

Parliamentary and Scientific Committee

Panel Discussion

SynBio for Human Health

What is SynBio? The Next Industrial Revolution









The Global SynBio Opportunity

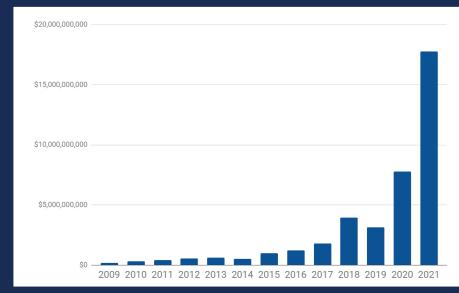
McKinsey Global Institute

Special Report May 2020

\$2T - \$4T

of annual direct economic potential globally in 2030-40 (significantly higher with downstream and secondary effects)

Innovators, businesses, and policy makers must act if we are to capture the benefits of the Bio Revolution, while engaging together in a sustained dialogue about how to use these innovations



Global investment over last 10 years – \$18 Billion in 2021



all physical inputs could be made with biology



of world's disease burden could be addressed



Global Competitive Opportunity for the UK



Executive Order on Advancing Biotechnology and Biomanufacturing



City Hall to Launch \$20 Million Biotech Hub at Brooklyn Navy Yard



Singapore becomes first country to approve cultured meat



A global leader in advanced clinical trials





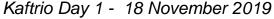
The UK's life science innovation roadmap



A Personal Impact



- FDA approves triple-combination therapy,
 Trikafta, for Cystic Fibrosis in 2019
- NHS begins prescribing Kaftrio in 2020
- But 20% of CF patients globally are still genetically ineligible - advanced therapies are needed
- CF is a genetically "easy" disease to treat new therapeutic modalities are needed for more complex diseases







Thank You!

Join the conversation at SynBioBeta 2023: The Global Synthetic Biology Conference May 23rd - 25th at the Marriott City Center in Oakland, CA