

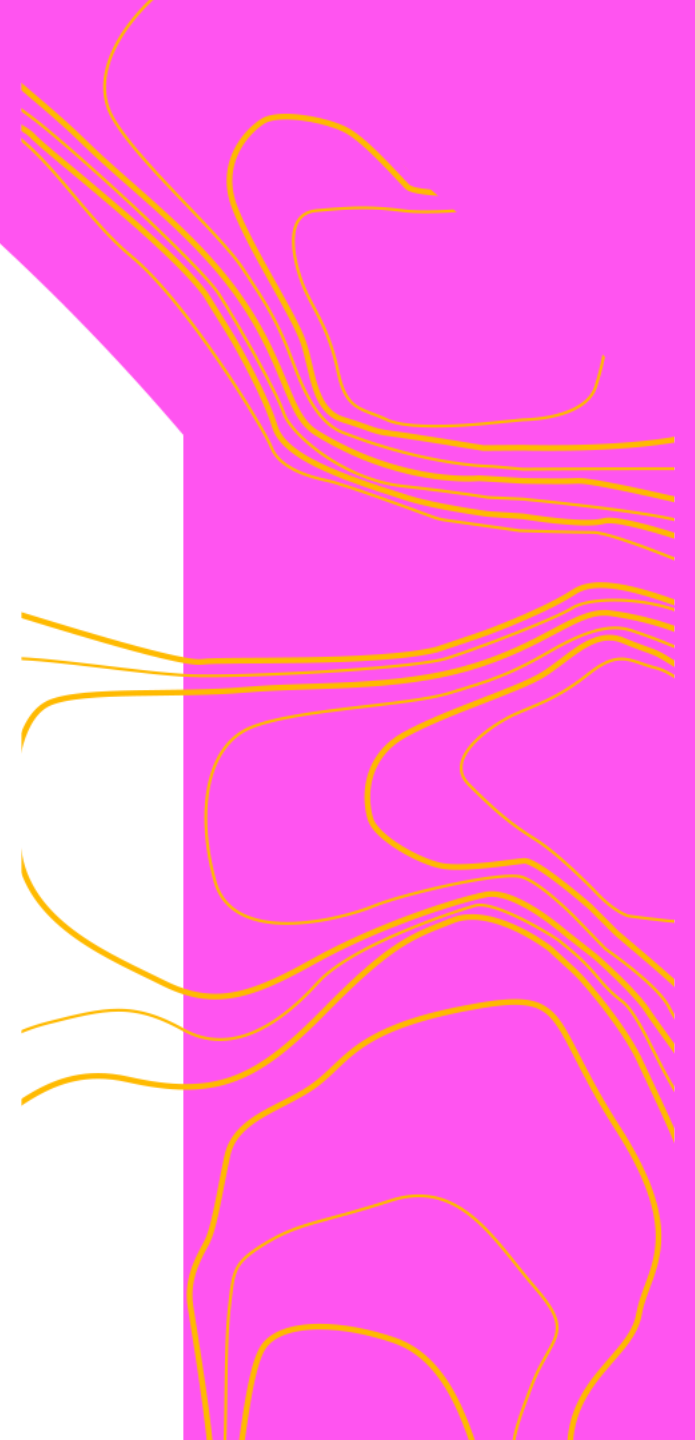


Biotechnology and
Biological Sciences
Research Council

National Engineering Biology Programme

Dr Rowan McKibbin

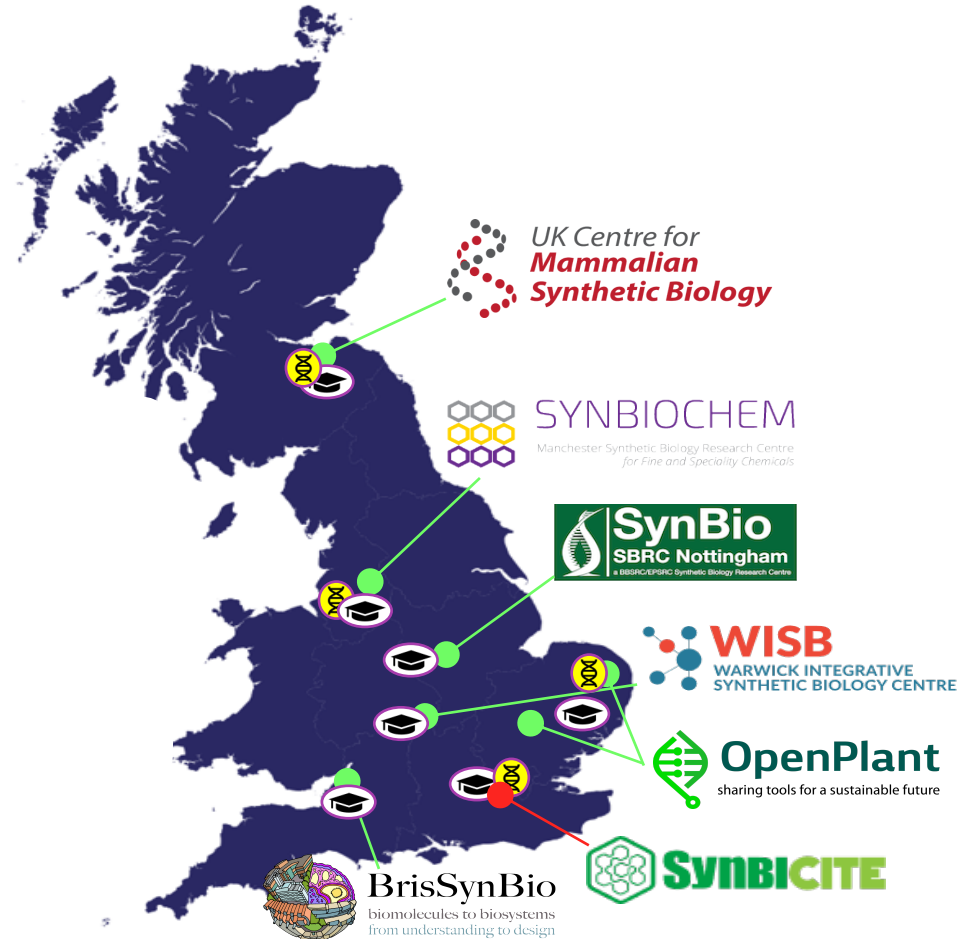
Associate Director: Frontiers and Foundations



Synthetic Biology: UK capabilities

Applying engineering principles to biology to (re-)design and create biological components and systems – **harnessing the power of nature to improve lives**

- 2010 Synthetic Biology dialogue
- 2012 Synthetic Biology roadmap for UK
- Investment to establish key capabilities across the UK (SBRC and NIBB)
- RRI embedded throughout investments
- UK responsible for publication of the ERA CoBioTech RRI Framework
- UK now recognised as a **world leader**



Engineering Biology: building on UK's strategic advantage

Engineering biology encompasses the wider capabilities and ecosystem that support the exploitation of synthetic biology knowledge for economic and public benefit

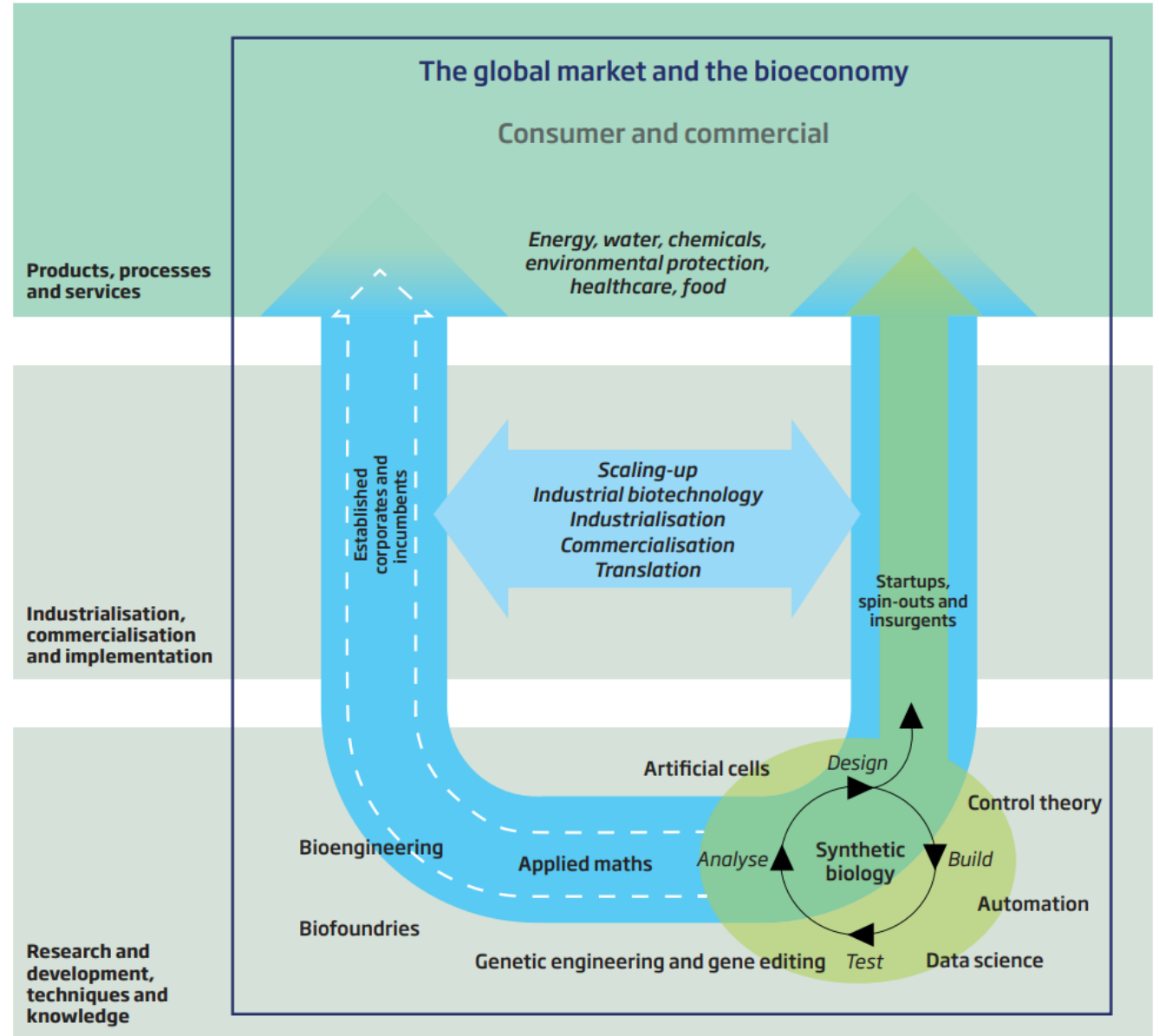


Diagram from 'Engineering Biology: A priority for growth' 2019, Royal Academy of Engineering

NEBP: Collaborative programme development

Draft business case developed



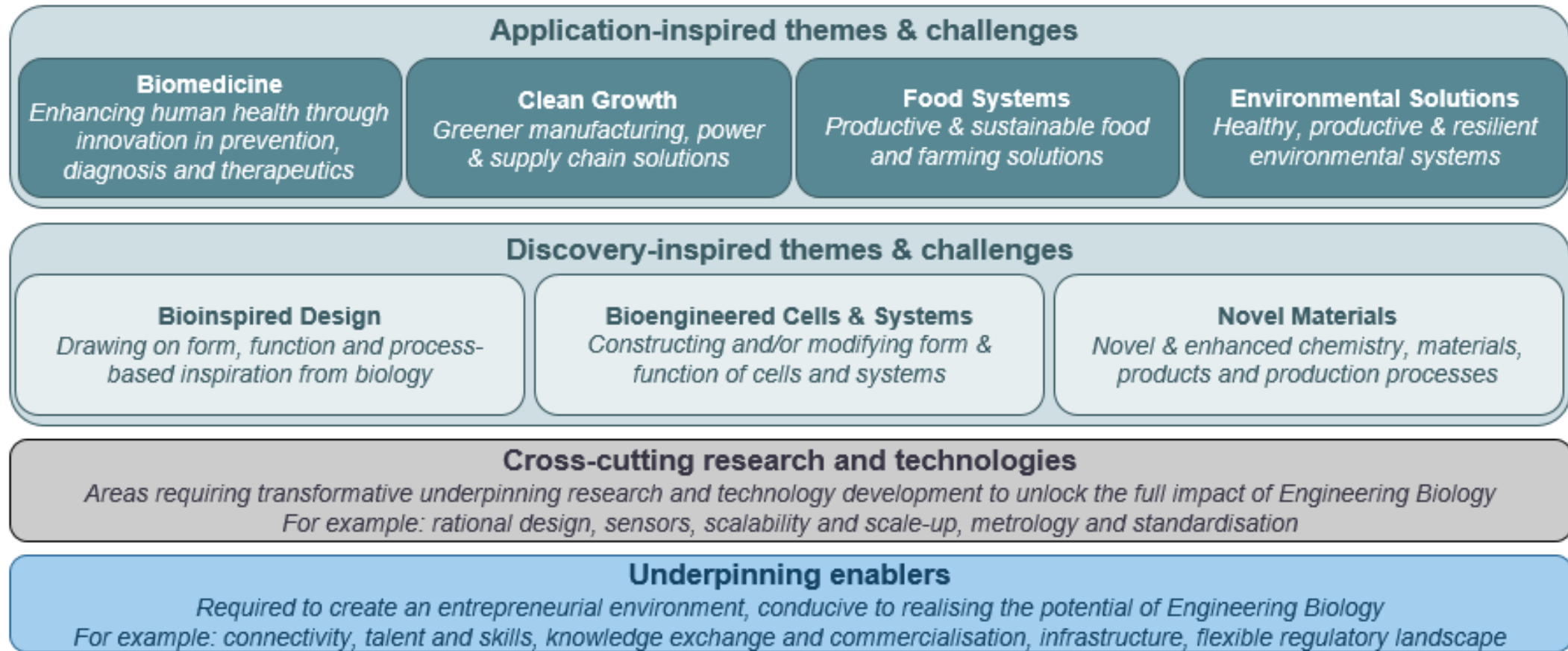
- April 2020 – Community survey of ‘challenges’
- May 2020 – Engineering biology virtual town halls, 150 attendees
- May 2020 – Virtual clustering of town hall outputs
- June 2020 – First draft of NEBP developed
- July 2020 – Focused workshops to refine NEBP themes & challenges



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National Engineering Biology Programme

Building on the UK's capabilities to deliver a **coordinated and integrated programme** which can support **growth and sustainability** for the UK economy



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Engineering and
Physical Sciences
Research Council



Innovate
UK



Medical
Research
Council



Natural
Environment
Research Council



Ministry
of Defence

Anticipated outputs and outcomes



NEBP: Collaborative programme development

Draft business case developed



- April 2020 – Community survey of ‘challenges’
- May 2020 – Engineering biology virtual town halls, 150 attendees
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- June 2020 – First draft of NEBP developed
- July 2020 – Focused workshops to refine NEBP themes & challenges
- July 2020 – Presentation to EBLC and Nadhim Zahawi MP
- August 2020 – Presentation to Chief Scientific Advisors network
- November 2020 – NEBP strategic case to UKRI internal assessment panel
- November 2020 – Engineering Biology paper to Cabinet Office EmTech board
- Autumn onwards - Transformative Technologies (inc. Engineering Biology) briefings for No. 10
- TBC – UKRI Spending Review allocations



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Thank you



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