

RDI needs (1/2)



	NOW 2030
Carbon Capture tech	 Efficient low cost Carbon Capture with high capture rates Upscaling Carbon to Capture technologies waterials to Bio-CO₂ Monitoring/metering tech for Reduce plant
CCUS process	• Costs down and energy efficiency preparation products • Costs down and energy efficiency preparation for upscaling products • Costs down and energy efficiency preparation for non energy products • Carbon Capture/CO ₂ efficiency remains topic efficiency remains topic
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 options storage option



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