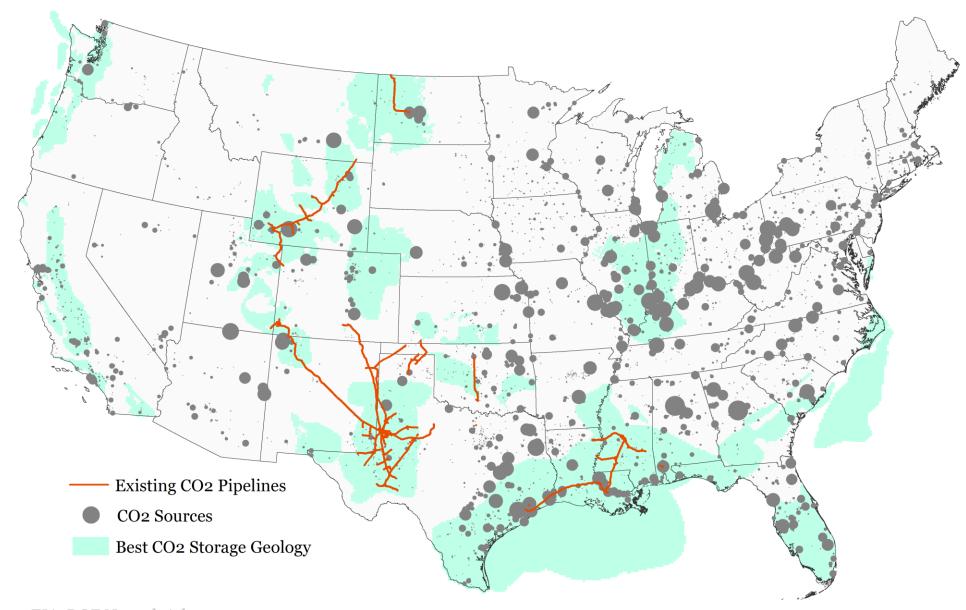
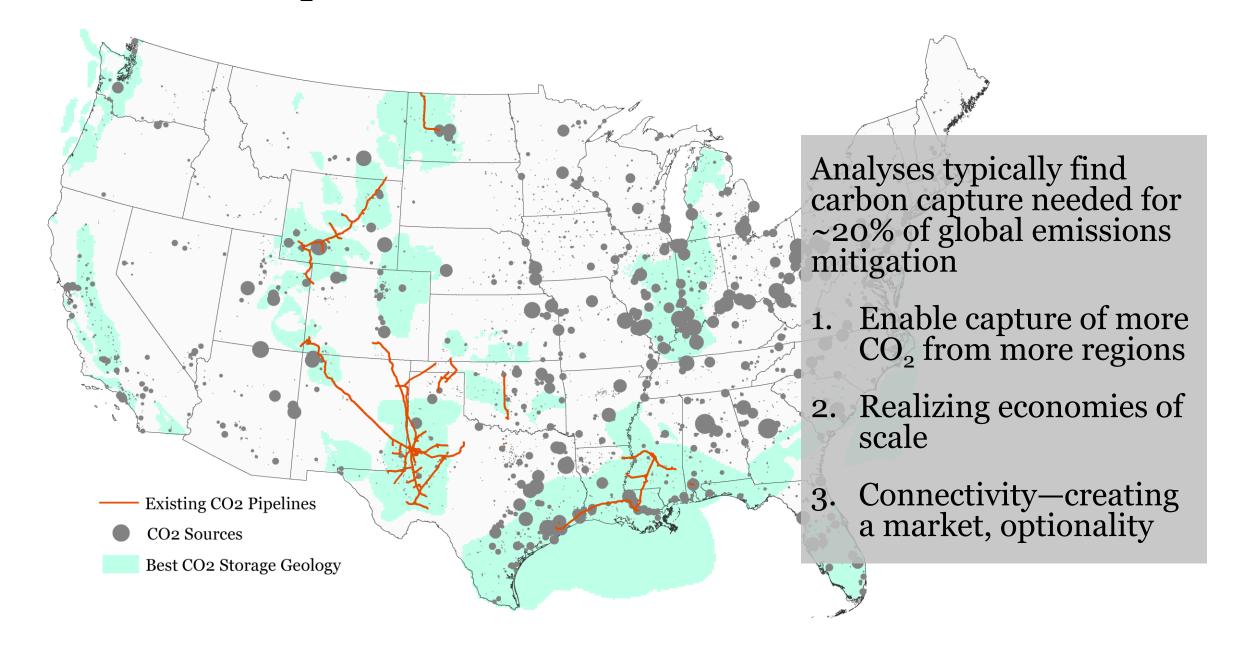
## Existing CO<sub>2</sub> Pipeline Infrastructure



## Importance of CO<sub>2</sub> Pipeline Infrastructure



# 2050 totals: 21,000 km trunk lines + 85,000 km spur lines (equivalent to ~22% of US natural gas transmission pipeline total)



### E+ scenario

929 million tCO<sub>2</sub>/v

106,000 km pipelines

Capital in service: \$170B

#### CO2 point source type

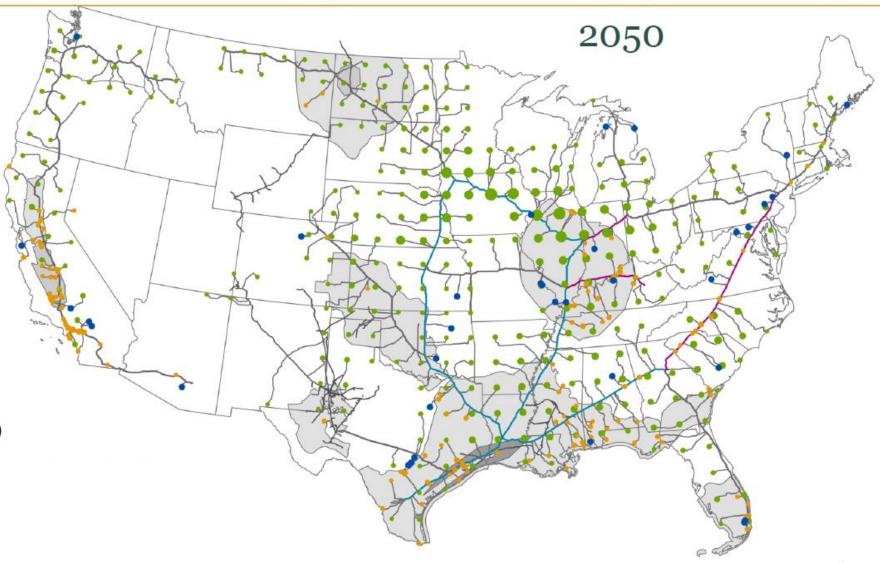
- CO2 point sources
- BECCS power and fuels
- Cement w/ ccs
- Natural gas power ccs oxyfuel

#### CO2 captured (MMTPA)

- 0.0006449
- 7.9144
- 15.8282
- 23.7419

#### Trunk lines (capacity in MMTPA)

- **——** 100 200









## **Transport Infrastructure for Carbon Capture and Storage**

WHITEPAPER ON REGIONAL INFRASTRUCTURE FOR MIDCENTURY DECARBONIZATION

Authored by

Elizabeth Abramson and Dane McFarlane

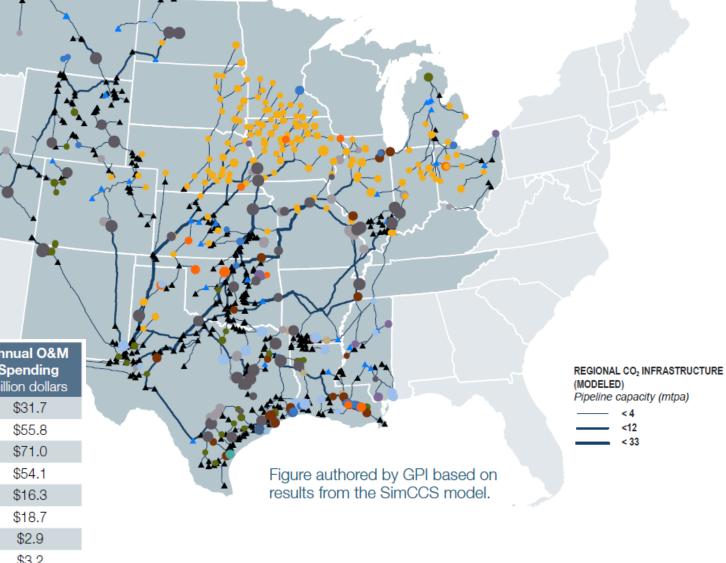
Great Plains Institute

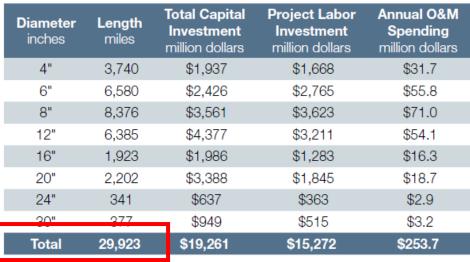
Jeff Brown
University of Wyoming

**JUNE 2020** 

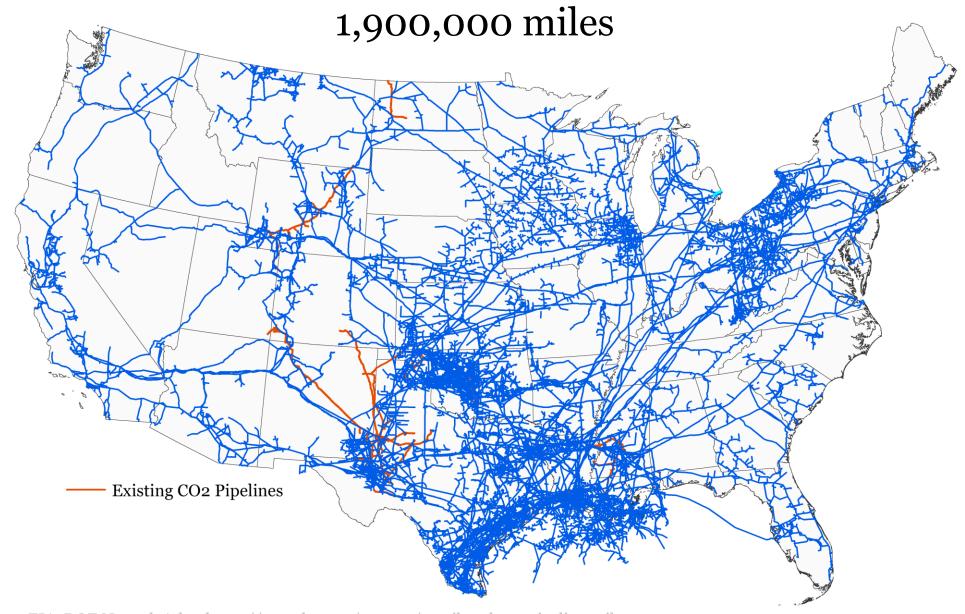


REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE





## Existing Oil and Gas Pipelines



## CO<sub>2</sub> Pipeline Infrastructure

