

# Central Appalachian Basin CO<sub>2</sub> National Network for Enhancing Carbon Transport Infrastructure Onshore/Offshore (CO<sub>2</sub>NNECTION) Intermodal Transport Hubs (FE0032487)

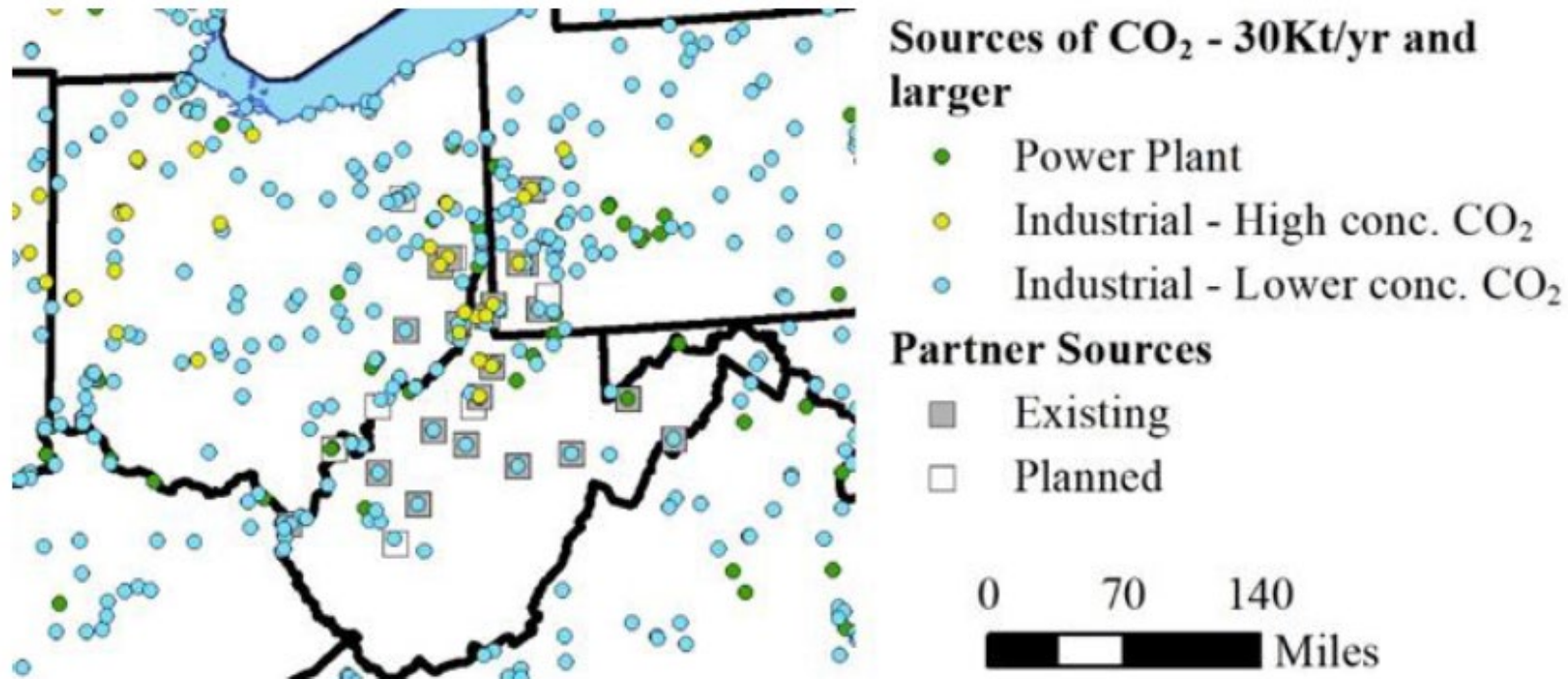
Transport Panel # 1: CO<sub>2</sub> Transport FEED Studies

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# Project Background

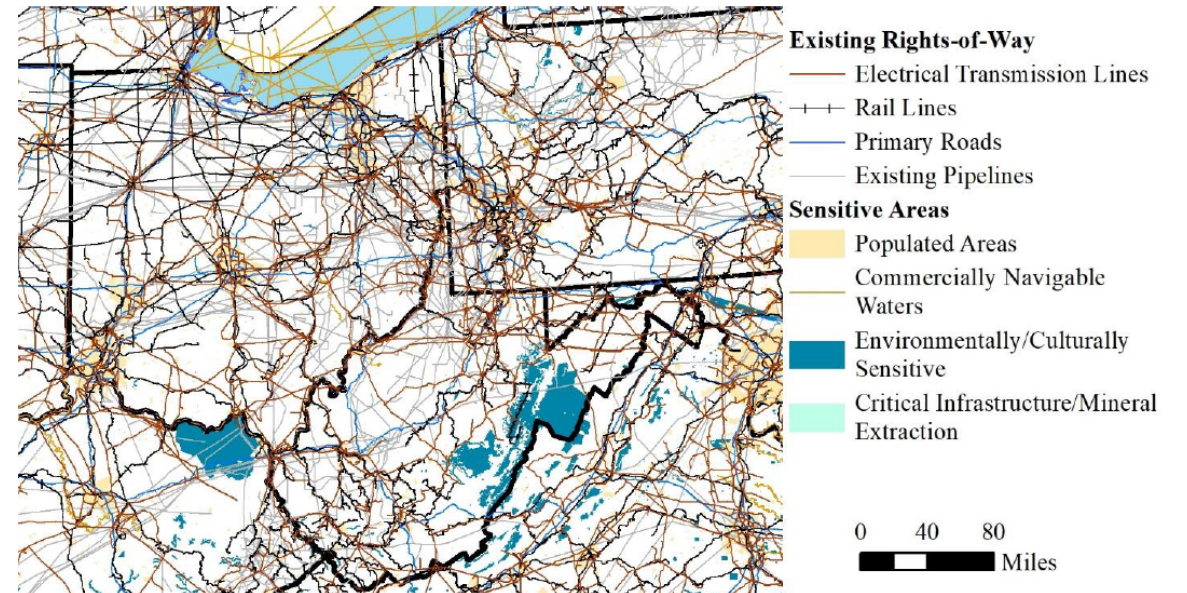
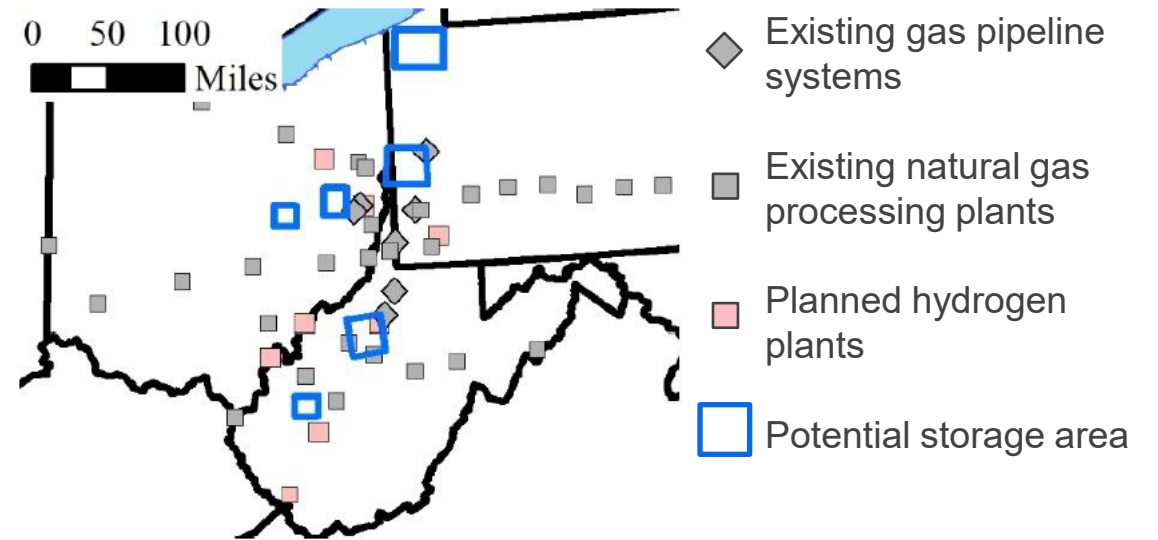


- The Central Appalachian basin is an important economic area with many different sources of CO<sub>2</sub>
- Because of the differences in these sources and potential challenges related to storage in the area, an intermodal transport network would be needed to facilitate CCS
- This has gained additional urgency with commercial CCS interest and federal investments (e.g., ARCH2)

# Project Overview

## Key Project Objectives and Tasks

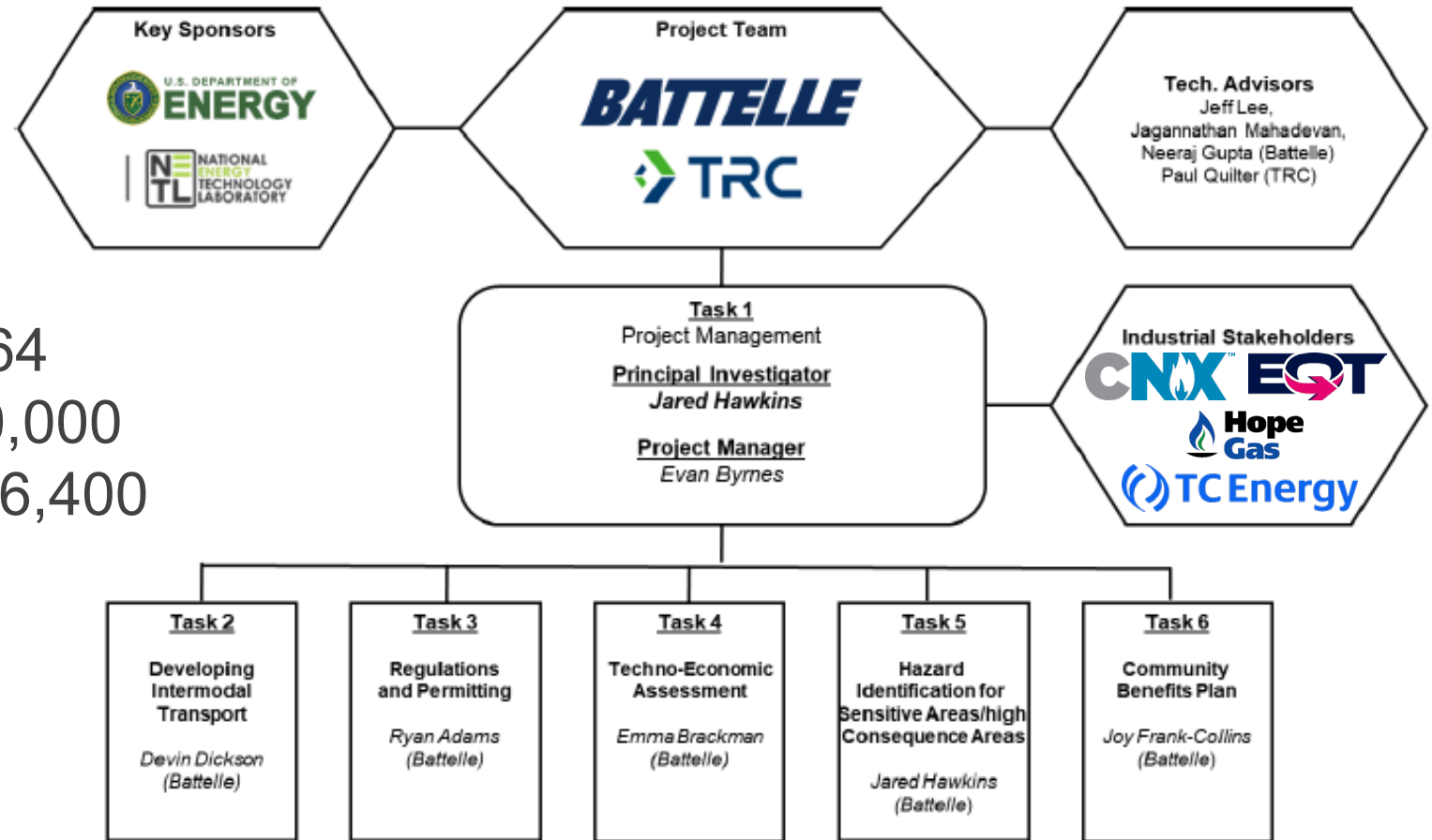
**Objective:** Pre-Front End Engineering Design (Pre-FEED) to Develop intermodal transport hub for the Central Appalachian Basin in an economically feasible and environmentally responsible way.



# Project Overview

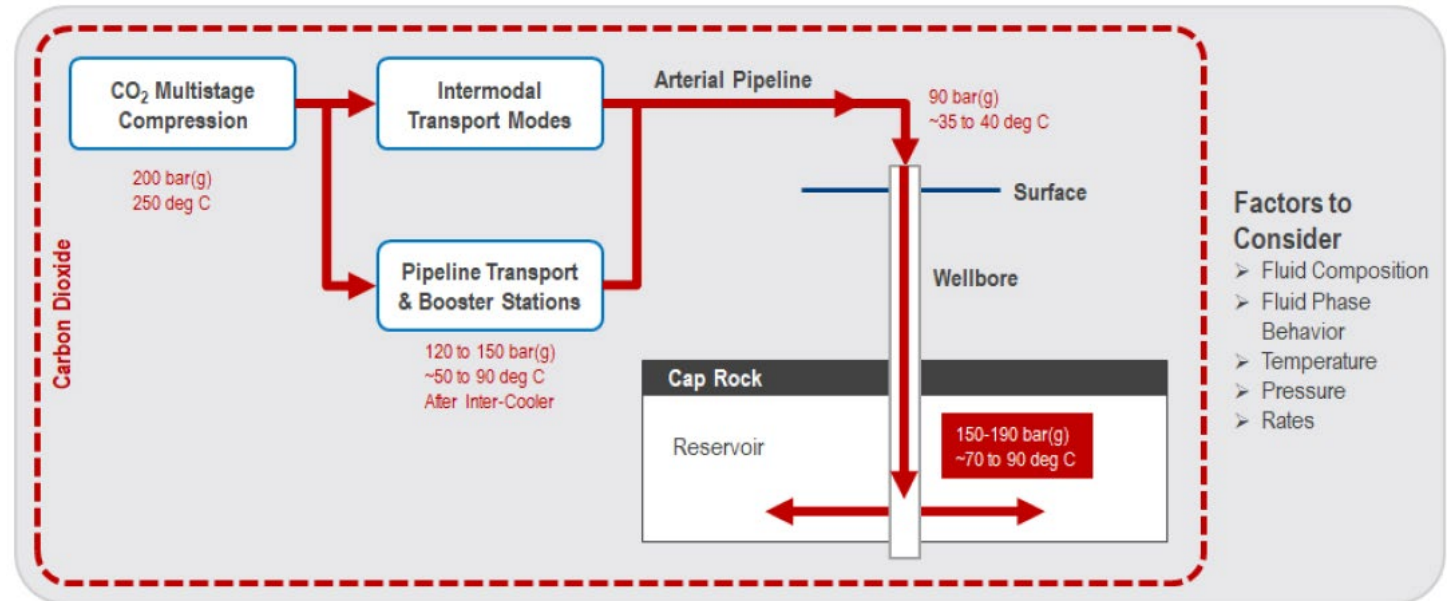
## Key Project Participants and Funding Summary

- **Federal Budget:** \$499,564
- **Cost Share (cash):** \$100,000
- **Cost Share (in-kind):** \$26,400



# Technical Approach

- Task 2 - Developing intermodal transport
- Task 3 - Regulations and permitting
- Task 4 - Techno-economic assessment
- Task 5 - Hazard ID for sensitive/high consequence areas
- Task 6 - Community benefits



# Project Overview

## Timeline

**Period of Performance:** 12-months (beginning soon)

Task	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Task 2	Project execution plan	Design basis report		Projected use for hub
Task 3			-Permitting plan -Regulatory plan -Land acquis. plan	
Task 4			-Project cost estimate -Business case analysis	Preliminary long-lead material and equipment list
Task 5			-Hazardous ID study -EH&S risk assessment	
Task 6				Community benefits

# Conclusions/Next Steps

- We are excited to get started!
- Over the next year, we will:
  - Select a focus area for our study
  - Complete the pre-FEED Analysis for the focus area
  - Develop the economic case for the hub
  - Ensure plans for successful permitting, environmental protection, and community involvement and benefits
- See you in a year with some results!