

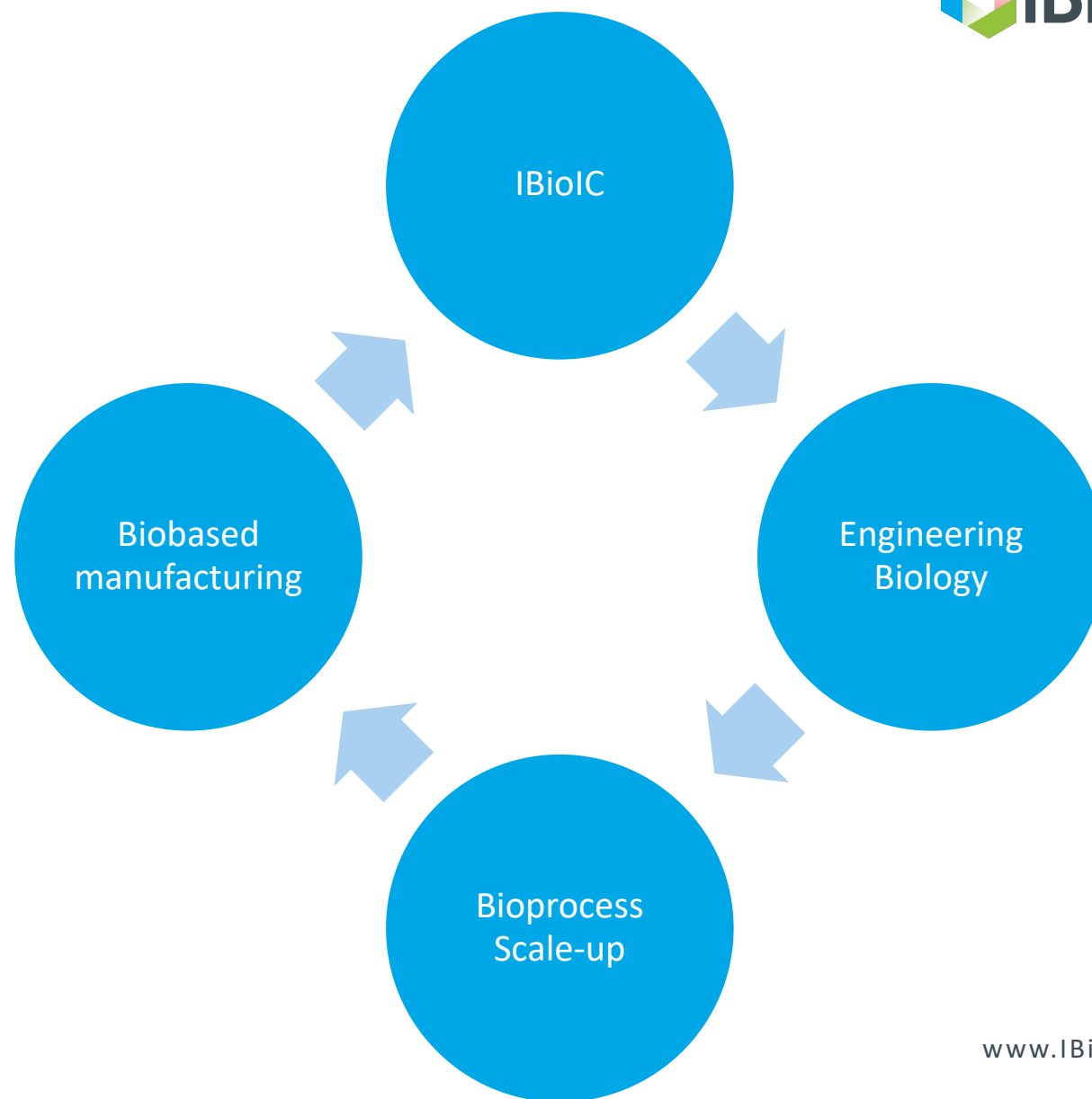
Building new bio-based supply chains in Scotland

Ian Archer

Technical Director














Industrial Biotechnology Innovation Centre

ian.archer@ibioic.com



Project Partner Locations

Project partners

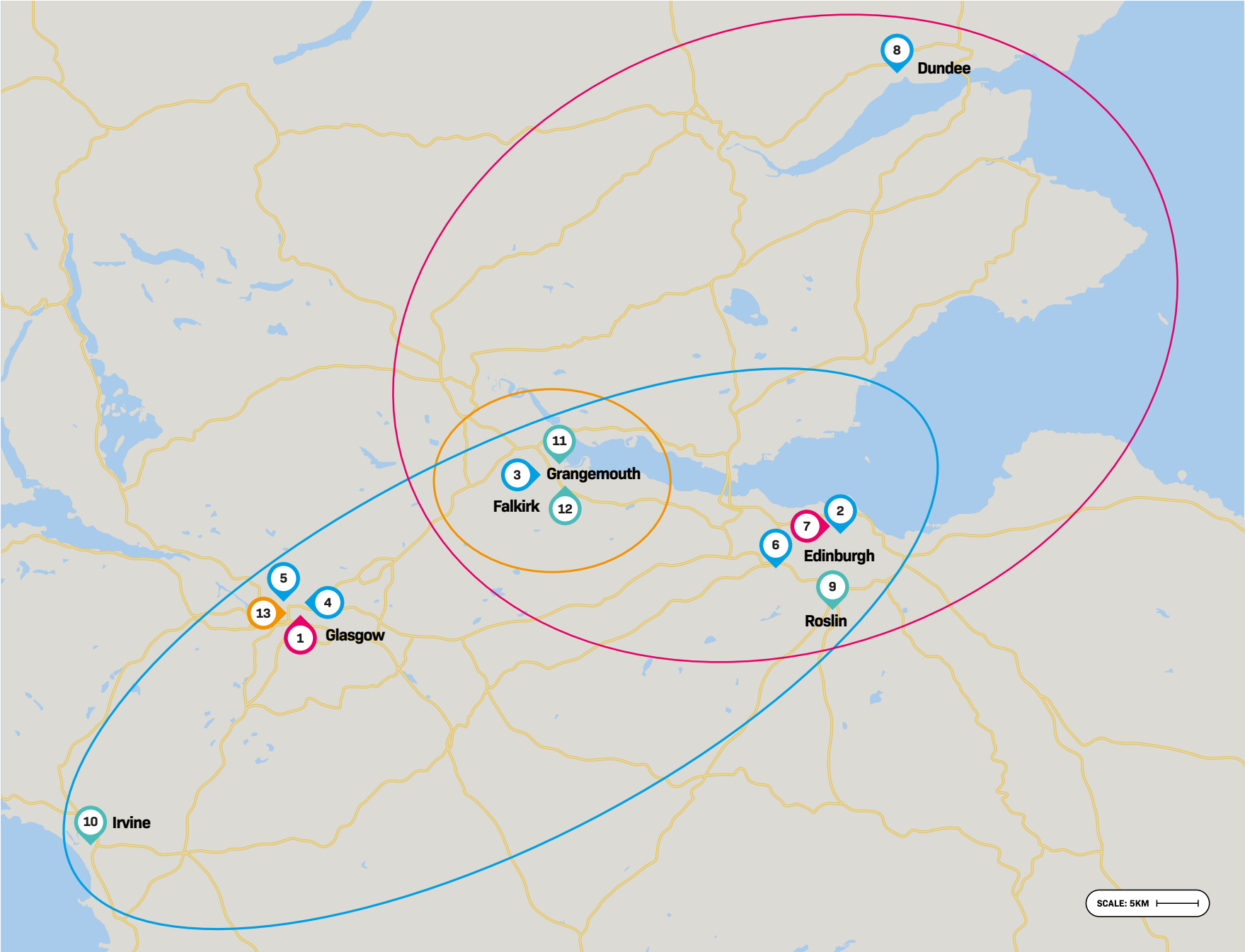
	1. IBioIC Glasgow
	2. University of Edinburgh Edinburgh
	3. Forth Valley College Falkirk
	4. University of Strathclyde Glasgow
	5. University of Glasgow Glasgow
	6. Heriot Watt University Edinburgh
	7. The DataLab Edinburgh
	8. James Hutton Institute Dundee
	9. Ingenza Roslin
	10. GSK Irvine
	11. Calachem Grangemouth
	12. Celtic Renewables Grangemouth
	13. Scottish Enterprise Glasgow

Three ovals on map

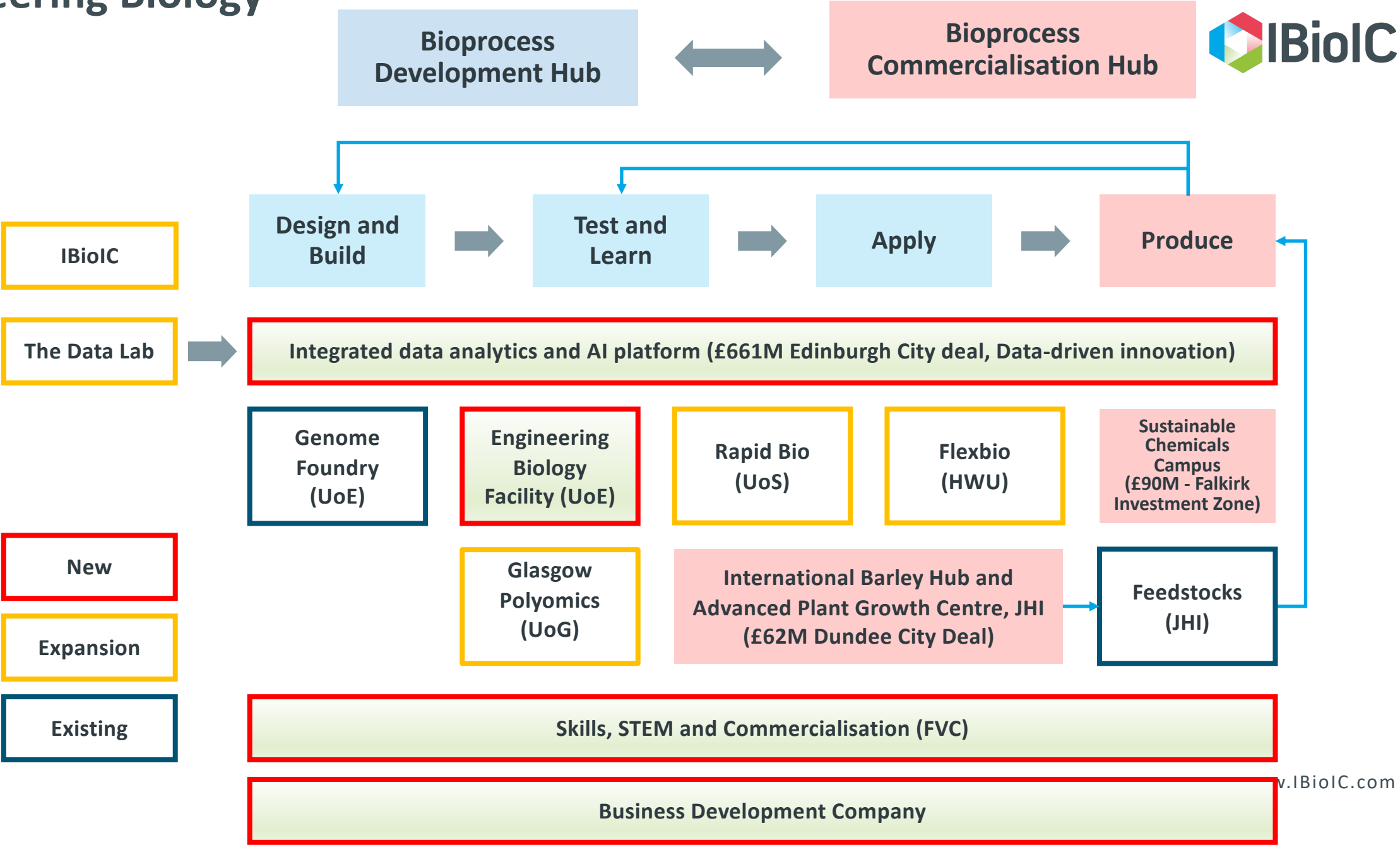
- Falkirk Investment Zone
- Project Partners
- Sugar Beet production

Partners

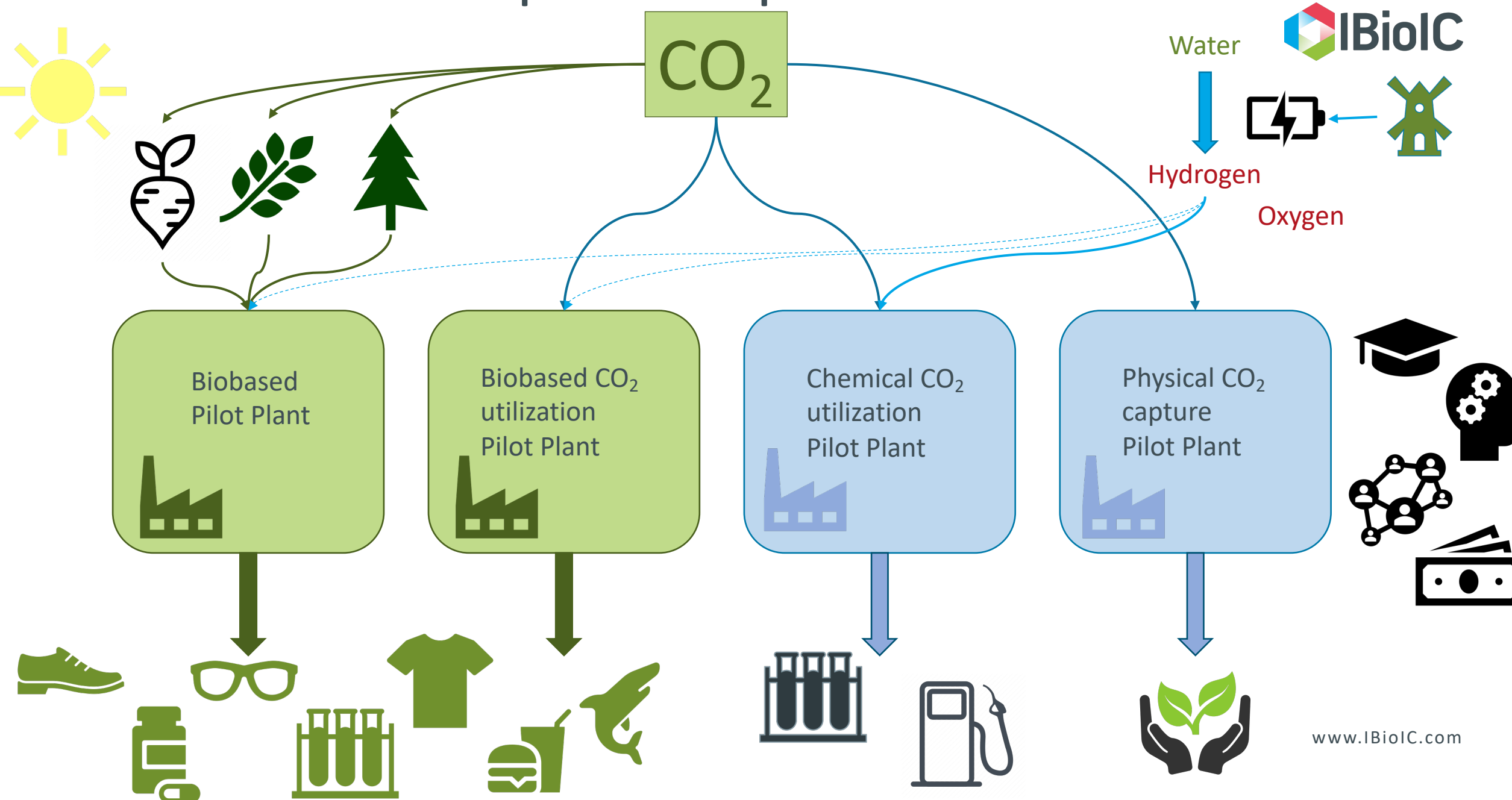
- Academic
- Industry
- Innovation Centres
- Government Agency



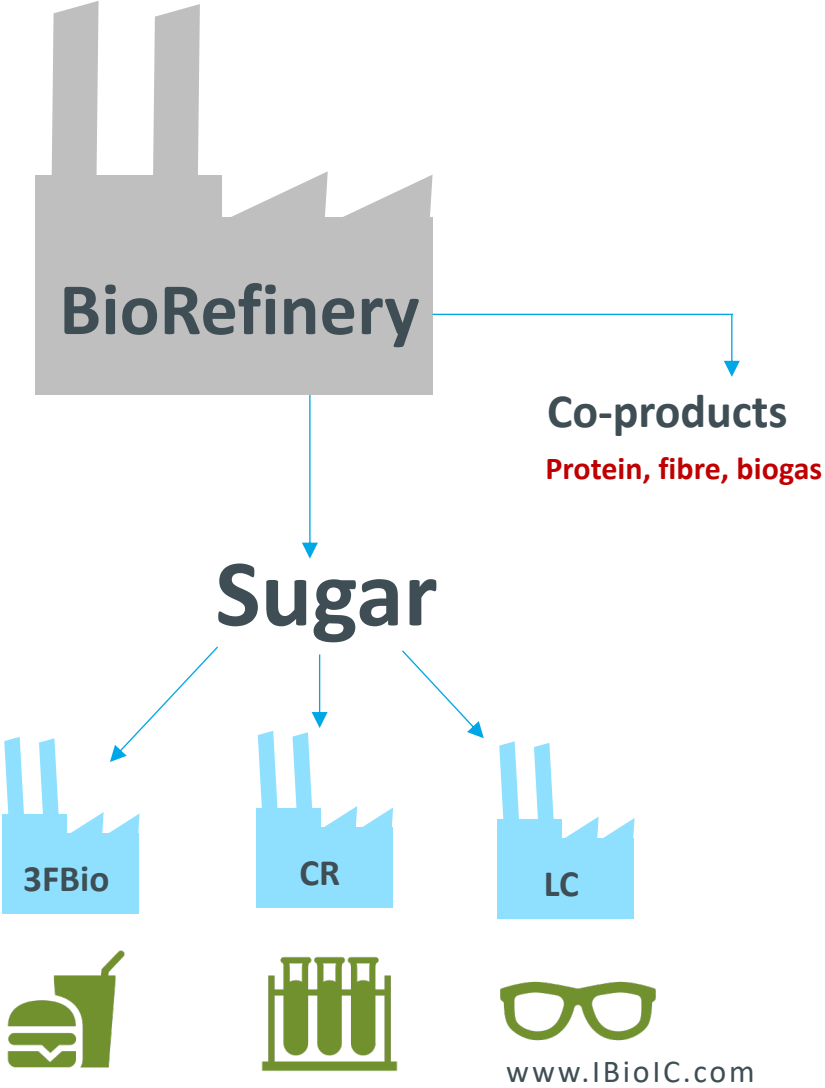
Engineering Biology



Sustainable Chemicals Campus – Scale up



Bio-based manufacturing – feedstock?



Bio-based manufacturing - bioethanol



9.4 kg

500,000 te

**@ 80 te / ha
= 6,250 ha
1% land**

**Sugar
1.7 kg**

90,000 te

**Ethanol
1 Litre**

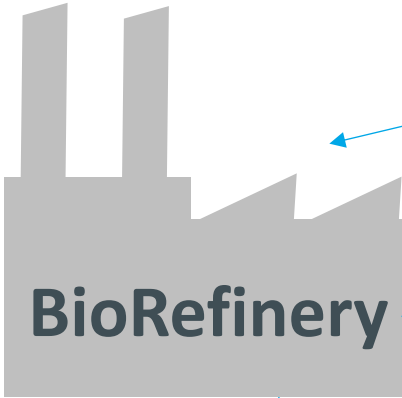
**E5 demand
50m litres**



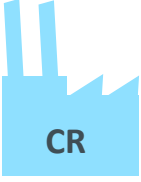
Bio-based manufacturing



Co-products
Protein, fibre, biogas



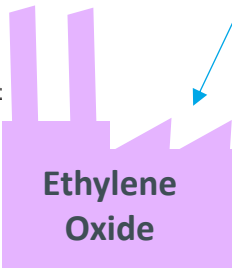
Sugar



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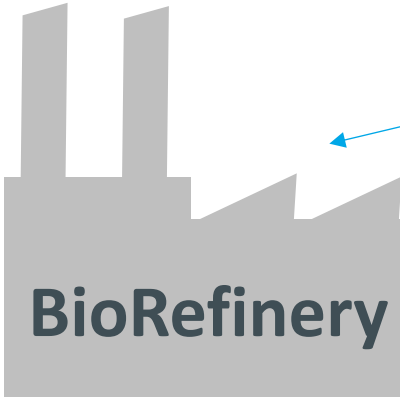
Antibiotics



CRODA



Bio-based manufacturing



Co-products
Protein, fibre, biogas

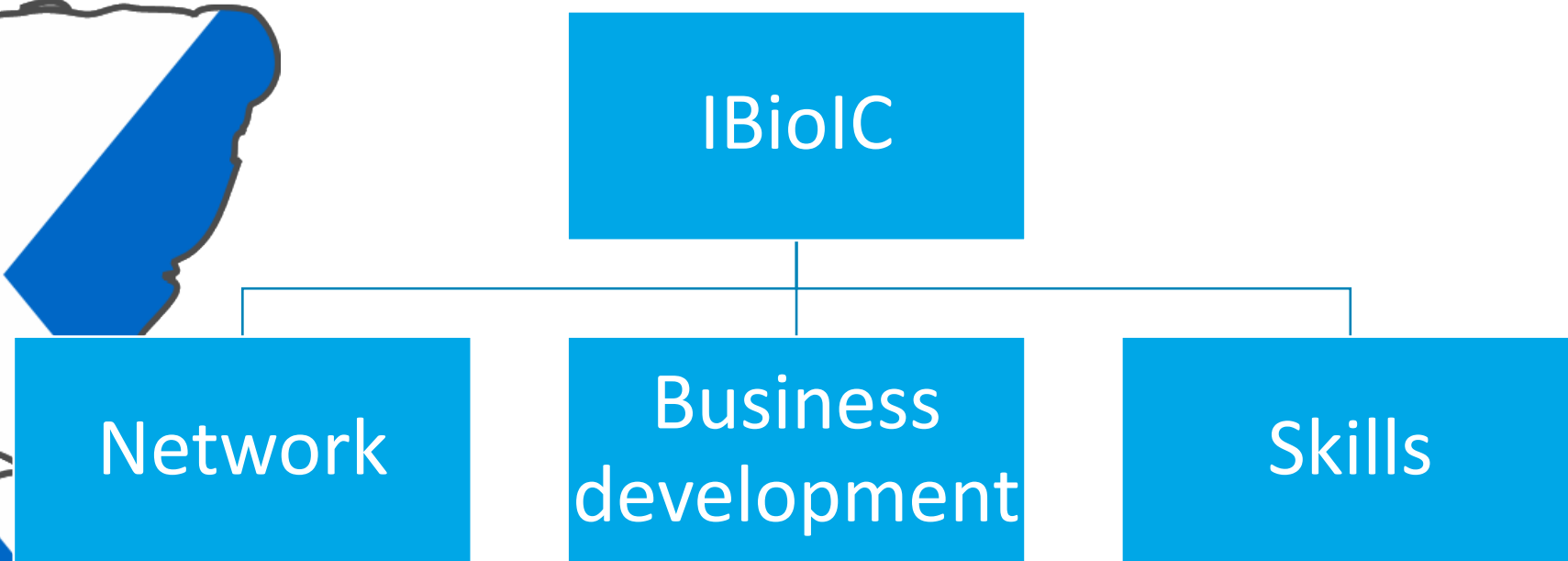
Sugar



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