

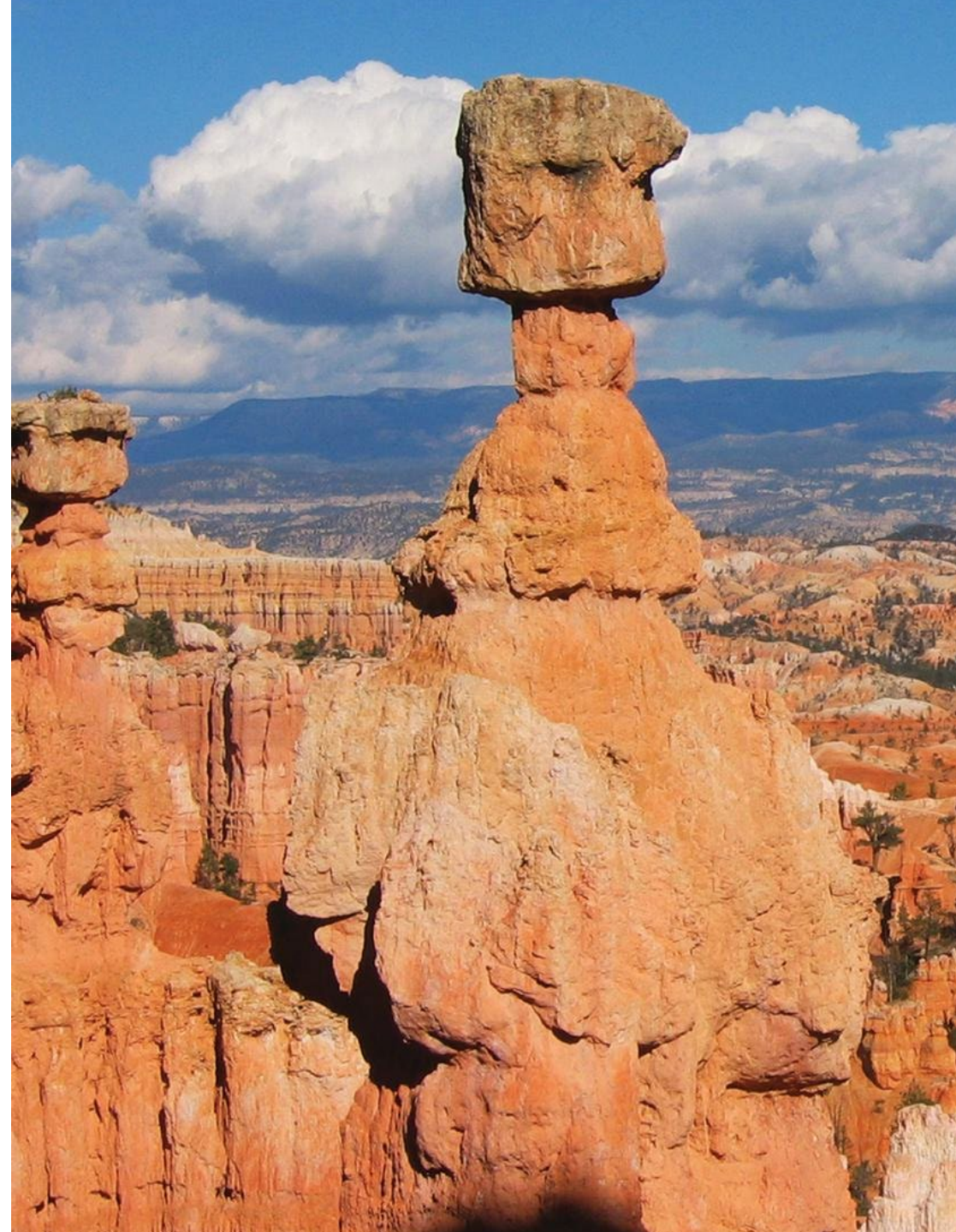
CUSP West Annual Meeting  
September 10-12<sup>th</sup>, 2024

Utah Geological Survey

# The State of CCUS in Utah



Gabi St Pierre, Ph.D.  
Utah Geological Survey



# CCUS Projects: Past and Present

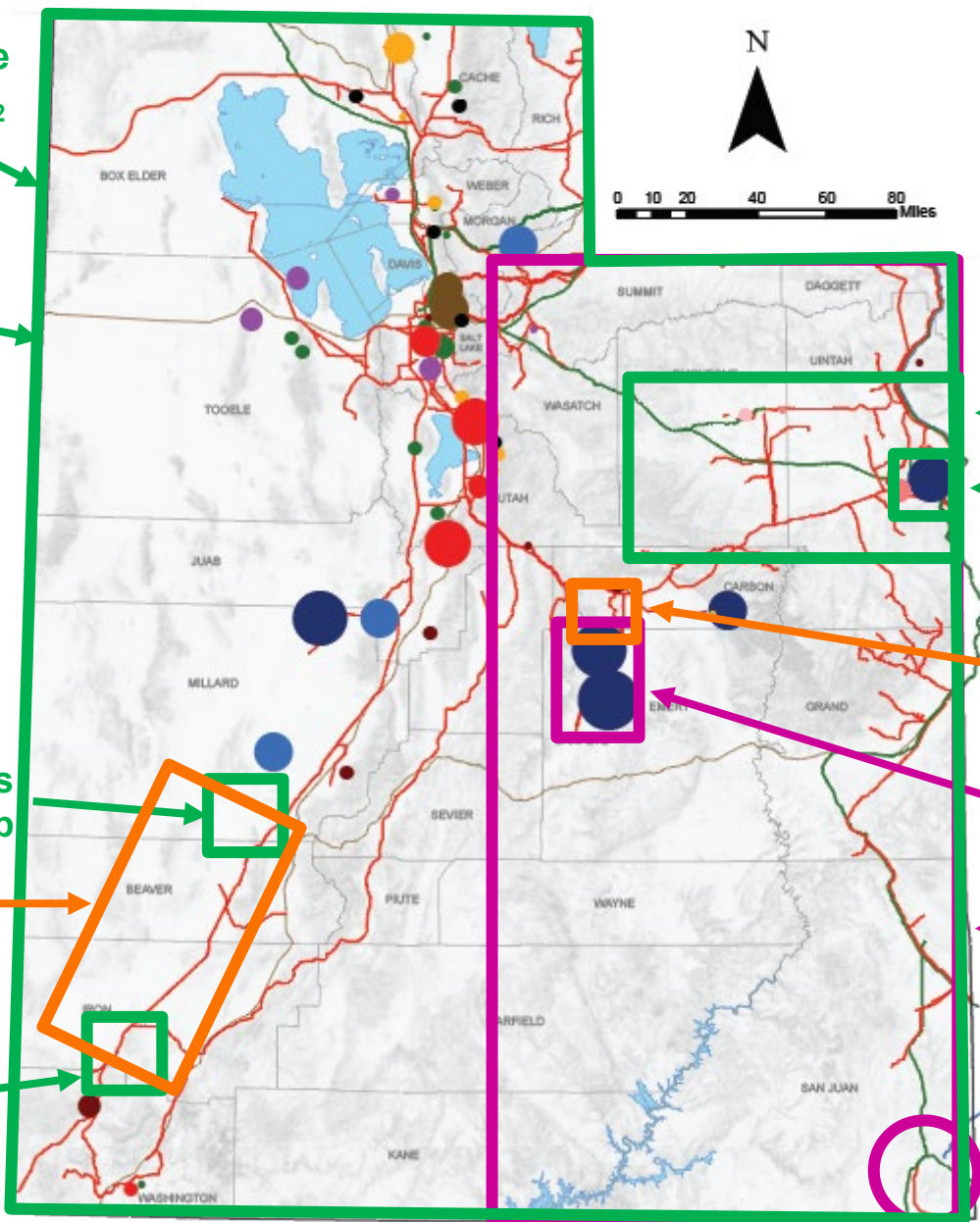
FOA 2799: Statewide Assessment for CO<sub>2</sub> Storage

CUSP West SCO<sub>2</sub>T Database (Whole State)

Red Rocks DAC Hub

Proposal: Great Basin CarbonSAFE Phase 2

Iron Mountain CUSP focus project



- Currently Funded Projects
- New Proposals In Progress
- Previous Work

RITAP: Uinta-Piceance Region\*

Uinta Basin CarbonSAFE Phase 2

Proposal: San Rafael Swell CarbonSAFE Phase 2

San Rafael Swell CarbonSAFE Phase 1

Southwest Partnership (SWP): Colorado Plateau (NATCARB)

SWP Aneth CO<sub>2</sub> EOR

*\*in negotiations with DOE FECM*



# 2799 Utah Statewide Carbon Storage Assessment: Geological Data Gathering, Analysis, Sharing, and Engagement

## Project Goal

- Aggregate, produce, analyze, and disseminate organized and accurate geological data for effective carbon storage (CS) in the state of Utah
- Create an interactive website application (“Web App”) that allows the visualization, storage, and systematic download of CS assessments
- Strongly consider societal and environmental impacts and social justice frameworks in all tasks and interactions
- Set the stage for future business investment in Utah

## Web Based Tool

### *What it will include:*

- Geological and technical data
- Free publicly accessible map products and reports
- A free database of well, core, and petrophysical data

### *Who is it for?*

- The public, universities, government officials, industry, and community partners

### *What will it be used for?*

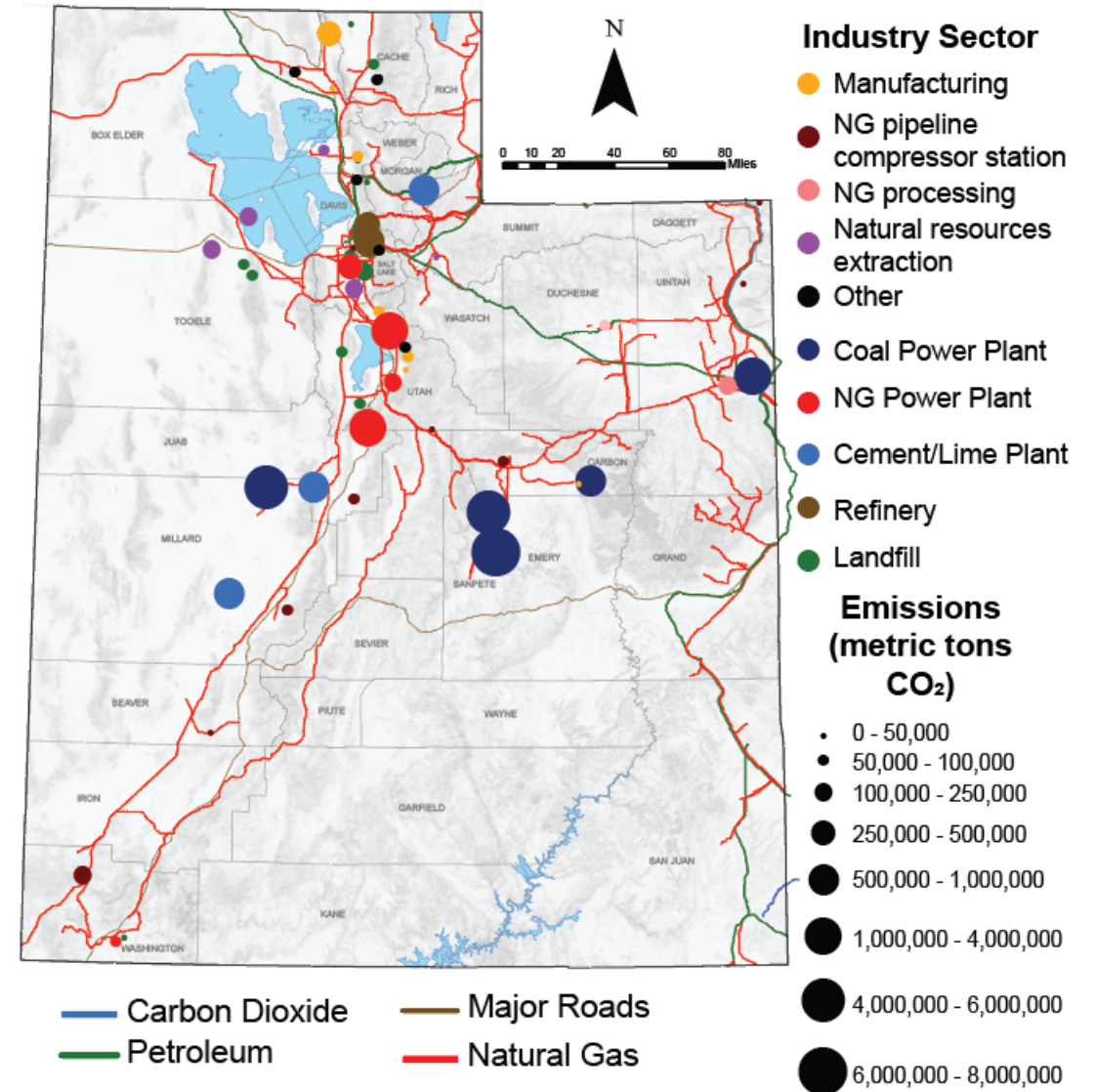
- Natural resources estimates
- Future CCUS opportunities in Utah



# Sources of CO<sub>2</sub>

- There are limited CO<sub>2</sub> sources in Utah
  - Coal fired power plants, natural gas power plants
- Most sources are concentrated near population centers
  - E.g., Wasatch Front
- Likely a need for storage away from primary CO<sub>2</sub> sources
  - Direct Air Capture (DAC)
  - Carbon transport via pipelines

*“sinks in search of sources”*



2022 EPA flight data; <https://ghgdata.epa.gov/ghgp/>



# Primacy for Class VI

- Draft rule stakeholder comment period open – *Closes September 13<sup>th</sup>, 2024*
  - Draft rule and CFR Crosswalk submitted to EPA July 2024 for initial review
- Program description – revisions based on stakeholder comments
- Building primacy application
  - Fee schedule
  - Memorandum of Understanding (MOU)
  - Governor and attorney general letters
  - Federal/state regulation comparison crosswalk
  - Records and forms
- Public outreach: Open house meetings
  - Vernal: September 19<sup>th</sup>, 2024
  - Cedar City: October 2<sup>nd</sup>, 2024
  - Salt Lake City: October 8<sup>th</sup>, 2024
  - Price: October 15<sup>th</sup>, 2024

