



John Newbold 23Nov21



Vision

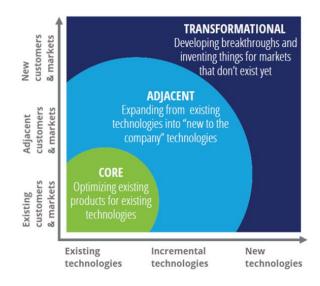
Dairying is a core component of a thriving, inclusive, net-zero circular bioeconomy

Mission

Accelerate the realisation of this vision



- Collaborative innovation
 - 'a range of stakeholders engaged in the collective exploration and development of solutions to common problems'
- Innovation ambition
 - Core optimising existing products
 - Transformational inventing new products for new markets





- £8M capital through The Borderlands* Inclusive Growth Deal
 - Buildings:
 - Hub (office/meeting/coworking space)
 - Laboratories
 - Biorefinery (pilot-scale processing)
 - Milk Technology Unit
 - Equipment
 - Data for Digital Twinning
 - · permeating Barony dairy farm
 - used at partner farms
- Integrated with
 - expansion of dairy farm at SRUC Barony campus
 - Digital Dairy Value Chain
- Timetable
 - Outline Business Case approved, Full Business Case in preparation
 - Detailed design work underway

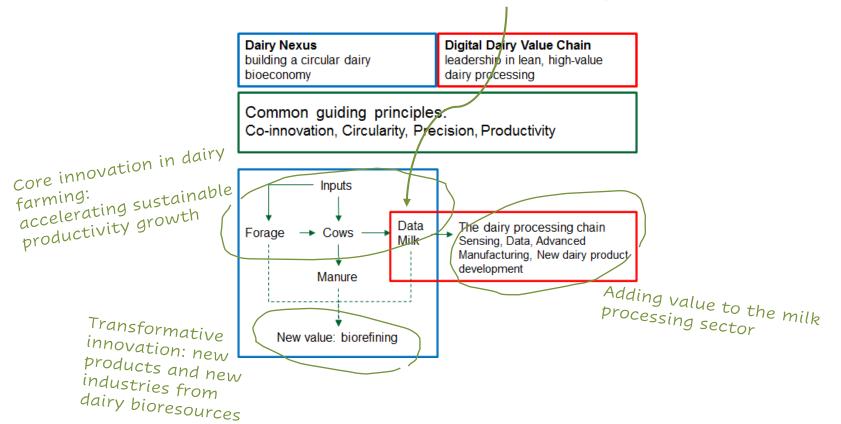
^{*} Borderlands = council areas of Dumfries & Galloway, Scottish Borders, Cumbria, Carlisle City, Northumberland



Dairy Nexus and Digital Dairy Value Chain

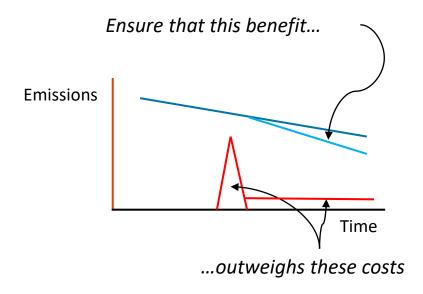


Milk processing R&D and Data Hub at SRUC Barony Campus: creating the bridge between farm and factory



Dairy Nexus and Net Zero





= declining emissions* from the regional dairy sector

= accelerated decline in emissions due to operation of Dairy Nexus

↑ = emissions generated during construction of Dairy Nexus

= emissions generated during the operation of Dairy Nexus

^{*} Dairy Nexus ambition to accelerate reduction in emission intensity (CO₂e/kg milk of standard composition)