# Integrated research, engagement and impact: a case study of the Resource Recovery from Waste programme

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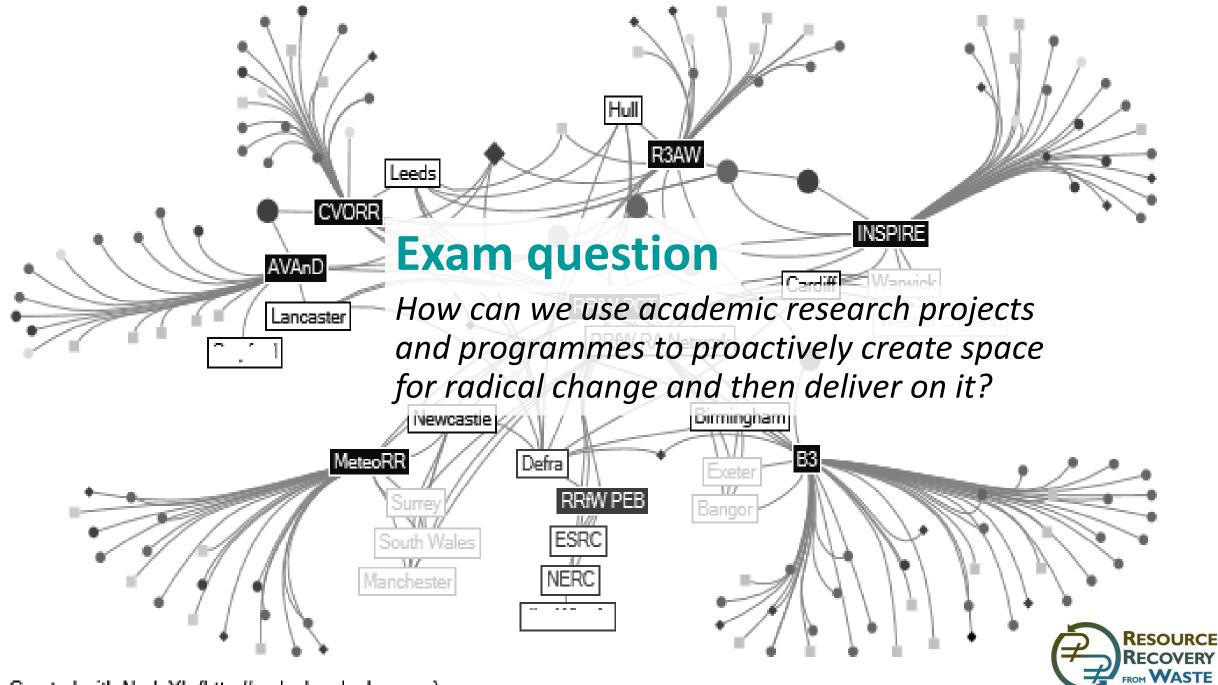
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Resource Recovery from Waste





Created with NodeXL (http://nodexl.codeplex.com)







change in

waste

>£7M

E·S·R·C ECONOMIC & SOCIAL

RESOURCE

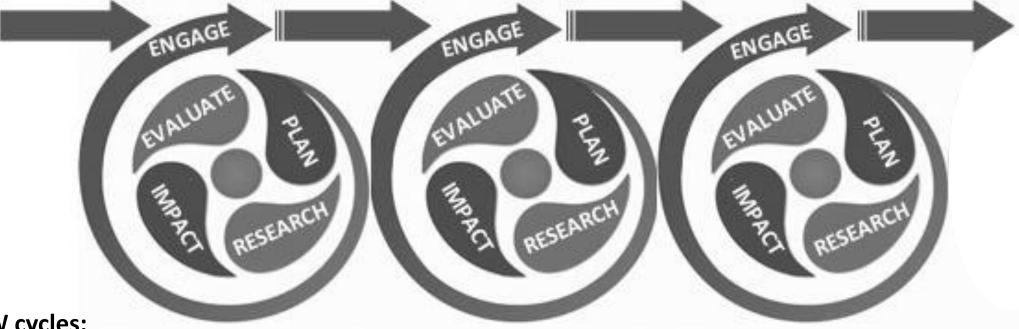
RECOVERY

FROM WASTE

Department for Environment Food & Rural Affairs

## Integrated Research, Engagement and Impact Cycles

A combination of: Participatory Action Research, Participation process management, Project & Programme management



**RRfW cycles:** 

- **1.** Programme co-production
- 2. Develop shared vision and approach
- 3. Co-produce evidence base
- 4. Bridges to translate and transfer more knowledge
- **5.** Acceleration to capitalise on impact opportunities

Velenturf, A.P.M., Jopson, J., Marshall, R. (June 2019) *Delivering knowledge exchange and impact: a case study of the Resource Recovery from Waste programme.* Invited presentation at UK Research and Innovation, Swindon, UK.



**Did it work?** An overview of major RRfW impacts **Coproduce business case for National Materials Datahub** 

Coproduce Resource Sector deal

Citations and language use in Resources and Waste Strategy

Public dialogue on resources and waste

Circular economy research and innovation investment landscape

Academic publications



Self-declared changes in practice following RRfW events

Companies' communication on resources, waste and sustainability

Resources and circular economy in Industrial Strategy

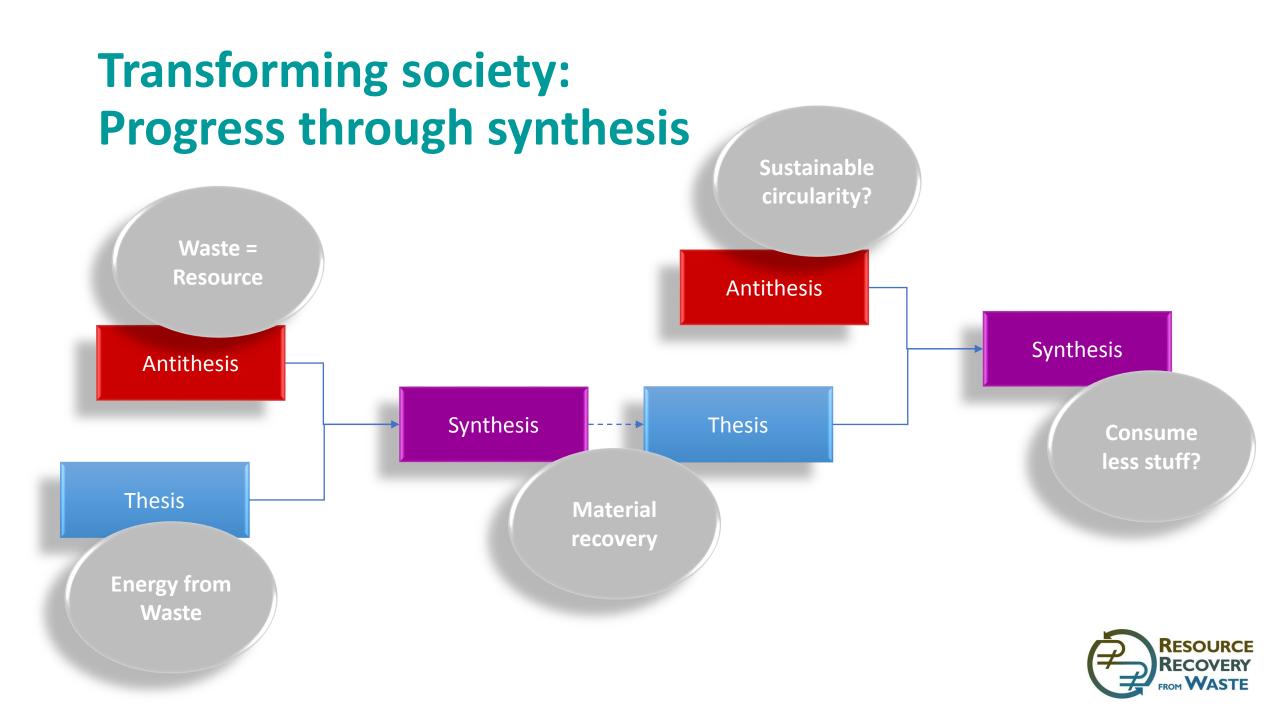
Co-create arena for policy integration

# **Designing a programme for impact**

- 1. Clarity on problem that is to be solved, the targets to be achieved, and for whom and why.
- 2. Resource availability, e.g. money, time, expertise and contacts.
- 3. Analyse your context, e.g. governance system, economic situation, public narrative, others aiming for change.
- 4. Identify stakeholders and get to know them: perspectives, motivations, interests, concerns, wishes, relations, learning and innovation behaviour how can you help them?
- 5. Get a feel for the "space for change" (more about this in next slide!).
- 6. Develop a public identity and communicate consistently, but leave enough room to be flexible enough to integrate nuances from on-going research.
- 7. Coproduce plans for engagement and impact, that work alongside the academic research, with your team.
- 8. Keep aside time to mentor and support your colleagues in engaging stakeholders and delivering activities that are likely to make a real difference in practice.

Breman et al (2008) Participatie in waterbeheer: een vak apart. WaterTekens project. Resource Recovery from Waste programme evaluation.



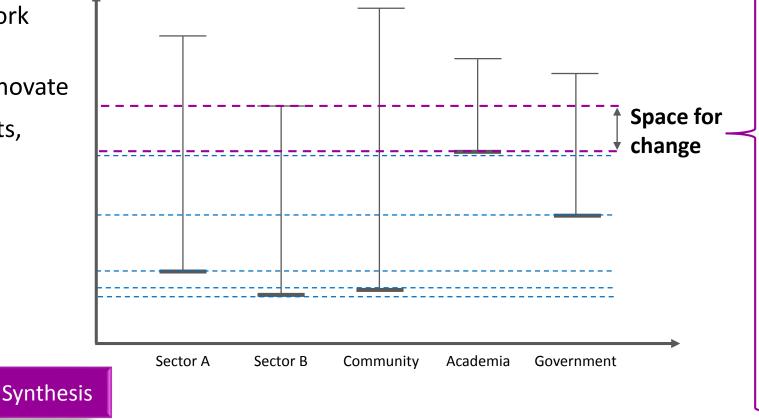


# **Creating a window of opportunity**

- Stakeholder & network analysis
- How they learn & innovate
- Motivations, interests, values
- Flexibility to change
- Design engagement strategy

Antithesis

Thesis



#### Academic narrative

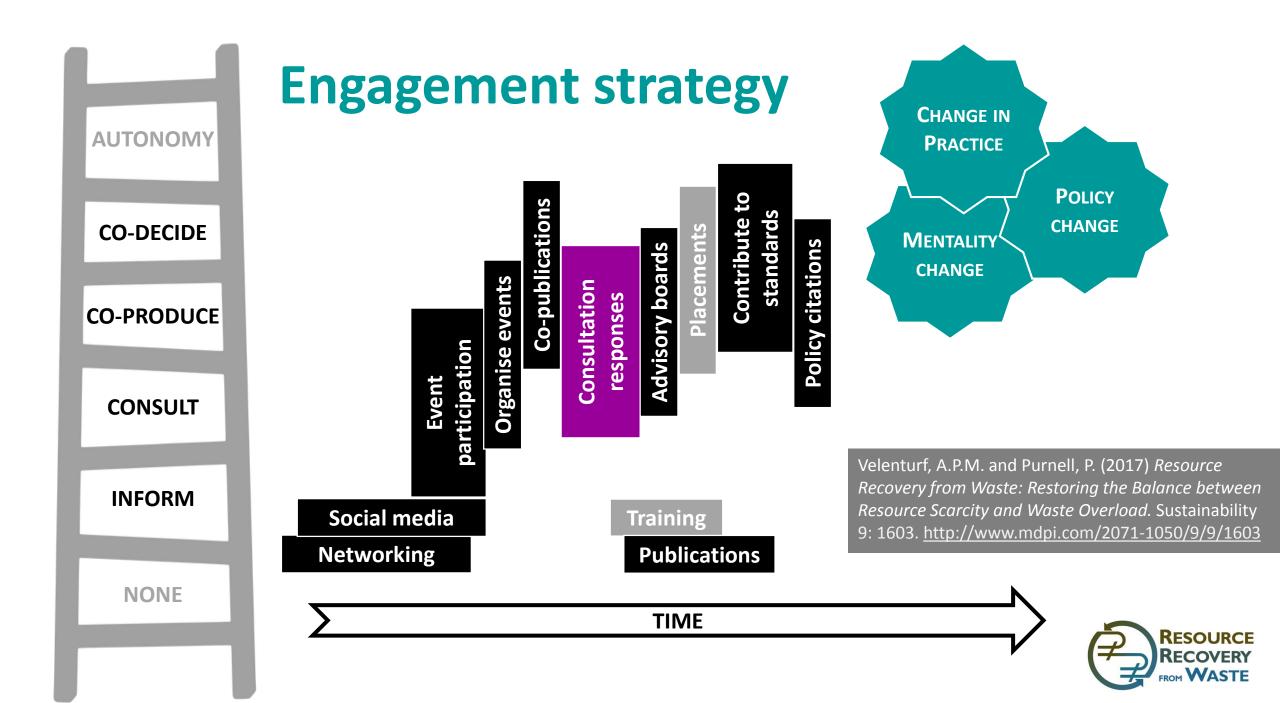
Resource Recovery from Waste: Restoring the Balance between Resource Scarcity and Waste Overload <u>http://www.mdpi.com</u> /2071-1050/9/9/1603

#### <u>Government</u> narrative

Co-Producing a Vision and Approach for the Transition towards a Circular Economy: Perspectives from Government Partners <u>https://doi.org/10.339</u> <u>0/su10051401</u>

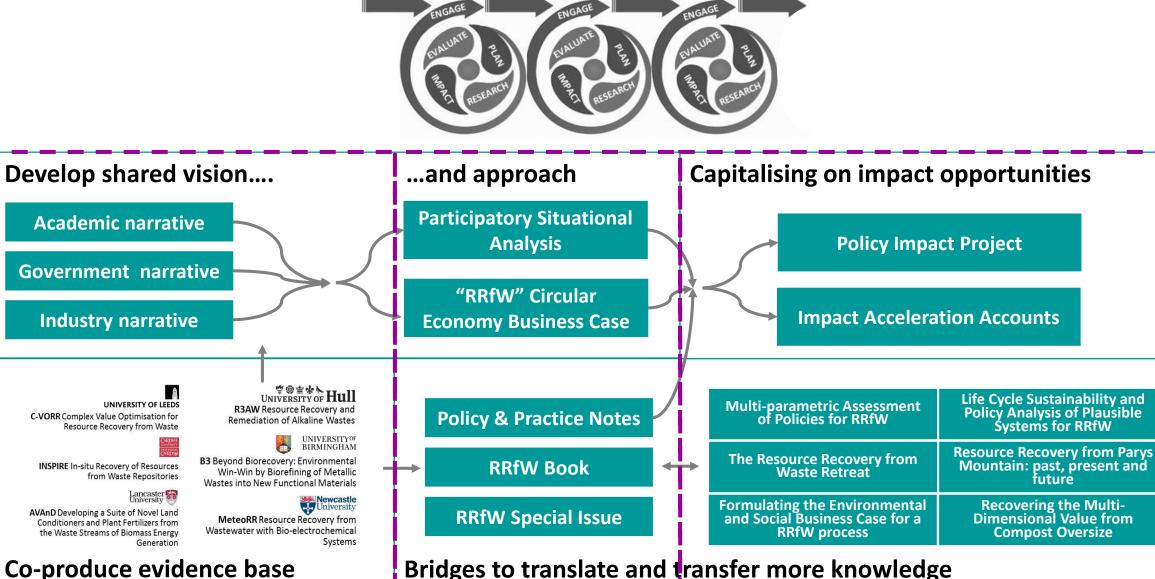
Industry narrative Delivering Radical Change in Waste and Resource Management: Industry Priorities <u>https://rrfw.org.uk/20</u> <u>18/09/26/actions-forcompanies-to-take-fora-circular-economy/</u>





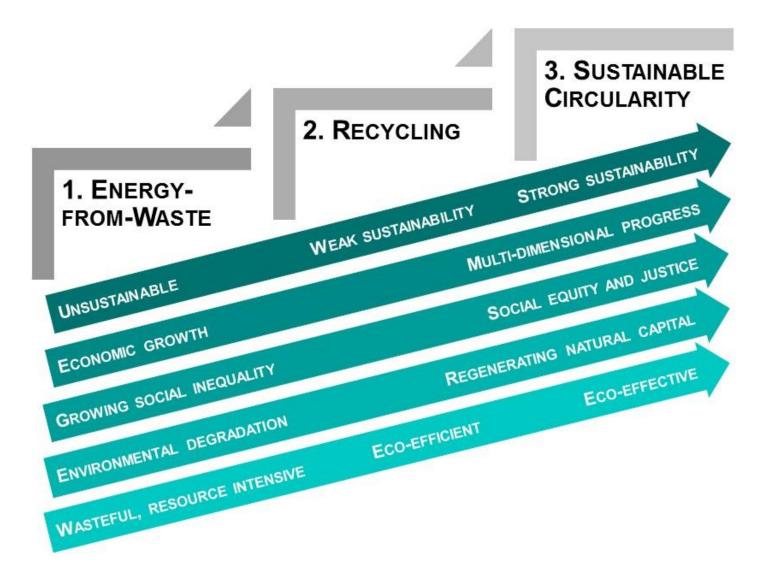
## Parallel, interlinking and overlapping cycles





Bridges to translate and transfer more knowledge

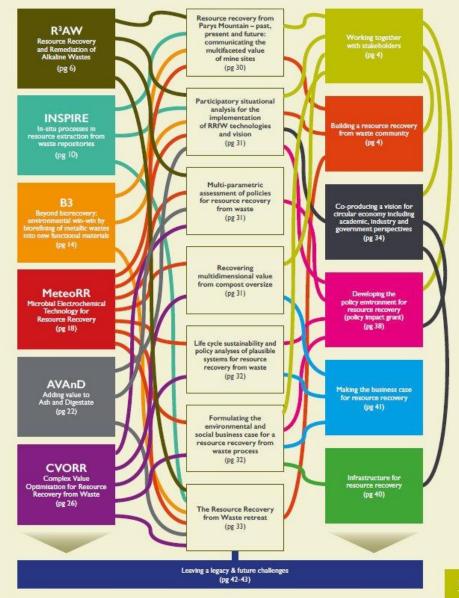
## Widely differing perspectives on circular economy



Velenturf, A.P.M. and Purnell, P. (2020) What a sustainable circular economy would look like. The Conversation. https://theconversation.co m/what-a-sustainablecircular-economy-wouldlook-like-133808



#### RESOURCE RECOVERY FROM WASTE PROGRAMME OVERVIEW



## Building bridges to translate and transfer more knowledge

Bringing researchers and stakeholders from across the programme together in short projects, for example:

**Participatory Situational Analysis workshops** 

Now translated into general method for actionoriented research:

- 1) Current progress towards circular economy and agree next ambitions for transition
- 2) Constraining and enabling factors
- 3) Actors in control of transition in given system
- 4) Potential actions that key actors could take
- 5) Research challenges that project will solve

Jopson et al (2019) *Resource Recovery from Waste end of programme brochure.* <u>https://resourcerecover</u> <u>yfromwaste.files.wordpr</u> <u>ess.com/2019/05/rrfw</u> <u>programme\_brochure</u> web\_spreads.pdf

Velenturf et al (2018) Participatory Situational Analysis: How can policy and regulation support resource recover? Synthesis report. https://resourcerecover yfromwaste.files.wordpr ess.com/2018/10/rrfwpsa-synthesisreport\_final.pdf

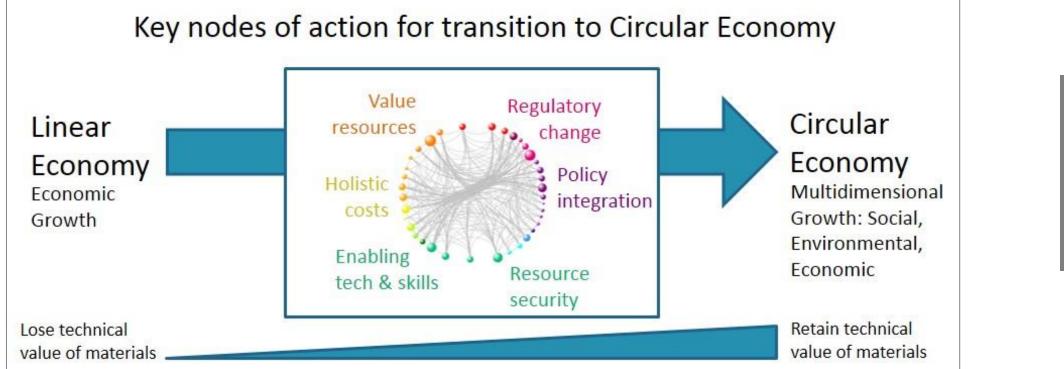


# Finding key intervention points to drive change

#### "Conference +"



Delegates were asked to report on drivers, barriers and actions for implementing a circular economy Making the Business Case for Resource Recovery



Velenturf, A.P.M. and Jopson, J. (2019) *Making the business case for resource recovery.* Science of the total environment. <u>https://doi.org/10.1016</u> /j.scitotenv.2018.08.224



### Putting our evidence into action: example of policy change



Making the most of industrial wastes: strengthening resource security of valuable metals for clean growth in the UK RECOVERY Net WASTE



Integrating evidence base with coproduced policy advice



RESOURCE

RECOVERY

WASTE



Westminster Energy, Environment and Transport forum: British infrastructure not ready for circular economy

The Restance Receivery from Wester programme has a violan of a high value circular momenty that delivers clean gravity, a better environment and social benefits such as skills and juits. We work closely with our partners in genement and business to last this violan leta action.

NATIONAL INFRASTRUCTURE COMMISSION Building a circular economy How a new approach to infrastructure can put an end to waste



Transforming infrastructure for circular economy



Integrating academic evidence



Research and innovation challenges for resour

recovery and circular economy

Keeping momentum: Setting the research agenda



Resource data infrastructure

#### Find all outputs & more at <u>rrfw.org.uk</u>



# **Knowledge exchange and impact expertise**



# Thank you!

'KE is often associated with activities which can be planned and costed; from seminars and workshops to placements and collaborative research. However, good KE is as much about approach, mindset, personal qualities and researcher mission.' (ESRC)

If you found this presentation useful, then please cite us & feel free to get in touch! Velenturf, A.P.M. and Jopson J. (July 2020) Integrated Research, Engagement and Impact: a Case Study from the Resource Recovery from Waste programme. International Sustainable Development Research Society Conference, Budapest, Hungary.

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