

RDI needs (1/2)



| | NOW 2030 | |
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| Carbon Capture tech | Efficient low cost Carbon Capture with high capture rates Upscaling Carbon Capture technologies materials Bio-CO₂ Monitoring/metering tech for Reduce the plants of the properties of the properties | ce plant |
| CCUS process | Carbon | s / space uirement |
| CO₂ logistics | CCUS atlas: industrial hubs for infra planning | |
| CO₂ storage | Reservoir integrity Drillhole tech and integrity Monitoring Competing reservoir uses (e.g. H₂ storage), capacity estimation and modeling Emerging storage options like mineralization and long-term CO₂ storage in the soil Small-scale CO₂ storage atlas Oco storage options storage options storage options like mineralization and opportunities for smaller industries | · · · · · · · · · · · · · · · · · · · |



RDI needs (2/2)



NOW Business models, Varied CCU solutions, Modeling functioning • Supporting/optimising the Upscaling: Cost vs size integration of new technologies value chains, connections between business options, integrated into existing facilities, side solutions and value-chains: industries industry streams and infrastructure actors, new businesses, gaps symbiosis Standards • RDI to support standards: CO₂ quality, Carbon Capture, utilisation, transport and storage **Environmental** LCA and sustainablility • Environmental assessment from large plants impact **Cross cutting** • Update of carbon capture Al based technologies • Research infra, shared Capacity building and main synthesis (e.g. control of plants) European pilot plants labour requirements topics roadmaps based on TRL