

Participatory Technology Assessment (pTA): A platform engagement technology for responsible CDR

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New Tools for Science Policy: Carbon Removal Social [Science]
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Key Message



The current CDR decision-making context demands robust, reflexive engagement. **pTA** is a **platform engagement technology** that CSPO and its partners have been tailoring to respond to and meet these demands.

Preview

1

Defining pTA

What, how, & why

2

pTA's CDR Portfolio

Current projects by use-cases

3

Wrap-Up

pTA is a living process, not a checkbox

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Defining pTA

What, how, & why

What is pTA?



What is pTA?

An engagement tool for

- (1) assessing **public values**,
- (2) managing **uncertainty**,
- (3) filling democratic gaps, and
- (4) integrate **lived and living knowledge** into science-policy decision-making.



What is pTA?



How we do pTA?



How we do pTA?

The pTA Process

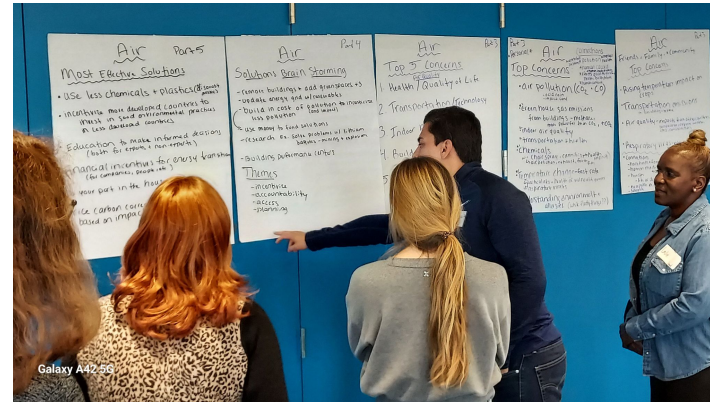
Problem Framing

Literature Review

Community Dialogues

Stakeholder Interviews

Design Workshop



How we do pTA?

The pTA Process

Problem Framing

Literature Review
Community Dialogues
Stakeholder Interviews
Design Workshop

Public Deliberations

Content & Protocol Dev.
Recruitment and Training
Citizen Deliberation Forums



How we do pTA?

The pTA Process

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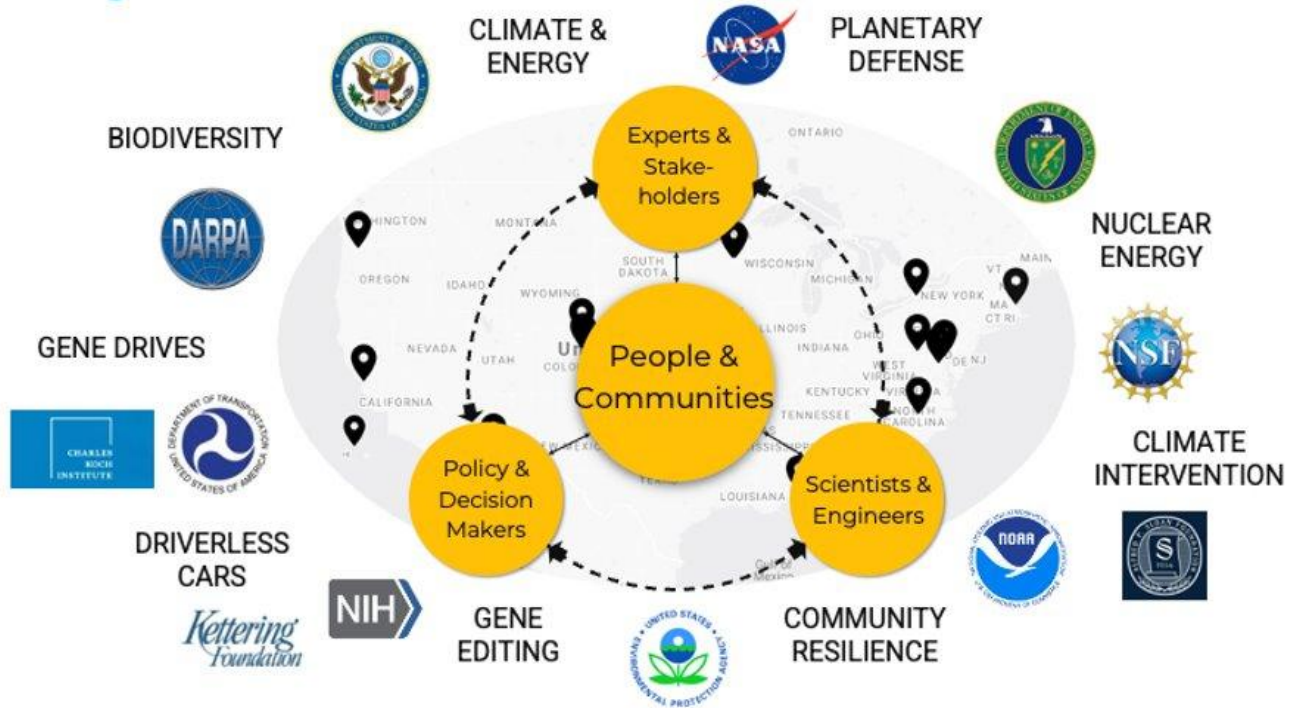
Results & Integration

Preliminary Results
Results Workshop
Reports and Briefings



How we do pTA?

The pTA Process



50. forums 30. cities 3500. citizens

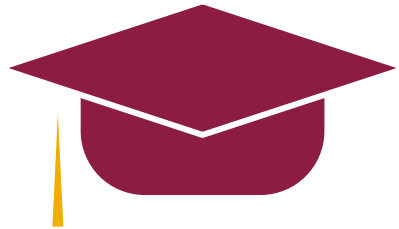
Why pTA?



Why pTA?

Use-Cases

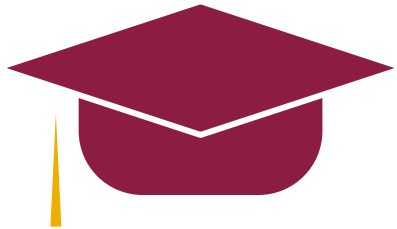
Education



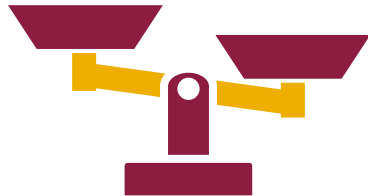
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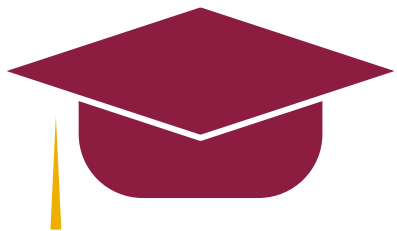
Decisions



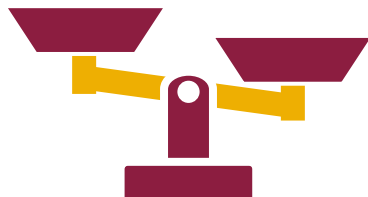
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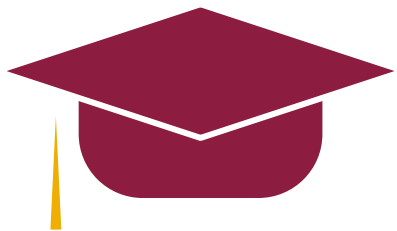
Research



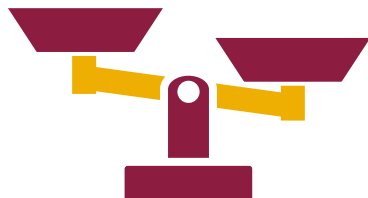
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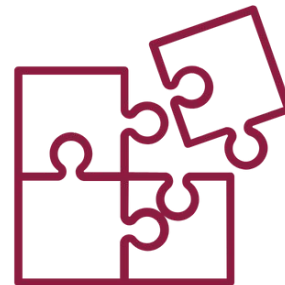
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Research



Innovation



pTA's CDR Portfolio

Current projects by use-case

Carbon Dioxide Removal (CDR) Technology Public Forums and Application to Governance Frameworks



Governing CDR

Purpose:

Determine informed publics' perceptions of CDR and the implications that their perceptions have for CDR governance.

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Project Use-Case



A public discussion on the role of carbon dioxide removal

Education



Decisions

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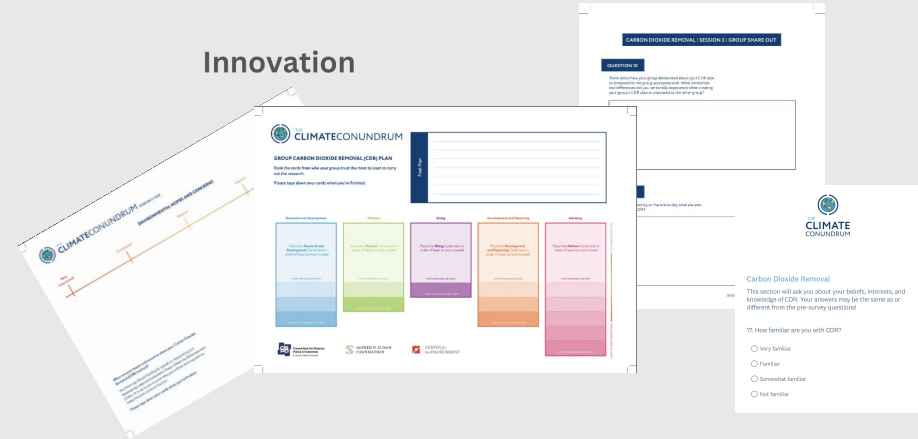


Decisions

Research



Innovation



Direct Air Capture Hubs Shared Principles for Community Collaboration



DAC Hub Principles for Community Collaboration

Purpose:

- Support the Office of Clean Energy Demonstrations develop **Shared Principles for Community Collaboration (SPCC)** for the Texas and Louisiana DAC Hubs.
- **Training of the trainer** for SPCC process.



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Guidehouse

emergent
method



PROJECT CYPRESS

DAC Hub Principles for Community Collaboration

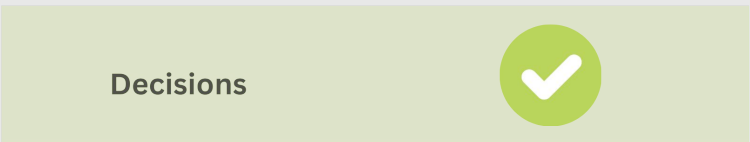
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Project Use-Case



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Building Informed and Involved Communities for Responsible Marine Carbon Dioxide Removal



mCDR + Communities

Purpose:

Host a **workshop series** to engage multi-sectoral mCDR actors with community engagement scholars and practitioners to help **co-develop a roadmap** for building informed and involved communities through engagement and information sharing.



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U.S. National
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Project Use-Case



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Decisions



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Project Use-Case



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Participatory Assessment and Governance of Climate Intervention Technologies



CIT Research Center

Purpose:

- Pilot a **participatory research center**

Project Use-Case



CIT Research
Center

Education



Decisions



Research



Innovation



CIT Research Center

Purpose:

- Pilot a **participatory research center**
- Expand **access** to pTA

Project Use-Case



CIT Research
Center

	Education	✓
➔	Decisions	✓
➔	Research	✓
	Innovation	✓

CIT Research Center

Purpose:

- Pilot a **participatory research center**
- Expand **access** to pTA
- **Research areas** for engaged CIT governance
 - Foresight & Assessment
 - Public & Stakeholder Engagement
 - Communication & Integration
 - Civic learning & training

Project Use-Case



CIT Research
Center



Education



Decisions



Research



Innovation



Wrap-up

pTA is a living process, not a checkbox

pTA in Response to CDR



A public discussion on the role of carbon dioxide removal



Education				
Decisions				
Research				
Innovation				

Thank You

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Q&A



Carbon Dioxide Removal (CDR) Technology Public Forums and Application to Governance Frameworks



PHASE I: Problem Framing

- Literature Reviews
 - Stakeholder Value Map
 - Governance Map
- Stakeholder Interviews
 - 15 Stakeholders
 - Forum Design Canvas
- Focus Groups
 - 2x15 Participants
 - Public Problem Framing
- **Design Workshop**
 - 20-30 Stakeholders
 - Expert Panel (6-8 experts)

PHASE II: Citizen Deliberation

- Forum Design & Development
 - Theme, Session & Content
 - Background Info. Booklet
 - Facilitation, Recruitment & Data Collection Protocol
- Forum Site Selections
 - Stakeholder Suggestions
 - Diversity & Partner Capacity Assessment
- Evaluations, Test & Training
 - Expert Panel Review
 - Test Forum & Revisions
 - Site Manager & Lead Facilitator Training
- **Citizen Forums**
 - 3x60 Lay Participants
 - Facilitator Training
 - Forum Logistics
 - Data Collection & Tabulation

PHASE III: Results Integration

- Preliminary Analysis
 - Briefing Book
 - Expert Review
- **Results Workshop**
 - 20-25 Stakeholders
 - Analysis & Dissemination Plan
- Outputs and Outcomes
 - Report Peer Review
 - Publications
 - Mentorship & Training
 - Interim Results
 - Policy Report
 - Briefings & Conference Presentation
 - Broader Education & Engagement

Direct Air Capture Hubs Shared Principles for Community Collaboration



Shared Principles for Community Collaboration (Shared Principles)

Shared Principles is a **three-step community engagement process** that crowdsources community perspectives and priorities to inform a project's **engagement methods** and **implementation strategies**.

Overarching Goals:

Build relationships between the project-recipient, community, and DOE-OCED.



Establish trusted methods and means of communication to support meaningful engagement.



Develop a document of Shared Principles to guide community collaboration throughout the life of the project.



Shared Principles and the Project Timeline



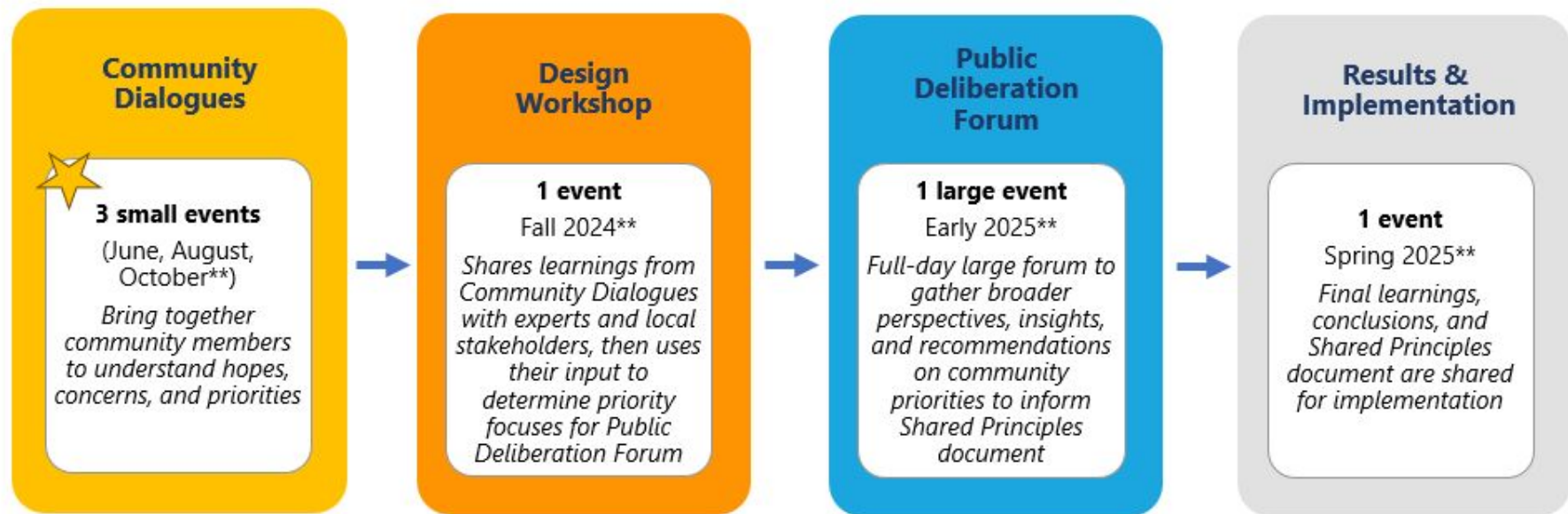
Shared Principles process takes place

~9-12 months

Learnings, engagement methods, and project commitments stemming from Shared Principles are **carried forward** across project lifetime



Shared Principles Process



***Event timing is estimated*



Participatory Assessment and Governance of Climate Intervention Technologies



