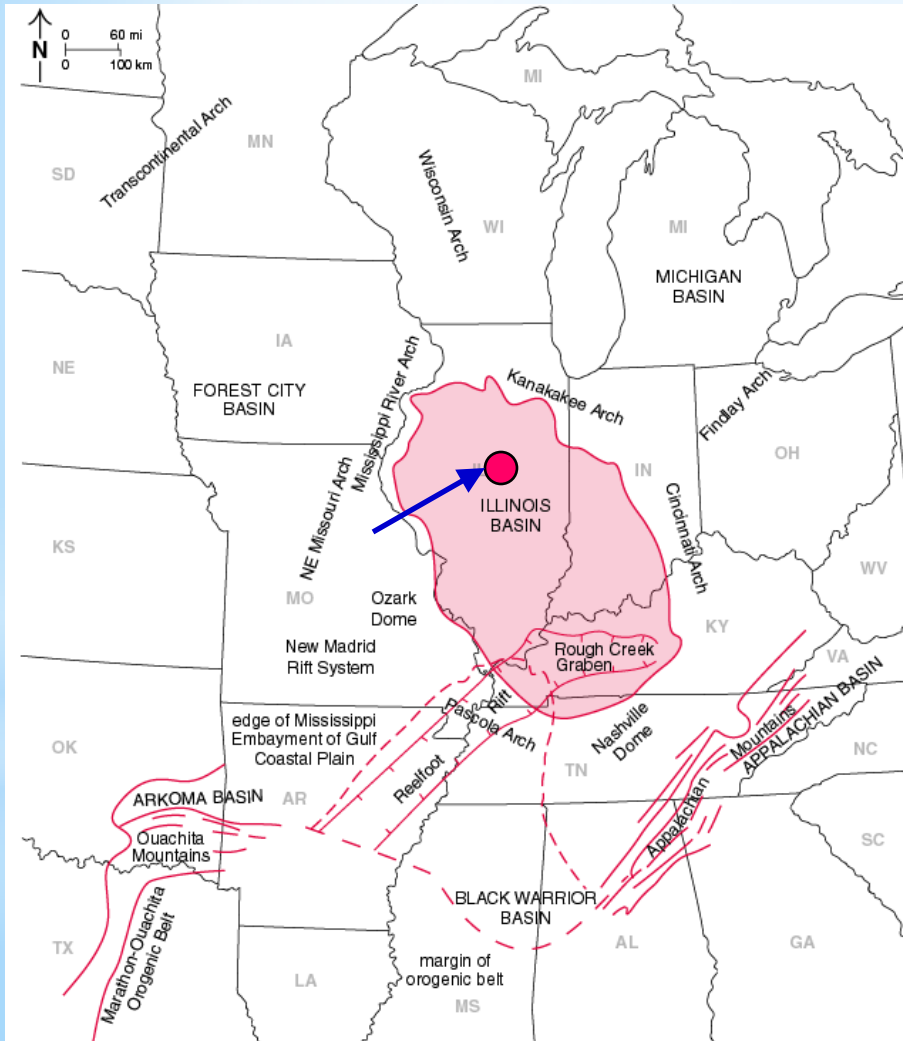




# Development of a 1-Million Tonne Demonstration of Carbon Sequestration from a Biofuel Source: The Illinois Basin - Decatur Project

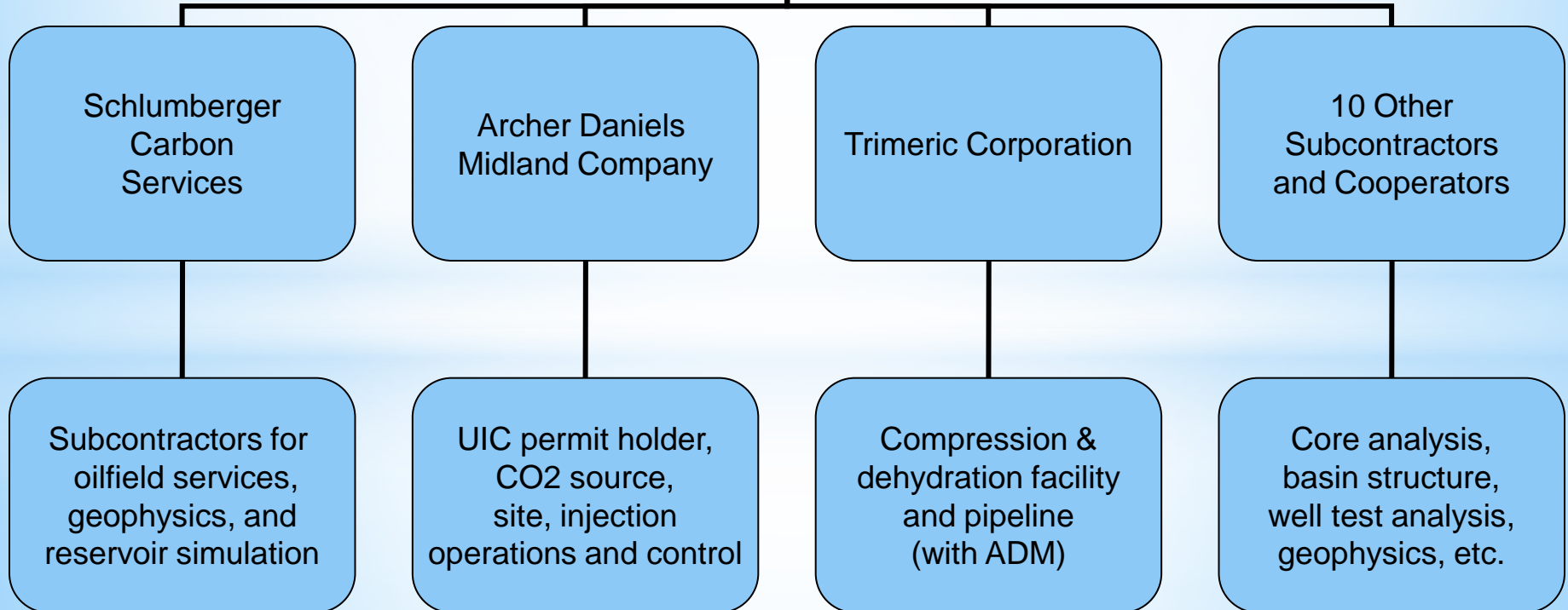
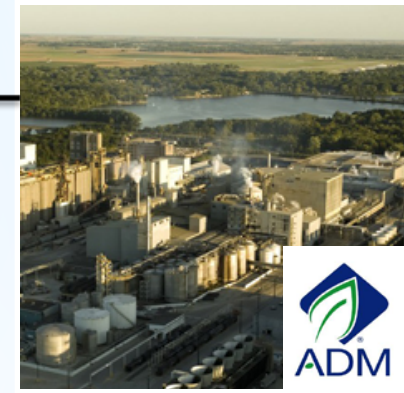
Robert J. Finley,  
Principal Investigator  
Midwest Geological Sequestration Consortium  
Illinois State Geological Survey  
University of Illinois  
CSLF June 2012

# Where: Illinois Basin - Decatur Project Scope



- A collaboration of the Midwest Geological Sequestration Consortium, the Archer Daniels Midland Company (ADM), Schlumberger Carbon Services, and other subcontractors to inject 1 million metric tons of anthropogenic carbon dioxide at a depth of 7,000 +/- ft (2,000 +/- m) to test geological carbon sequestration in a saline reservoir at a site in Decatur, Illinois

# Who: Illinois Basin-Decatur Project Organization



# When: Illinois Basin - Decatur Project

## Major Project Elements MGSC Phase III

- UIC permitting: January 2008-ongoing
  - Application, hearing, minor modification, major modification
- Injection well drilled: February-May 2009
- Geophone well drilled: September-November 2009
- Baseline 3D seismic survey completed: January 2010
- Compression/dehy/pipeline facility: design, procure, construct, test: February 2009-October 2011
- Monitoring well drilled, completed: September-November 2010, March-June 2011
- Authorization to inject: November 2, 2011
- Operational: November 17, 2011



# Illinois Basin- Decatur Project Site

(on ADM industrial site)

- **A** Dehydration/  
compression facility  
location
- **B** Pipeline route (1.9 km)
- **C** Injection well site
- **D** Verification/  
monitoring  
well site
- **E** Geophone well





Midwest Geological  
Sequestration Consortium  
[www.sequestration.org](http://www.sequestration.org)  
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Photo credits: Daniel Byers