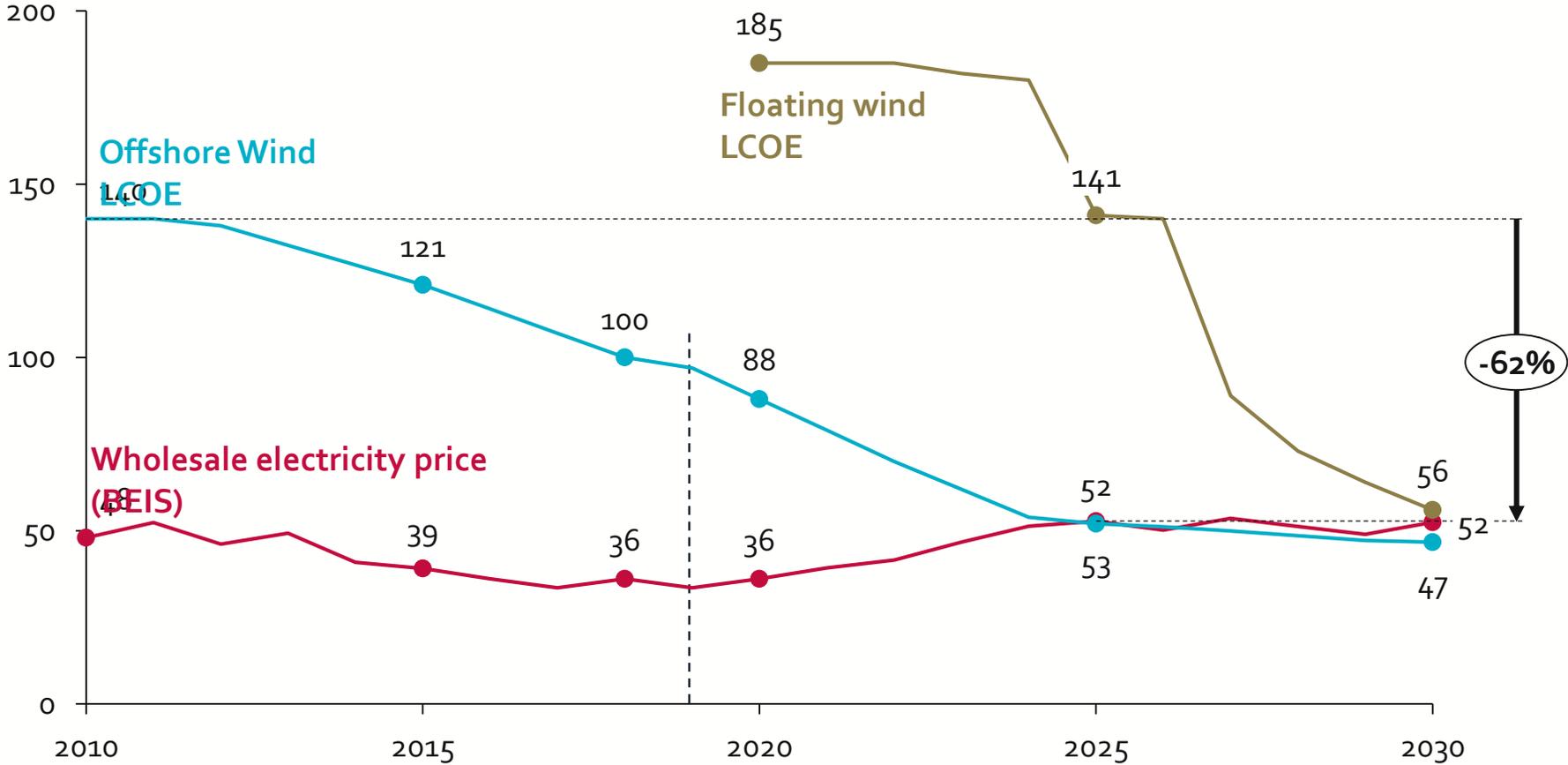
*CO₂e, or carbon dioxide equivalent, is a standard unit for measuring the impact of different greenhouse gases

Emissions attributed where they are used, not where they are produced

Source: ECOFYS, Exponential Climate Action Roadmap, New Internationalist

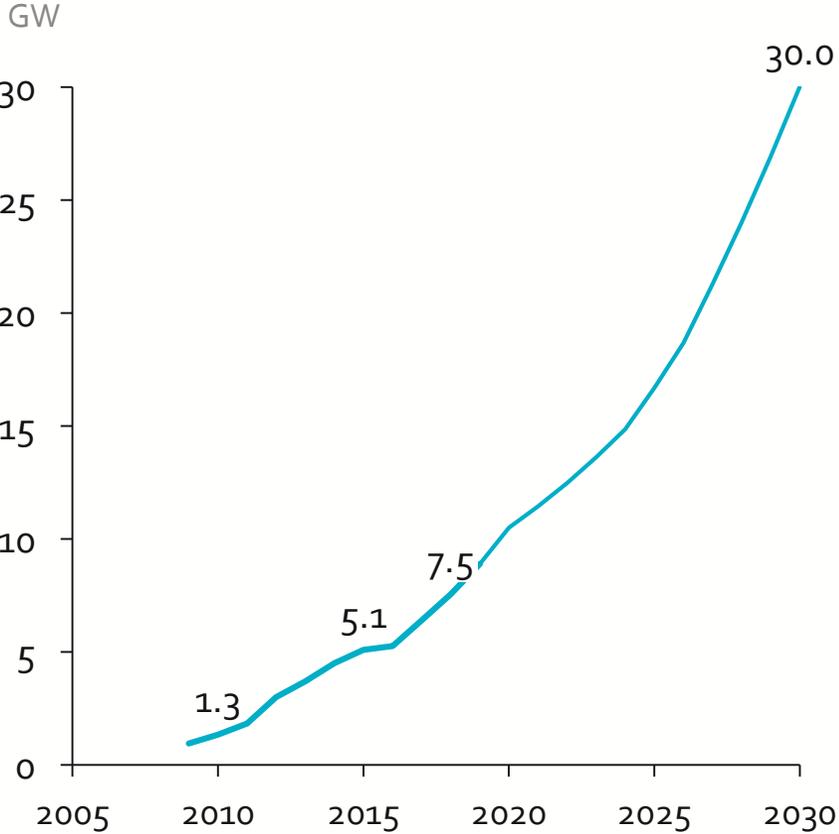
Offshore wind levelised cost of energy in UK will decrease by 62% in 15 years and reach wholesale electricity price by 2025

Offshore wind and electricity market prices (2012 prices)

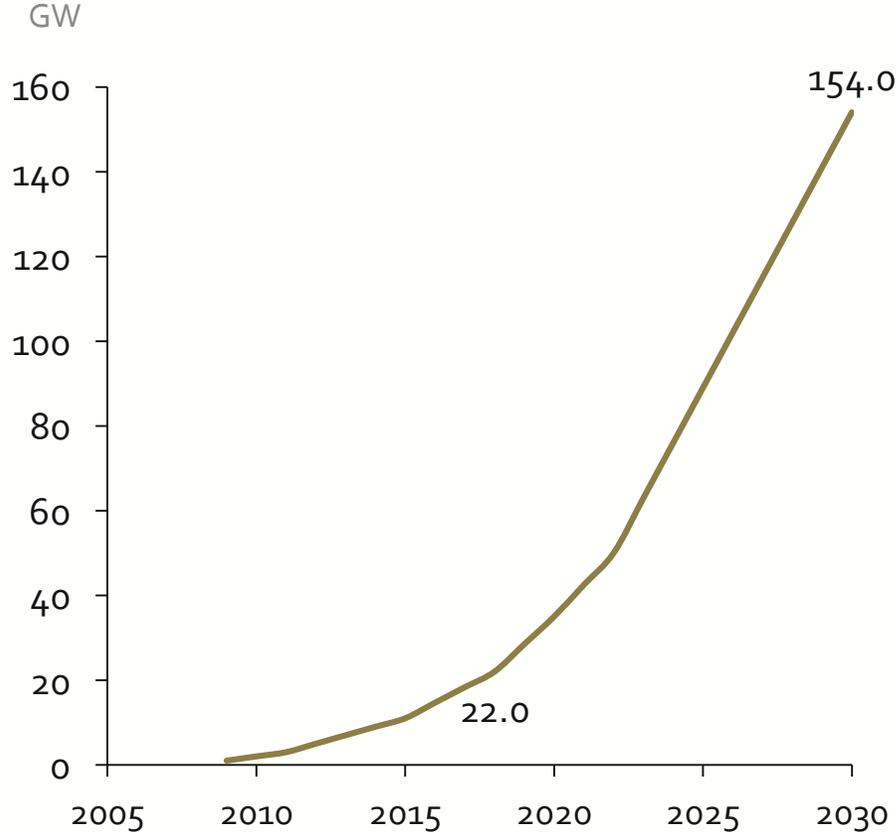


Offshore Wind accounted for 8% of UK electricity generation in 2018 and set to increase to 33% by 2030

Total cumulative deployment of offshore wind in UK



Total cumulative deployment of offshore wind globally



Source: ORE Catapult database

Opportunities

Goal

Maximise the advantages for UK industry from the global shift to clean growth

Objectives



Government visibility over future rounds of CfD support



Industry commitment to increase UK content to 60% by 2030



Increased representation of women in the industry to at least 1/3 by 2030



Increased exports fivefold to £2.6bn by 2030



Investment in supply chain

- Offshore Wind Growth Partnership (OWGP) is a long-term business transformation programme delivered over the next 10 years
- Main goal is to deliver increased productivity and competitiveness that will drive increased UK content into offshore windfarms in the rapidly growing global market as well as in the UK
- Over the next ten years delivery will focus on direct support to supply chain companies through a combination of strategic capability assessment, advisory services and grant funding. ORE Catapult will be a main delivery partner with support of other companies in particular advisory strands.

Strand	Description
A - Collaborating for Growth	Enhanced engagement between developers and supply chain to increase competitiveness and build capacity.
B - Business Competitiveness	An intensive structured business improvement programme with tailored support from specialist delivery partners to improve competitiveness and build export capability.
C - Building New Capacity	Increasing the breadth of the UK supply chain through cross-sector engagement to attract new entrants to the offshore wind sector including strategic capability assessment
D - Supply Chain Futures	Supporting new innovations and UK IP in areas such as robotics, advanced manufacturing, new materials and automation.

- **Fit for Offshore Renewables (F4OR)** is a unique, **free** service to help the UK supply chain get ready to bid for work in the offshore renewable energy sector.
- Adaptation of the successful Fit for Nuclear programme (F4N), with a key focus on business excellence.
- Pilot programme kicked off in Scotland, with funding secured to support **20 Scottish companies**.
- Developing a long-term delivery of the programme across the UK will be a part of OWGP.

Objectives

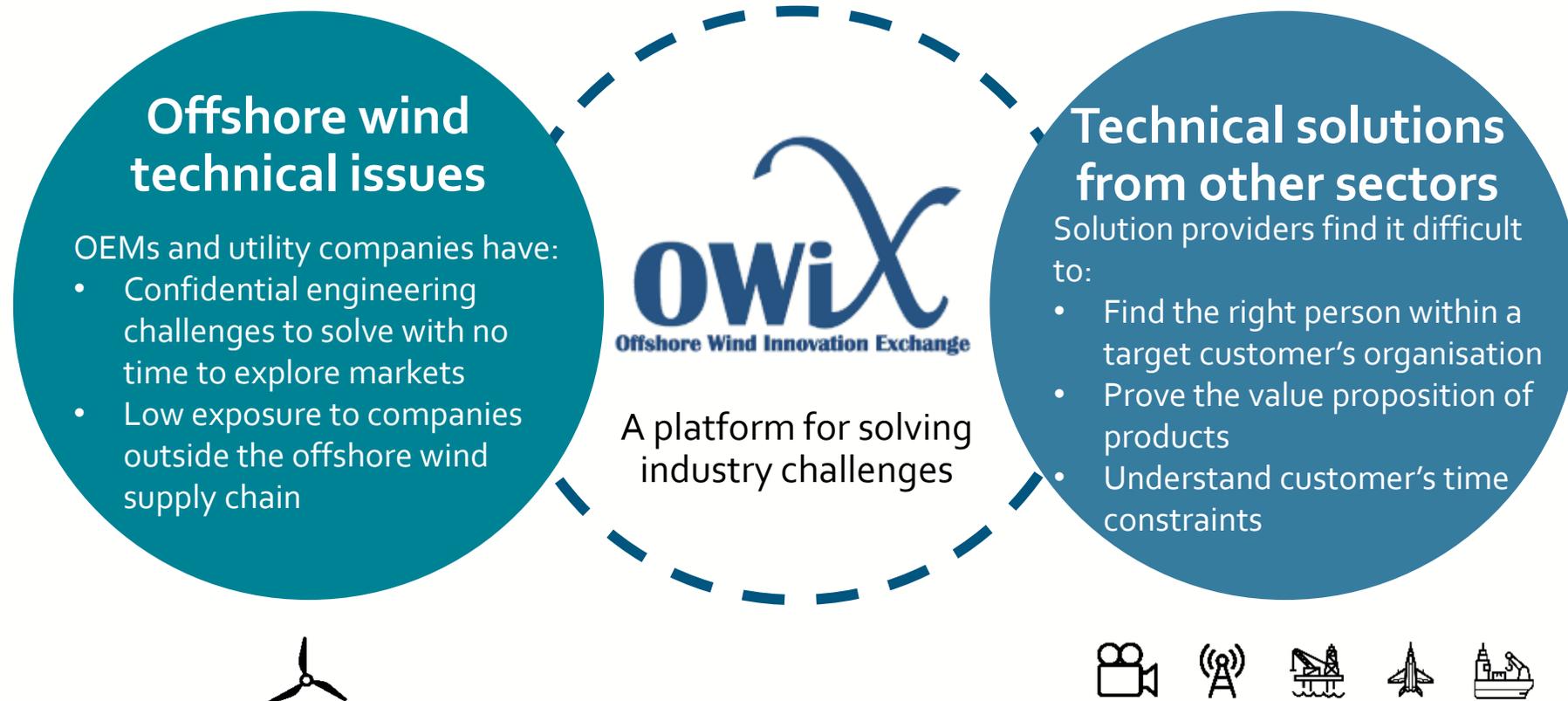
- Increase competitiveness to support continued cost reduction in offshore renewables.
- To help secure long-term economic benefits in the UK.

<https://ore.catapult.org.uk/f4or-form>



The Offshore Wind innovation eXchange (OWiX) is an innovation platform that solves offshore wind industry challenges by running competitions to connect solution providers in different sectors directly with offshore wind industrials.

List of open challenges is available [online](#)



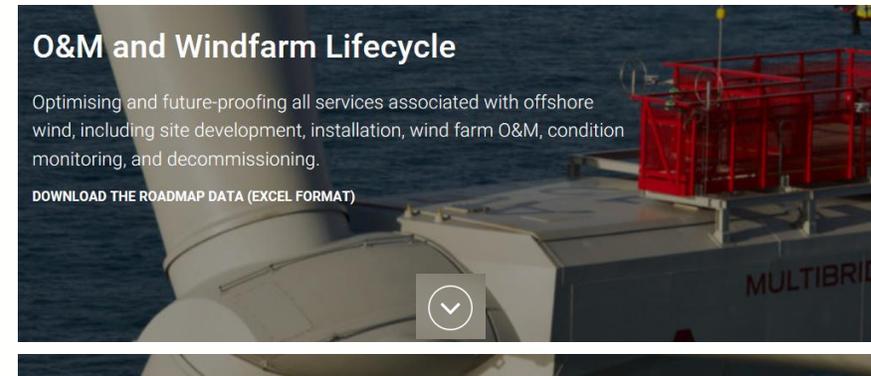


What they are?

- OWIH Innovation Roadmaps are prioritisation tools that identify the innovation needs of the offshore wind sector.
- They have been developed in collaboration with industry, supply chain, and academia to present an impartial sector-wide view of priority areas for offshore wind.
- They provide potential market opportunities to innovators and the supply chain.

Where to find them

- roadmaps.offshorewindinnovationhub.com



Filtering options ▾

COLLAPSE ALL

Roadmap	2018	2023	2028	2033
<input type="checkbox"/> O&M and Windfarm Lifecycle	[Bar spanning 2018-2033]			
<input type="checkbox"/> Operations	[Bar spanning 2018-2033]			
<input type="checkbox"/> Commercial & Strategy	[Bar spanning 2018-2033]			
<input type="checkbox"/> Trade & Yield Optimisation	[Bar spanning 2018-2033]			
Disruptive technologies for day ahead w	[Bar spanning 2018-2033]			
Improved accuracy of existing day ahead	[Bar spanning 2018-2033]			
Grid Notification Tools	[Bar spanning 2018-2033]			
<input type="checkbox"/> Coordination & People	[Bar spanning 2018-2033]			

Contact us

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University of Hull
HU6 7RX



Networking Lunch

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Opportunities for Scotland

Bob Martin, Manager for Scotland, Innovate UK

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Innovate UK

The OPPORTUNITY of the UK INDUSTRIAL STRATEGY

Glasgow

17th June 2019

scdi Scottish Council
for Development
and Industry



Innovate UK is part of
UK Research and Innovation

Managers based across the UK working with government and innovation stakeholders



Bob Martin

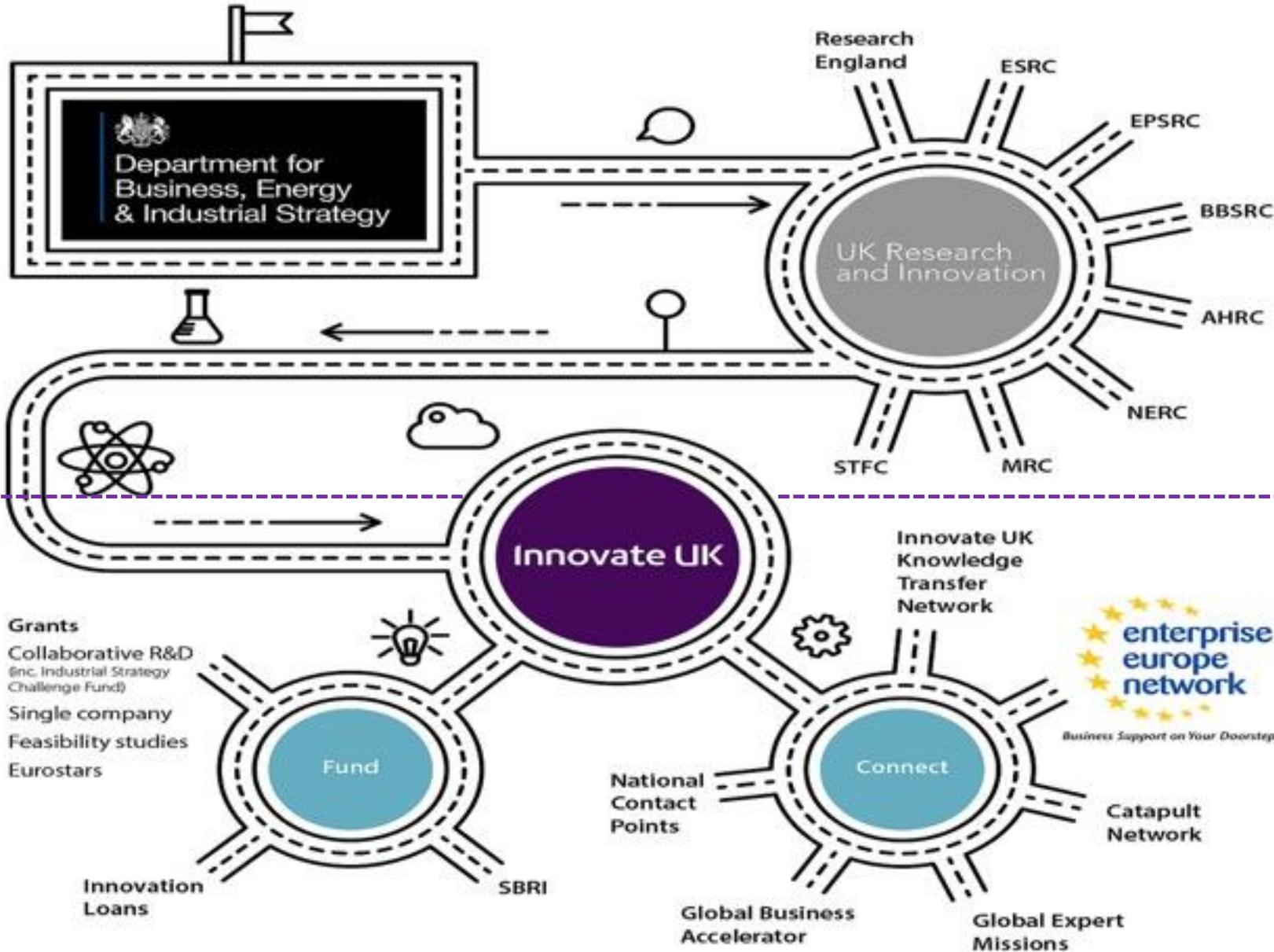
Innovate UK's
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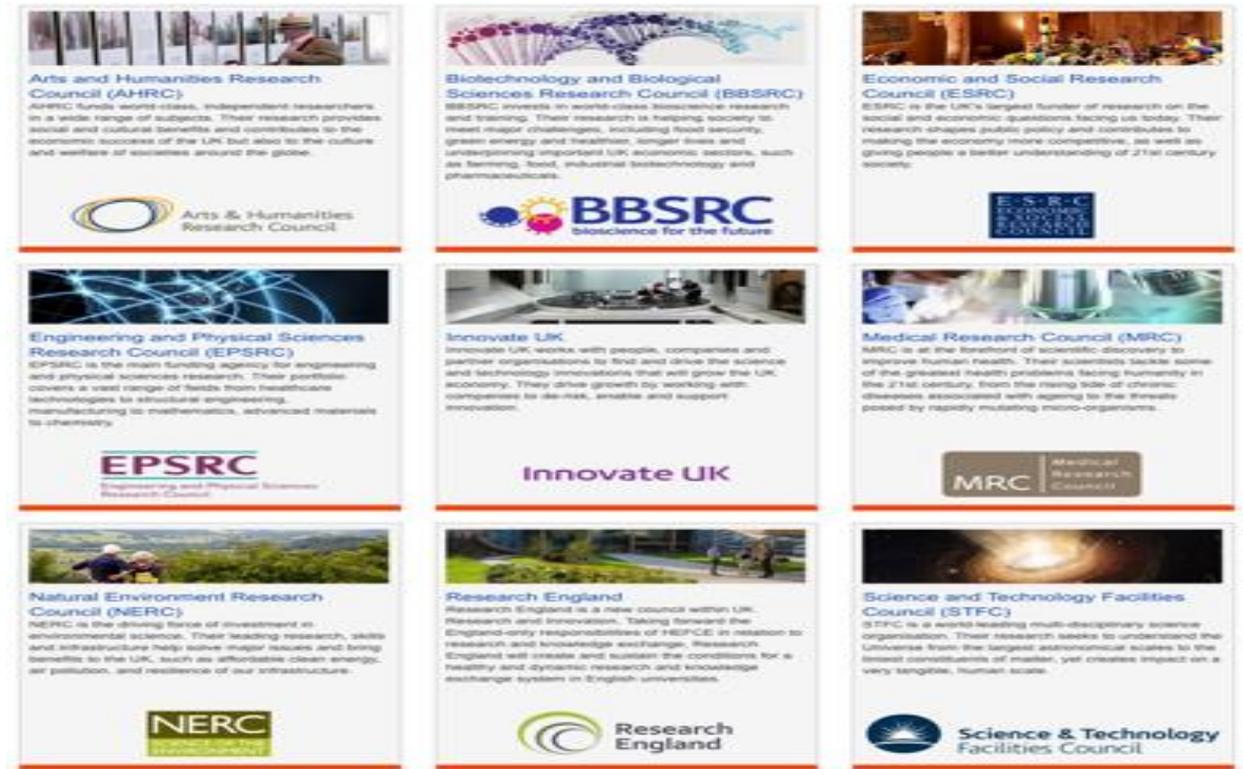
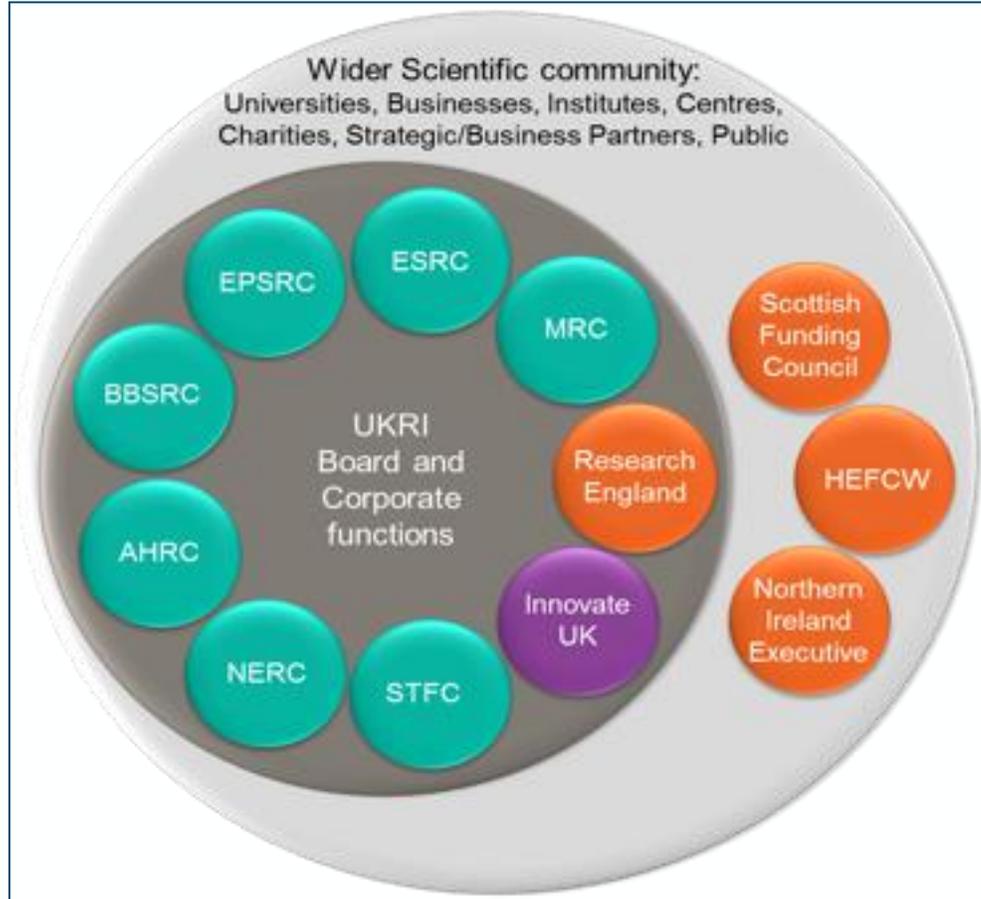
@InnovateBob

- Place based presence across the UK innovation ecosystem
- Strengthening relationships
- Identifying national & regional hubs
- Engaging affiliate funders to enhance support for businesses
- Promoting collaborations, alignment & influencing innovation strategies
- Promoting Business Innovation for economic and social benefit



BUSINESS LED INNOVATION SUPPORT

UK Research and Innovation

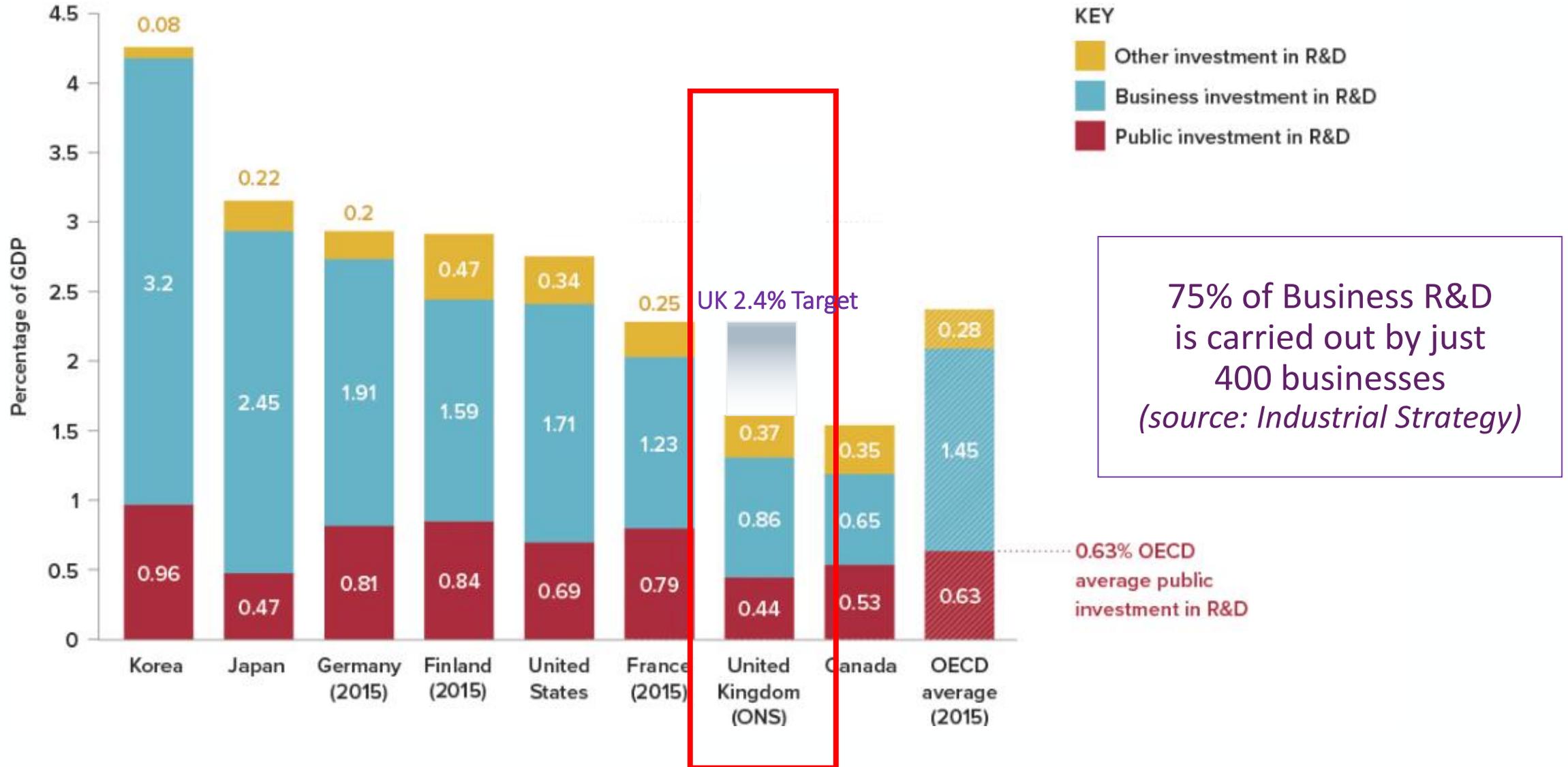


- More than £6.5 billion in combined budget per year
- 3,900 research and business grants issued every year
- 2,400 business-led collaborative projects and over 200 Knowledge Transfer Partnerships
- 151 universities and HEI receiving research funding
- 38 institutes, laboratories, units, campuses and innovation catapults

The UK's innovation agency

- we are at the heart of delivering government's Industrial Strategy and target of UK R&D expenditure reaching 2.4% of GDP by 2027
- we act as a transformative agent for change in the UK economy by accelerating productivity and driving disruptive innovation
- we support innovation, from spin-outs and start-ups to established companies with the ambition to scale and grow in the UK and through global markets
- we help companies of all sizes in all sectors access the research, partners, investors and markets they need to innovate and grow

Comparisons of global investment in R&D Innovate UK

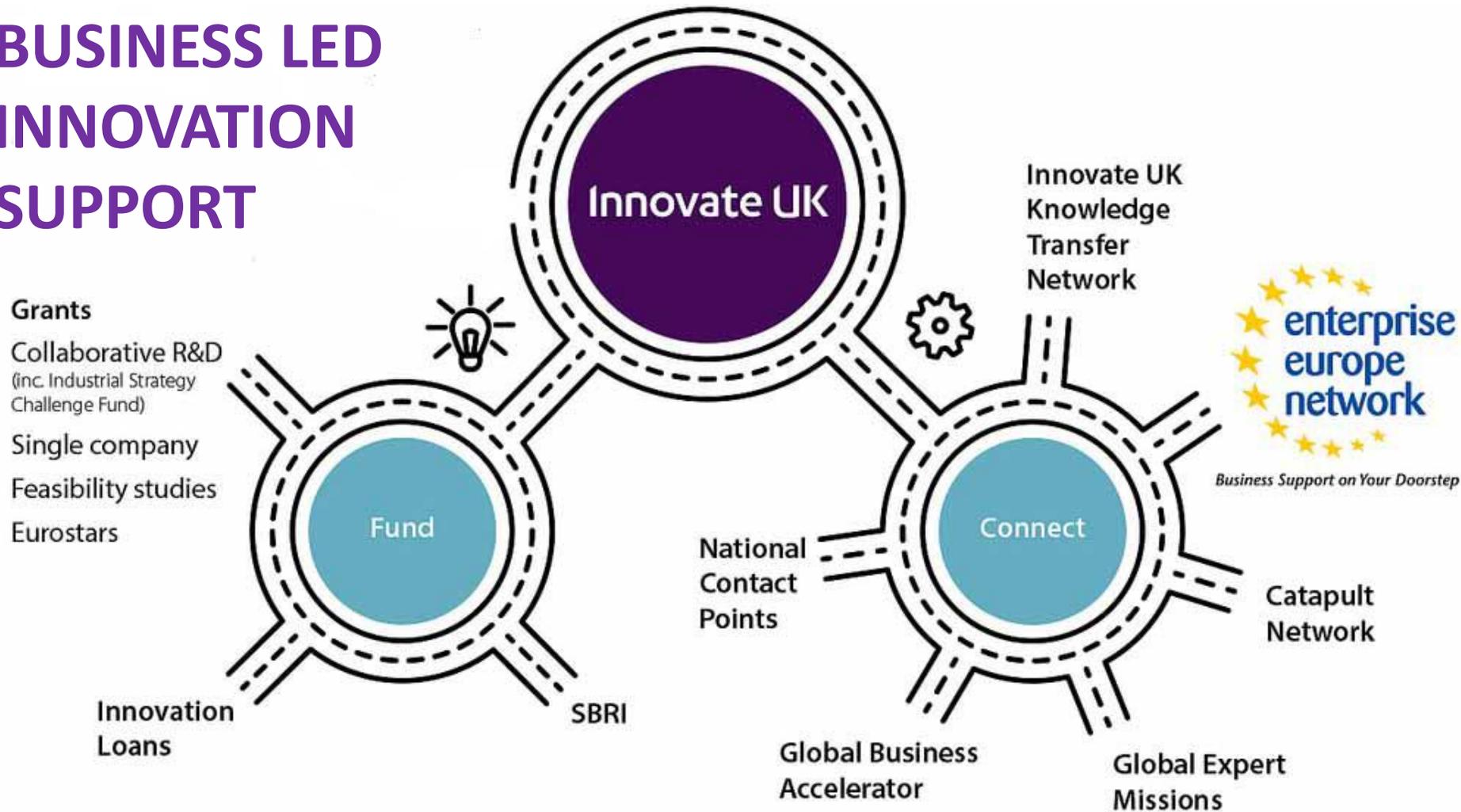


What is innovation ?

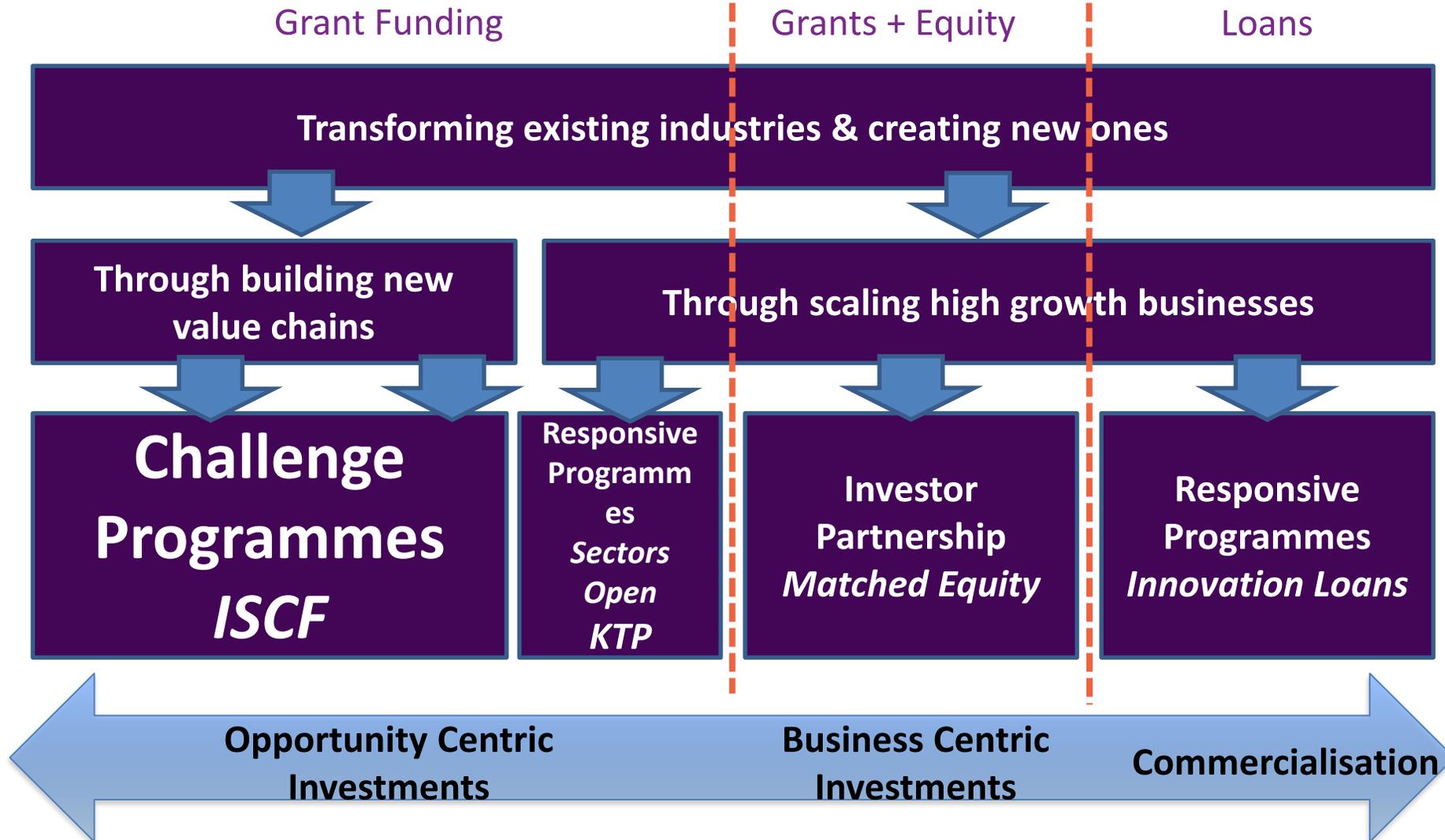
Impact from new ideas

- ✓ Innovation is good for businesses, good for the economy and society
- ✓ Innovation accounts for a large proportion of productivity growth – that is doing things better in less time or with less resource
- ✓ And we know that innovative businesses grow faster and export more
- ✓ A stronger economy promotes Inclusive Growth

BUSINESS LED INNOVATION SUPPORT



Funding Continuum – funding risk - getting new products to market



De-risking early stage - moving towards commercialisation

1. Funding to Business



- Grant funding alongside a business' own investment which helps them take bigger risks
- Innovation Accelerators where Grant and Private Investment is pre-aligned.
- Innovation Loans Programme *“for businesses on the edge of greatness”*

Open funding – “Smart Awards”

For businesses in any sector

- Open funding enables businesses to apply for grant funding regardless of technical or industrial area of focus
- funding is offered to businesses that submit the best proposals in a competitive application process
- 5 open competitions to be run in 2019 each offering £20 million funding

Innovate UK

Current competition closes 12:00hrs 24th July 2019

Investment accelerator

New partnerships with Private Sector Funders

Innovate UK

The Industrial Strategy identified our investment accelerator model as a new approach to financing innovation, highlighting its potential to scale up businesses.

We ran 2 investment accelerator programmes in 2018 and 2019. A full evaluation of the model has been commissioned to examine the impact of the pilot and the results will be published between 2019.

Innovation loans

For businesses on the edge of greatness

We are running a pilot programme of loan competitions until the end of 2019. The programme aims to ensure that businesses can access funding at all stages of innovation.

2018/2019 - £50 million available for business innovation projects near to market
Further £25 million approved

Offered through competitions to UK SMEs that want to scale up by developing new services

Can be used for late-stage R&D projects not yet at the point of commercialisation

Delivered by Innovate UK Loans Ltd, a wholly-owned subsidiary of Innovate UK

Innovate UK

Global Business Innovation Programme

Innovate UK

Developing new partnerships globally.

To grow and scale up successfully, UK companies need to access knowledge and develop new partnerships globally. We are expanding our support available to businesses through:

- UKRI international fund, worth approximately £110 million over 3 years
- funding 8 global expert missions in priority countries and 12 global business accelerators, which will help over 180 UK businesses explore global opportunities
- continuing to deliver our Newton Fund programmes with £18 million investment in 2018-19, and £10 million in 2019-20
- We continue to promote involvement in Horizon 2020 through National Contact Points, Enterprise Europe network, the Knowledge Transfer Network and Innovate UK's Brussels Office

SBRI: the small business research initiative

Innovate UK

Helping government, helping businesses

Helping government:

SBRI helps government organisations solve tough challenges by connecting them with innovative businesses.

Helping businesses:

SBRI offers innovators the chance to win a government contract of £1 million or more to help demonstrate and develop their new technologies.

- over 80 public sector organisations participated
- average annual sales grow 30%

Jenny Griffiths, founder, Snap Fashion

Strength in Places Fund

A place-based approach to research and innovation funding, to support significant regional growth



Wave 1 £115m
EOI (£50k)



1. Accelerating the 4th industrial revolution across Scotland's Central Belt
2. Clyde Waterfront Innovation Campus
3. Global Centre of Excellence in Open Banking (COB)
4. Economic growth in Glasgow through precision medicine

- Decarbonisation of Maritime Transportation

N. Ireland

Scotland

North East

- Centre for Sustainable Advanced Manufacturing
- Establishing the UK Hydrogen Corridor
- North East Cluster for Healthy Ageing and Independent Living

Yorkshire & Humber

- Energy Estuary 2.0
- Delivering World-Class Glass Research in the Northern Powerhouse
- Medical Technologies in the Leeds City Region

North West

- AI-Enabled Materials Chemistry across the Mersey Basin
- Delivering Integrated Solutions for Human Infections

East Midlands

- Growing Rehabilitation Industries Project (GRIP)

West Midlands

- Med Tech CONNECT

Wales

- CS Connected

East of England

- Realising Economic Potential from Agricultural (and Horticultural) Yield
- Supply Chain 4.0 Southeast Midlands Hub of Excellence

South West

- Cyber Wales and West
- The Environmental Intelligence Accelerator
- My World

Greater London

- Performing Productivity in the Thames Estuary Production Corridor

South East

- Growing Kent and Medway

Strength in Places Fund

A place-based approach to research and innovation funding, to support significant regional growth



Wave 2 +£100m
EOI (£50k)
Open Now

- Glasgow Event - 18th June
- Aberdeen Event - 24th June

Wave 2 EOI Closes 12:00 9th October

Not just Place as Geography Diversity and Inclusion

At Innovate UK we are committed to encouraging diversity and inclusion in business innovation.

We want to find the best and most talented innovators from a diverse range of backgrounds, and provide them with the resources, advice and self-belief to succeed.

Our approach shines a spotlight where there is currently under representation in business innovation.

Innovate UK



Women in Innovation

Encouraging and supporting diversity in innovation

- we are working to ensure women's ideas are heard and they have the support to turn them into successful businesses
- we found that just 1 in 7 applications for our funding came from women
- our first campaign saw a 71% uplift in women-led applications for support



Ideas Mean Business

Encouraging and supporting diversity in innovation

In 2017 we partnered with the Prince's Trust on campaign encouraging more young people to develop their innovative business ideas.

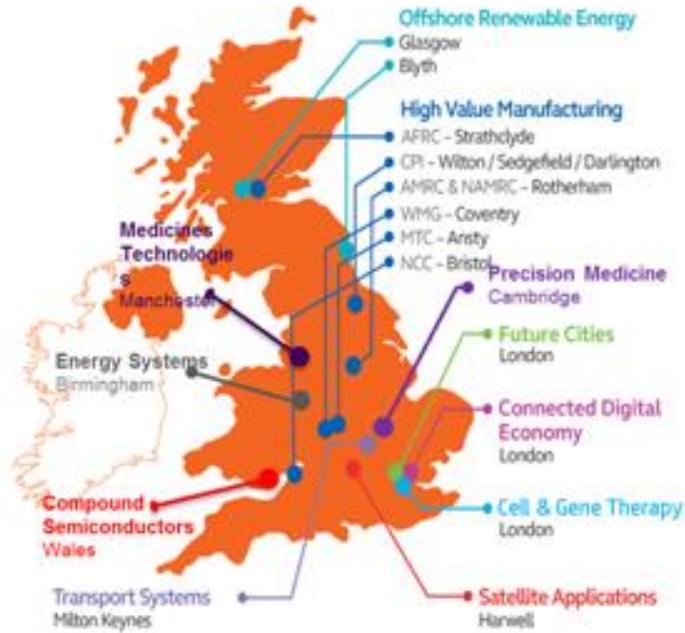
11 regional innovation events across the UK, giving 150 young people innovative business advice and guidance

24 young people aged 18-30 received funding, an innovation mentor, and an allowance



**#IDEAS
MEAN
BUSINESS**

Funding for access to cutting edge equipment and expertise



CATAPULT



CATAPULT
Offshore Renewable Energy



CATAPULT
Cell and Gene Therapy



Connecting

Knowledge Transfer Network (KTN)

- Within and, critically, between sectors
- Between business and research
- With international partners

KTN links new ideas and opportunities from all sectors with expertise, markets and finance through a network of businesses, universities, funders and investors.

UK Research
and Innovation

<https://ktn-uk.co.uk/>



Connecting - Supporting for growing business

Innovate UK leads the Enterprise Europe Consortium in England, Wales and NI

EEN Scotland is organised separately but part of the same network funded and delivered by Scottish Enterprise & the Highland Council



Innovate to grow

Improve the way you manage innovation, commercialise great ideas and grow your business.

[Find out more](#)



Access finance

Grow your business by tracking down long-term finance from the public and private sectors.

[Find out more](#)



Advisers worldwide

Take an international view with a network spanning more than 60 countries, including USA, Canada,

[Find out more](#)



Find trusted partners

Work with tried-and-tested partners to develop your products or services.

[Find out more](#)



Move into new markets

Expand into new countries with help from local experts.

[Find out more](#)



Grow further and scale up

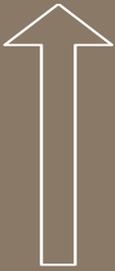
Rapidly expand your business to become world-beating

[Find out more](#)

Investment of
£2.5bn
since 2007



Industry match
funding taking
the total value of
projects above



£4.3bn

Up to
£18bn



in added value
to the economy

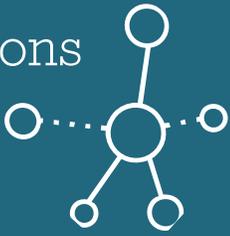
Up to
£6-7
for every
£1 we've
invested



We've funded around
11,000
projects



8,500
unique
organisations
involved



9 jobs
for each
organisation
involved

70,000
jobs created in
total



Innovate UK Scotland Funding

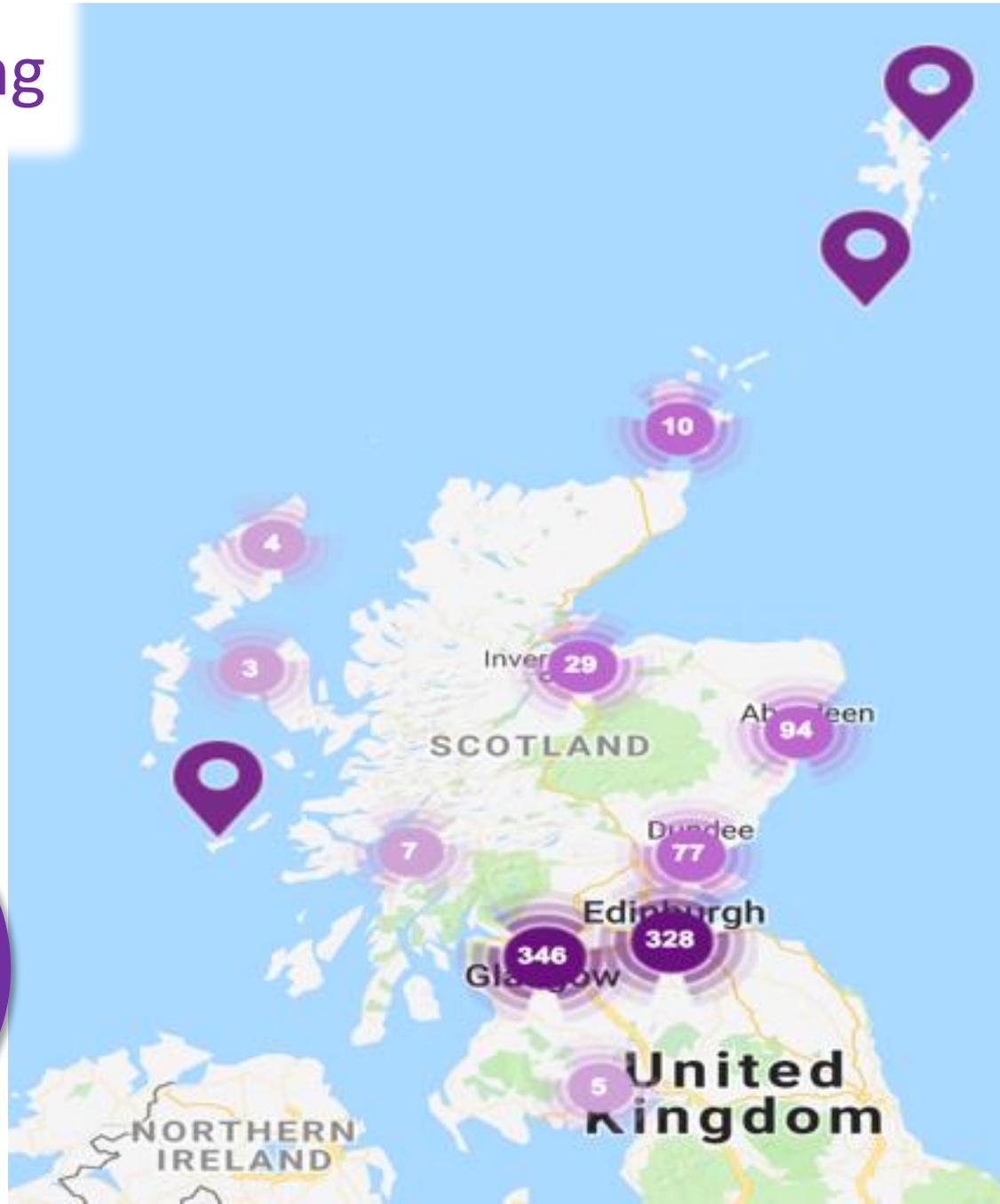
<https://datavis.innovateuk.gov.uk>

2007-2018

£428
million

1861
projects

883
companies
/ orgs

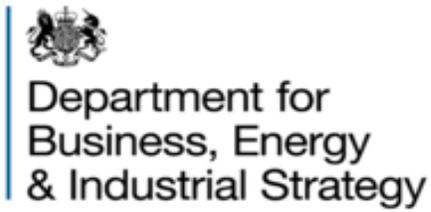


approx.
7000
jobs

approx.
£3.1
Billion
GVA

£1 =
£7.30
GVA

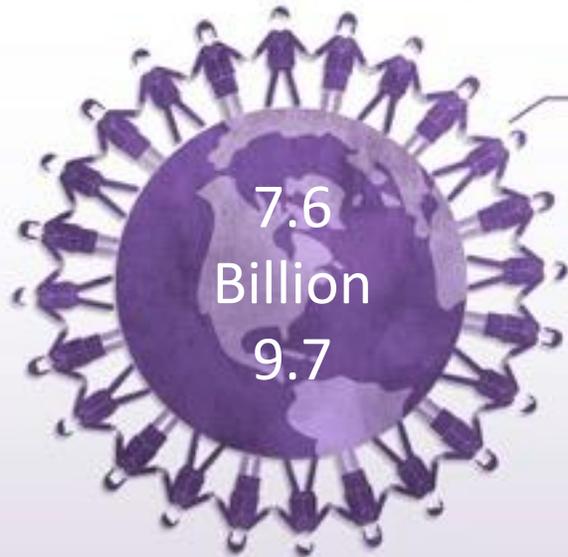
Collaborating



Innovate UK



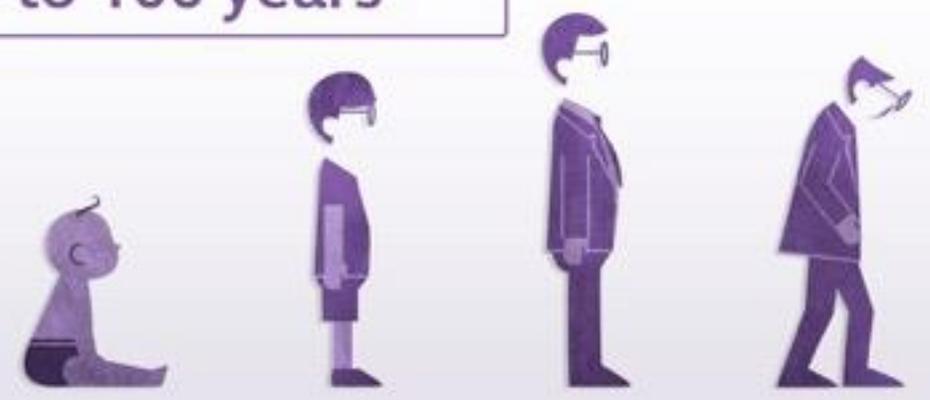
UK Research and Innovation



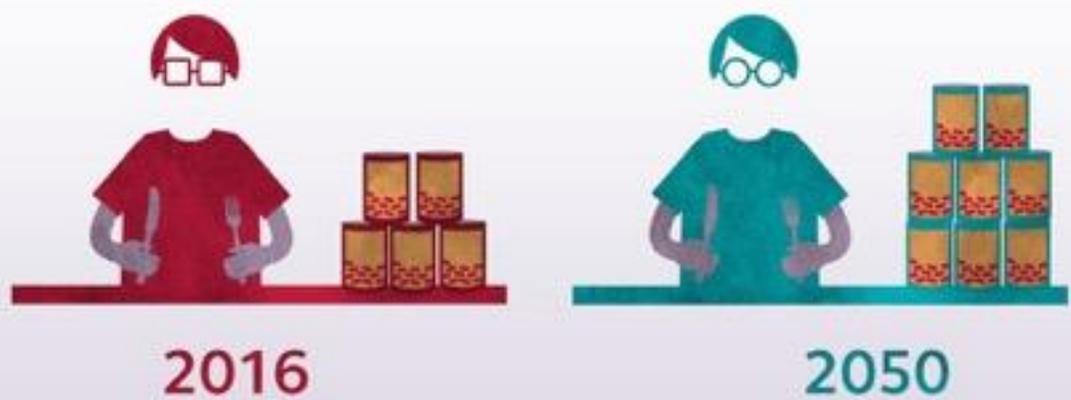
World population 9.7 billion by 2050

By 2050 2/3rds of that population will live in a dense urban (city) environment

1/3 of babies born today in the UK will live to 100 years



60% more food needed by 2050



Healthcare spend is rising faster than growth in GDP



Industrial Strategy Challenge Fund Wave 1,2, 3 and (4?)



Ageing Society

Leading-edge healthcare
(inc. medicines manufacturing)

Data to early diagnosis
and precision medicine

Healthy ageing

Accelerating detection of disease



AI and Data Economy

National Satellite Test Facility

Audience of the future

Quantum technologies

Next generation services

Made smarter

Digital Security by Design



Future of mobility

Self-driving vehicles

Manufacturing and materials
of the future

Faraday battery challenge

Robots for a safer world

Driving the electric revolution

Future flight



Clean growth

Energy revolution

Transforming construction

Transforming food production

Industrial decarbonisation

Smart sustainable plastic packaging

Transforming Foundation Industries

Industrial Strategy Challenge Fund Wave 1 & 2 Progress



Ser	Wave	Challenge/*Funded Programme	Committed £M	Budget £M	To be committed £M
(a)	(b)	(c)	(d)	(e)	(f)
1	1b	Faraday Battery Challenge	228	246 (274 with uplift)	46
2	1b	Medicines Manufacturing	188	188	0
3	1b	Robotics for a Safer World	89	95	6
4	2	Audience of the Future	28	33	5
5	2	Data to Early Diagnosis	99	210	111
6	2	Energy Revolution	81	103	22
7	2	Healthy Ageing	0	98	98
8	2	National Satellite Test Facility*	47	99	52
9	2	Next Gen (Aero) Manufacturing*	26	26	0
10	2	Next Generation Services	15	20	5
11	2	Self Driving Vehicles*	28	28.2	0.2
12	2	Transforming Construction	115	170	55
13	2	Transforming Food Production	24	90	66
14	2	Quantum Technology	19	20	1

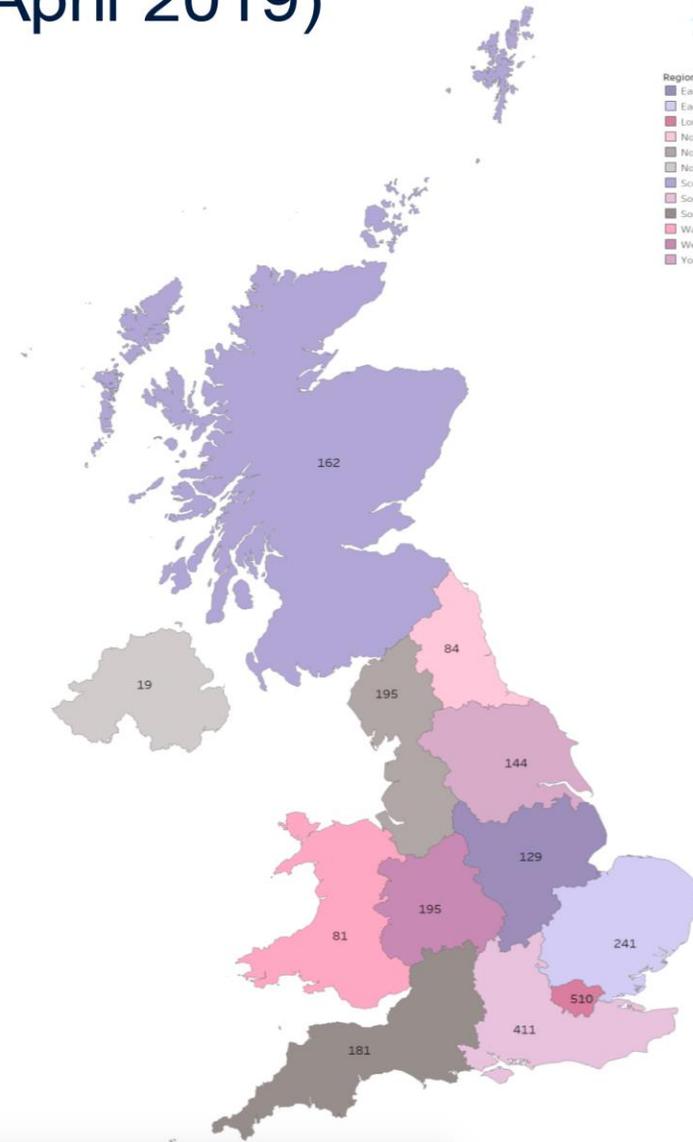
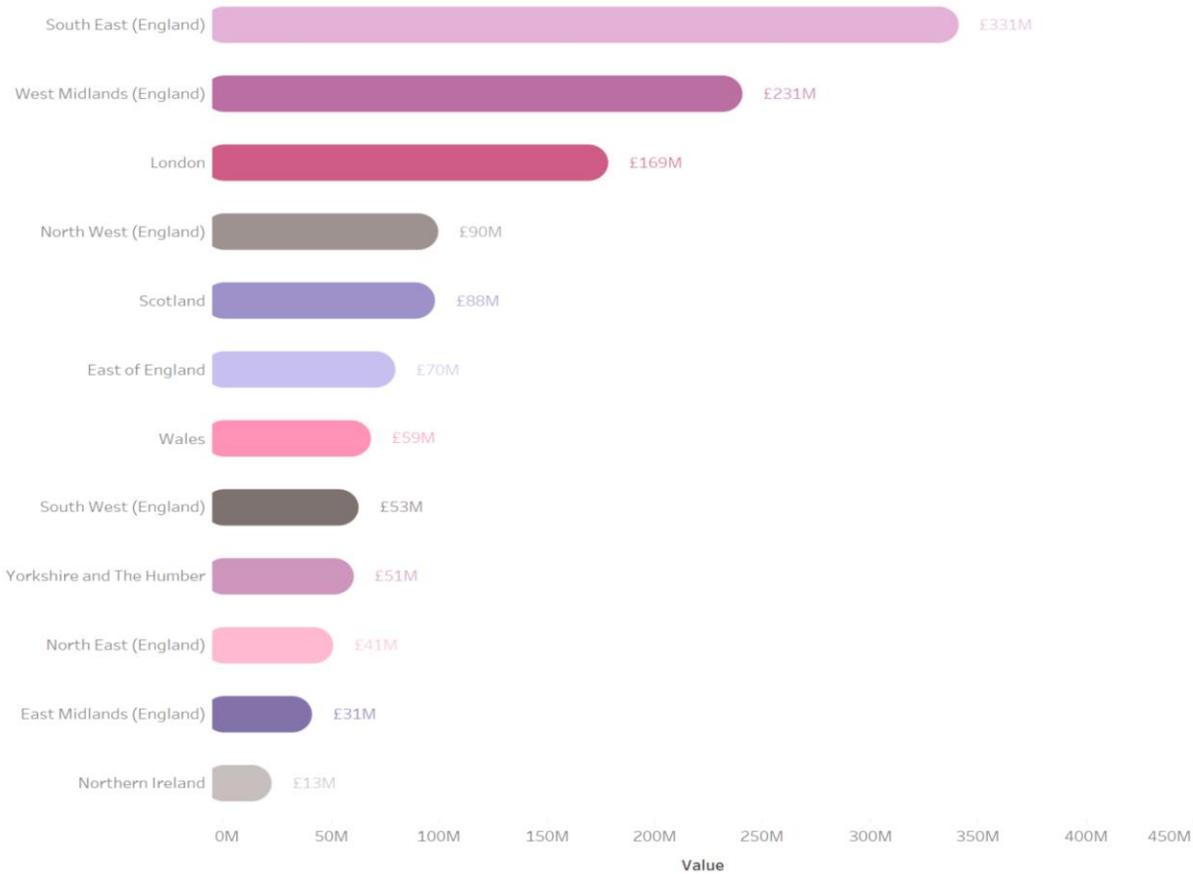
ISCF Funding awarded by region (as of April 2019)



Grant Awards Per Region

- East Midlands (England)
- East of England
- London
- North East (England)
- North West (England)
- Northern Ireland
- Scotland
- South East (England)
- South West (England)
- Wales
- West Midlands (England)
- Yorkshire and The Humber

Value (£) of ISCF Grants: Regional Breakdown





Aerospace companies, [Lockheed Martin](#) and [Orbex](#), £31.5m



[iCAIRD](#) (Industrial Centre for Artificial Intelligence Research in Digital Diagnostics) £10m



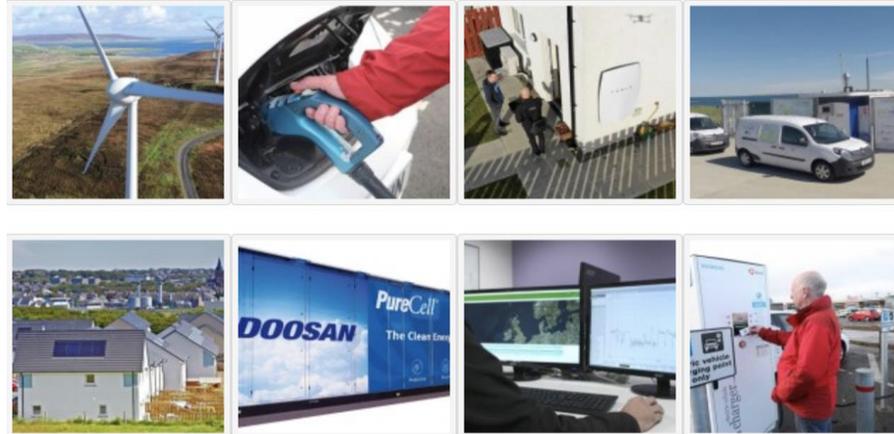
ASTON MARTIN



Imperial College London



Dukosi Edinburgh SME £1m Disruptive Battery Management
UK Research and Innovation



ReFLEX Orkney- Smart Energy Islands 1st Phase of £28.5m

Current Innovation Funding Opportunities support@innovateuk.ukri.org



Competition Name	Description	Value £m	Opens	Closes 12:00
The Aerospace Technology Institute (ATI Program (£3.1B)	,Provides funding to industrial research and capital projects to encourage innovation in UK civil aerospace	EOI	01 July 2019	24 July 2019
Energy catalyst round 7: early stage	Organisations can apply for a share of up to £22 million across 3 strands to help provide clean, affordable and secure energy in sub-Saharan Africa, South Asia or both. £50K-£300K	22	17 July 2019	18 September 2019
Energy catalyst round 7: mid stage	Organisations can apply for a share of up to £22 million across 3 strands to help provide clean, affordable and secure energy in sub-Saharan Africa, South Asia or both. £50K-£1.5m	22	17 July 2019	18 September 2019
Energy Catalyst round 7: late stage	Organisations can apply for a share of up to £22 million across 3 strands to help provide clean, affordable and secure energy in sub-Saharan Africa, South Asia or both. £50-£5M	22	17 July 2019	18 September 2019
Using data and digital technology to deliver better adult social care: SBRI competition	Organisations can apply for a share of £1.25 million, including VAT, to develop data and digital technology to deliver better adult social care.	1.25	10 June 2019	17 July 2019
EUREKA collaborative R&D: AI and quantum technologies	UK businesses can apply for a share of up to £1 million to develop AI and quantum technology or quantum sensing technologies together with organisations from EUREKA countries.	1	10 June 2019	24 June 2019
The Aerospace Technology Institute (ATI Program (£3.1B)	Provides funding to industrial research and capital projects to encourage innovation in UK civil aerospace	10	03 June 2019	19 June 2019
UK Research and Innovation strength in places fund: wave 2 EOI (£50K)	Consortia of UK businesses and research organisations can apply for 'seed corn' funding of up to £50,000 to develop full applications for wave 2 of the UKRI Strength in Places Fund. £10M-£50M	+£100	03 June 2019	09 October 2019
UK and USA: innovation in global composites markets	UK businesses can apply for a share of up to £1.7 million to develop innovative technologies for global composites markets with US partners.	£1.7	29 May 2019	21 August 2019
Immersive Technology Investment Accelerator: phase 2, SME projects	UK businesses doing R&D in immersive technology can apply for a share of up to £2 million grant funding alongside private equity investment. The grant funding is from the Industrial Strategy Challenge Fund. £150k-£300k	2	30 May 2019	03 July 2019
Artificial intelligence-supported early fracture diagnosis: SBRI competition	Organisations can apply for a share of £240,000, including VAT, to develop an innovative AI solution for radiological diagnosis of fractures of upper and/or lower limbs	0.24	20 May 2019	24 July 2019
Targeting information to protected land managers and developers: SBRI competition	Organisations can apply for a share of £250,000, including VAT, to deliver targeted, customisable information to land managers or developers about protected areas..	0.25	13 May 2019	19 June 2019
APC 13: advancing the UK's low carbon automotive capability	£25 million of collaborative (match) funding is available for UK-developed late stage R&D, to support growth in advanced low carbon propulsion capability in the automotive sector. £5m-£40m total (50% match funding required)	25	13 May 2019	10 July 2019
Detailed designs of smart, local energy systems	UK organisations can apply for a share of up to £30 million to develop clean, cheap local energy systems that create prosperous, resilient UK communities. From ISCF's Prospering from the Energy Revolution challenge	30	07 May 2019	07 August 2019
Innovate UK Smart Grants: April 2019	Opportunity to apply for a share of up to £25 million to deliver ambitious or disruptive R&D innovations with significant potential for impact on the UK economy. £25k - £2m	25	26 April 2019	24 July 2019
SME support to evaluate innovative medical technologies: Round 4	SMEs can apply for a share of £1.5 million to support the evaluation of innovative medical devices, diagnostics and regulated digital health products £50-£250.	1.5	23 April 2019	03 July 2019
EUREKA collaborative R&D: photonics for advanced manufacturing and innovation	UK businesses can apply for a share of up to £2 million to develop photonic technologies in partnership with French organisations from EUREKA countries. £750k - £2m	2	25 March 2019	05 July 2019



Coming Soon - *Wave 3

- £60m for the Smart Sustainable Plastic Packaging challenge
- £147m to drive up manufacturing productivity (Made Smarter)
- £170m for clusters for a decarbonised industrial future
- £66m for supporting the transformation of our foundation industries (steel, glass, ceramics, chemicals)
- £79m to accelerate early diagnostics in healthcare
- £78m to drive the electric revolution
- £70m Harness the power of quantum technology
- £125m Future flight



It seems like there are too many doors ?

- We want to make it easier to understand where the opportunities are for businesses to capture a share of the £ 4.7 billion from the ISCF and our core Smart Innovation Funding (Open)
- We are working in partnership with UK Government, Scottish Government, its Agencies and key stakeholders such as SCDI to promote their and our support for business and industry
- There are no wrong doors
- Here's one we are opening wider along with Scottish Enterprise, EEN Scotland and our own Knowledge Transfer Network (KTN) www.ktn-uk.org

Example of Working with Scotland - Proposal Development Support

Pre-Submission (in partnership with KTN colleagues)

Horizon scanning

Fit with programme?

Partner identification

Proposal guidance

**Proposal review by a team of funding and innovation experts

**Pitching development and preparation support

Post submission/award

**Enterprise Europe Network Scotland support

**Tie in with regional and national support programmes

**Coaching support (pilot project)

**Support from Scottish Enterprise & EEN Scotland

<https://innovateuk.ukri.org>

<https://ktn-uk.co.uk/>

Thank you!

The OPPORTUNITY of the UK INDUSTRIAL STRATEGY

Glasgow

17th June 2019

support@innovateuk.ukri.org

03003214357

Innovate UK

Innovate UK is part of
UK Research and Innovation

Case Studies: Scottish Success and Opportunities in UKIS

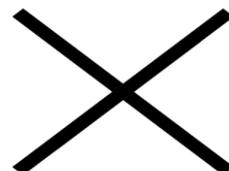
Prof. James Bown, Professor of Systems Biology,
Abertay University / InGAME

#UKISforScotland #IndustrialStrategy

scdi Scottish Council
for Development
and Industry

scdi.org.uk

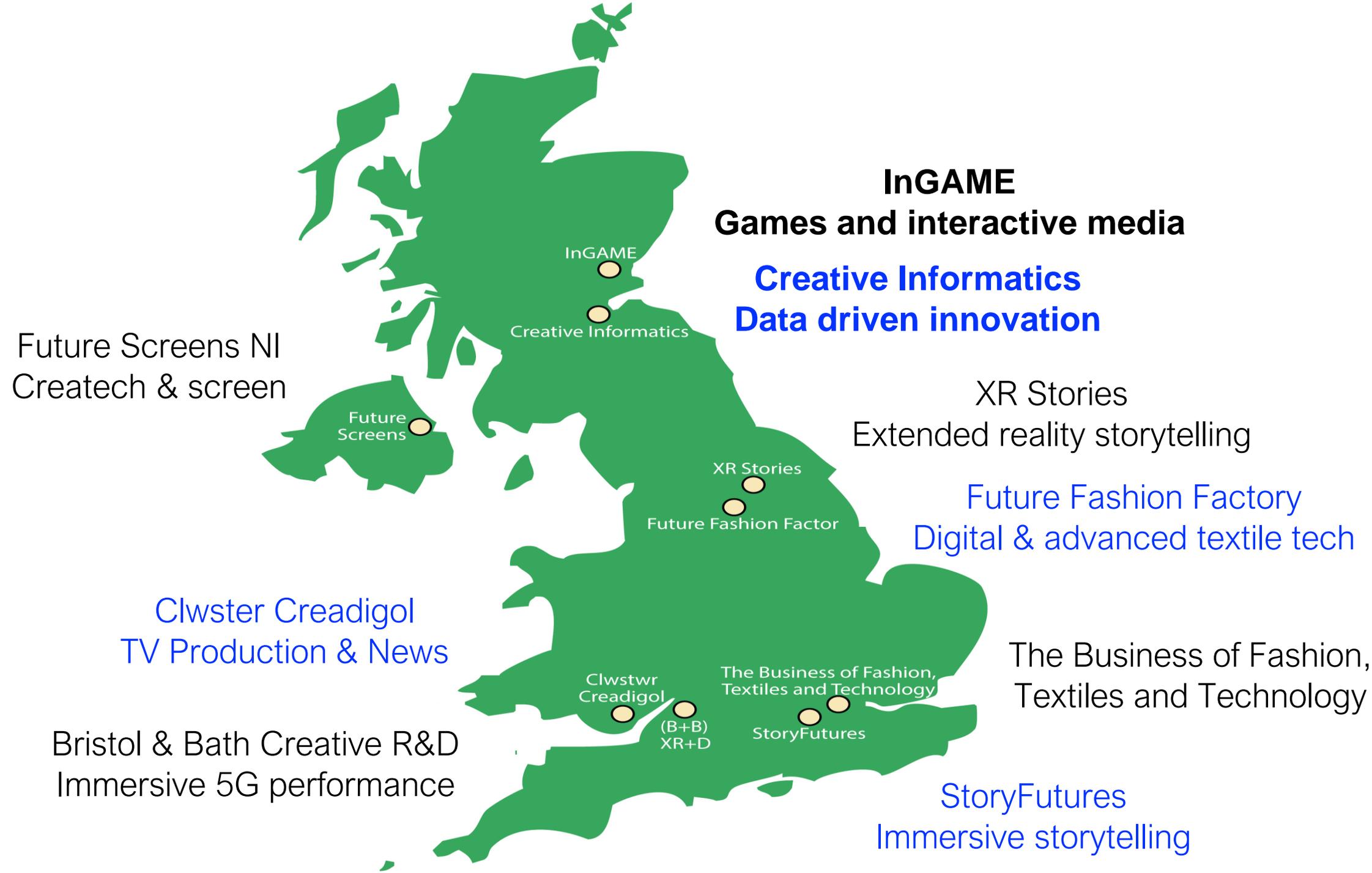
@scdinews | @scdiYESC

Creative Industries  **Clusters Programme**

InGAME

Innovation for Games
and Media Enterprise

Jim Bown
InGAME Co-Director



The primary purpose of InGAME
is to increase the **scale** and **value**
of the **Dundee** region videogames cluster

1

Regional
strengths

30 years of games

**grand
theft
auto**

beatmania

CRACKDOWN

30 years of games

vibrant community



grand
theft
auto

The logo for Grand Theft Auto, featuring the words "grand", "theft", and "auto" stacked vertically in a bold, white, blocky font with a thick grey outline.

OutPlay

The logo for OutPlay, featuring the words "OutPlay" in a stylized, red, cursive font with a white outline.

Teamwings

The logo for Teamwings, featuring the word "Teamwings" in a green, bubbly font with a yellow outline, and several small cartoon characters integrated into the letters.

HALO

The logo for HALO, featuring the word "HALO" in a blue, metallic, sans-serif font with a slight 3D effect.

CRACKDOWN

The logo for CRACKDOWN, featuring the word "CRACKDOWN" in a white, blocky font with a blue outline, set against a grey background that includes a stylized city skyline and a large, grey, geometric shape resembling a cracked-down object.

MINECRAFT

The logo for MINECRAFT, featuring the word "MINECRAFT" in a grey, blocky font with a black outline, set against a white background.

30 years of games

vibrant community

start-ups



grand
theft
auto



OutPlay
ENTERTAINMENT



Leetwinings



HALO



HLTM HYPER LUMINAL
GAMES



CRACKDOWN



MINECRAFT



POCKET SIZED
HANDS

2

Industry
needs



R&D **for and with** industry, not about it

Strong relations and stakeholder workshop to prime the bid

- De-risking **Experimentation**
 - product, service and experience innovation
- Enhancing **Exploitation**
 - extracting tech & process innovation, diversification
- Supporting **Intensification**
 - business models, investment pathways

... and an industry-seasoned Director

3

Industry
partners



Cluster development
(knowledge,
meet-ups
etc.)



Platforms,
technologies,
training,
commissioning



User data and
game analytics



4

Industry
co-location



- Embedded within industry
- Home to project delivery team, including eight full-time R&D fellows.
- Hotdesking for visiting academic and industry collaborators, delivery partners
- Hotdesking for student talent pools
- Studio space for R&D Voucher recipients

5

Academic
partnership



1st in Europe for UG degrees
Top 10 in world for PG
Sony's longest running partner

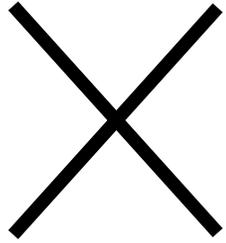


Only UK Uni: Nature 2017 Innovation
UK's leading design courses
1st Comic Studies Research Centre

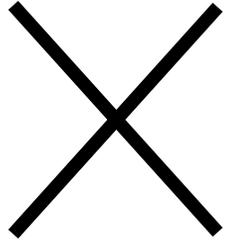


QS World Ranking top 100 for 10 years
Institute for capitalising on creativity
National Productivity Investment Fund

Experimentation —  **Abertay University**



Exploitation  **University of Dundee**

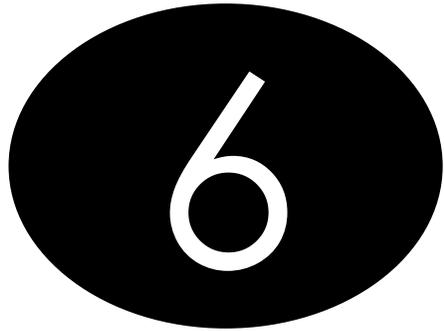


Intensification —  **University of St Andrews**

1st in Europe for UG degrees
Top 10 in world for PG
Sony's longest running partner

Only UK Uni: Nature 2017 Innovation
UK's leading design courses
1st Comic Studies Research Centre

QS World Ranking top 100 for 10 years
Institute for capitalising on creativity
National Productivity Investment Fund



Diverse activities

Diverse activities for a diverse sector, e.g.

- Innovation Labs and Game Jams
- R&D Voucher Scheme - Challenge and Open Calls
- Biz Model Design Accelerators
- Cross-Sector Engagement
- Demand-Led Industry Training Programmes
- Investor Showcases



For example

- Innovation Labs and Game Jams
- **R&D Voucher Scheme - Challenge and Open Calls**
- Biz Model Design Accelerators
- Cross-Sector Engagement
- Demand-Led Industry Training Programmes
- Investor Showcases

7

Scottish
distinction

R&D Voucher scheme framework



- Managed more than 1,500 projects at the interface between industry and academia for more than 10 years
- Evaluation of impact (July 2016)
 - each £1 invested in Interface -> £6.33 GVA for Scotland

Innovate UK
Knowledge Transfer Network



TAYSscreen
SCOTLAND



Scottish Enterprise



V&A **Museum of Design**
Dundee

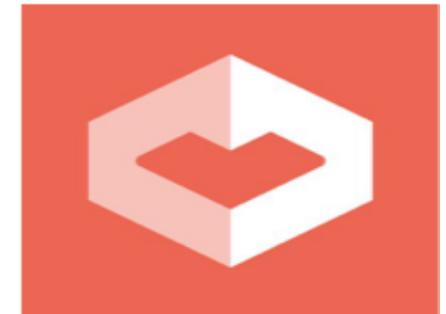


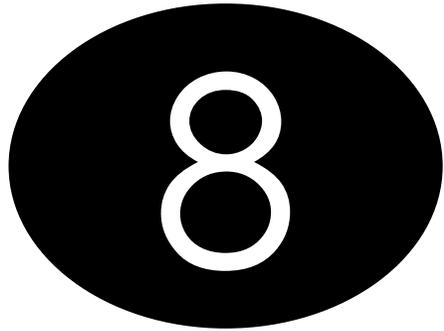
Dundee
City Council
www.dundee.gov.uk
CHANGING
FOR THE **FUTURE**



CREATIVE
LAND **SCOT**

ALBA | CHRUTHACHAIL





Agile bid writing

The process

- 65 EOIs; 46 full bids; 22 fundable partnerships
 - 9 winners across the UK
- Writing was in two bursts of 3-4 weeks ... which I led :-(
 - **Submission 1:** December 2017 (outcome March 2018)
 - 7 page case for support + limited additional information (30 pages)
 - **Submission 2:** April 2018 (outcome May 2018)
 - 11 page case for support + extended information (100 pages)
 - **Interview:** June 2018

The challenges

- **Submission 1:** December 2017 (outcome March 2018)
 - Moving target - weekly webinars refined documentation on what was sought in document sections and in costs
 - JeS form - Square peg and round hole ... so some creative licence of what content sits where
 - Not a standard RCUK grant application ... GVA, products etc.
- **Submission 2:** April 2018 (outcome May 2018)
 - Not breaking the original bid as it upscales in detail
 - Tight timeframe ... can't write by committee

1 Regional funding needs a regional focus

2 Industry-driven problems

3 Industry partners with clear roles

4 Location - where's best to work

5 Clear, complementary academic roles

6 Match activities to industry need

7 Use Scotland's distinctive provision

8 Be agile in your approach to writing - short timescales



Case Studies: Scottish Success and Opportunities in UKIS

Neil Kermode, Managing Director,
European Marine Energy Centre

#UKISforScotland #IndustrialStrategy

scdi Scottish Council
for Development
and Industry

scdi.org.uk

@scdinews | @scdiYESC

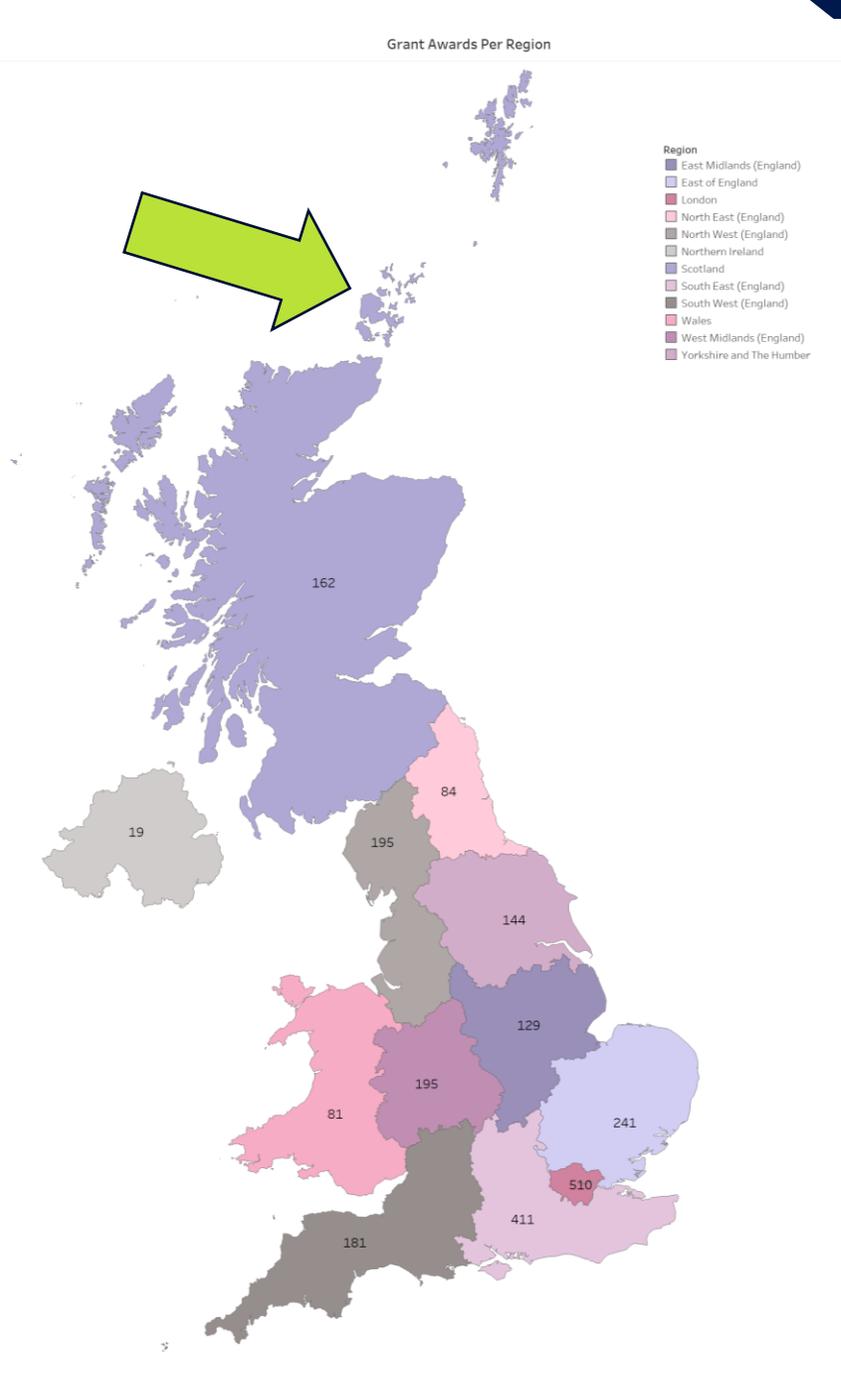


SMART LOCAL ENERGY SYSTEMS: DEMONSTRATOR

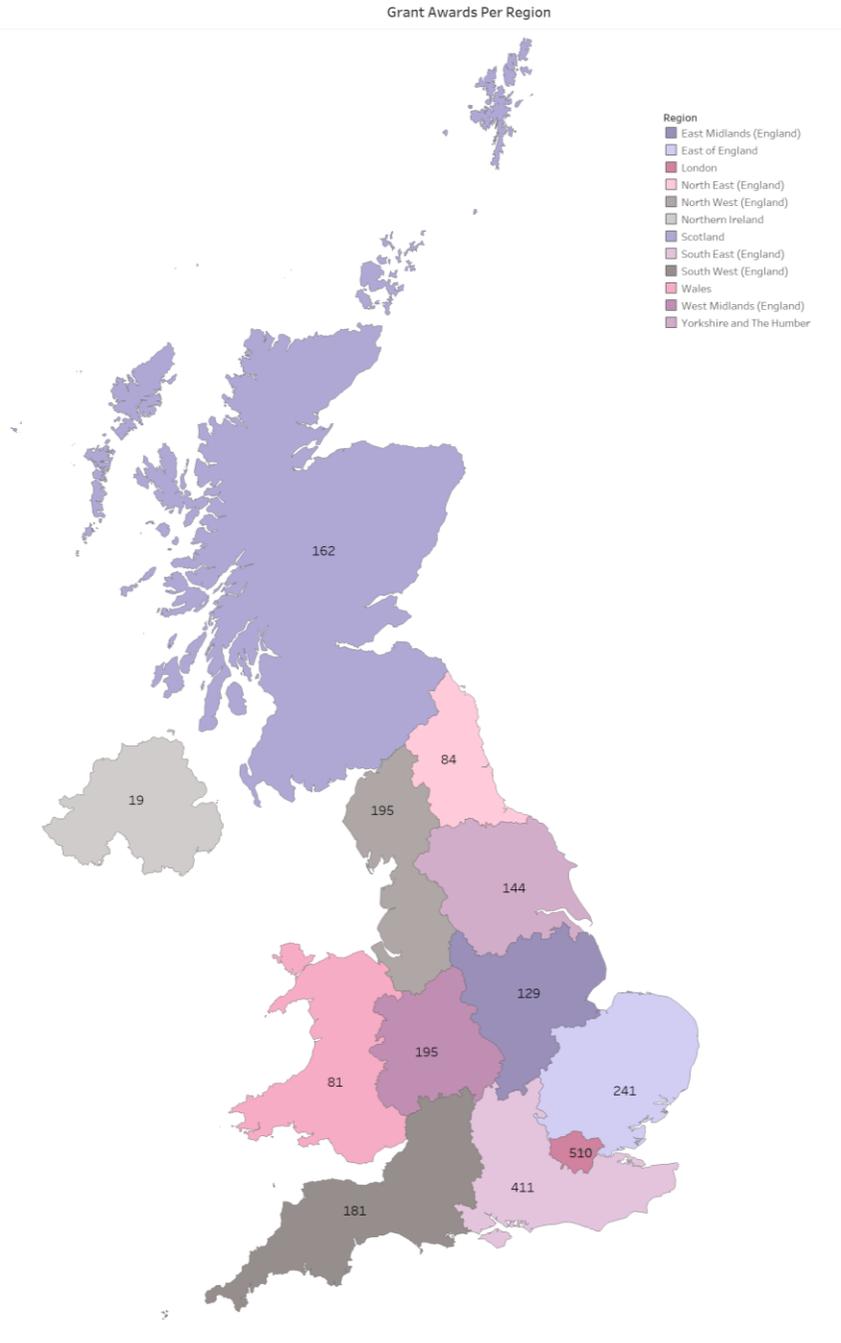
ReFLEX will develop and deliver a replicable community based Integrated Energy System demonstration project.



Orkney?



Orkney?



Our Energy 'Achievements'

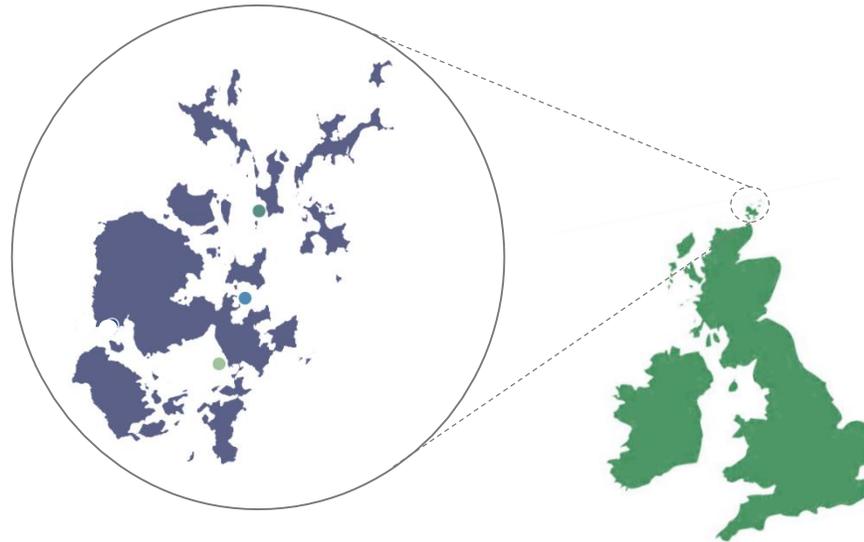
Generated >100% of electricity from renewables since 2013

Piloting powering ferries with green hydrogen

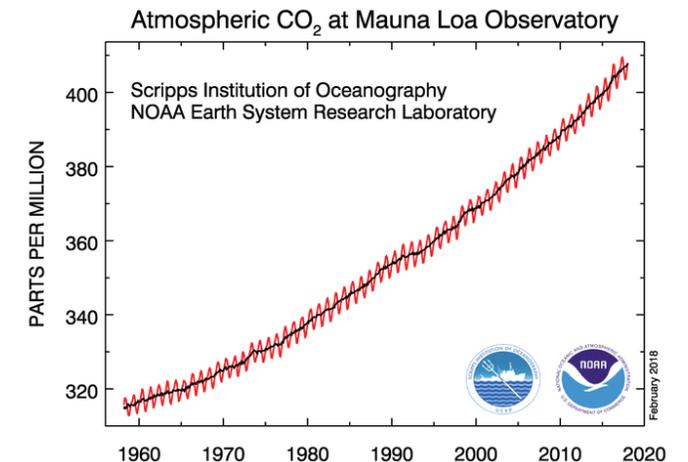
More wave and tidal energy devices than anywhere in the world

1 in 10 of households make their own power

Highest uptake of EVs in Scotland

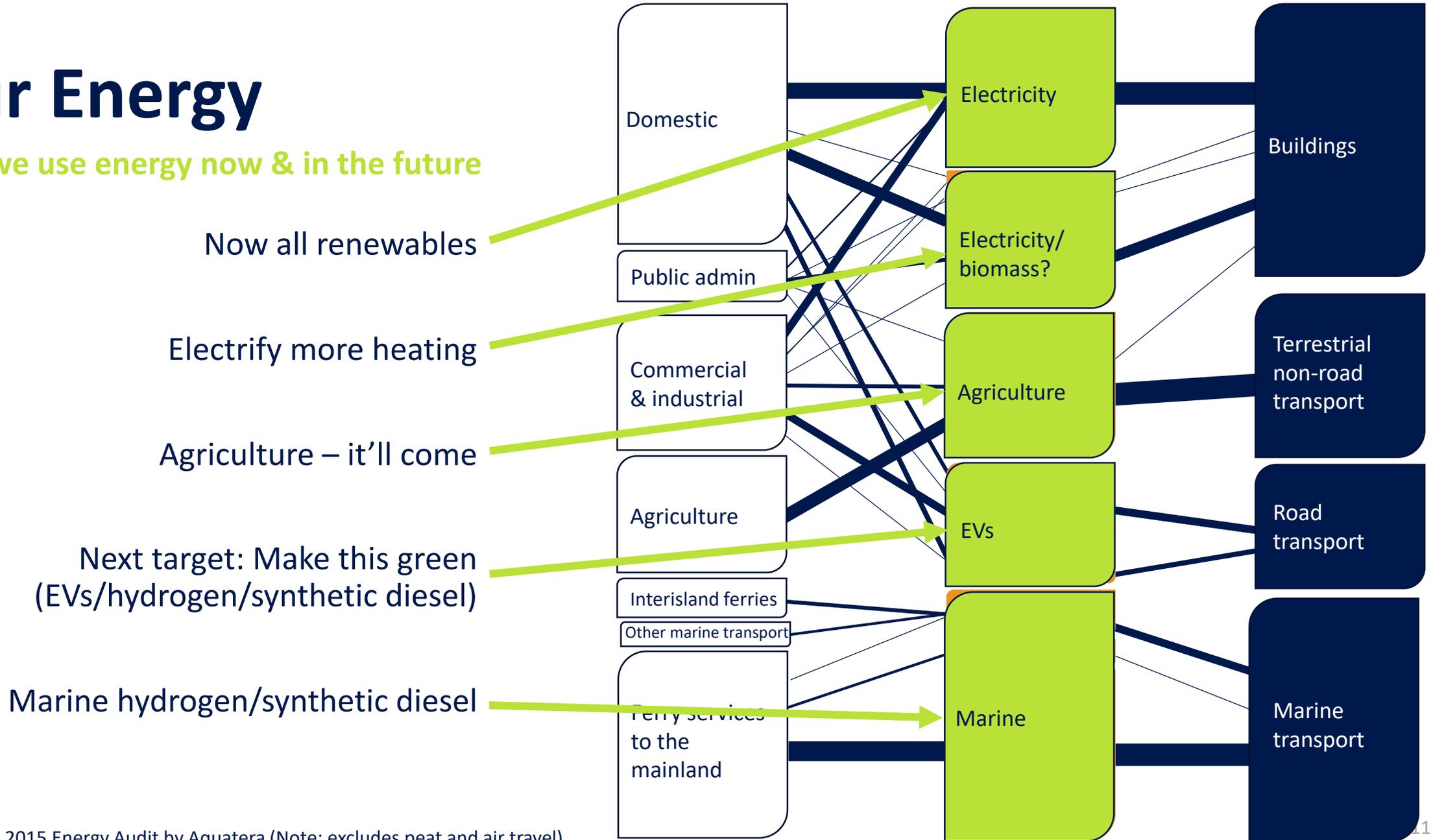


Highest levels of 'fuel poverty' in Scotland



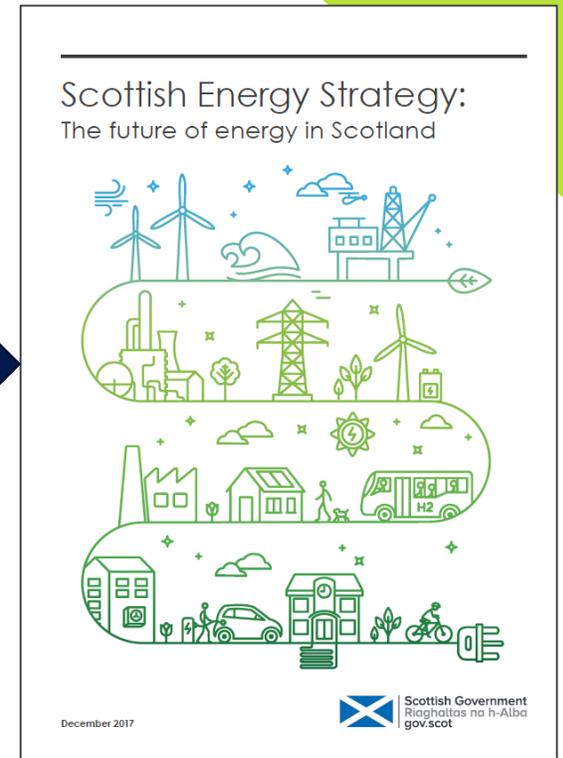
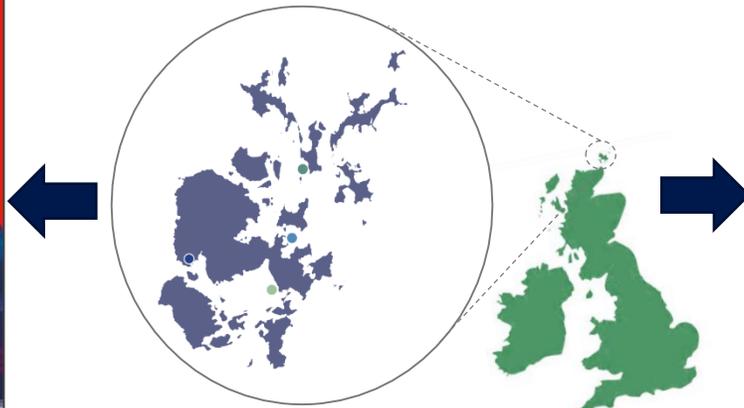
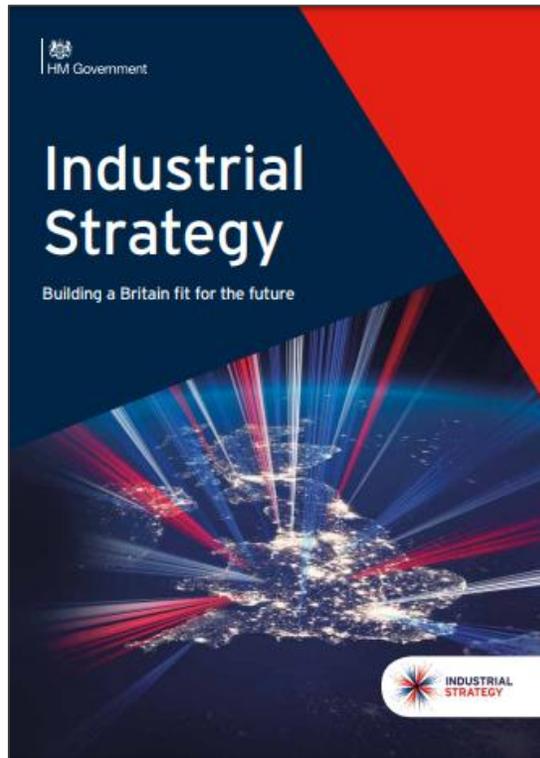
Our Energy

How we use energy now & in the future





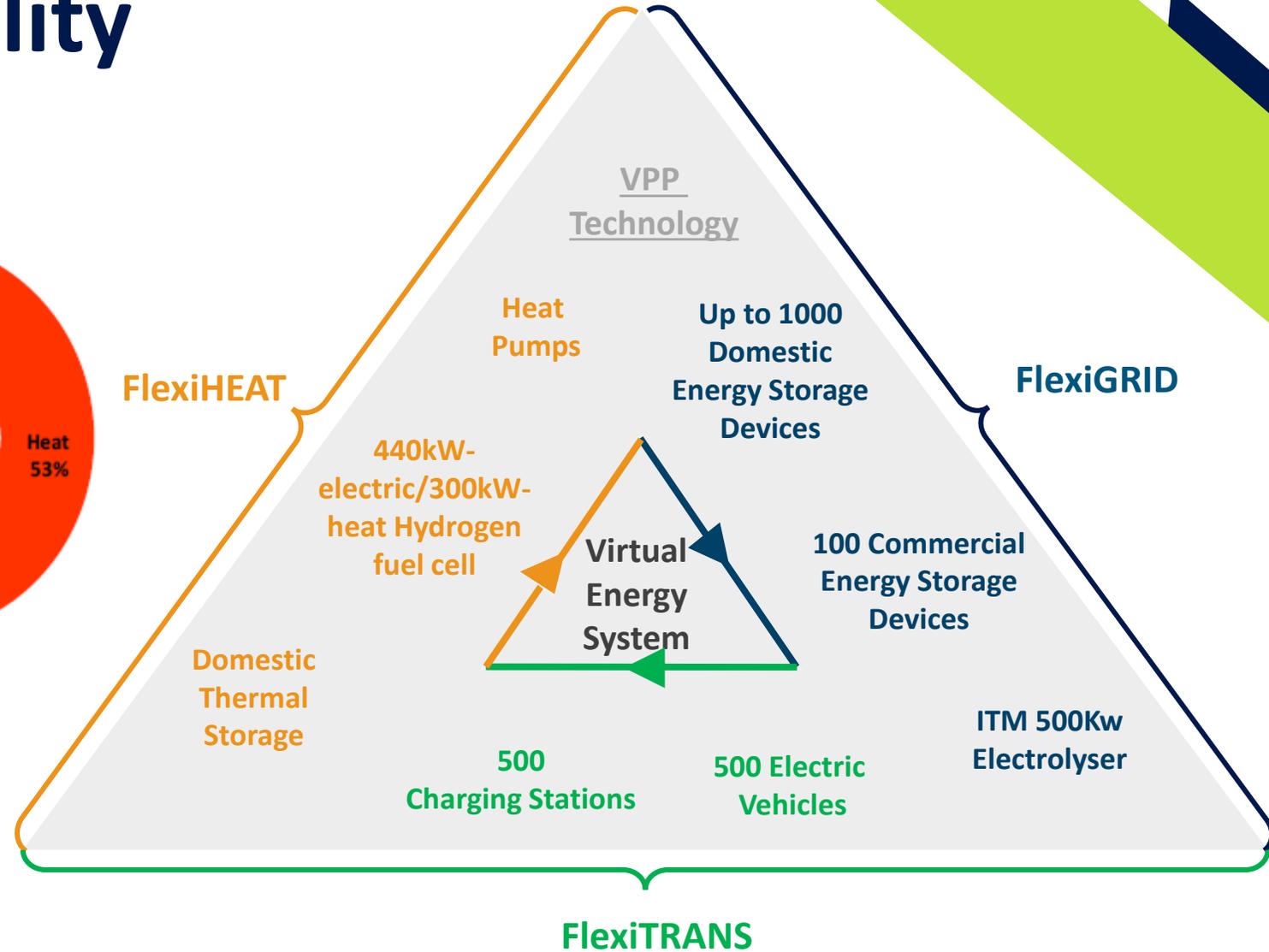
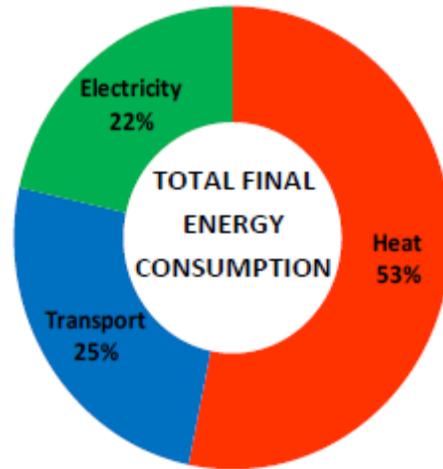
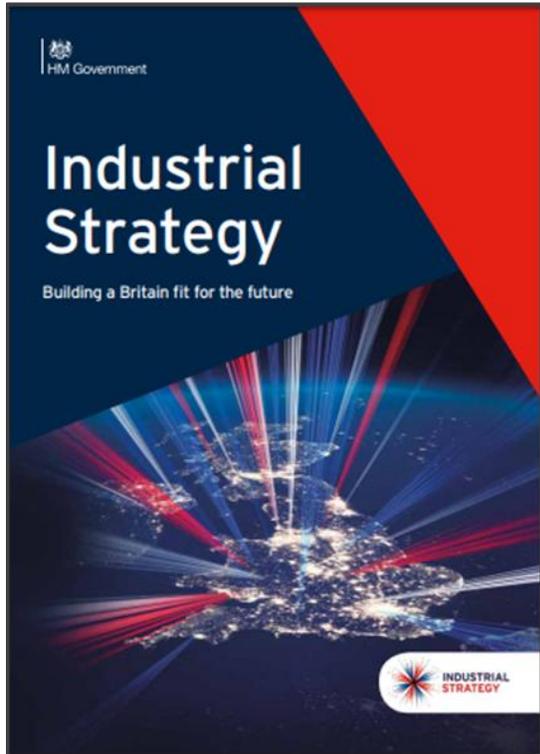
The Energy Opportunity



Increasing renewable electricity export



REnewable FLEXibility



Wealth distribution?

How many people in Orkney benefit directly from generating energy?

300 people employed in the renewable sector

700 householders with micro wind turbines installed

400 homes with solar and heat pump technology installed

5 large scale community turbines operating covering some

800 households;

40 local investors in two locally owned schemes

220 electric cars running locally



There are already ~700 'enterprises' and 2000 people or **20% of households** that have a direct link with and benefit from renewables

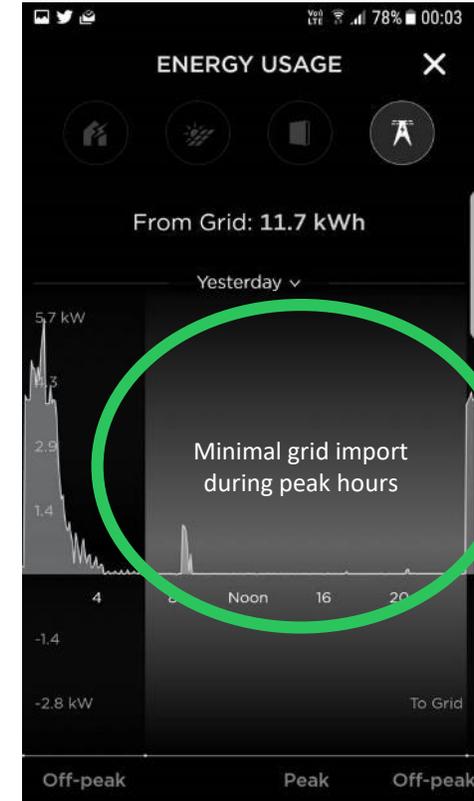
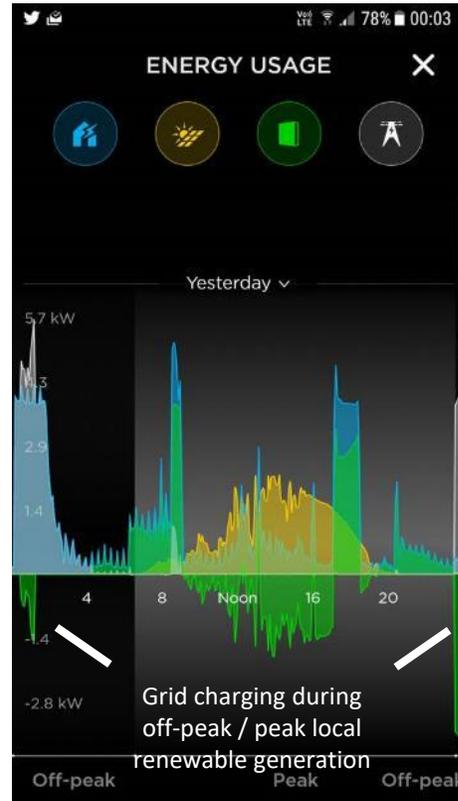


An example - Domestic Storage



TESLA
POWERWALL

- £6500 - £8000 installed cost
- 13kWh storage capacity
- 3.68kW inverter





VPP Technology



Heat Pumps

Up to 1000 Domestic Energy Storage Devices

FlexiGRID

FlexiHEAT

440kW-electric/300kW-heat Hydrogen fuel cell

Virtual Energy System

100 Commercial Energy Storage Devices



Domestic Thermal Storage

500 Charging Stations

500 Electric Vehicles

500Kw Electrolyser



FlexiTRANS

ReFLEX Project Team



<p>Project Coordinator</p>	<p>VPP developer & flexibility installer</p>	<p>Lead on H2 and smart networks</p>
<p>Local Authority</p>	<p>Academic lead</p>	<p>Replication and systems modelling</p>
<p>Community led aggregation & analysis</p>	<p>Commercialisation</p>	<p>Baseline, Modelling & Policy Support</p>



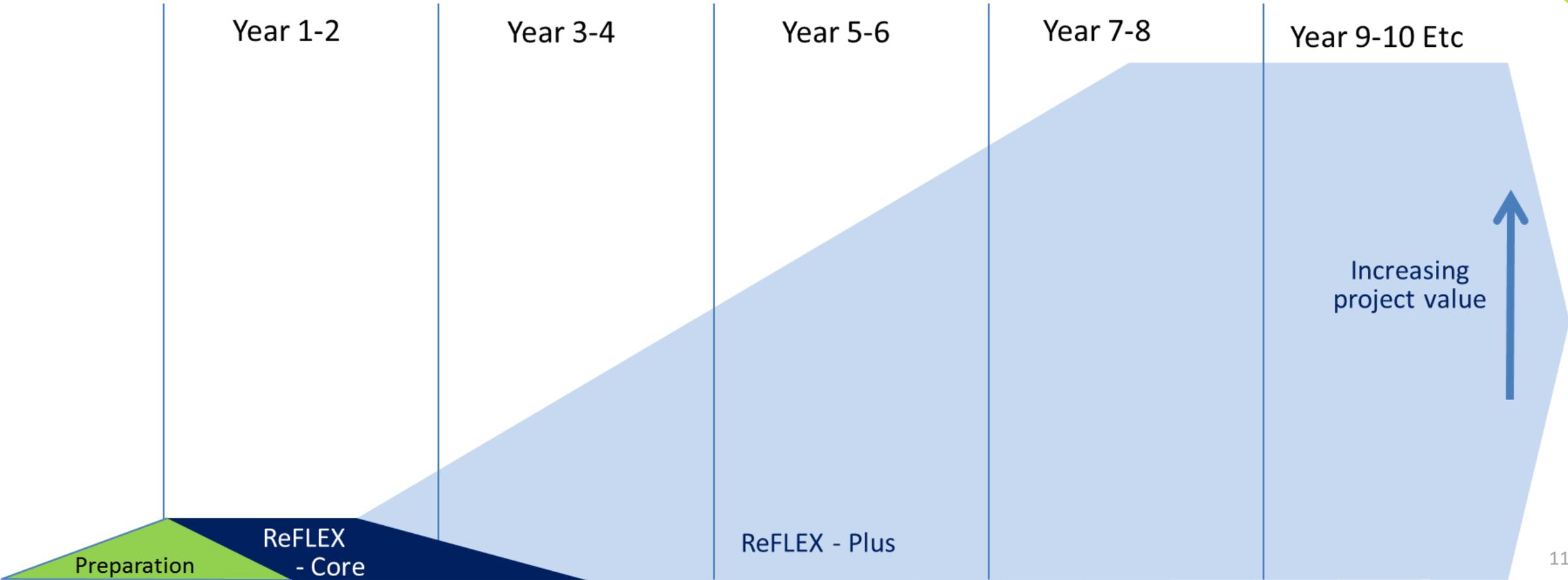
Associated Partners

Building Analytics	Electricity Provider	Network Operator	Software Support
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ReFLEX Plus



- Core project will last 3 years and have a total value of £28m
- Plus project will last 20+ years and may have a value of over £200m



Communication



Final thoughts

Never doubt
that a small group of thoughtful,
committed, citizens
can change the world.
Indeed, it is the only thing that ever
has.

Margaret Mead



Case Studies: Scottish Success and Opportunities in UKIS

Alexander Weir, Senior Technical Manager,
Canon Medical Research Europe

#UKISforScotland #IndustrialStrategy

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for Development
and Industry

scdi.org.uk

@scdinews | @scdiYESC

Case Studies: Scottish Success and Opportunities in UKIS

Gwilym Gibbons, Chief Executive, The Crichton Trust

#UKISforScotland #IndustrialStrategy

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Ageing
population

Climate
change

Technology



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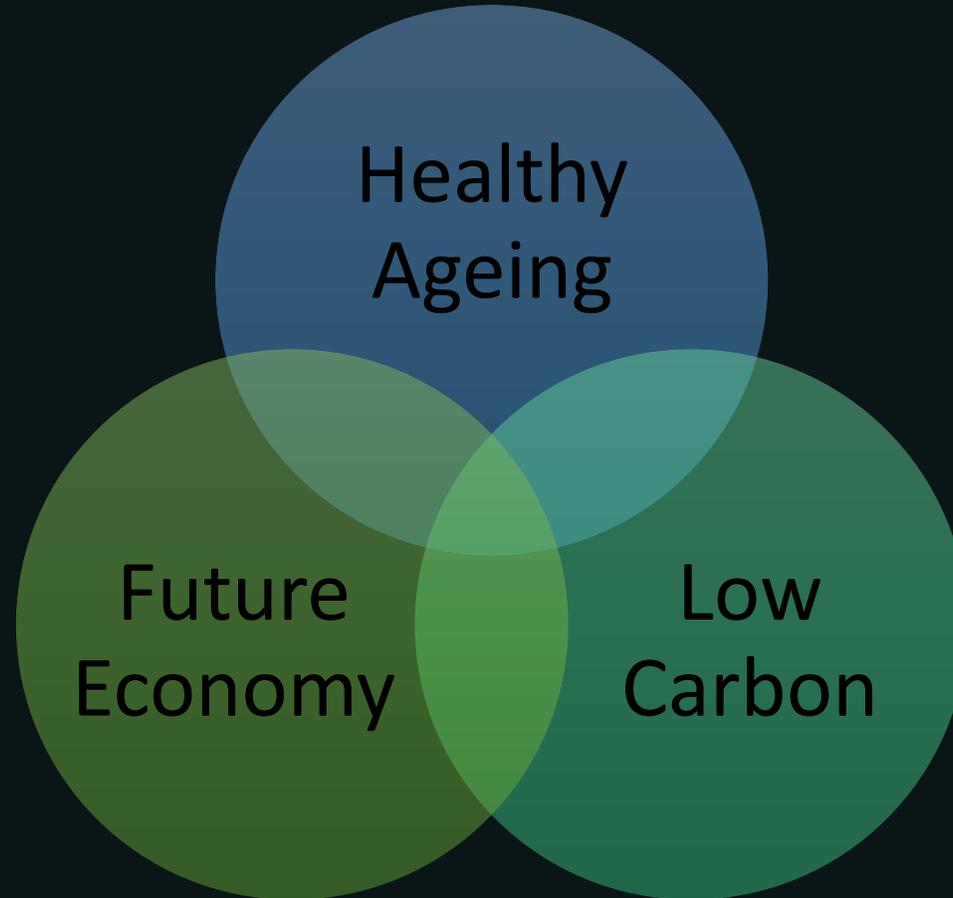


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Healthy
Ageing



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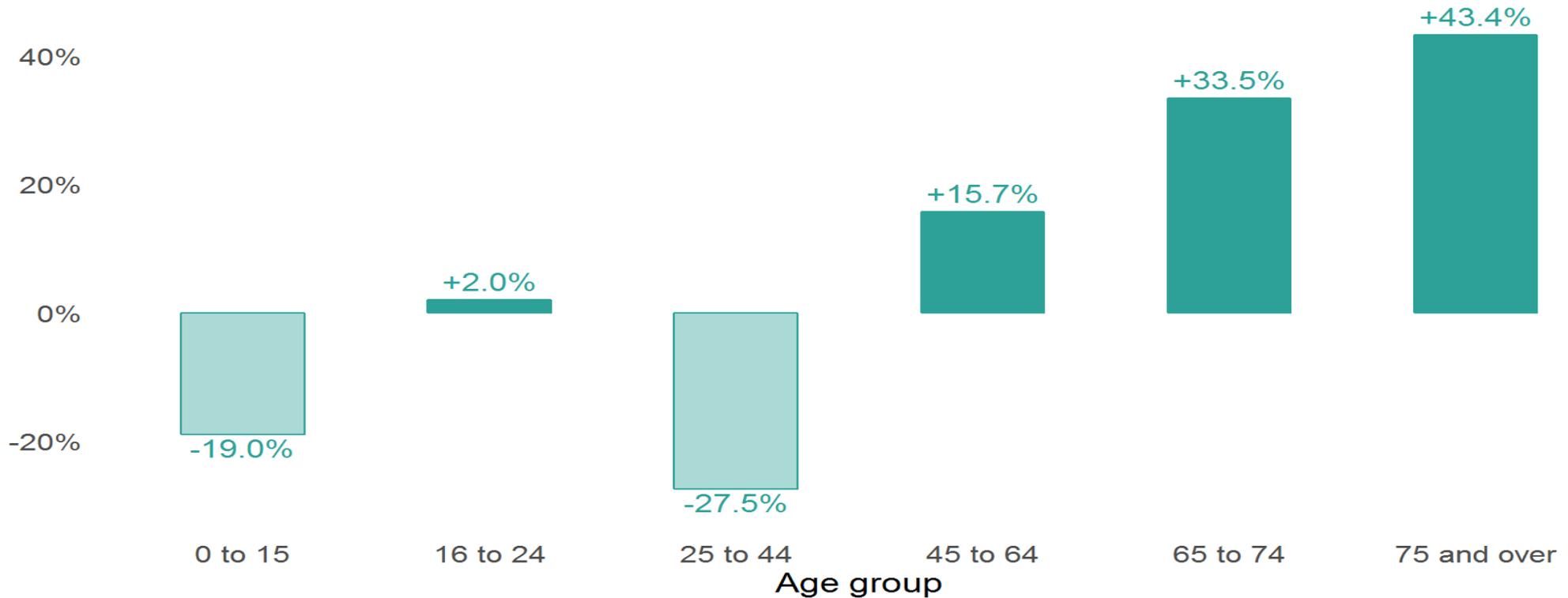
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Dumfries and Galloway
Percentage change in population by age group, 1998 and 2018



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Table 5.1: Over 65 population estimates Dumfries & Galloway 2016-2035

Age	2016	2020	% increase	2035	% increase
65+	37,242	39,576	6%	48,008	28%
80+	9,799	11,035	12%	17,123	74%
90+	1,593	1,975	23%	4,227	165%

Source: NRS 2012 based principal population projections for Council areas by sex and single year of age, by year (2012-2037)



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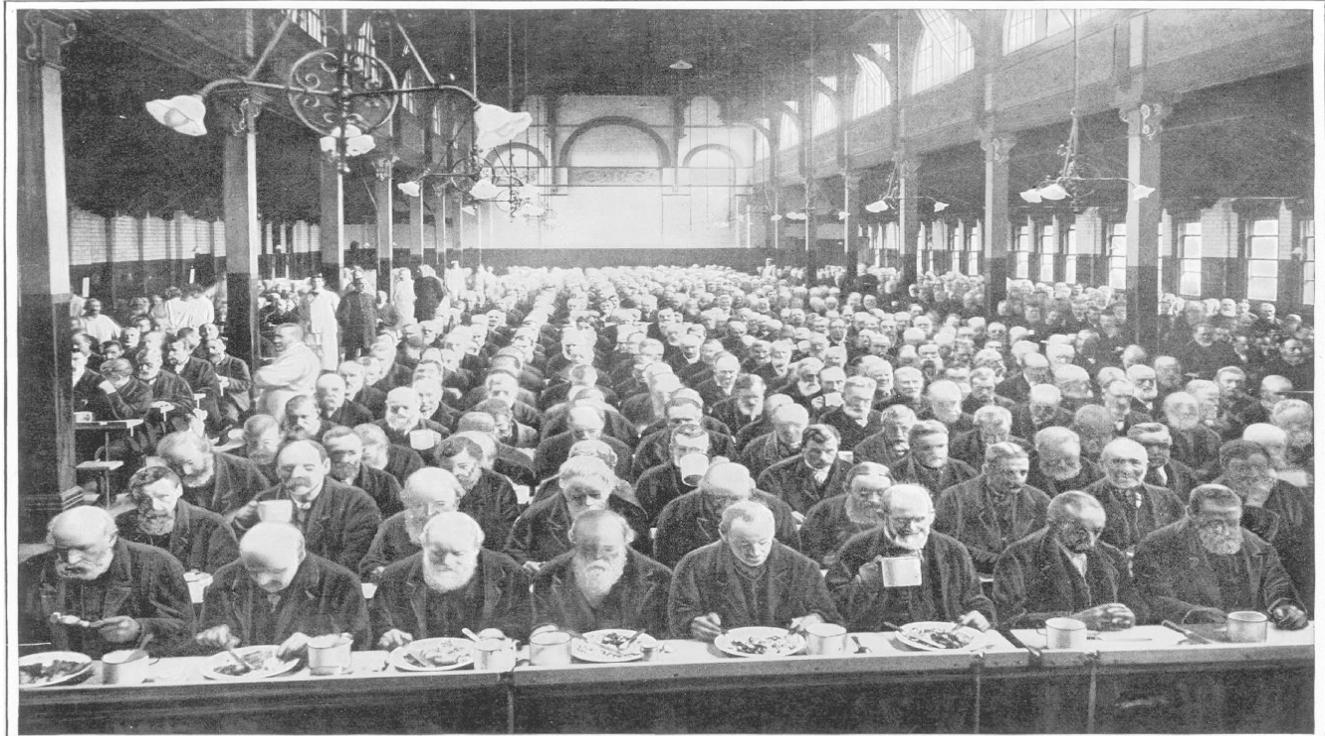
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NHS & Health and social care

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0-15

16-64

65+

Education

Work

Retirement



0-15

16-23

24-33

34-50

51-61

62-72

73-78+

Education

Work

Retraining

Work

Career break

Work

Retirement



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Valuing
Experience
&
Knowledge



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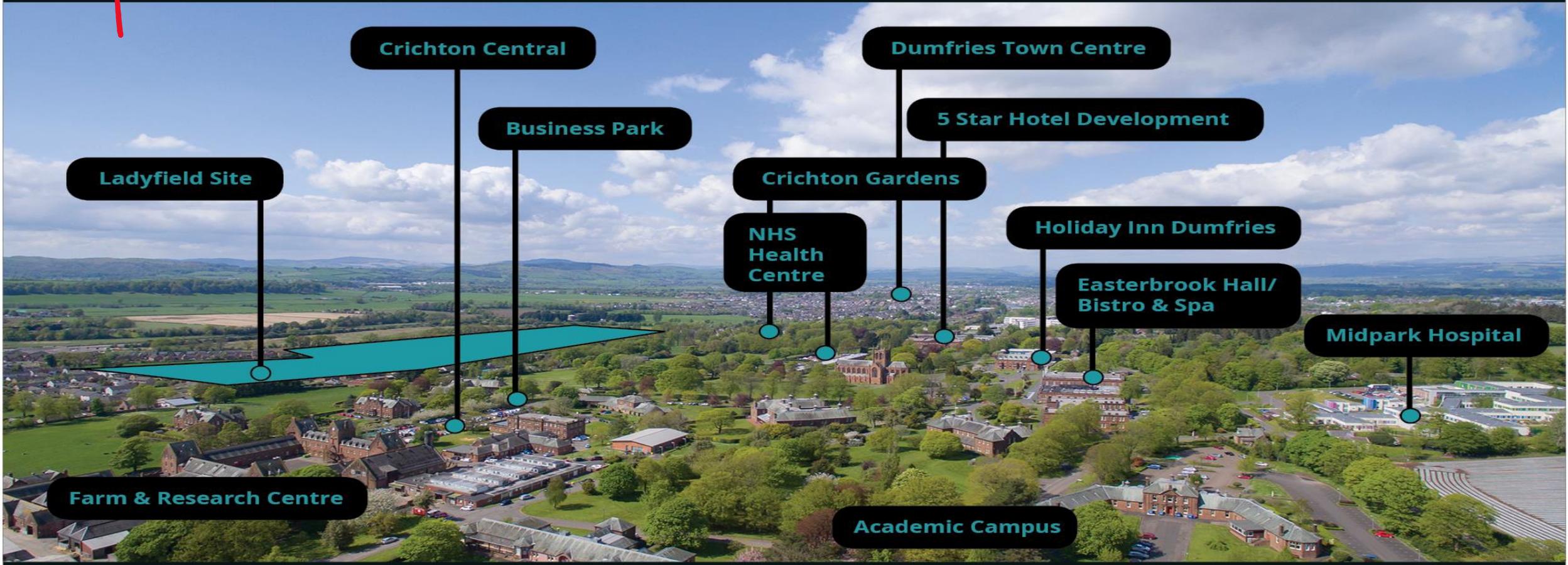


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Crichton Central

Dumfries Town Centre

Ladyfield Site

Business Park

5 Star Hotel Development

Crichton Gardens

Holiday Inn Dumfries

NHS Health Centre

**Easterbrook Hall/
Bistro & Spa**

Midpark Hospital

Farm & Research Centre

Academic Campus



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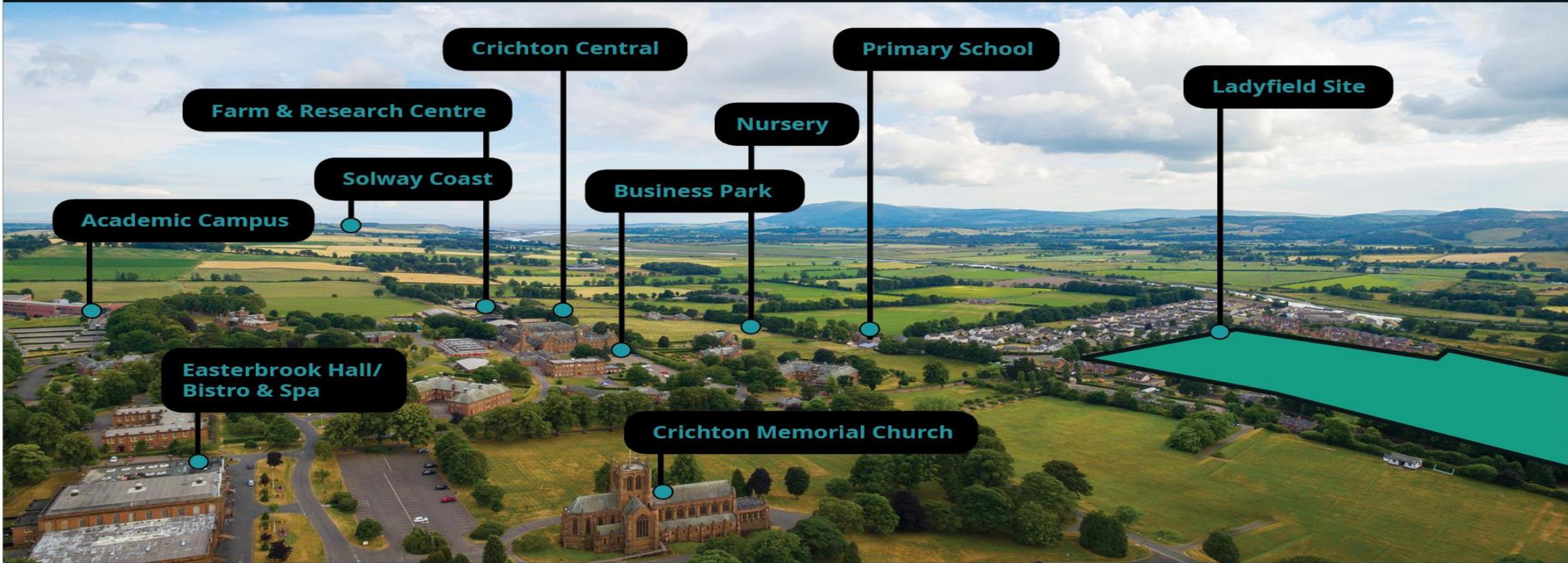


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Our ambition to build a place :

- Up to 470 adaptable, modular, cognitive and age-friendly homes
- All ages can be physically, socially, culturally and economically active
- Intergenerational living and working
- Connected community
- Circular economy (utilising the farm, gardens and glasshouses)
- Low carbon building technology (new and retrofitting)
- Walking neighbourhood (shop, cafes and community spaces)
- Spaces for 'messy' intergenerational knowledge exchange



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Our vision | The Crichton is a global destination with a high reputation as the place that inspires and makes connections, drives collaboration and innovation and where the past meets the future entrepreneur to generate answers to the big problems of our time.



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How | We connect people, place and the past to shape the future



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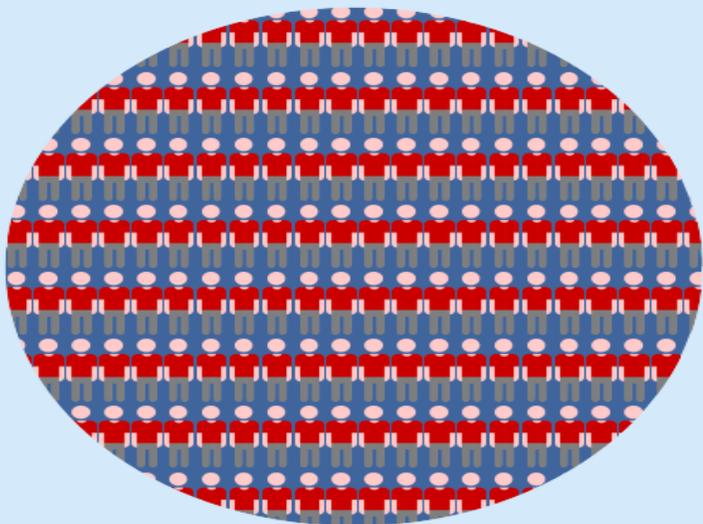
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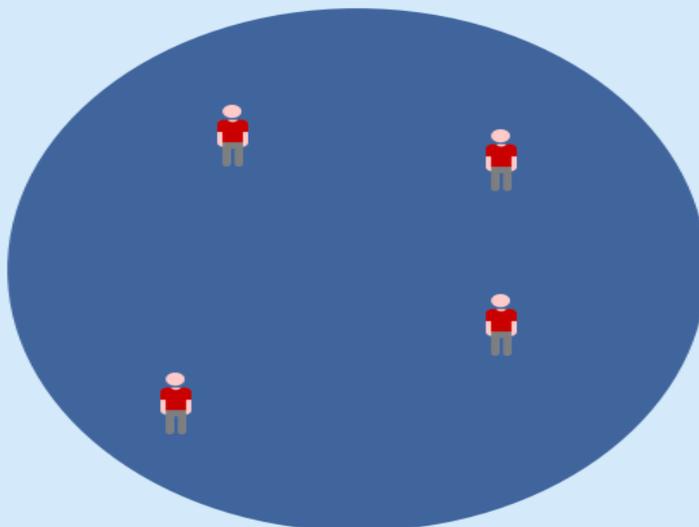
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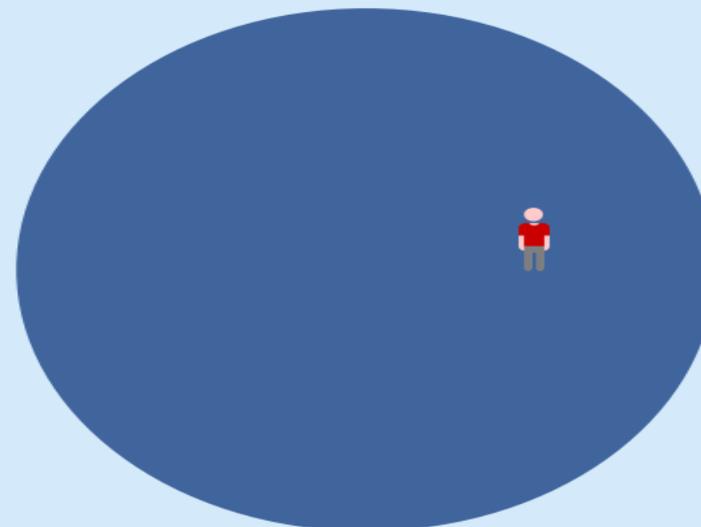
POPULATION DENSITY: number of people per hectare



Glasgow City: **33**



Scotland average: **0.7**



Dumfries and Galloway: **0.2**

Source: Scotland's Census 2011



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Come and join us....

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