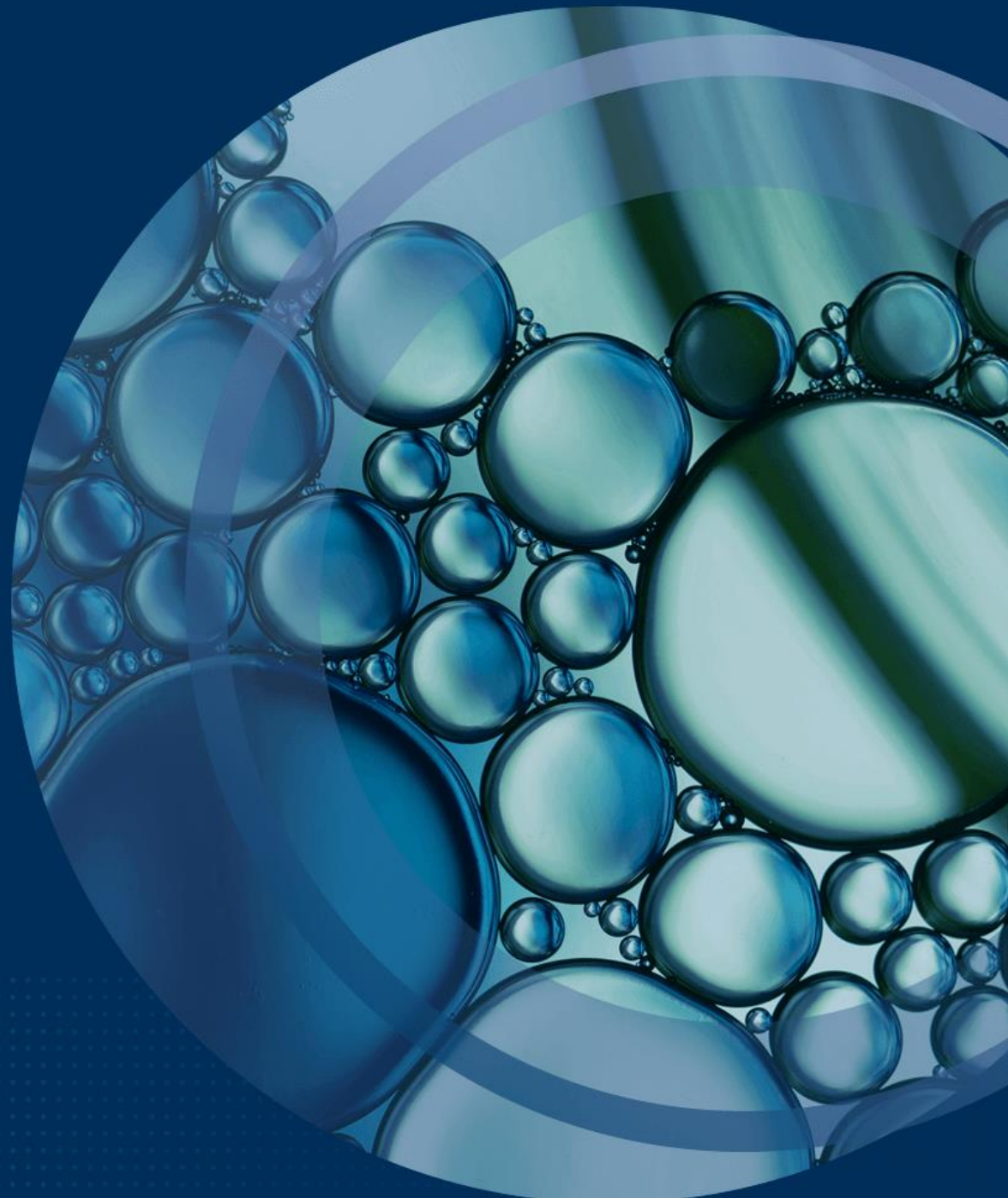




Creating Lasting Value from Science

Parliamentary & Scientific Committee

15 April 2024



The policy interventions needed for the UK to build a targeted industrial strategy that unlocks growth, rivals international competitors and delivers skilled jobs

.....
Sharon Todd, CEO of SCI



Science and Innovation : the Bedrock of British Industry

FTSE 100

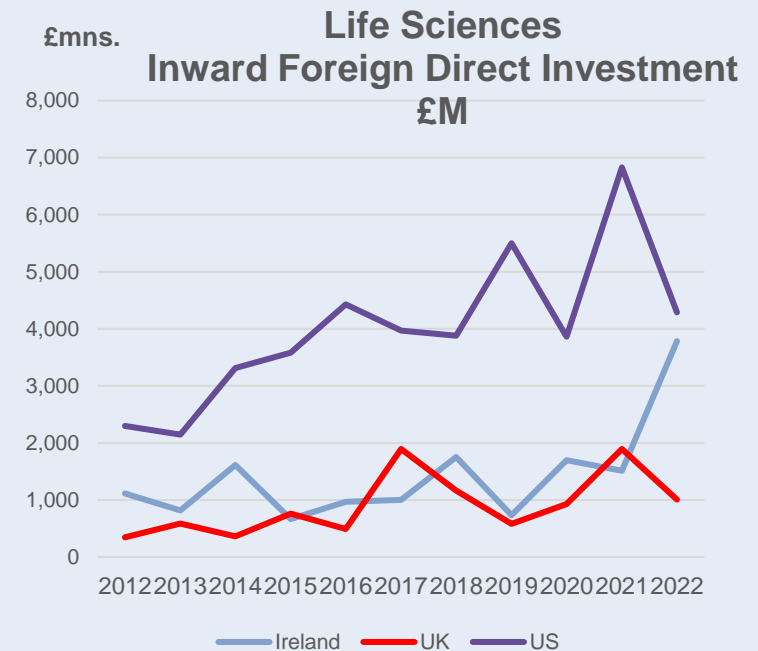
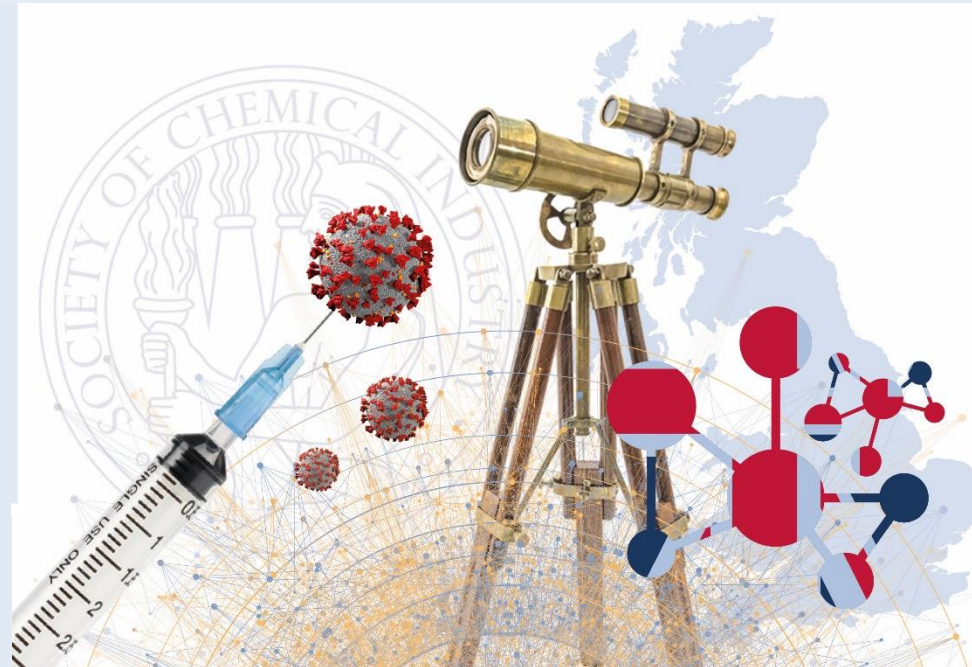
Not one top ten FTSE100 company built new manufacturing plant in the UK between 2003 and 2023.

AstraZeneca 

The UK-based pharmaceuticals giant chose to invest **\$360bn** in new manufacturing facilities in Ireland in 2023.

UNICORNS

Only 2 of the 10 UK life science start-ups worth **\$1bn** to float in the decade to 2021 chose to list in the UK



LEK Consulting identified £230Bn GVA and >240,000 jobs (direct and indirect)

4 Steps to UK Science Business Growth



1. Innovation at the Heart of Government

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2. Attracting large scale investments

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From Start-Up to Large Global Science Business

Start-Up and Scale-Up Business

- Dr Natasha Boulding, CEO and Founder **Low Carbon Materials**

Global Science Business

- Liz Rowsell, Chief Technology Officer **Johnson Matthey**
- Daphne Vlastari, Head of Communications and Government Relations, UK & Ireland **BASF**

Start-Up Science Business



A Platform Technology for Motility Measurement



SAM (ARR)
(male fertility)

£0.5bn

£5bn

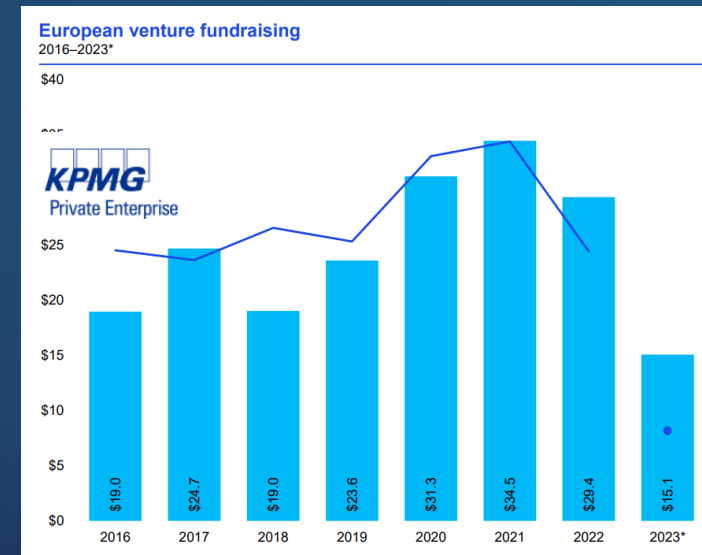
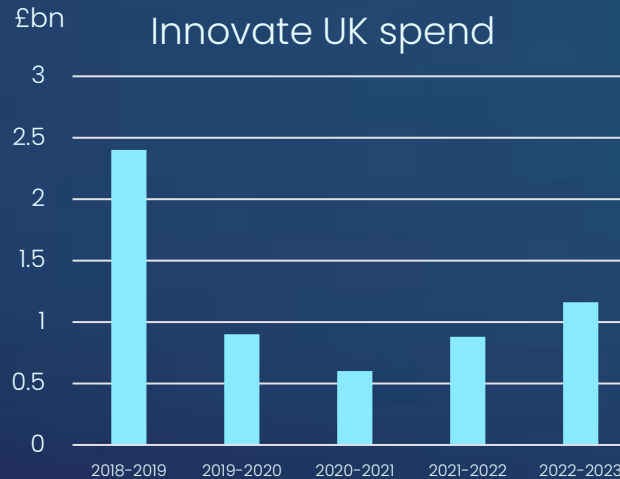
£5bn

How can we fund our opportunity?

Capital need for R&D, facilitated by:

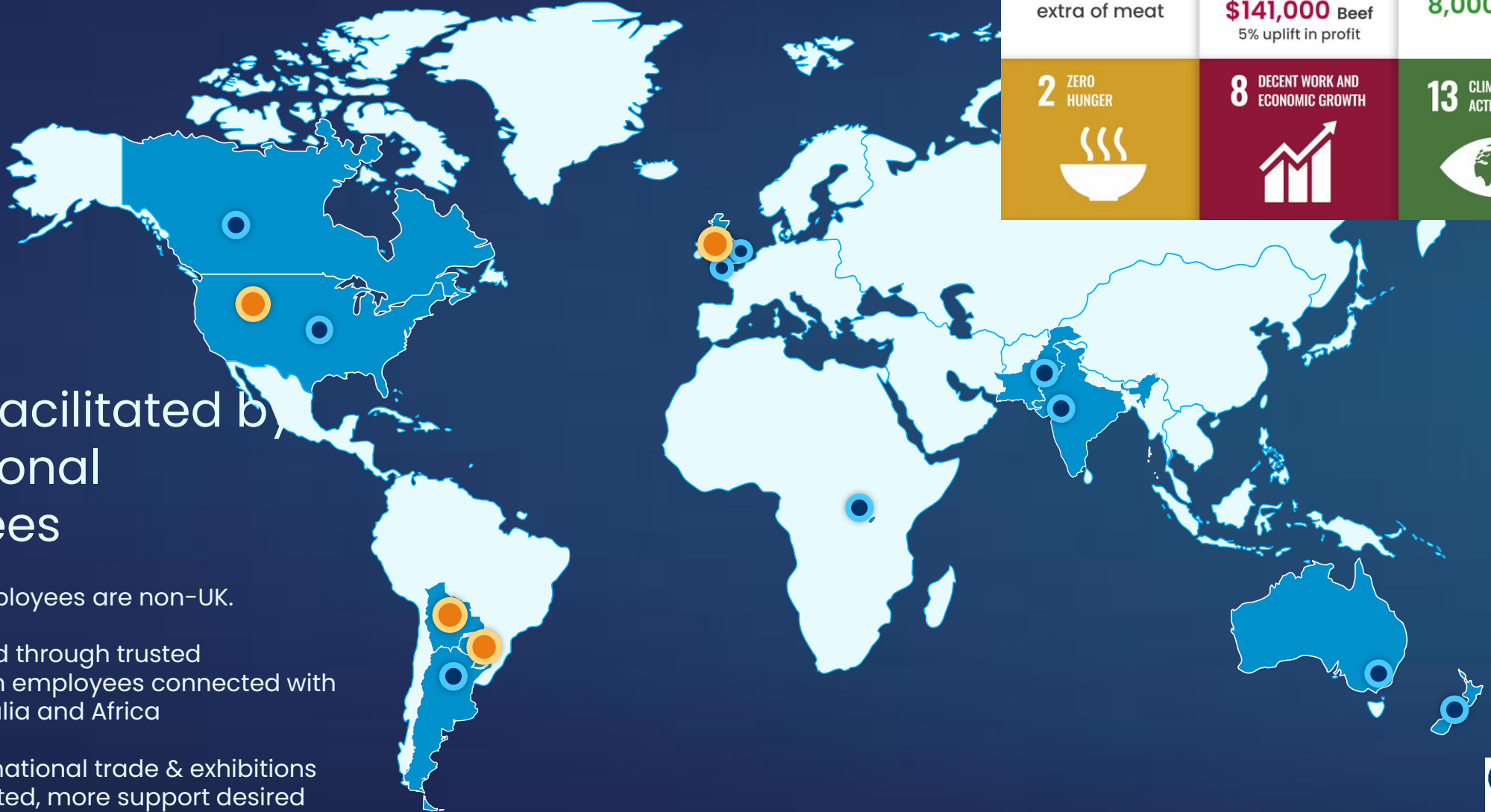
- > Innovate UK funding – becoming more difficult
- > Private investment (Angel, VC) – decreasing
- > R&D tax credits – becoming less competitive

Cash availability declining, stymies innovation



Global Exports

Dynescan launched 2022, now across 6 continents



Growth facilitated by international employees

50% Dyneval employees are non-UK.

Exports facilitated through trusted relationships with employees connected with Argentina, Australia and Africa

Support for International trade & exhibitions greatly appreciated, more support desired

IMPACT (on each farm of 1000 cows)

16,000 KG
extra of meat

Annual profits of
\$101,000 Dairy
\$141,000 Beef
5% uplift in profit

Equiv. to planting
8,000 trees

2 ZERO HUNGER



8 DECENT WORK AND ECONOMIC GROWTH



13 CLIMATE ACTION



Scale-Up Science Business

Dr Natasha Boulding
CEO & Founder
Low Carbon Materials





Low Carbon Materials

Making Good **Matter**

Combatting Climate Change
through **Material Innovation.**



Large Science Business founded in UK

Liz Rowsell

Chief Technology Officer
Johnson Matthey



1
2



Johnson Matthey
Inspiring science, enhancing life



Catalysing the net zero transition for our customers, and for society

Johnson Matthey: a global leader in sustainable technologies.

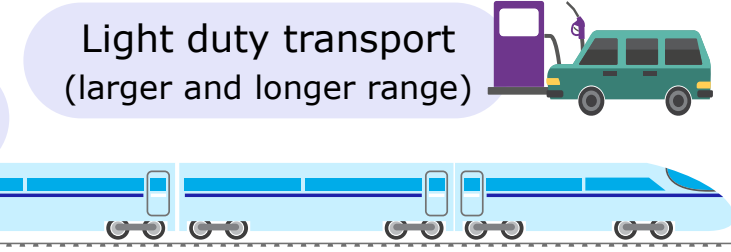
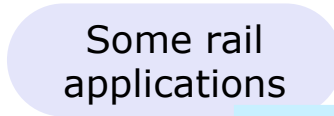
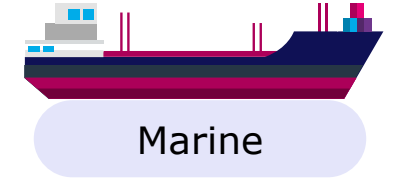
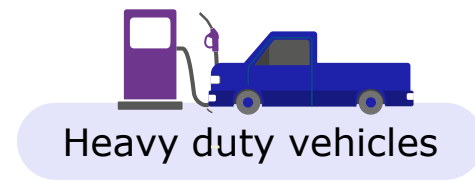
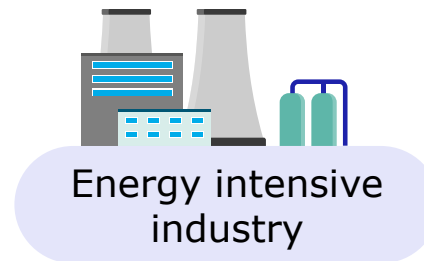
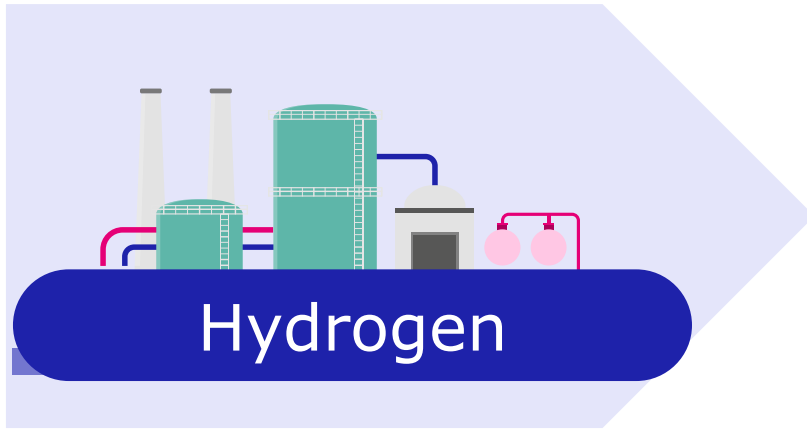
The world's leading **energy**, **chemicals** and **automotive** companies depend on us, to help them:

- Decarbonise
- Reduce harmful emissions
- Achieve their sustainability goals



We need policy to enable the transition to net zero

Case study: the UK is well placed to build a hydrogen economy for the energy transition and decarbonisation of chemicals and fuels



Global Science Business domiciled outside of the UK

Daphne Vlastari

Head of Communications & Government
Relations, UK & Ireland

BASF



1
5

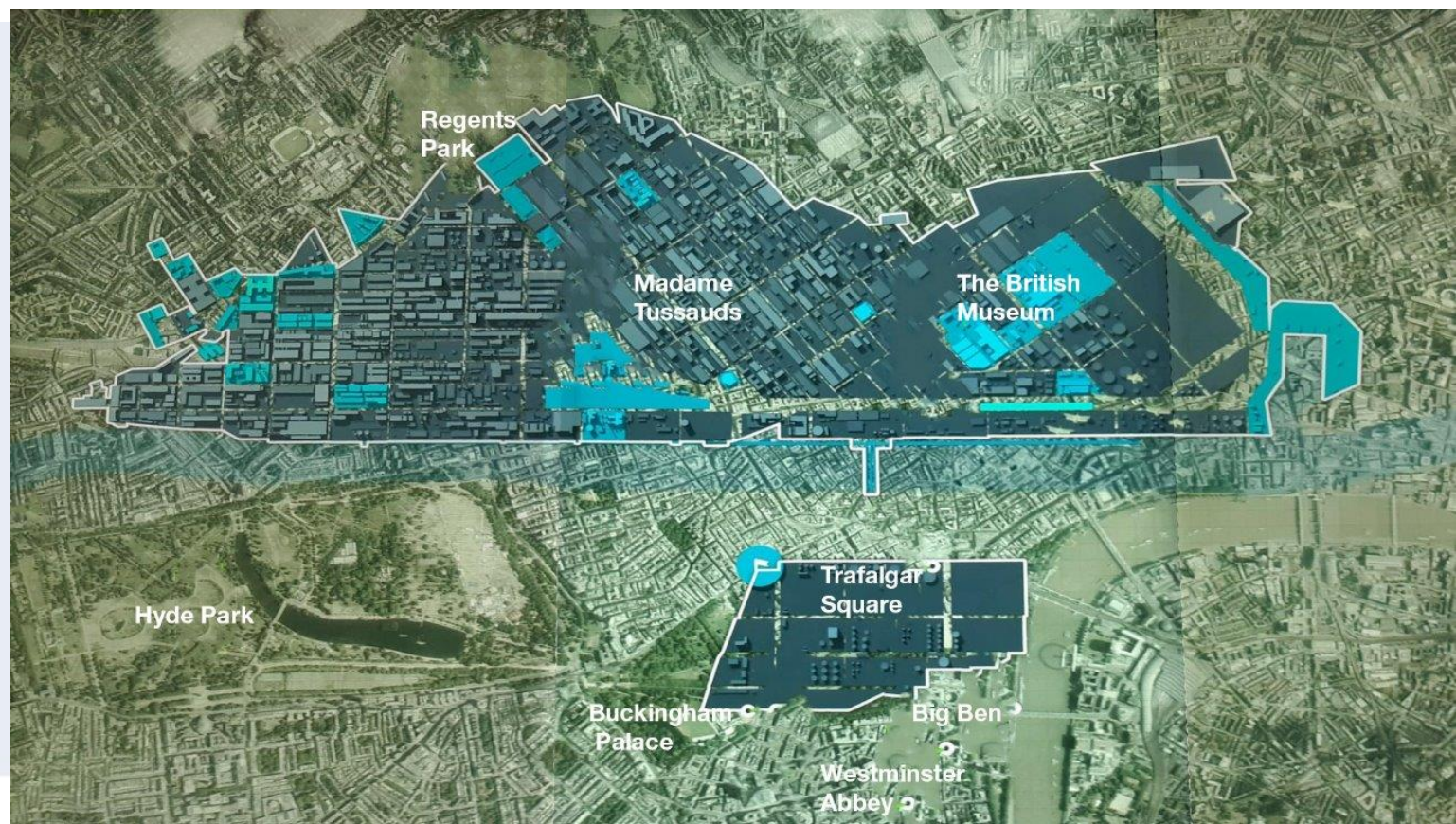
Global Science Business Investment in the UK

- Our chemistry is used in almost all industries.
- BASF is present in 93 countries. We operate 234 production sites worldwide.
- Science and innovation integral to meeting our business and climate commitments; approx. 10,000 patents in 2023 & over €2bn investment.
- Operating six sites in the UK, presence in the UK market since 1880.



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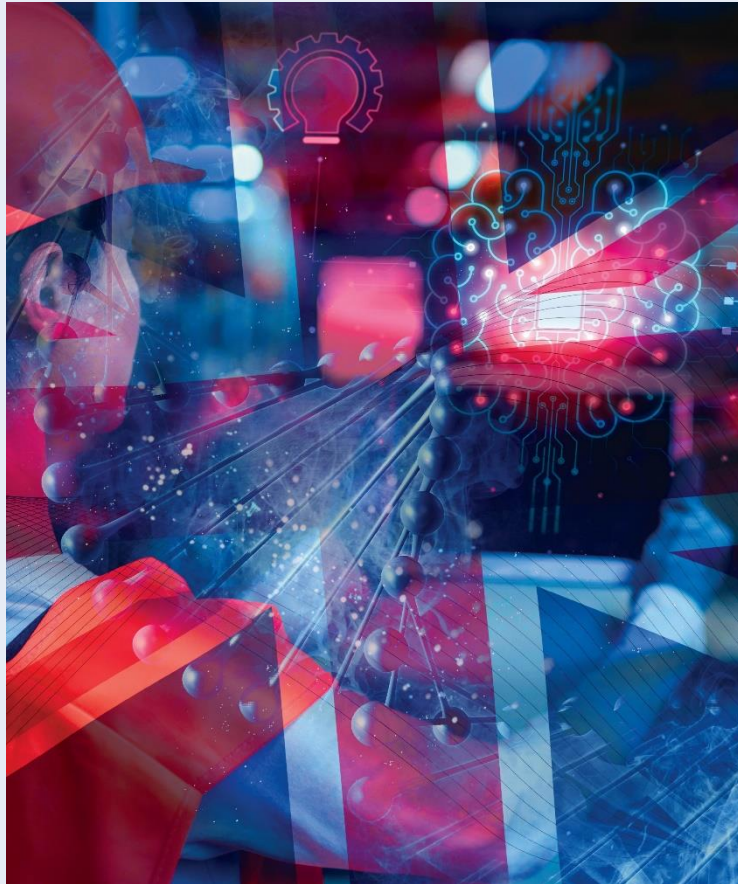


Global Science Business Investment in the UK

- Resource-efficient solutions and business models to decouple growth from the consumption of finite resources.
- Our global research and development presence – and its effectiveness – is vital to our long-term success.
- Examples of R&D work:
 - BASF's Academic Research Alliances (e.g. British Alliance for Research and Innovation)
 - Partnership work with peers and value chain (e.g. Flue2Chem)
 - Customer focus (e.g. Pulpex)



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THANK YOU

www.soci.org

 info@soci.org


 +44 (0)20 7598 1500

 14-15 Belgrave Square,
SW1X 8PS, London, UK

 www.soci.org/blog

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