



# CCUS Ecosystem

## The Challenge

- The implementation of Carbon Capture, Utilization, and Storage (CCUS) technology is a pivotal contribution to achieving net-zero energy by 2050.
- However, the effective deployment of CCUS in Alberta and across Canada faces complex challenges.
- The lack of a shared understanding of these challenges results in fragmented interventions and hampers broader adoption and investment in the technology.

## The Process

- Following on EFL Fellows' interest in CCUS technologies, increasingly focused conversations emerged that the EFL helped to scope and shape into a first phase research and engagement arc through the Impact Studio.
- Because of the Lab's trusted reputation as a non-partisan convenor and advocate for a radical middle-ground on energy issues, we were able to bring critical sector stakeholders to the table and engender a spirit of trust and openness around a subject that could be sensitive from reputational, competitive and political perspectives.
- Furthermore, the Lab's involvement leveraged superior facilitation skills to gain significant, actionable insights from a broad representation of affected sectors.

## The Initiative

- To address this issue, the Lab undertook research towards uncovering and articulating the pain points as well as opportunities in the CCUS system.
- A four-month process was designed and led by EFL Fellows to co-determine and stress test stakeholders' key challenge areas hindering the safe, sustainable and effective deployment of CCUS in Alberta.
- The working group conducted three, three-hour workshops from May to August 2023.
- The first acted as a level-setting workshop, with discussion focused on current Alberta and Canada state and value chain mapping to identify strategic issues.
- The second workshop then shifted to identifying actions and pathways to unlock momentum and solutions to the key strategic issues identified in Workshop 1.
- Finally, the third workshop focused on refining and evaluating the five identified strategic issues areas, and proposals were brought forward on how such challenges might be addressed.
- Participants in both the workshops and interviews included representatives from governments, agencies, think tanks, municipal organizations, not-for-profit entities, private industry, and others representing a wide breadth of players in the CCUS space.

## Participating Fellows



**Dani Urton**  
Vertex Resource  
Group Ltd.



**David Bellmont**  
Journey Engineering  
Corporation



**Eric Koskela**  
Inter Pipeline Ltd.



**Jochem Kamstra**  
BXVentures

## 2023 Highlights



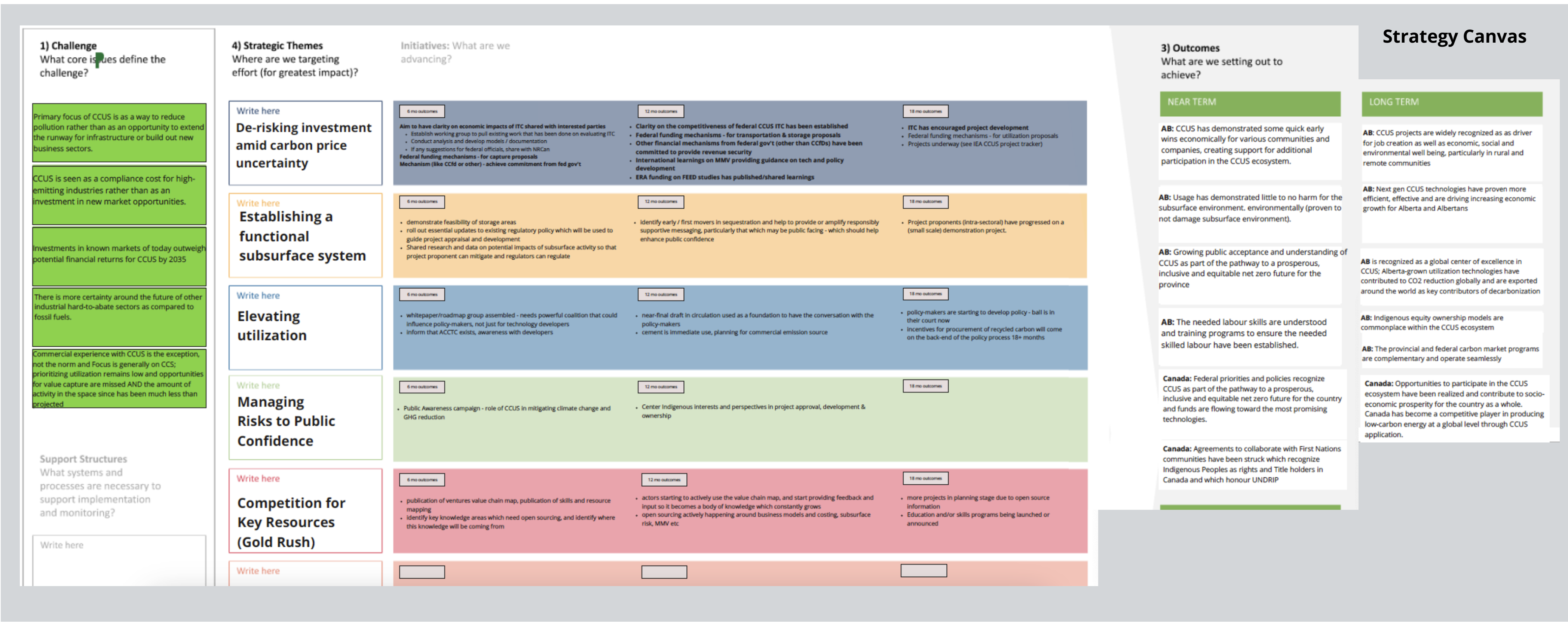
**17**  
**Interviews with**  
**industry actors**



**3 workshops**  
**designed &**  
**facilitated**



**5 roadblock**  
**themes**  
**identified**



## Successes We're Celebrating

- To advance the deployment of CCUS in Alberta and across Canada, a strategic and collaborative approach will accelerate the uptake of CCUS projects.
- While the contributions of this initiative represent an early phase of a longer trajectory, it is clear that establishing a coalition of key stakeholders in the utilization space, with a focus on policy advocacy and technology commercialization has the potential to help drive innovation and industry growth.
- This work provides insight for future engagement between policy developers and industry players to provide clarity on carbon pricing, accelerating and optimizing proposed funding mechanisms.
- Emphasizing long-term public engagement could contribute to addressing challenges around investment, subsurface dynamics, and public confidence.
- A public release of the outcome report, which outlines the 5 strategic issue themes identified through the initiative, as well as short and long-term success roadmaps, is slated for early 2024.

SCAN  
HERE!



Read the draft report:  
*Accelerating the Adoption of  
CCUS in Alberta: A Systems View*