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European Union
European Regional
Development Fund

4th Learning Pillar: Evaluation of Policy-mixes

Welsh Government

Greg Green

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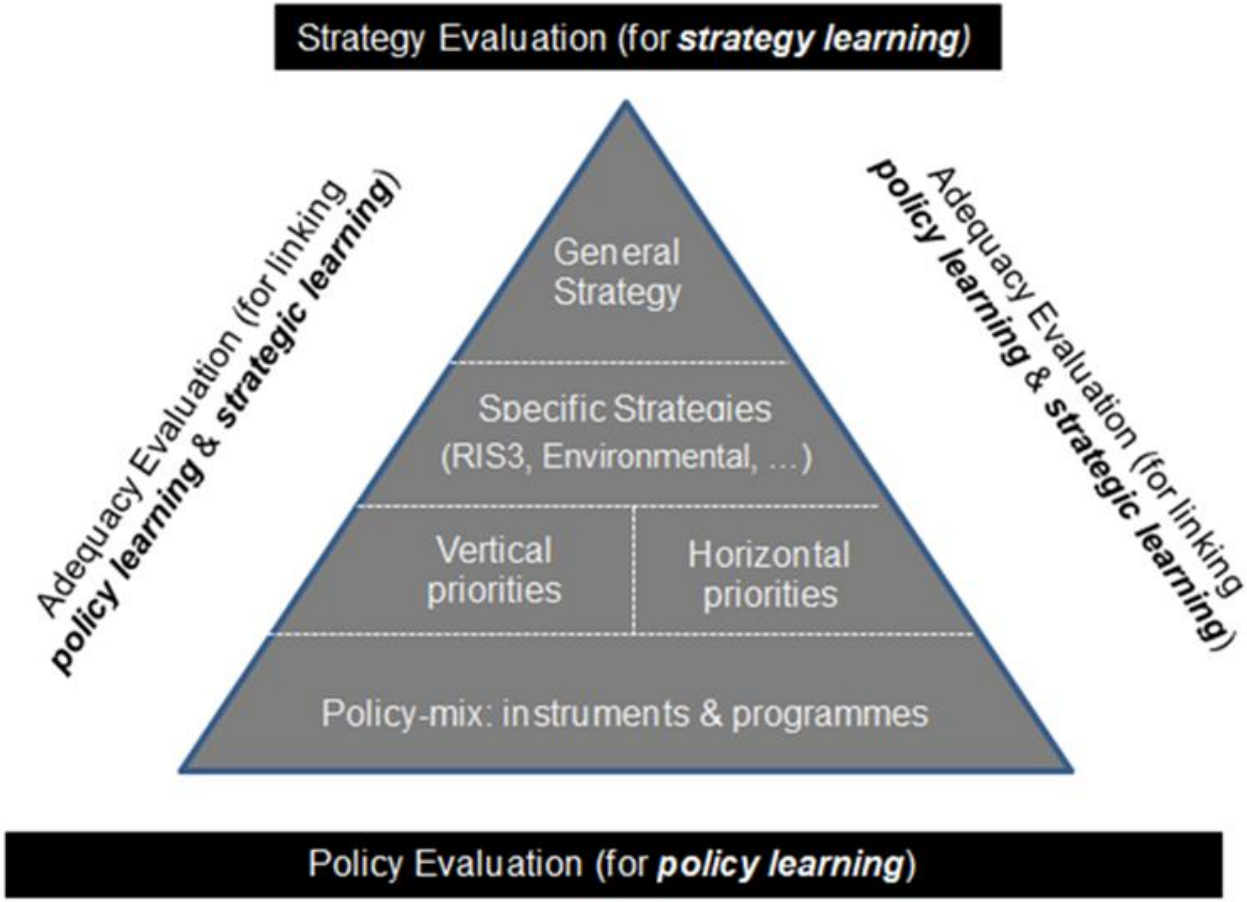
Integrating data gathering and analysing systems for policy mix evaluation framework

To share how they would create an integrated data gathering and analysis system from individual instrument's evaluation systems towards a mix

(for avoiding duplicities in information gathering and create synergies) through their own examples

Strategies and policies overview



UK Regional data analysis – Science and Innovation audit (SIA)

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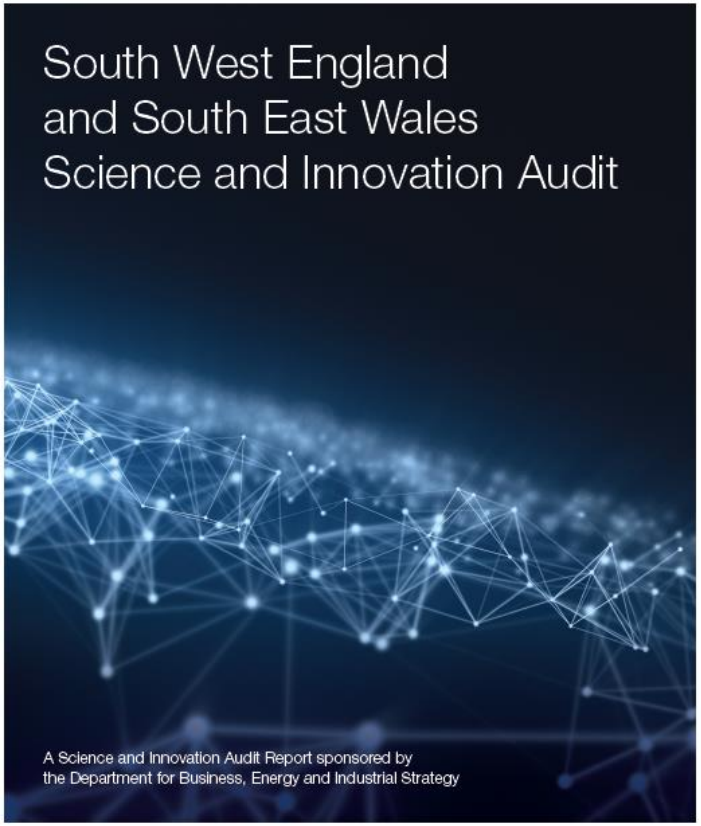
Department for Business, Energy & Industrial Strategy



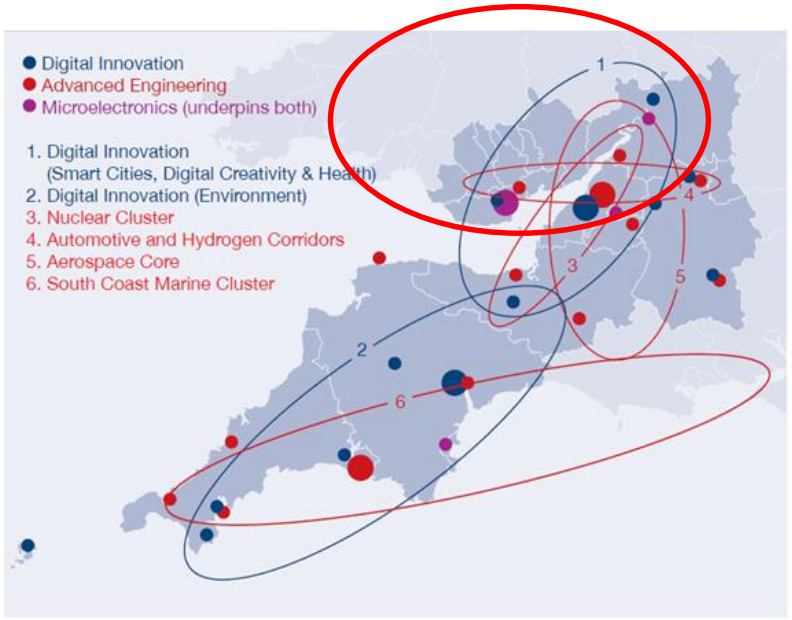


Figure 5. Advanced Engineering and Digital Innovation inter-connected hubs ◯ and linked assets o (Note: schematic – size does not reflect scale.)

Process of regional analysis

Figure 2. SIA 6-step process

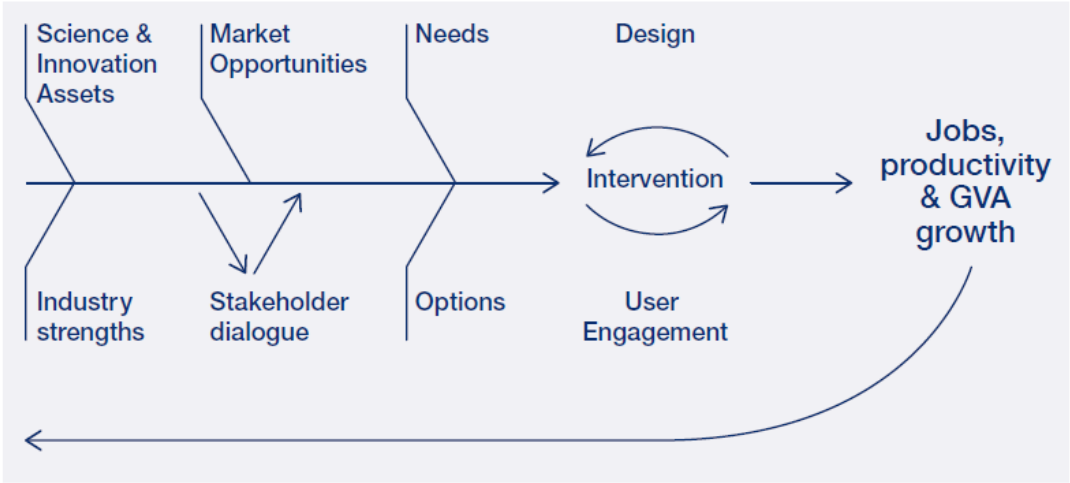


Figure 3. Identifying our proposed opportunities for investment

Data analysis = Regional strengths

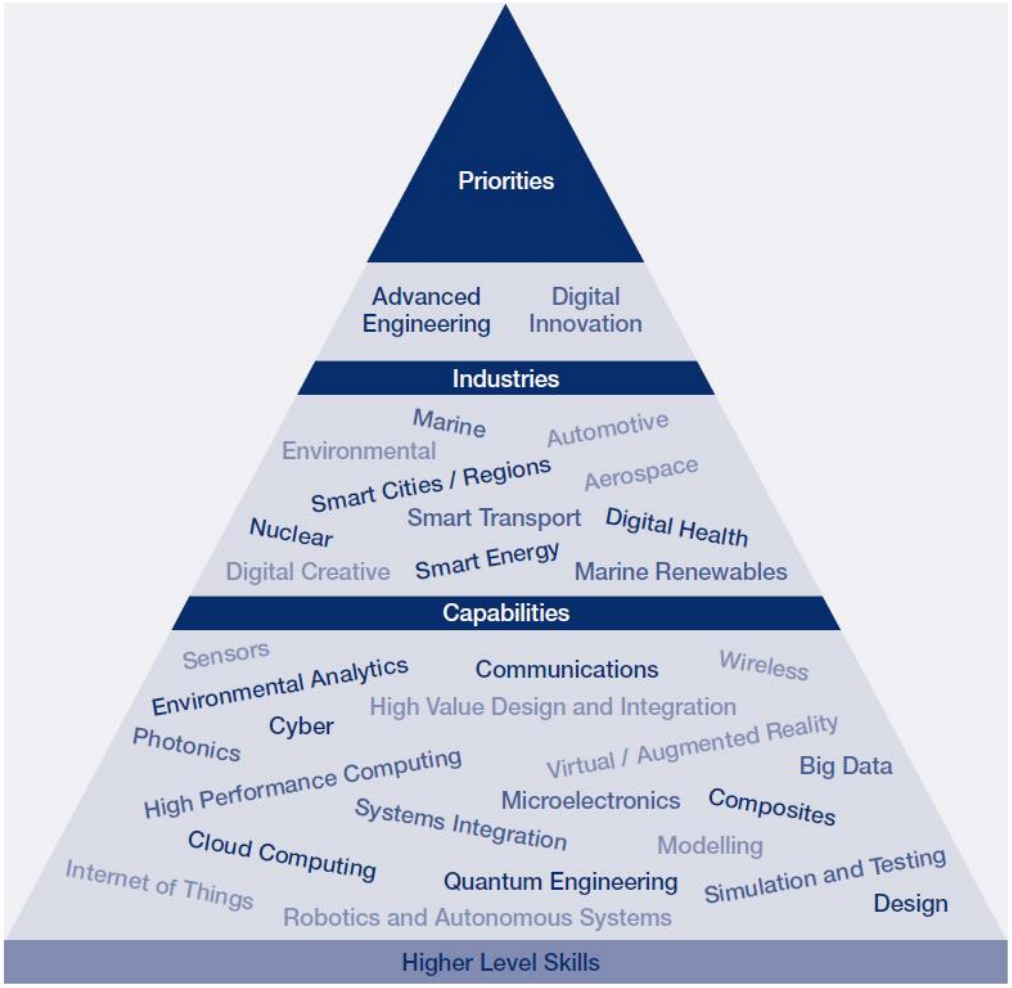
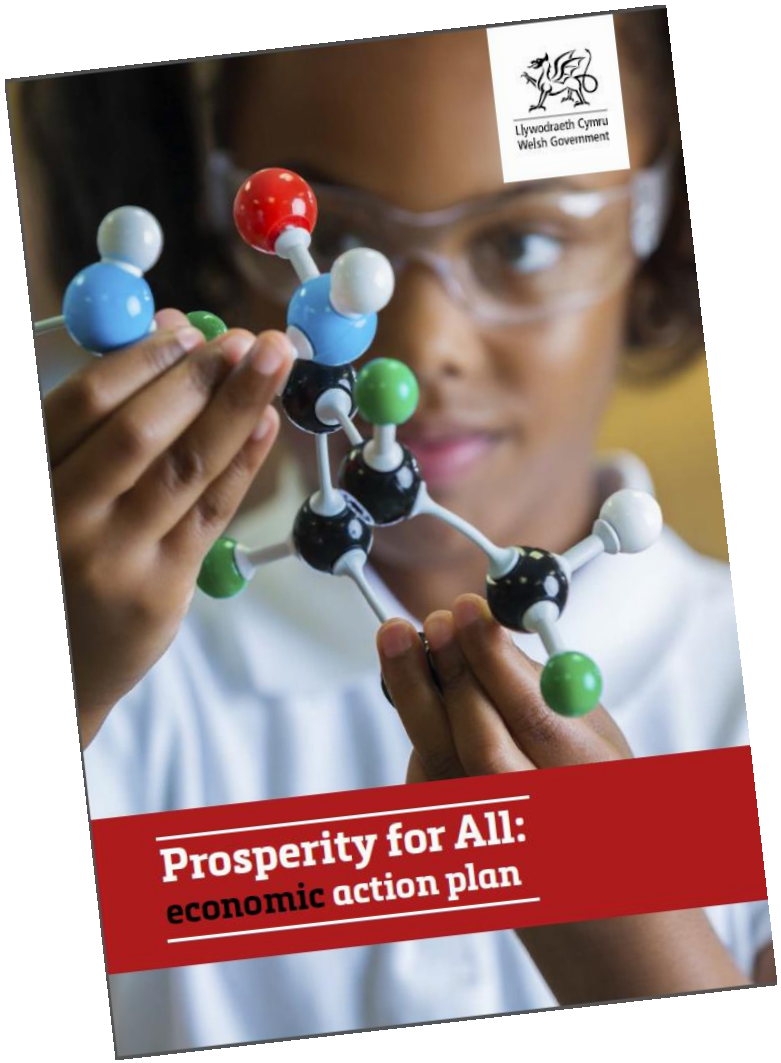


Figure 4. Underpinning high level skills and core science and innovation capabilities to support industries in two priority areas: Advanced Engineering and Digital Innovation.

Wales – New Regional Policies

Strategy

New -Economic action plan



The Plan drives the twin goals of growing the economy and reducing inequality.

Economic Contract to our direct financial support to business

First Stage:
Growth potential / Fair Work /Promotion of health/ Reducing carbon footprint

Second Stage:
target at least one Calls to Action:
Decarbonisation/ Innovation,
Entrepreneurship and Headquarters/ Exports and Trade /
High Quality Employment, Skills Development, and Fair Work/ R&D, Automation, and Digitalisation

Other aspects:
Economy Futures Fund:
streamline and simplify our approach into a single, consolidated **Economy Futures Fund**.

National Thematic Sectors:
Tradable Services/ **High Value Manufacturing**/ Enablers

Foundation Sectors:
Tourism / Food/ Retail/ Care

Regional Economic Development

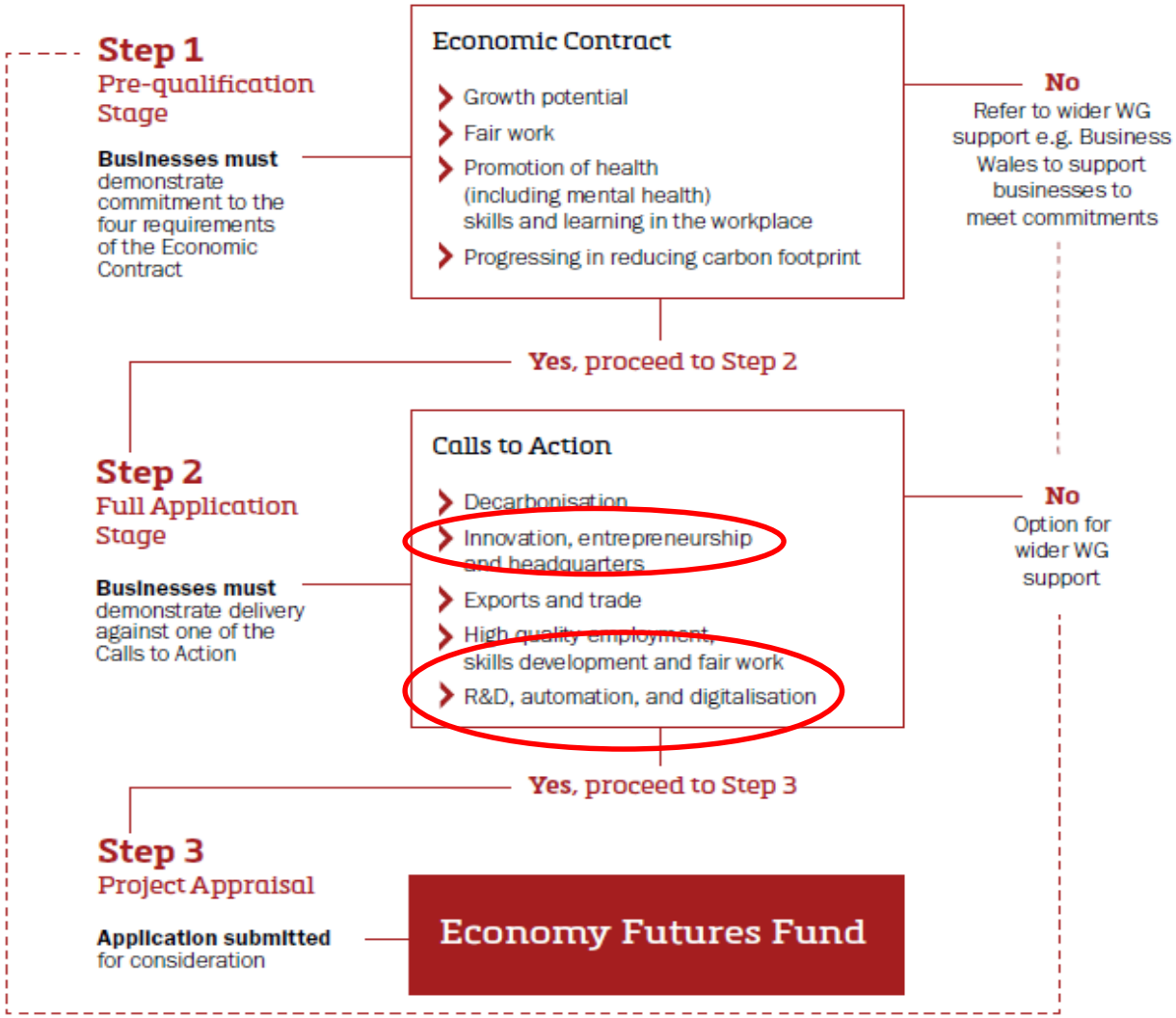
Skills and Lifelong Learning

Infrastructure

Procurement

Working together

New focus of support aligned to Economic Contract and Calls to Action



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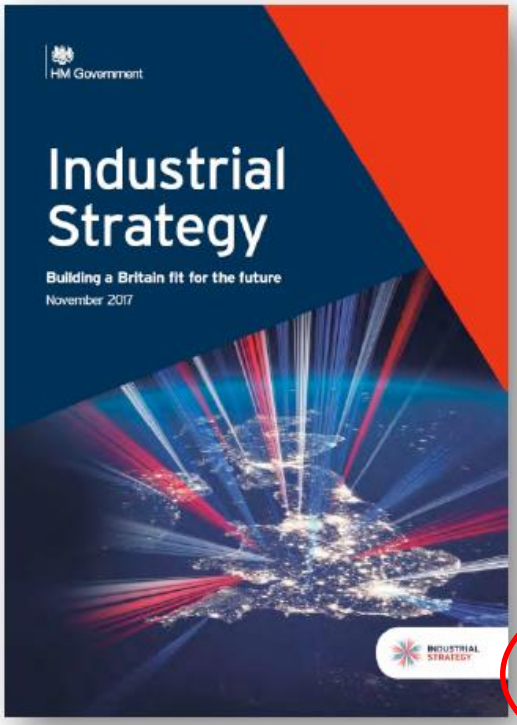
UK Strategies – ‘Places’ example



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

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

Targeted UK support – based on data analysis and evidence

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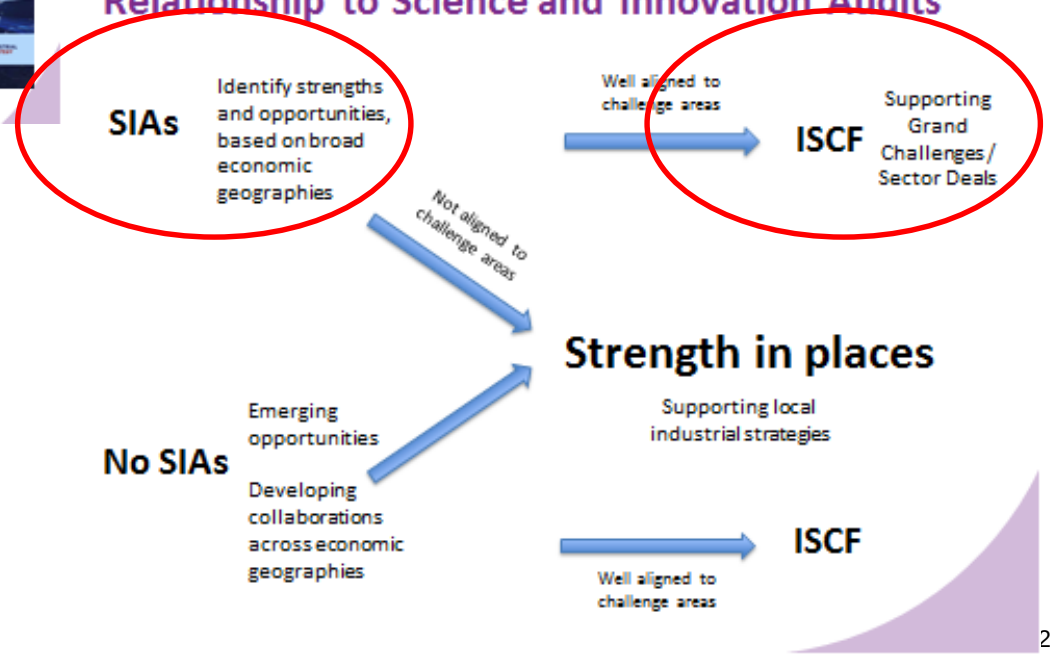
Competitive £115m UKRI Strength in Places Fund (to drive clusters)

" to support collaborative programmes based on research and innovation excellence in places right across the UK

.....which can **demonstrate a strong impact on local productivity**

.....and enhance **collaboration between universities, research organisations, businesses, local government and LEPs in England and relevant agencies in the devolved nations."**

Relationship to Science and Innovation Audits



Different intervention layers

Firm level:

Businesses, clusters and communities of innovators need different resources and benefit from different interventions depending on the stage they are at, and policymakers are keen to identify high-growth potential (scale-up) businesses where support is likely to have the strongest impact.

Tech/Sector level:

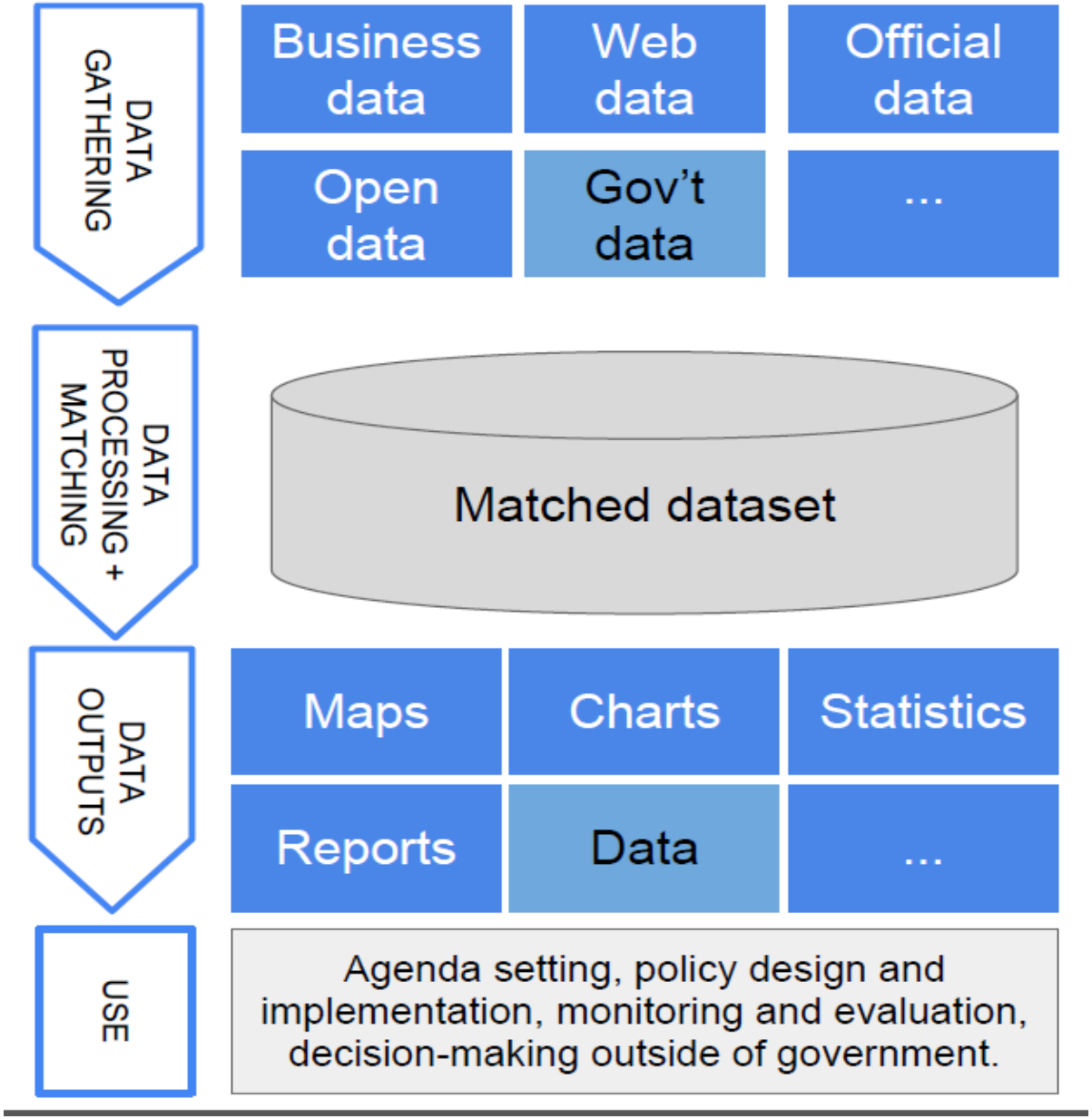
“General-purpose” technologies and boundary-spanning sectors can boost productivity across many parts of the economy. Investing on them early has the potential to generate long-term competitive and regional advantages, but policies designed with older sectors and innovation models in mind may not help promote them**.**

Network level:

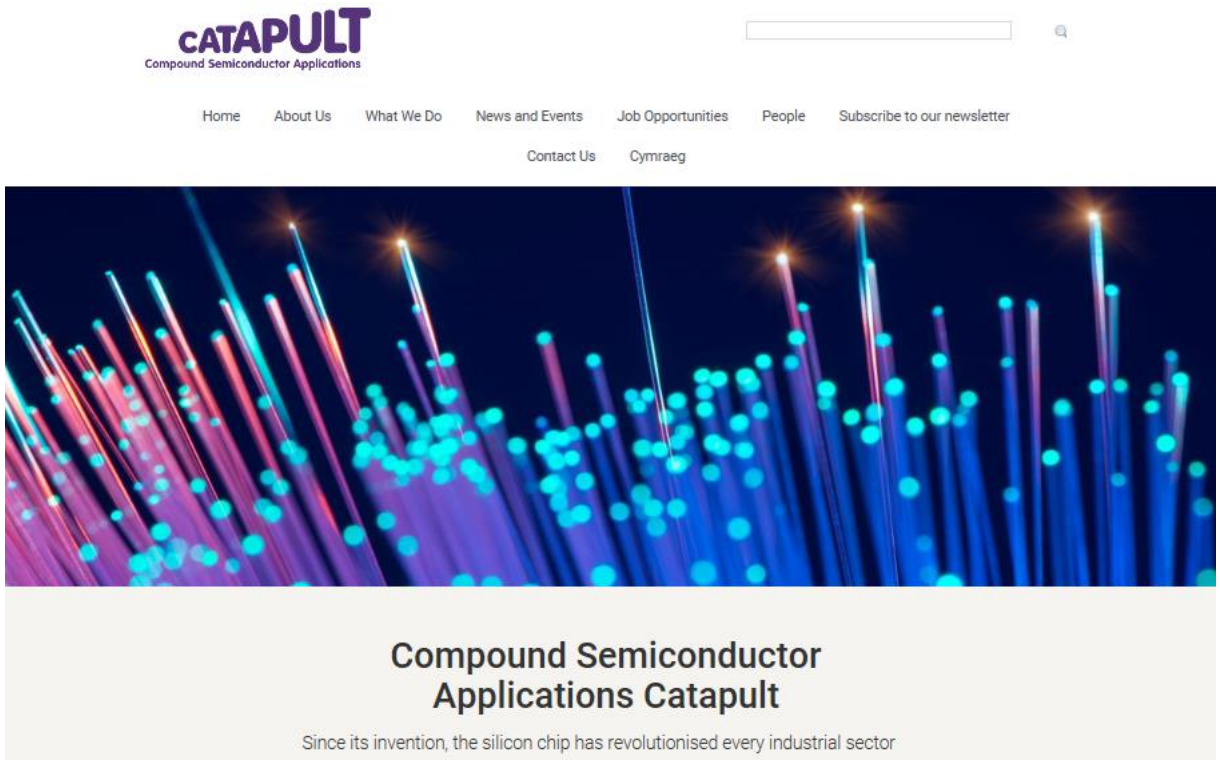
Certain innovation and product network configurations are particularly resilient and conducive to growth – developing them requires accurate and timely maps of collaboration and networking; inward investors, on their part, are attracted to local ecosystems with specific capabilities, value chains and skills.

Data gathering and analysis

Starting point: We want to measure & understand innovation to support it better	Why is it hard to do this with official data?	What is the policy problem?	What's the solution?
Some important questions: *-Where it is happening* *-How is it happening?* *-What are the barriers?* *-Do our interventions to support it make a difference?*	Rear-view of the economy based on existing industrial codes	Hard to identify new industries, new technologies, new clusters	Use unstructured data to create our own categories
	Data in silos, lacking a relational dimension,	Fragmented, incomplete view of innovation systems	Combine datasets, use social network data
	Anonymised data: we care about outliers but learn about averages	Imprecise targeting across the policy cycle	Use public data


DATA GATHERING
Business data
Web data
Official data
Open data
Gov't data
...
DATA PROCESSING + MATCHING
Matched dataset
DATA OUTPUTS
Maps
Charts
Statistics
Reports
Data
...
USE
Agenda setting, policy design and implementation, monitoring and evaluation, decision-making outside of government.

Example outcome



The Compound Semiconductor Applications Catapult is a new grant funded organisation set up in South Wales focused on helping industry exploit the significant advances made by UK researchers over the past two decades to make future advancements in technology a reality. The UK has invested in pure and applied research in Compound Semiconductors, through £750m funding in EPSRC and Innovate UK programmes over the last 10 years and more recently with £130m in a cluster in South Wales.

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Thank you