

NICER Programme Circular Economy Showcase 2023

Delegate Information Pack

Event Overview

Date: Tuesday 23rd – Thursday 25th May **Time:** 09:30 – 16:30 (*Registration opens 08:30*)
Venue: Bramall Music Building, University of Birmingham, Edgbaston, Birmingham B15 2TT

The NICER Programme Circular Economy Showcase is coordinated by the CE-Hub at the University of Exeter Business School for the NICER Programme and is the NICER Programme's flagship annual conference.

This exclusive three-day event will showcase innovative CE Research and Action from across the NICER Programme through a series of sessions from each NICER Centre, including short talks, expert Panel discussions (with audience Q&A) and facilitated networking. The 2023 Annual CE Showcase will celebrate the activity and impact of the five specialist NICER Centres and the coordinating CE-Hub over the first two years of the Programme.

Pre-arrival information

Please be aware, in an effort to reduce waste, we will not be providing delegate packs on arrival to the venue. Please review this document prior to attending the event. We will not be providing pens or notepads on tables, please bring your own method of taking notes (e.g. laptop, pen and paper).

Arrival Information

Registration opens at 08:30. The Conference starts at 9:30. Please allow plenty of time for registration.

The venue is based on the University of Birmingham's Edgbaston campus. Map and travel information on page 2.

On arrival at the Bramall Music Building, please sign-in with a member of the CE-Hub Team. To ease possible congestion, registration has been divided alphabetically by first name. Please follow signs on the day.

We will provide a name badge at the registration desk. Tea and coffee will be available on arrival.

Freedom of Speech

When participating in question-and-answer sessions, we ask that all delegates please bear in mind the University of Birmingham's [Code of Practice](#) on Freedom of Speech. You can find information providing practical advice to help you protect free speech on Campus at the University of Birmingham [here](#).

Wifi

Free guest wifi is available throughout the campus. Details of how to connect can be found [here](#).

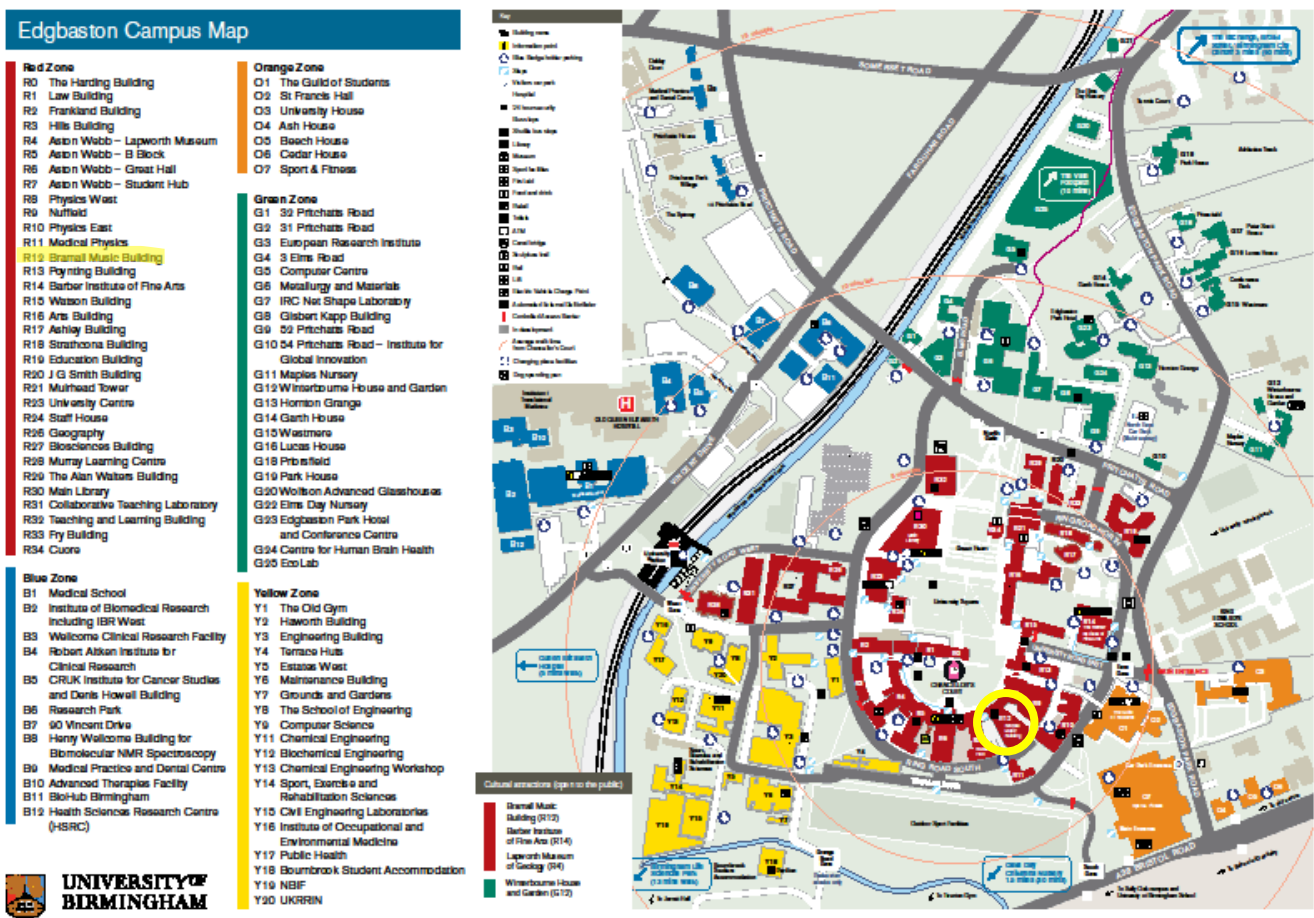
Contact Information

To contact the CE-Hub team on the day, please email ce_hub@exeter.ac.uk and include 'CE Showcase: *Your Name and Main Message*' in Subject Line.

Travel Information

The [Bramall Music Building](#) is located on the University of Birmingham's Edgbaston campus, **R12** on the map below. Also available [here](#).

Bramall Music Building
University of Birmingham
Edgbaston
Birmingham
B15 2TT



By rail

Most cross-country services to Birmingham arrive at New Street Station. Up to six trains an hour depart for the University on the cross-city line (10 minutes to University station, final destination Longbridge or Redditch). The centre of the main campus is a five-minute walk from University Station.

By bus

Numbers [61](#) and [63](#) travel to the University's Edgbaston and Selly Oak campuses via the Bristol Road. These services travel from the Bus Mall, Moor Street Queensway, and from New Street Station, St Martin's Queensway, to the Bristol Road, at the corner of Edgbaston Park Road. The services all run frequently from the city centre.

Numbers [X20](#), [X21](#) and [X22](#) run along Edgbaston Park Road and Pritchatt's Road.

Online bus timetables are available on the [National Express West Midlands website](#).

By bicycle

Surrounded by the suburbs of Selly Oak, Edgbaston and Harborne, the campus is easily accessible by bicycle or on foot from any of these locations and as part of our commitment to sustainable living, we encourage the use of local cycle routes. The university provides secure cycle parking across the campus and residences.

Car Parking

The North East car park (off Pritchatts Road) is five-minutes' walk away. Charges apply Monday – Friday, 08.30 – 16.30. Free parking is available outside these times. See the [directions to the Edgbaston campus page](#) for more details.

Disabled Access

The Bramall Music Building has direct from the street access to the auditorium for wheelchair users. All of the other floors are accessible from one of two lifts.



Day 1 Schedule – CE-Hub & Met4Tech

Time	Duration (mins)	Session
09:30 - 12:30	180	CE-Hub
08:30 - 09:30	60	Registration
09:30 - 09:40	10	Conference Welcome <i>Kedar Pandya (UKRI)</i>
09:40 - 09:55	15	CE Landscape <i>Peter Hopkinson (CE-Hub), Rob Felstead (UKRI), Lily Tozer (BEIS)</i>
09:55 - 10:40	45	CE-Hub Impact Stories
09:55 - 10:10	15	Panel 1 – Roadmapping <i>Fiona Charnley (CE-Hub) Halid Abu-Bakar (CE-Hub) David Greenfield (Circular Economy Club)</i>
10:10 - 10:25	15	Panel 2 – Data <i>Peter Hopkinson (CE-Hub), Esmaeil Khedmati-Morasae (CE-Hub), Jasmine Latham (ONS)</i>
10:25 - 10:40	15	Panel 3 – Human Behaviour <i>Margo Reynolds (CE-Hub) Zaneta Muranko (CE-Hub), Paul Hide (AMDEA)</i>
10:40 - 11:00	20	Facilitated Networking
11:00 - 11:30	30	Morning Break
11:30 - 11:45	15	Speed Round – Industrial Engagement, Flexible Fund Projects <i>Ana Heitor, Libby Gibson, Lilian Sanchez Moreno, Saurav Goel, Kate Franklin</i>
11:45 - 12:25	40	Industrial Impact Panel – Deep Dive on Healthcare Sector <i>Alexandra Lake (CE-Hub), Dave Wathey (DHSC), Tsanko Dimov (NHS), Tom Dawson (Revolution-ZERO)</i>
12:25 - 12:30	5	Closing Remarks <i>Peter Hopkinson (CE-Hub), Fiona Charnley (CE-Hub)</i>
12:30 - 13:30	60	Lunch
12:40 - 13:20	40	Innovate UK Workshop – Decision Making Tools



Time	Duration (mins)	Session
13:30 – 16:30	180	Centre for Technology Metals
13:30 – 13:45	15	Welcome <i>Karen Hudson-Edwards (University of Exeter), Rod Eggert (Critical Minerals Institute)</i>
13:45 – 14:30	45	Tech Metals Observatory & Roadmap <i>Evi Petvratzi (BGS), Wan-Ting Hsu (BGS), Frank Boons (University of Manchester), Sampriti Mahanty (University of Manchester), Gavin Harper (University of Birmingham), Krishna Mohan (University of Exeter)</i>
14:30 – 15:00	30	Research Studies – Early Career Researchers <i>Eva Marquis (University of Exeter), Phil Bird (University of Leicester), Megan Barnett (BGS), Guillaume Zante (University of Leicester), Gavin Harper (University of Birmingham), Jyoti Ahuja (University of Birmingham), Sam Hu (University of Exeter)</i>
15:00 – 15:30	30	Afternoon Break
15:30 – 16:00	30	Collaborations & Projects (SMEs) <i>Carol Pettit (University of Exeter), Richard Wrigley (Beta Technology), Anthony Bennett (Ecomar), Sahin Alacacayir (Minviro), Seb Saboune (Twist Ltd.)</i>
16:00 – 16:30	30	Roadmapping Activity <i>Markus Zils (University of Exeter), Frank Boons (University of Manchester), Sampriti Mahanty (University of Manchester), Gavin Harper (University of Birmingham), Evi Petavratzi (BGS)</i>
16:30		END



Day 2 Schedule – CircularMetal & ICEC-MCM

Time	Duration (mins)	Session
09:30 - 12:30	180	Centre for Circular Metals
08:30 - 09:30	60	Registration
09:30 - 09:45	15	Conference Welcome <i>Brian Cantor (Brunel University)</i>
09:45 - 10:30	45	Early Career Researcher Led Session <i>Chair: Daniel Negrea (Brunel University)</i>
09:45 - 10:00	15	The Metal Health Service <i>Ebad Bagherpour</i>
10:00 - 10:15	15	Big Repair Project <i>Danielle Purkiss</i>
10:15 - 10:30	15	CM Visions 2050 Report <i>Alessio Franconi</i>
10:30 - 11:00	30	Facilitated Networking <i>Chair: Brian Cantor</i>
10:30 - 10:40	10	The Repair Economy: Assessing the economic, environmental, and social impact of community repair of small electrical goods <i>David Greenfield (Tech Takeback)</i>
10:40 - 10:50	10	Delivering Innovative Steel ReUse Project <i>Katherine Adams (ASBP)</i>
10:50 - 11:00	10	Automated Laser-Cleaning Rejuvenation of 3D-Metallic Components for Re-Use within in the Circular Economy <i>John Clowes (Woodrow)</i>
11:00 - 11:30	30	Morning Break

11:30 - 12:30	60	Panel Discussion - Shaping the Future of Metal Circularity: Exploring Strategies and Solutions <i>Chair: Mark Miodownik (UCL)</i> <i>Isaac Chang (Brunel University), Russell Hall (University of Warwick), Katherine Adams, David Harrison (Brunel University)</i>
12:30 - 13:30	60	Lunch
12:40 - 13:20	40	Innovate UK Workshop - Reusing Materials in the Built Environment



Time	Duration (mins)	Session
13:30 - 16:30	180	Circular Economy Centre for Mineral-based Construction Materials
13:30 - 13:40	10	Welcome <i>Julia Stegemann (UCL)</i>
13:40 - 14:10	30	Keynote presentation - The trade-offs between steel and concrete: And the most sustainable material is... <i>Andrea Charlson, Useful Projects/Expedition Engineering</i>
14:10 - 16:15	125	Research Challenges Update (PDRA led)
		Challenge 1: Stocks, flows & impacts <i>Julia Stegemann, UCL</i>
14:10 - 14:25	15	Bayesian material flow analysis <i>Junyang Wang, Imperial College</i>
14:25 - 14:35	10	Afternoon Break
		Challenge 2: Technological innovation <i>Leon Black, University of Leeds</i>
14:35 - 14:50	15	Design for deconstruction & reuse of lightweight exterior infill walls <i>Shoma Kitayama, University of Leeds</i>
14:50 - 15:05	15	Production of circular cements from UK mineral resources <i>Dan Geddes, University of Sheffield</i>
15:05 - 15:20	15	Maximizing circularity of waste concrete from construction and demolition waste by complex system modeling <i>Soumava Boral, University of Leeds</i>
15:20 - 15:30	10	Afternoon Break
		Challenge 3: Systemic enablers <i>Mohamed Osmani, Loughborough University</i>
15:30 - 15:45	15	Eco-design characterisation of MCMs in infrastructure <i>Evangelia Manola, UCL</i>

15:45 - 16:00	15	Enabling capital investment into circular economy projects <i>Longxiang Zhao, Loughborough University</i>
16:00 - 16:15	15	Enabling systemic transformation - Standards, policy & regulation for increased MCM circularity <i>Feja Lesniewska, (formerly) UCL</i>
16:15 - 16:30	15	Wrap-up and Outlook <i>Julia Stegemann</i>
16:30		END

Day 3 Schedule – TCC & CircularChem

Time	Duration (mins)	Session
09:30 - 12:30	180	Textiles Circularity Centre
08:30 - 09:30	60	Registration
09:30 - 09:35	5	Conference Welcome <i>Sharon Baurley (RCA)</i>
09:35 - 10:05	30	Textiles Material Flow Analysis: Case Study on London <i>Sarah Malone (ReLondon), Teresa Domenech (UCL)</i>
10:05 - 10:35	30	Measuring impact, digitising supply chains: A Material Impact Tool for the circular textiles economy by RoundRack and The Royal College of Art <i>Alessia Gotti (RoundRack), Joe Pacal (Designer-Researcher)</i>
10:35 - 10:50	15	Circular Materials Design Toolkit <i>Miriam Ribul (RCA), Roberta Morrow (RCA)</i>
10:50 - 11:05	15	Morning Break
11:05 - 11:20	15	Configurator Research Tools <i>Bruna Petreca (RCA), Ricardo O’Nascimento (RCA)</i>
11:20 - 11:45	25	The design of the Regenerative Fashion Hub <i>Annabel Maguire (Designer-Curator), Claudio Quintano (Designer-Curator)</i>
11:45 - 12:15	25	Human-Centred Cluster (TCC & CE-Hub) <i>Bruna Petreca (RCA), Zaneta Muranko (RCA)</i>
12:15 - 12:30	5	Wrap-up and Close <i>Sharon Baurley (RCA)</i>
12:30 - 13:30	60	Lunch



Time	Duration (mins)	Session
13:30 - 16:30	180	Centre for Circular Chemical Economy
13:30 - 14:30	60	Welcome and CircularChem overview <i>Jonathan Wagner (Loughborough University)</i>
14:30 - 15:30	60	Early Career Researcher Presentations
14:30 - 14:50	20	<i>Andrea Bernadi (Imperial College London)</i>
14:50 - 15:10	20	<i>Katie Lamb (Sheffield University)</i>
15:10 - 15:30	20	<i>Swathi Mukundan (Loughborough University)</i>
15:30 - 16:00	30	Afternoon Break
16:30		END

Innovate UK Lunchtime Workshops

In addition to the main programme of each CEC's session, we will be running two cross-disciplinary lunchtime panel sessions featuring Innovate UK funded projects, which we encourage you all to attend. These are an opportunity to explore the projects and their learning and discuss key themes along with an opportunity to network.

Decision-Making Tools: Learning from the Innovate UK projects

This lunchtime panel and discussion session will feature inputs from SME-led NICER projects (including representatives from Minviro, Twist, Tech-Takeback and QSA) on the cross-centre theme of how decision-making tools can help evaluate and drive circularity. Join us for insights and discourse on topics such as:

- Where do we get all the data from?
- How do we handle qualitative and quantitative information?
- How do you get non-specialists to use the tools?
- Which metrics should we be using? Is Life Cycle Analysis enough, or too much?

Reusing Materials from the Built Environment: Learning from the Innovate UK projects

This second lunchtime panel and discussion session will feature inputs from SME-led NICER projects (including representatives from the Association of Sustainable Building Products, CCell, Reusefully, Pennog and Heyne Tillett Steel) on the cross-centre theme of how to effectively re-use materials from the built environment. Join us for insights and discourse on topics such as:

- Do we need more secondary material exchanges, or more material hubs?
- How could we track materials in the built environment?
- How do we balance the long timescales of buildings with effective business models?
- How do we assess the residual value in the assets and materials?

Day One

Decision Making Tools

Panel Chair: Amy Peace, Innovate UK

Sahin Alacacayir

MineLoop

Panellist

Seb Saboune

Twist

Panellist

Jodi Harford

RevaluRepair

Panellist

Jennifer Decker

QSA Partners

Panellist

Day Two

Reusing Materials in the Built Environment

Panel Chair: Amy Peace, Innovate UK

Richard Broad

DISRUPT

Panellist

Will Bateman

ARMOUR

Panellist

Laura Batty

Testing concrete-encased steel

Panellist

Jonathan Hughes

Sustainable Composite Material

Panellist

About the NICER Programme

The National Interdisciplinary Circular Economy Research (NICER) Programme is a four-year £30 million investment from UKRI to move the UK towards a circular economy.

This is the largest and most comprehensive UKRI Investment in CE to date. The Programme consists of five specialist centres and a Hub to coordinate, scale and add value to the programme as a whole. The programme is delivered in partnership with the Department for Environment, Food and Rural Affairs (DEFRA), to ensure research outcomes contribute to the delivery of government policy.

The 4-year programme launched in January 2021 and initially consists of 34 universities, 64 senior academics, 42 early career researchers, 60+ PhD students and 120 industrial partners however a key aim of the programme is to grow the circular economy community through a significant programme of outreach and collaboration.

The specialist national research centres are the:

- [National Interdisciplinary Circular Economy Hub](#) (CE-Hub) (*University of Exeter*)
- [Interdisciplinary Textiles Circularity Centre](#) (*Royal College of Art*)
- [Interdisciplinary Circular Economy Centre for Mineral-based Construction Materials](#) (*UCL*)
- [Interdisciplinary Centre for Circular Chemical Economy](#) (*Loughborough University*)
- [Interdisciplinary Circular Economy Centre in Technology Metals](#) (*University of Exeter*)
- [Interdisciplinary Centre for Circular Metals](#) (*Brunel University London*)

Delegate List

Name	Organisation	Name	Organisation
Adam Read	SUEZ	Kiswendsida Romuald Zongo	
Aldo Ometto	University of São Paulo	Krishna Mohan Thazhathu Valiyaveettil	University of Exeter
Alejandro Gallego Schmid	University of Manchester	Lara Tritton	University of Leicester
Aleksandra Cavoski	Birmingham Law School	Laura Batty	Heyne Tillett Steel
Alessia Gotti	RoundRack	Laure Sonolet	
Alessio Franconi	Brunel University	Laurence de Lussy-Kubisa	
Alex Adda	Packamama	Leon Black	
Alexandra Lake	University of Exeter	Leonel Tchadjie	UCL
Alexandra Lanot		Lily Tozer	BEIS
Alice Simpson	Sages London	Linh Truong	Loughborough Univeristy
Alvaro Calzadilla	UCL	Lisa Coles	UKRI
Amy Peace	Innovate UK	Longxiang Zhao	Loughborough Univeristy
Amy Lightfoot	TCC	Luis Felipe Maya	
Ana Heitor	University of Leeds	Lynsay Blake	DEFRA
Andrea Bernardi	Imperial College London	Madeline Smith	Glasgow School of Art
Andrea Charlson	Useful Simple Trust	Malcolm Barraclough	Mednet Ltd
Andrew Vivian	Loughborough University	Margo Reynolds	CE-Hub
Andrew Chilvers	Royal Academy of Engineering	maria crespo ribadeneyra	Queen Mary University of London
Angeliki Kourmouli	Lancaster Environment Centre	María Sarobe Bové	Cranfield University
Animesh Ghosh		Marie Wells	The manufacturing technology centre
Anna Barnouw	Ellen MacArthur Foundation	Mark Monte-Colombo	eBay UK
Annabel Maguire		Mark Miodownik	UCL
Anthony Bennett	Ecomar Propulsion Limited	Martha Wood	
Arthur Cheek	Supercycle	Mary Jenkinson-Finch	BBSRC
Ben Kidd		Matthew Winning	
Bening Muhammad	Newcastle University	Matthew Potter	ebay
Bernie Thomas		Mayank Jain	CE-Hub
Brant Walkley	University of Sheffield	Megan Barnett	BGS
Brian Cantor	Brunel University	Metin Piskin	University College London
Bruna Petreca	RCA	Mike Tregent	
Carol Pettit	University of Exeter	Miriam Ribul	
Changming Fang	BCAST Brunel University London	Mohamed Osmani	Loughborough University

Charlotte Hawkins	UKRI - NERC	Mohamed Afy-Shararah	
Charnett Chau	St. Gobain	Morgan Lewis	Material Index
Chiara Tommencioni Pisapia	RCA	Muhammad Sturman	Ecomar Propulsion Limited
Chris Jones	Advanced Propulsion Centre	Neha Rao	WRAP / Textile 2030
Chrysoula Litina	National Highways	Neil Calder	Engineered Capabilities Ltd
Claes Fredriksson		Nelam Mistry	HM Treasury
Claudio Quintana		Nick MacInnes	Defra
Dan Geddes		Nuno Santos Silva	
Daniel Negrea	Brunel University	Omid Doustdar	University of Birmingham
Daniel Byrd	Agave Networks	Omorinola Akeredolu-Ale	University of Exeter
Daniel Moss	St. Gobain	Orsolya-Anna Mate	University of Warwick
Danielle Purkiss	UCL	Padouk Fielding	Circular Textiles Foundation
Danielle Farrow	University of Exeter	Paul Hide	AMDEA
David Greenfield	Circular Economy Club	Peter Hopkinson	CE-Hub
David Wathey	Department of Health and Social Care	Phil Cheadle	
David Harrison		Philip Metcalfe	Ionic Recovery
Deon McFarlane	Sages London	Phillip Proctor	National Highways
Devin Sapsford		Rachel Waugh	Oakdene Hollins
Donald Nwonu	University of Leeds	Rachel Brass	Levin Sources
Duncan Haddrell		Ramya Venkataraman	UCL
Ebad Bagherpour	BCAST, Brunel University	Ricardo O'Nascimento	
Edwin Ntainjua ndifor	CPI	Richard Broad	ASBP
Eleanor Blacker-Morgan	Environment Agency	Richard Wrigley	Beta Technology Limited
Elizabeth Gibson	Newcastle University	Richard Ploszek	Infrastructure and Projects Authority
Elle Runton	Innovate UK	Robert Lee	Birmingham Law School
Ellen Ronn	DEFRA	Robert Kleinjan	Jacobs
Emilia Slawkowska	CE-Hub	Robert Felstead	EPSRC UKRI
Emma Kendrick	University of Birmingham	Roberta Morrow	
Eoin Bailey	Celsa UK	Rod Eggert	Colorado School of Mines
Esmaeil Morasae	CE-Hub	Rose Bunker	Newcastle University
Eva Marquis	University of Exeter	Rose Clarke	
Evi Petavratzi	BGS	Rupert Myers	Imperial College London
Fabrizio Ceschin	Brunel University London	Russell Hall	High Value Manufacturing Catapult
Fay Farhan	Manufacturing Technology Centre	Ryan Nolan	CE-Hub

Feja Lesniewska		Ryan Atkins	Supercycle
Felipe Maya		Sahin Alacacayir	Minviro
Feng Gao	BCAST, Brunel University	Sakdirat Kaewunruen	
Fiona Charnley	CE-Hub	Sam King	University of Birmingham
Frank Boons	University of Manchester	Sameer Rahatekar	Cranfield University
Friedemann Schaber	University of Northampton	Samira Mortezaei	BCAST, Brunel University
Gareth Loudon		Sarah Downes	REPIC
Gareth Morris	St. Gobain	Sarah Malone	ReLondon
George Fern	Brunel University	Saurav Goel	London South Bank University
Graham Ormondroyd	Bangor University	Seb Saboune	Twist
Guillaume Zante	University of leicester	Sergio Cavalaro	Loughborough University
Halid Abu-Bakar	CE-Hub	Sharon Baurley	RCA
Harry Long	Central Saint Maritns	Shoma Kitayama	University of Leeds
Helen White		Simon Aliwell	Lightricity
Helen Frape	Saint Gobain	Simon Guy	
Ho Yan Lo	TCC	Smita Jenna	Loughborough University
Hollie Doell	UKRI	Sönnich Dahl Sönnichsen	Lund University
Hua Men		Soumava Boral	University of Leeds in collaboration with ICEC-MCM
Imogen Hosie	CE-Hub	Susana Iglesias-Porras	Newcastle University
Irene Josa	UCL	Suzana Grubnic	Loughborough University
Isaac Chang	Brunel University London	Swathi Mukundan	Loughborough University
Isabella Stevens		Tamba Konteh	Brunel University London
Jamie Plaatjes	CE Hub	Teena Antony	
Jasmine Latham	ONS	Teresa Domenech Aparisi	UCL
Jayesh Patel	BCAST, Brunel University	Theodore Hanein	
Jennifer Decker	QSA Partners	Thomas Baker	WRAP
Jhuma Sadhukhan	University of Surrey	Tim Pank	UKRI
Jin Xuan	University of Surrey	Tom Bide	British Geological Survey
Jodi Harford	Tech Takeback	Tom Taylor	CPI
John Clowes	Woodrow Scientific Limited	Tsanko Dimov	NHSE
Jonathan Hughes	Pennog	Ursula Clarke	University of Birmingham
Jonathan Wagner	Loughborough University	Victoria Smyth	University of Exeter

Julia Stegemann	UCL	Vinayak Sharma	CE-Hub
Junyang Wang	Imperial College London	Walter Stahel	Product-Life Institute Geneva
Jyoti Ahuja	Birmingham Law School	Wan-Ting Hsu	British Geological Survey
Karen Hudson-Edwards	University of Exeter	Will Bateman	CCell
Karishma Gupta	Eslando Circular Fashion	Xiaocheng Hu	University of Exeter
Karl Fuller	Environment Agency	Xinyu Liu	
Katherine Franklin	TWI	Xu Huang	
Katherine Adams	ASBP	Yiping Meng	Loughborough University
Katie Lamb	University of Sheffield	Yuchun Xu	
Katie Cooke	CE Hub	Yun Wang	
Kedar Pandya	EPSRC-UKRI	Yvonne Castle	Royal College of Art
Keith James	Wrap UK	Zaneta Muranko	Royal College of Art
Keyne Walker		Zushu Li	University of Warwick