

Table S1: DecarboN8 SoRA Research participants and activities

Timing	Research Participants	Research Activity & Analysis	No#
4x 2109- 22	Experts from Transport for the North (TfN), the Climate Change Commission, UK Research Councils and Low-carbon innovation SME	Periodic reviews of SoRA development with the DecarboN8 Advisory Board, round table discussions of SoRA concept and evolving design, formative evaluation	5
7x 2109- 22	Stakeholder Reference Group, including members of transport activist groups, local authorities, SME, the Regional Youth Climate Assembly	Stakeholder Reference Group Meetings in the form of creative workshops, experimental assessment of different innovations' SRL, co-design and formative evaluation of SoRA concept and design	4
Nov- Dec 2019	100+ researchers, stakeholders from communities, industry, policy	Plenary Q&A on DecarboN8 SoRA concept at DecarboN8 Launch Event, informal conversations during workshops	10
Jan- March 2020	Invited stakeholders from communities, industry, policy, including Lake District National Park Authority, TfN, bus operators, SME	Creative workshop during Decarbonising Transport – Connecting Carbon Targets to Action event, using SoRA Visioning methods, including scenario building and backcasting.	25
April – June 2020	Researchers from different disciplines	Round 1 seed project submissions responses to SoRA questions in application form	5
July – Sep 2020	Designers, economist, research leads from Connected Places Catapult (CPC)	Creative workshop on developing SoRA in relation to TRL	5
	Designers and innovation project leads from CPC, Seed project Principal Investigators	Societal Readiness Salon – experimental joining of SoRA with market readiness assessment, reflective debrief with CPC	12
Oct – Dec 2020	Zero Carbon Cumbria Partnership (ZCCP) Manager, Cumbria Action for Communities Director	Meeting - discussion of ZCCP's need for SoRA	2
	Stakeholder Reference Group	Trial SoRA evaluations written by SRG, reflective debrief	4
	Researchers from different disciplines	Discussion of SoRA self-evaluations at DecarboN8 Principal Investigator Workshop, reflective debrief	5
Jan- March 2021	Researchers from different disciplines	Round 2 seed project responses to SoRA questions in application form	5
	2 members of the Yorkshire and Humber Regional Youth Climate Assembly	NERC funded Video Conversation about SoRA https://www.youtube.com/watch?v=znZnBp5n5yc	2
July – Sep 2021	Designers, economist, research leads from CPC	Creative workshop on developing SoRA in relation to TRL	5
	Stakeholders from CPC, ZCCP, Regional Youth Climate Assembly	Panel discussion and online creative activity at DecarboN8 Conference, reflective debrief	20

Oct – Dec 2021	Researchers from different disciplines	Principal investigator creative workshop, discussion of five trial SoRA assessments, reflective debrief	5
	Zero Carbon Cumbria Partnership	Creative online SoRA taster workshop	20
	Zero Carbon Cumbria Partnership	SoRA Visioning online workshop	11
Oct – Dec 2022	Youth Climate Day participants, Cumbria Development Education Centre (CDEC)	Cumbria Mobility Futures creative workshop I, videos available at https://decarbon8.org.uk/cumbria-2037/	12
	Youth Climate Day participants, CDEC	Cumbria Mobility Futures creative workshop II, videos available at https://decarbon8.org.uk/cumbria-2037/	16
	Cumbria Action for Communities Director	ZCCP SoRA Dashboard questionnaire completion and reflective formative evaluation	1
	Cumbria local authorities, National Park Authority, Third Sector Organisations, Copeland Community Climate Monitoring Group, Youth Climate Leaders	Creative workshop at Cumbria 2037 Symposium & Instant Journal Cumbria 2037: Decarbonising Mobility Futures.	80
Jan 2023	ZCCP	Formative Evaluation of SoRA prototype	1
		Total Participants	254