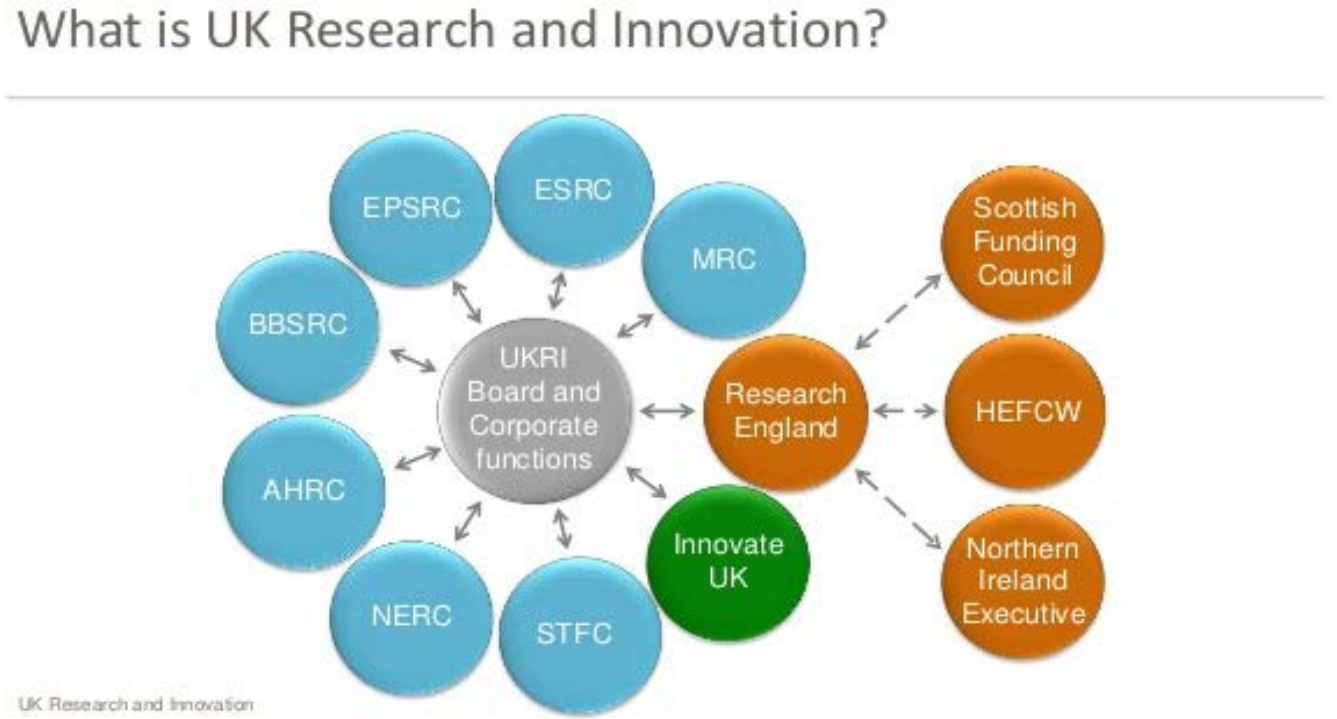
Fast tracking Acoustics into new markets with the KTN

Nigel Rix

Head of Enabling Technologies

UK Research & Innovation

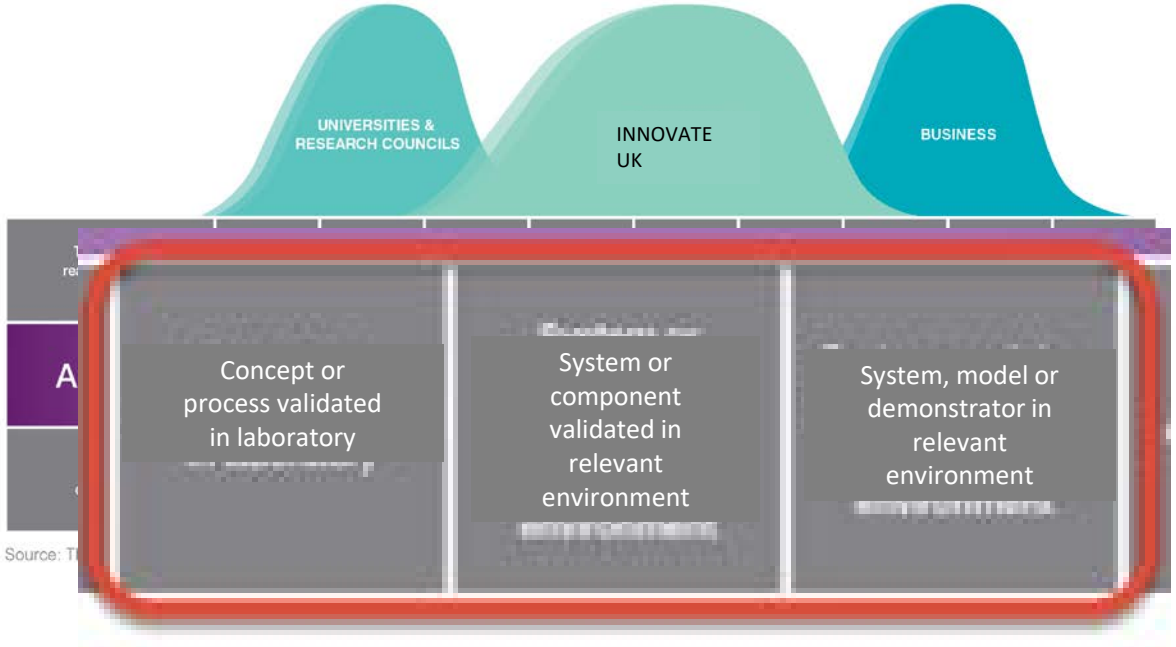


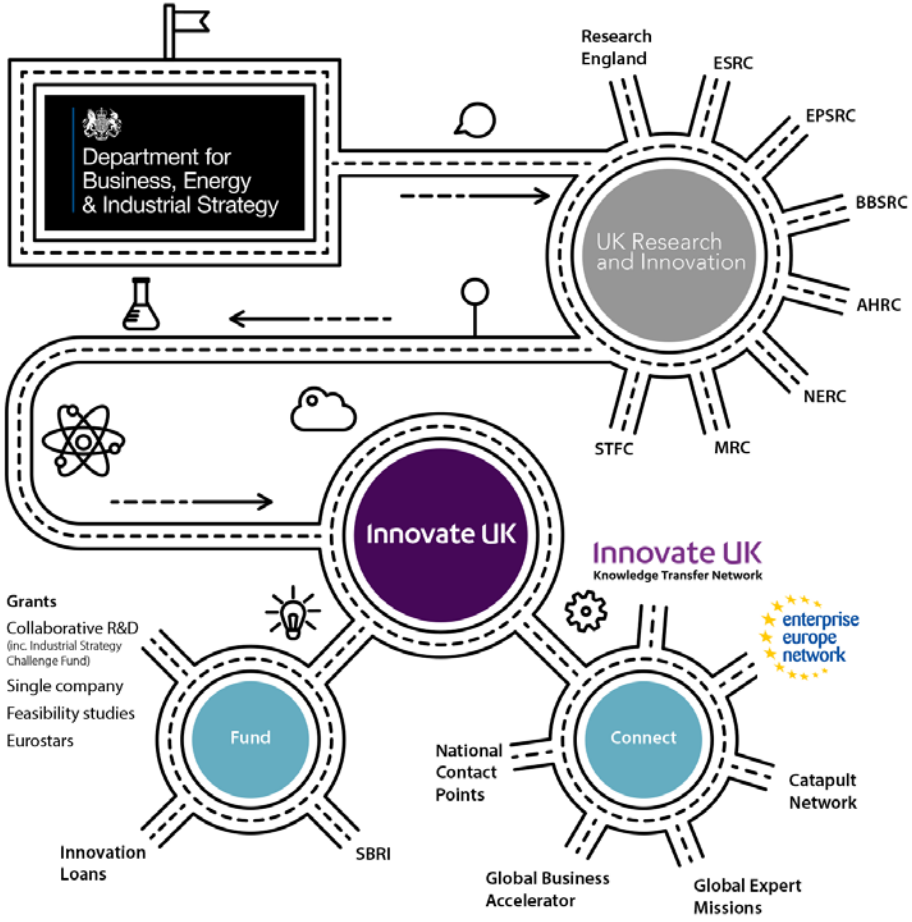
Innovate UK
The UK's innovation agency

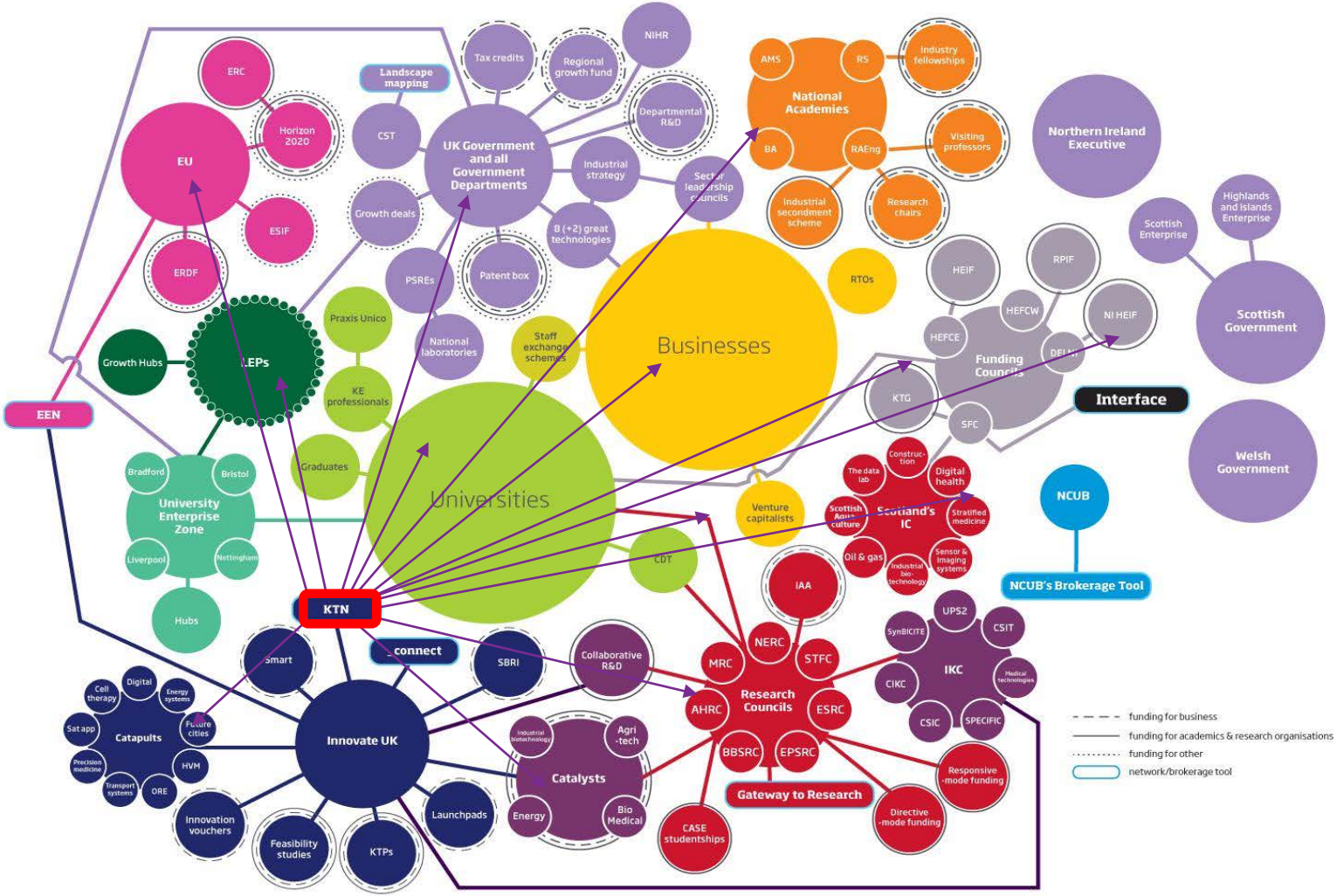
Works with people, companies and partner organisations to find and drive the **science and technology innovations** that will grow the UK economy
- delivering productivity, jobs & exports.

The aim at Innovate UK is to
keep the UK globally competitive
in the race for future prosperity.

Innovate UK – where it fits




Department for Business, Energy & Industrial Strategy
Research England
ESRC
EPSRC
BBSRC
AHRC
NERC
MRC
STFC
UK Research and Innovation
Innovate UK
Innovate UK
Knowledge Transfer Network
Grants
Collaborative R&D
(inc. Industrial Strategy Challenge Fund)
Single company
Feasibility studies
Eurostars
Fund
Innovation Loans
SBRI
enterprise europe network
National Contact Points
Connect
Catapult Network
Global Business Accelerator
Global Expert Missions


ERC
Horizon 2020
EU
ESIF
ERDF
Landscape mapping
Tax credits
Regional growth fund
NIHR
CST
UK Government and all Government Departments
Departmental R&D
Industrial strategy
Sector leadership councils
Growth deals
8 (+2) great technologies
PSREs
Patent box
AMS
RS
Industry fellowships
National Academies
BA
RAEng
Visiting professors
Industrial secondment scheme
Research chairs
Northern Ireland Executive
Scottish Enterprise
Highlands and Islands Enterprise
Scottish Government
Welsh Government
HEIF
RPIF
HEFCW
NI HEIF
HEFCE
Funding Councils
DELNI
SFC
KTG
RTOs
Businesses
Praxis Unico
National laboratories
Staff exchange schemes
Growth Hubs
LEPs
KE professionals
EEN
Graduates
Universities
Interface
NCUB
NCUB's Brokerage Tool
Bradford
Bristol
University Enterprise Zone
Liverpool
Nottingham
Hubs
Venture capitalists
CDT
The data lab
Construc-tion
Digital health
Scottish Agri-culture
Scotland's IC
Stratified medicine
Oil & gas
Industrial bio technology
Sensor & imaging systems
IAA
KTN
_connect
Smart
SBRI
Collaborative R&D
UPS2
SynBICITE
CSIT
CIKC
IKC
Medical technologies
CSIC
SPECIFIC
NERC
MRC
STFC
AHRC
Research Councils
ESRC
BBSRC
EPSRC
Gateway to Research
Responsive -mode funding
Directive -mode funding
CASE studentships
Cell therapy
Digital
Energy systems
Sat app
Future cities
Catapults
Precision medicine
HVM
Transport systems
ORE
Innovate UK
Innovation vouchers
Feasibility studies
KTPs
Launchpads
Industrial biotechnology
Agri -tech
Catalysts
Energy
Bio Medical
funding for business
funding for academics & research organisations
funding for other
network/brokerage tool

The Future. Faster.

As Innovate UK's network partner, KTN combines **in-depth expertise** in all sectors with the **ability to cross boundaries**. Connecting with KTN can lead to potential partners, horizon-expanding events, and innovation insights relevant to your needs.

We help business to grow the economy and improve people's lives by **capturing maximum value from innovative ideas**, scientific research and creativity.

Connecting People

- Industry Communities
- Cross-sector Groups
- **92,000+** Members
- **23,000+** Delegates per year

Activities and projects

From roadmaps to steering groups
from influencing government policy
to special interest groups,
our activities and projects
evolve constantly
to reflect industry needs

Policy towards Industry

The big change…

Creating an economy that boosts productivity and earning power throughout the UK

White Paper - 2017

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

Five Foundations

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

Four Grand Challenges

Wave 1 Challenges (c. £1b)

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

Faraday Battery Challenge up to £246m

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

Next Gen. Affordable Lightweight Materials Mfg (ATI projects) up to £26m

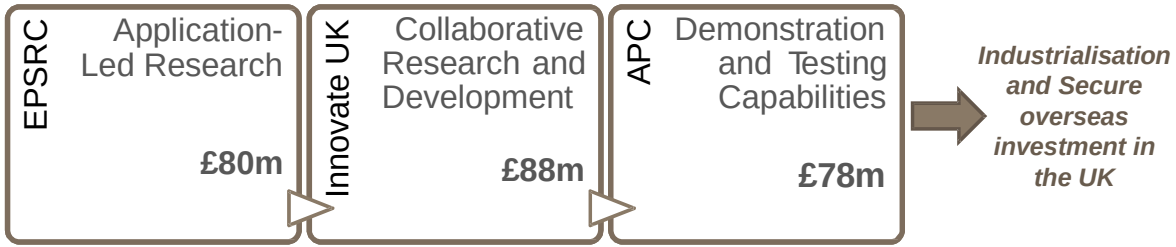
Autonomous Vehicles (CCAV projects) up to £38m

National Satellite Test Facility up to £99m

Underpinning UKRI investments (Wave 1a) up to £283m

Example: Faraday Challenge

INDUSTRIAL STRATEGY



UK Research and Innovation

Delivered by Innovate UK RESEARCH COUNCILS UK

Wave 2 Challenges (up to £729.5m)

Audience of the future (up to £33m)

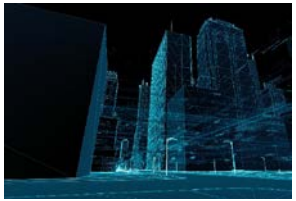
Data to early diagnosis and precision medicine (up to £196m)

Prospering from the energy revolution (up to £102.5m)

Healthy ageing (up to £98m)

Next generation services (up to£20m)

Quantum technology (up to £20m)



Transforming construction (up to £170m)

Transforming food production (up to £90m)

The second wave of the Challenge Fund

INDUSTRIAL STRATEGY

Transforming construction

Data to early diagnosis & precision medicine

Transforming food production

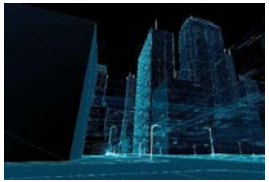
Next generation services

Energy revolution

Healthy ageing

Audience of the future

Quantum technology



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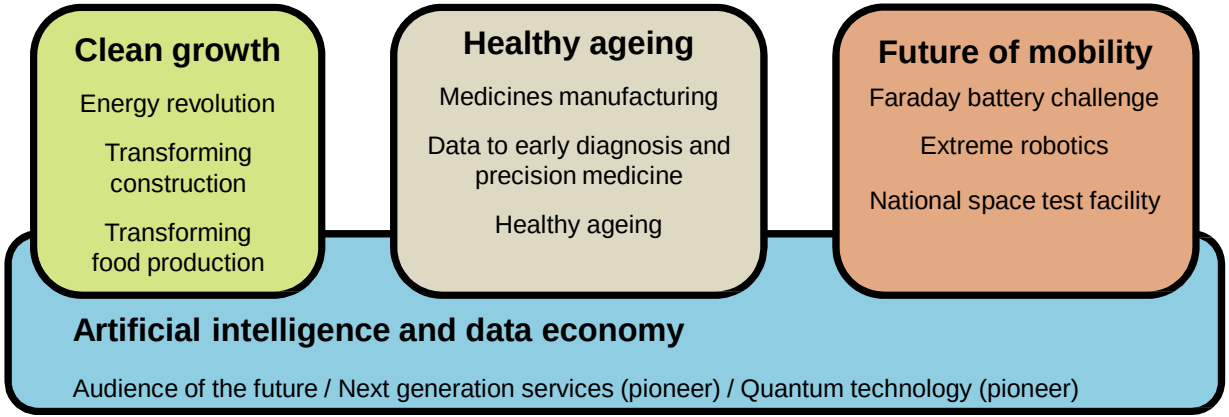
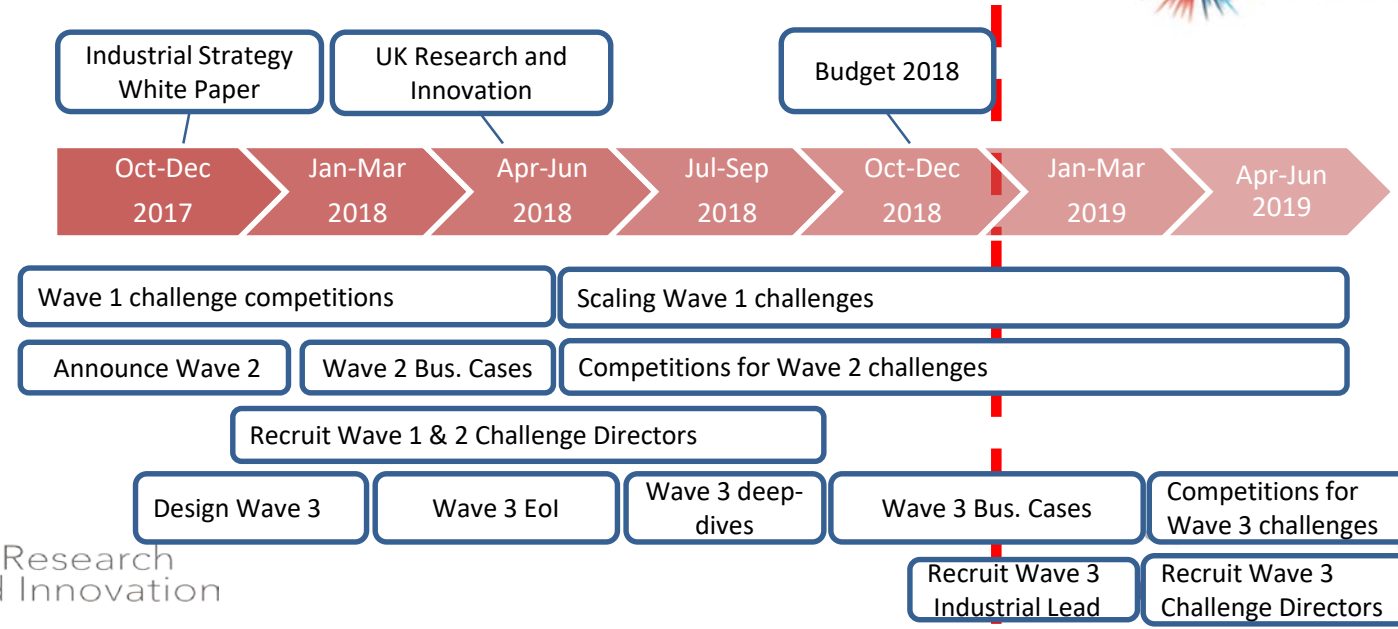
RESEARCH COUNCILS UK

How the ISCF challenges fit with the Industrial Strategy Grand Challenges



ISCF timeline



UK Research and Innovation

Wave 3 Announced Challenges

Ageing Society

Accelerated Detection of Disease
(was Early Diagnostics Collaborative)

Clean Growth

Industrial Decarbonisation Challenge

Transforming Foundation Industries
(was Energy Intensive Industrial Processes)

Smart Sustainable Plastic Packaging

AI and Data Economy

Manufacturing Made Smarter

Commercialising Quantum Technologies

Future of Mobility

Future Flight Challenge
(was Amy Johnson)

Driving the Electric Revolution
(was Stephenson Challenge)

Innovation

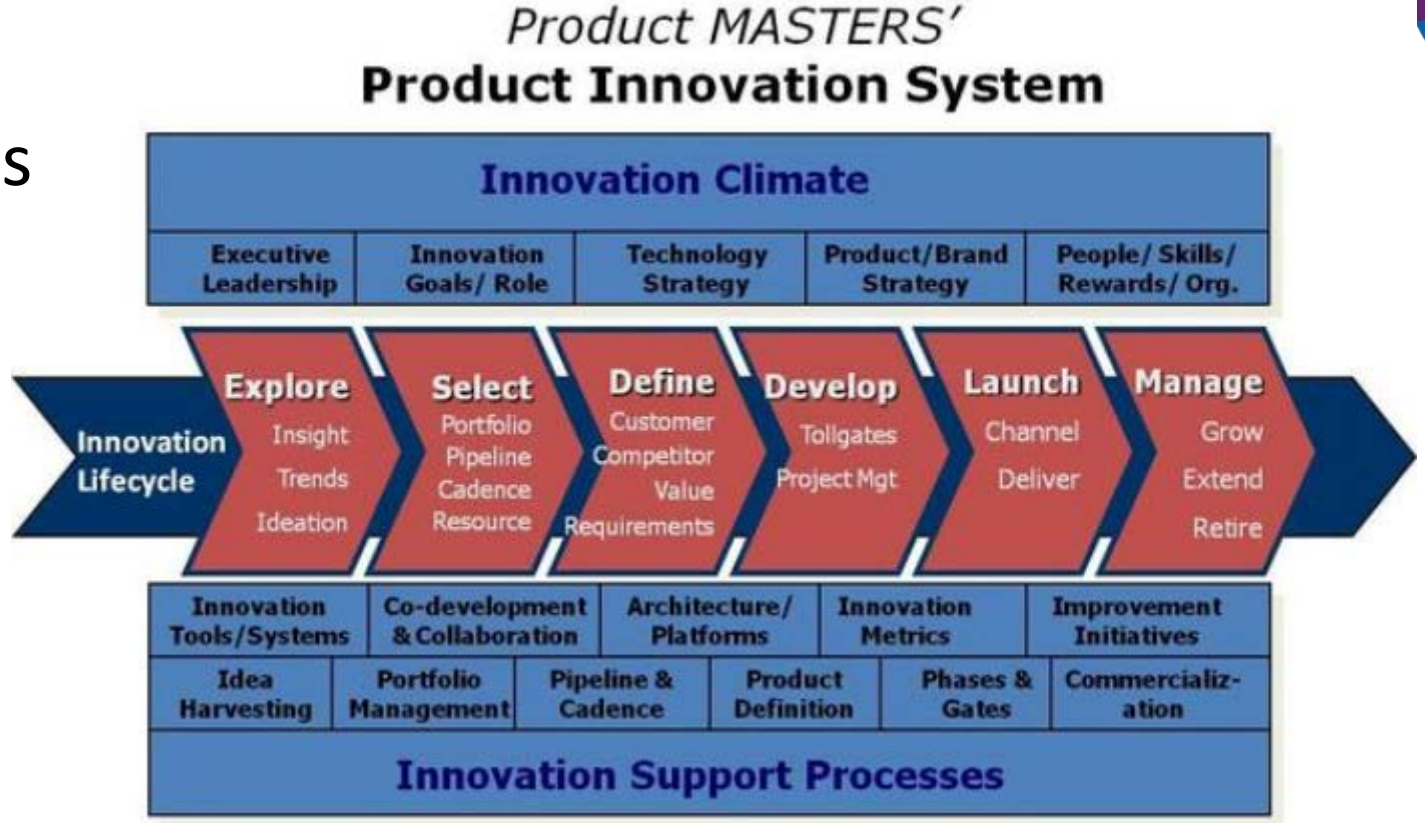
How Does new technology get into market…

Innovation

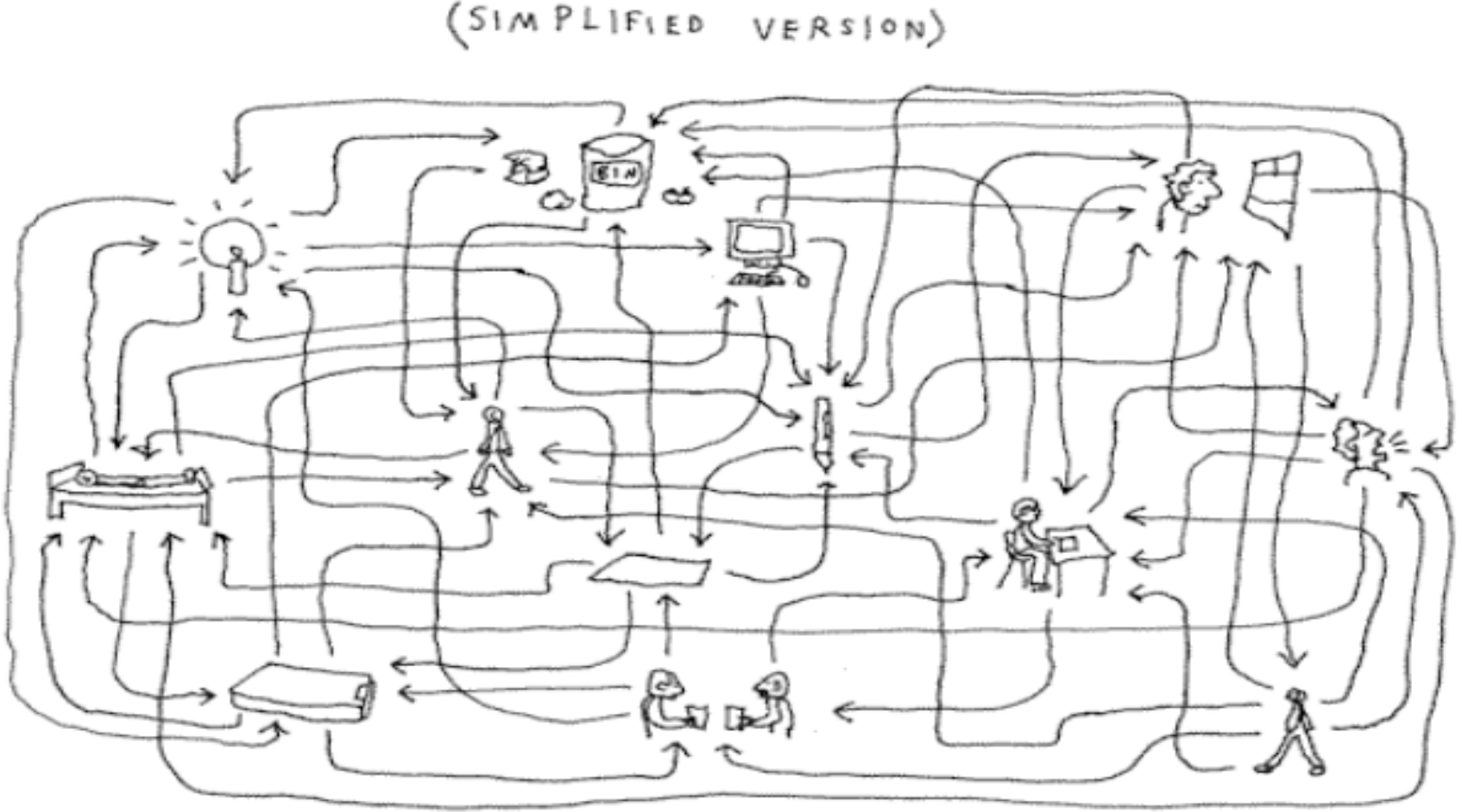
"Innovate? No—we already tried that once. It didn't work out"
TimoElliott.com

Innovation

Sometimes seen as a linear process…



Innovation in Practice



How can we help?

Knowledge Transfer Partnerships

Roadmaps

Roadmaps
pictorial ou
of the deve
of a sector,
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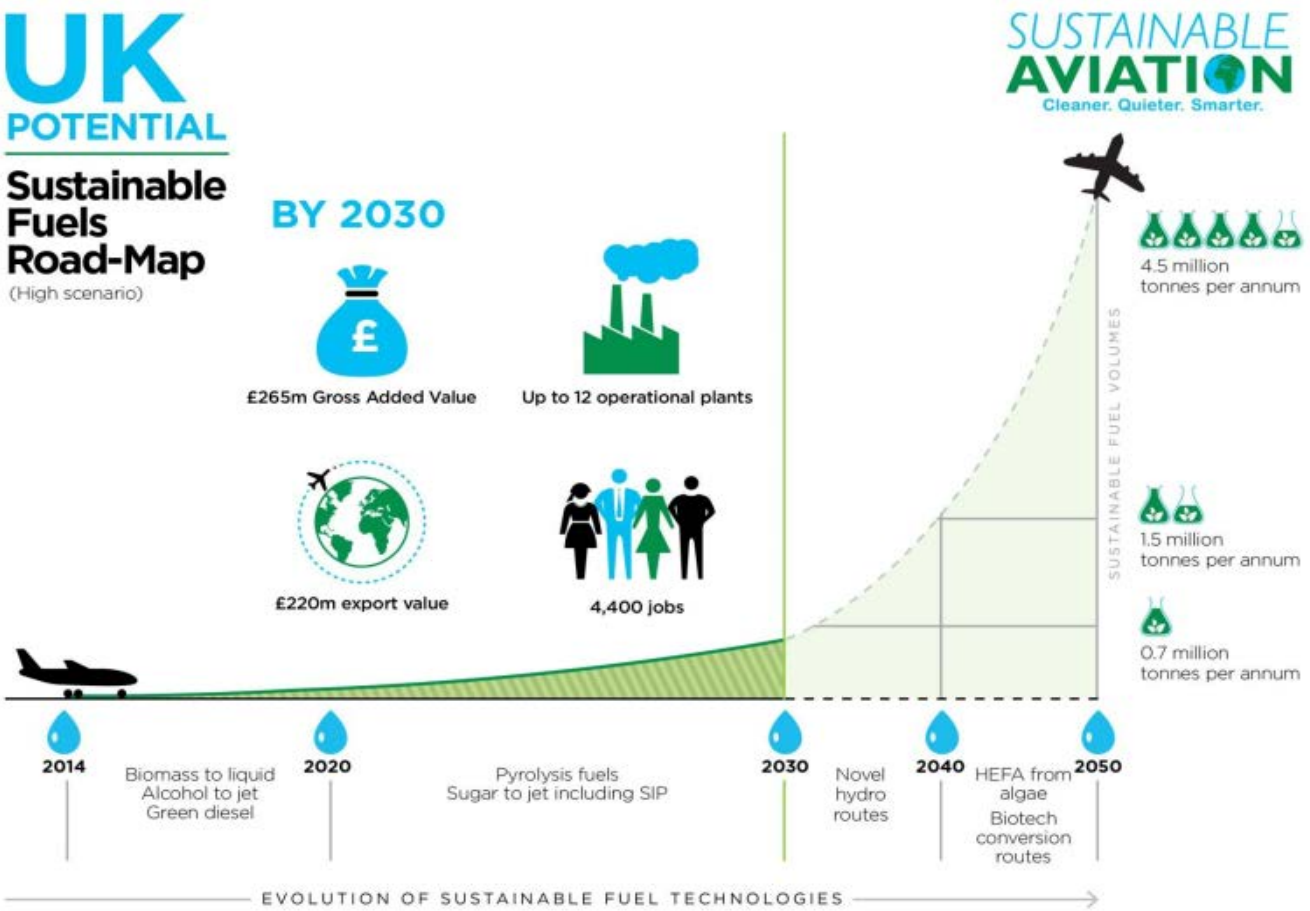


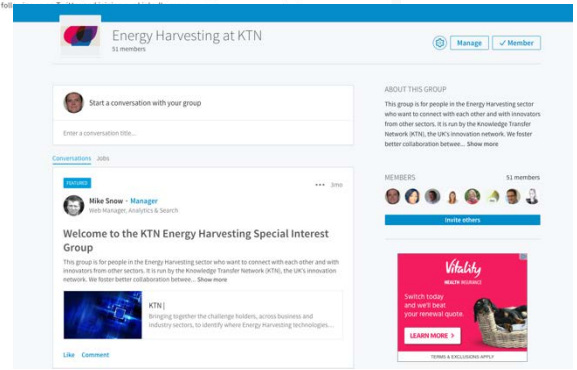
Case Studies

Aim to present a solution that has been implemented

- Give “credibility” to the technology
- Define a reference application
- Detail a company that has gained an advantage

Special Interest Groups

- Build a UK community to bring together challenge holders & solution providers
- Map UK community
- Disseminate Case Studies
- Workshops to identify solutions and convene the community



Don’t Forget European Funding

H2020 – UK still able to join projects

But please don’t miss out on Penta…

Innovate UK is working with PENTA to deliver a 2019 call

Up to **£2m is available** for UK organisations with the objective of:

Supporting projects along the **Electronic Components & Systems (ECS)** value chain.

Helping the formation of innovation “ecosystems” bringing together the best technologies in large enterprises, SME’s, RTO’s and academia to form dynamic new teams that will extend the State of the Art with the potential of subsequent rapid commercial exploitation

https://ktn-uk.co.uk/events/eureka-penta-cluster-call-webinar

Thank you

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All views are my own! Certainly not government policy.