

CIRCULAR ECONOMY NEW BUSINESS MODELS, NEW TECHNOLOGIES & CLEAN GROWTH

Professor Matthew Davidson, University of Bath Adrian Griffiths, CEO of Recycling Technologies

CIRCULAR ECONOMY: NEW BUSINESS MODELS, NEW TECHNOLOGIES & CLEAN GROWTH

CATAPULT

MULTIDISCIPLINARY RESEARCH CENTRE

Delivering on Swindon & Wiltshire's Industrial Strategy

EMERGING SWINDON AND WILTSHIRE LOCAL INDUSTRIAL STRATEGY



Swindon & Wiltshi

RESEARCH-INDUSTRY GATEWAY

Collaborative research leading the way

> Innovation Centre for the Circular Economy

> > BATH

Southampton

UNIVERSITY OF OXFORD

GLOBAL MARKETS

Taking innovation to international Tier 1s





Recycling Technologies

LOCATION

Ideal setting for space skills & purpose





Strategic Priority 4: *Research & innovation opportunities at the Science Museum, Wroughton*

INNOVATION CENTRE FOR THE CIRCULAR ECONOMY



Centre for **Sustainable** & Circular Technologies



Multidisciplinary University Research Centre since 2008

£35M+ research funding

160 researchers

40 external partners

Sustainable Technologies Business Acceleration Hub with SETsquared

Research England Development Fund bid – July 2020

£12m+ project

Funding

- £5m from RED
- £3m T1 Co-investment to leverage the RED grant
- £2m+ from EconDev coinvestment from
 - leveraging members
- £2m HEI co-investment

Innovation Centre for the Circular Economy (ICCE)

- <u>Creative Hub</u> will train and place 20-30
 PhD & postdoctoral researchers to embed
 CRPs in T1 member companies
- <u>Academic Gateway</u> will determine Core Research Programmes (CRPs) and contract these from HEI members. All CRP IP will be licensed to all T1 members on pre-greed terms.
- <u>SETsquared programme inside for</u> Company Membership network

Core Research Programmes

Company Members

<u>Tier 1:</u> Corporates subscribe to all CRPs

<u>Tier 2:</u> SMEs subscribe to the dissemination network & join individual CRPs

CHEMICAL RECYCLING DEVELOPMENT CENTRE (CRDC)



Recycling Technologies...

Product

- A modular, mass-producible machine for sale to the global waste industry
- Recycles waste plastics into oil, from which more plastic can be made the **Circular Economy**

Organisation

- >100 people by Q3, mainly in R&D & Engineering
- High Value Manufacturing plant based in Swindon
- Platform for taking new technology to a global market

...research focused

Current Status

- Collaborating with five universities
- Significant research facilities in multiple locations
- A world-leading Circular Economy technology developer

CRDC

- Concentrates the R&D in Swindon @ Wroughton
- Would employ >25 PhD / Masters qualified people by 2022
- Creates route from ICCE academic research to market



DELIVERING THE PLAN – NEXT STEPS



Where possible, ICCE and CRDC are looking to deliver their plans in parallel which will kick start the development of the Wroughton site as an Innovation Campus. In order to do so:

1. ICCE is seeking investment partners to match fund its Research England bid; and

2. CRDC / ICCE is seeking operational support for its outline planning permission application.

The Swindon & Wiltshire Local Enterprise Partnership Board is recommended to: agree whether the ICCE proposal should be developed into a strategic outline business case focussing on the potential of the Wroughton site as a main facility with a Research Gateway facility in Swindon.

POTENTIAL PARTNERS







MARS





ICCE / CRDC TIMESCALES









