

SCIENCE INNOVATION PARK

SCIENCE+
INNOVATION
PARK

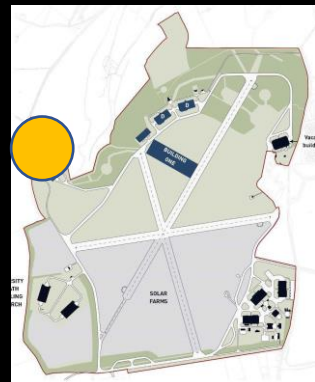
NATIONAL
COLLECTIONS
CENTRE

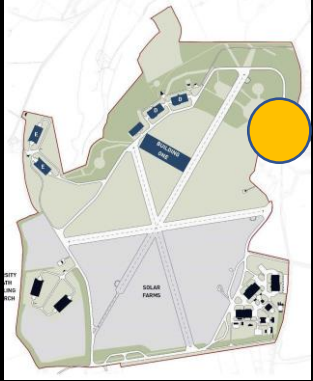


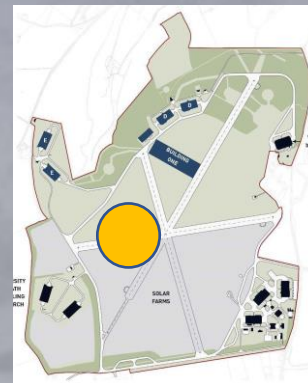


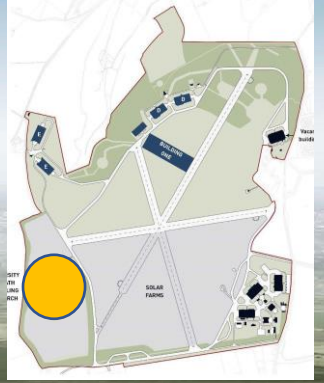






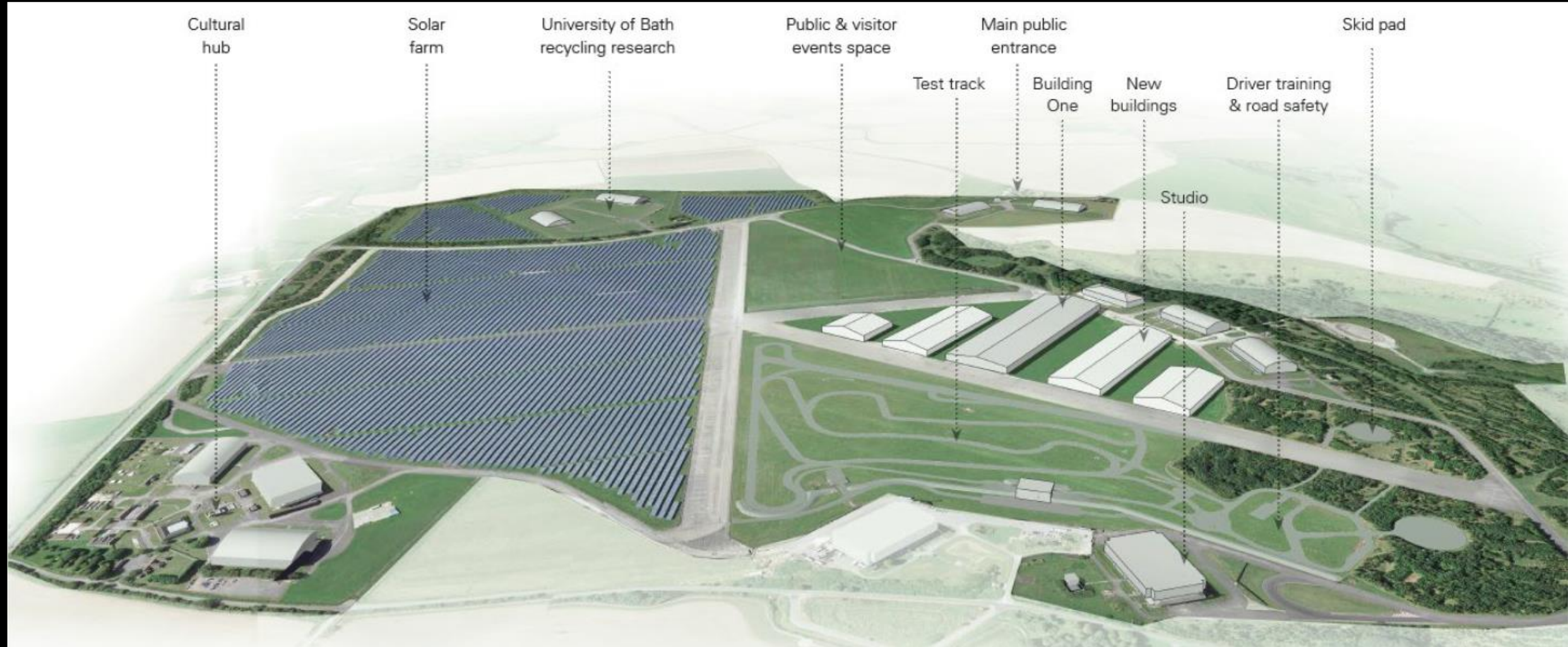






SCIENCE+ INNOVATION PARK

NATIONAL COLLECTIONS CENTRE





Innovation Centre for Applied **Sustainable** Technologies

SWLEP Board
22nd July 2021

The University of Bath's Centre for Sustainable and Circular Technologies (CSCT) has launched a major new £17M innovation hub bringing together core partners in academia and industry to accelerate the translation of fundamental sustainable chemical technologies research

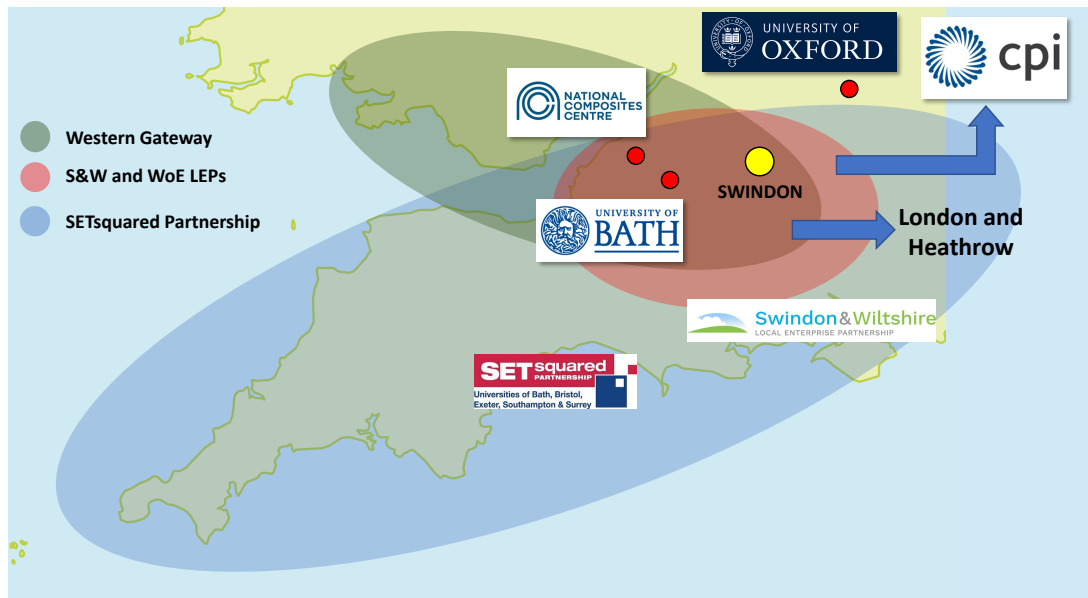
At iCAST, industry will engage with and benefit from the full range of research, development and innovation expertise provided across universities, catapults, innovation experts, LEPs and investors

The iCAST project began on 1st April 2021. This information session launches our call for engagement from members and we aim to be fully operational by September 2021



Innovation Centre for Applied
Sustainable Technologies

iCAST Partnership

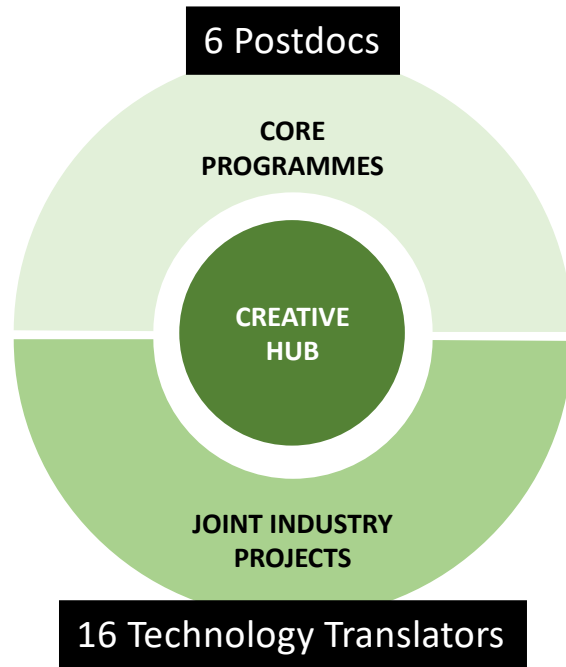


iCAST's 45 Founding Members include:



The iCAST Facility

Mechanisms



Portfolio



**Renewable and
Bio-based Feedstocks**



**Sustainable
Manufacturing**

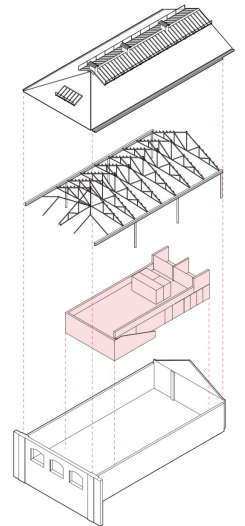


**Sustainable
Engineering Materials**



**Circular
Plastics**

Creative Hub @ the Carriage Works



iCAST Team



Prof Matthew Davidson
Executive Director



Prof Charlotte Williams
Deputy Director



Miles Davis
Interim Industry Director



Francesca Guiso Gallisai
Centre Manager



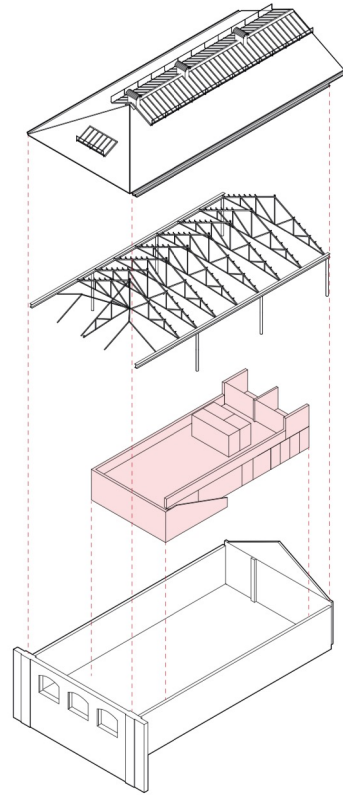
Ben Groombridge
Specialist Technician

To be appointed
iCAST Office & Finance Coordinator

Joint Industry Projects (JIPs)

- Industry-led, focused projects with clear targets
- Products or processes towards commercialisation either all the way to commercialisation or provide proof of principle, proof of concept or feasibility studies
- Delivered by Technology Translators funded by the RE grant. TTs will be allocated to the project with their time paid for from university funds to deliver the work
- TT's expected to manage the project delivery
- JIPs are expected to last 3-12 months
- Require industry co-funding (33%; cash or in-kind)
- Simple application process and monthly review panels to allocate resources to projects
- First projects expected to begin in September
- Standard progress monitoring and reporting (monthly / quarterly)
- IP arrangements similar to those of Innovate UK projects

The Carriage Works



Key Dates

- 12th March 2021 - grant offer made
- 1st April 2021 – grant started
- Mid June 2021 – interim base established in the Workshed at the Carriage Works
- 1st July 2021 - information webinar for industry
- 24th September 2021 – launch event in Swindon
- September 2021 – core projects and JIPs begin
- April-September 2022 –iCAST Creative Hub unit opens at Carriage Works
- September 2024 – project ends and iCAST sustainable!

A large, thick yellow line forms a complex geometric shape, resembling a stylized 'C' or a series of connected line segments, spanning across the right side of the slide.

icce

Innovation
campus for
the circular
economy

ICCE UPDATE

SWLEP July Board Meeting

Presented by:
ADRIAN GRIFFITHS

22 JULY 2021

INTRODUCTION

The circular economy has the power to shrink global GHG emissions by 39% and cut virgin resource use by 28%.

Material production and use accounts for the majority (70%) of GHGs emitted [1].

ICCE brings together world-class academic institutions and cutting edge technology companies to create and commercialise circular economy solutions.

This collaboration between academia and industry will allow promising lab-scale ideas to be nurtured into commercial success, accelerating the transition to zero-carbon materials.

An iconic campus, its aim is to attract the best engineers and scientists to create zero-carbon solutions for material creation and recycling.

The ambition is to run an extensive visitor program to inspire the next generation with the potential of clean technology.

icce



[1] The Circularity Gap Report 2021 [Circularity Gap Reporting Initiative - Home \(circularity-gap.world\)](https://circularity-gap.world/)

PARTNERS

icce



UNIVERSITY OF
BIRMINGHAM

THE CAMPUS

icce



THE CAMPUS

icce



THE CAMPUS

icce



RESEARCH THEMES IN CONSIDERATION

Sectors

Plastics and polymeric materials

Electronics

Metals

Fabrics and textiles

Composites

Construction materials

Biomaterials

Automotive, inc. batteries

Energy



- Materials chemistry and chemical engineering for the circular economy (including thermal and catalytic processes)
- Molecular disassembly and reformation
- Renewable and bio-based feedstocks, including CO₂ (for commodity and high value chemicals)
- Super-efficient heat and mass transfer for circular economy processes
- Material flow monitoring, tracking and control for the circular economy
- Data gathering and analysis for the circular economy
- Process scaling for the circular economy
- Process control for distributed operation
- Life cycle analysis
- Degradability
- Product design for the circular economy
- Sustainable use of engineering materials in the economy, including composites
- Sustainable manufacturing
- Socioeconomics of the molecular circular economy

STRUCTURE & GOVERNANCE

icce

ICCE will be managed by a not-for-profit organisation, ICCE Management Ltd. (IML)

IML will employ a small number of staff to undertake facilities management, manage the wet laboratory and continually seek new members to enrich the campus.

IML will be governed by a NED-led Board which will set the technical goals of the campus.



STRUCTURE & GOVERNANCE

icce



Nina El Imad, FCA
Chair of Havfram AS



Sir John Grant
Past UK Permanent
Representative to the EU
Chair



**Prof. Matthew
Davidson**
Bath University



Gavin Maxwell Hart, FCI OB
Past president of the Institute of
Building



Stephanie Loo
Environmental Scientist,
Secretary



Prof. Jonathan Seville
Birmingham University,
Past president of the IChemE



Adrian Griffiths
CEO, Recycling
Technologies Ltd.

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www.icce.org.uk