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Partners and Participants’ Organisations
The University of Sheffield AMRC with Boeing
Rolls-Royce Tata Steel Unilever Panalpina
Mineral Metals Trade Association
The Institute of Materials, Minerals and Mining
KTN – Innovate UK Costain Skanska
AQUA Ltd Sheffield City Region LEP Severn Trent
DLA Piper PA Consulting Group Briga Consulting
Emelo Consulting FWA Consulting
Recovery Insulation Ltd CLCF Tecnalia SEERC
Sheffield Forgemasters Wardell Armstrong

R&IS, Partnership and 2022 Futures
Sarah Want
Mel Knight
Ipshita Ghosh

Business Development
George Rees
Charles Wilby
Neil Lowrie
Richard France
Ann Pittard
We need to build joint capability that is world leading and focus on our strengths.

Supply Chain Resource Sustainability (SCRS)
- Advanced materials and manufacturing
- Agritech and food
- Energy and nuclear
- Water

Advanced Resource Efficiency Centre (AREC)
- Facilities
- Partnership
- Skills

SCRS 2022 Futures

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October 2014
• Set up Collaborative Steering Group meetings to develop project matrix

January 2015
• Prepare and issue business case for approval from key stakeholders.
• Series of proposals from key partners to raise funding and generate contributions
AREC Governance

Collaborative Steering Group (CSG)

AREC Partnership Board

Executive Team

- Research Development & Deployment (RD&D)
- Business Development
- Support Services
Role of AREC CSG members

- Steer the development and growth of the AREC
- Promote the AREC and its services
- Obtain and commit resources and support to the AREC

See Terms of Reference
Mission and Vision

• Mission
To create a world leading supply chain resource efficiency and sustainability infrastructure addressing critical resource existentiality and challenges using a combination of method, tool, model, technology, process and system.

• Vision
To reengineer future supply chains by integrating supply chain resource efficiency and sustainability into strategic decision making in government, industry and education for improved competitiveness internationally.
Strategic Objectives

1. To build partnership and collaborative approach addressing world biggest challenges of resource existentiality.

2. To focus research and innovation on the supply chain of the world essential resources especially in advanced materials/manufacturing, energy and nuclear, water, agritech/food.

3. To connect lower and higher TRL activities accelerating maximum impact of supply chain resource efficiency and sustainability to users and society.

4. To sustain pipeline of relevant skills ensuring future supply chain resource efficiency and sustainability.
The resources we already have

20 Partnerships/Industry leaders

40 Research Centres

20 leaders (academic leads, BDM leads, partnership leads and 2022 Futures leads)
The resources we need

- Commitment from key partners in kind – time from sponsors, access to data and facilities, and participation in AREC

- Contribution to the development of project opportunities matrix and activities

- We will reach our goal through matched funding – every sum raised will be leveraged to create 3 x value
Sources of resource investment

Sources

University of Sheffield

Partners

Funding Bodies
AREC is the vehicle to channel and return value

University of Sheffield

Intellectual property (IP) and Research Impact

Intellectual property (IP) and/or Commercial Impact

Partners

Funding Bodies

Capital Deployment and Targets
Why AREC is the right vehicle

- 10 years of development
- Clear commitment from University
- Strong support from Partners

Intellectual property (IP) and research Impact

Capital Deployment and Targets

Intellectual property (IP) and Commercial Impact
AREC’s Partnership Model

- Credible commitment
- Clear framework and governance
- Project matrix
- Recruitment of stakeholders, champions, supporters and mentors
- Matched funding
Partnership Model in action (AMRC and NAMRC examples)
Scaling the Partnership Model – The Role of the Collaborative Steering Group (CSG)

- Monitoring and Management
- Steer and Resource
- Promote

AREC: Creating the Supply Chain of the Future
Sharing created Value

University of Sheffield

Partners

Funding Bodies

AREC
Creating the Supply Chain of the Future
Recognising and accounting for Value

- Contribution in kind (time, expertise)
- Intellectual property, data, licenses
- Monetary support

Early Stage

Intermediate Stage

Late Stage
Identifying goals: What will AREC do?

This diagram summarizes the main findings and top priorities in each of the sectors that were highlighted during the workshop.
Selecting goals: The Partnership Model

- Credible commitment
- Clear framework and governance
- Project matrix
  - Recruitment of stakeholders, champions, supporters and mentors
- Matched funding

- AREC Projects pipeline
- Physical laboratory and building for AREC
- AREC Impact
Timelines for next steps

Q4 2014

Project matrix

Business case and proposals

Obtain funding

Q1 2015

Q2 2015

Q3 2015

Deliver projects
What specific resources do we need?

- A Business Development Director / Manager
- A Commercial Director / Manager
- A Finance and Funding Director / Manager
- A Marketing/Impact Officer
- An administrator
- Several Research Assistants / Post Doctoral Research Associates / Technicians / Programmers
- A floor for AREC laboratory (short term), and a building (mid-long term)
- Kits for the infrastructure
Possible investment and funding sources

- Partners and Industry
  - R&D
  - CSR

- University
  - IIKE
  - ESRC IAA
  - EPSRC IAA
  - HEFCE / HEIF
  - Depts/Faculties/SDF

- Funding bodies
  - Innovate UK
  - BIS
  - EPSRC
  - ESRC
  - EU H2020
  - ERDF / ESF / Erasmus
  - LEP
  - Government
Contact us

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To Discover And Understand.
Creating the Supply Chain of the Future.