

# **CSLF – US Presentation**

## **Needs Analysis for Carbon Sequestration**

**Howard Herzog**

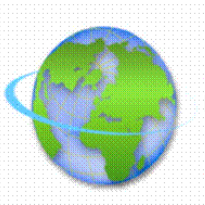
**January 20, 2004**



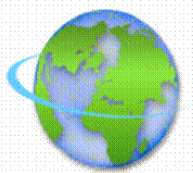
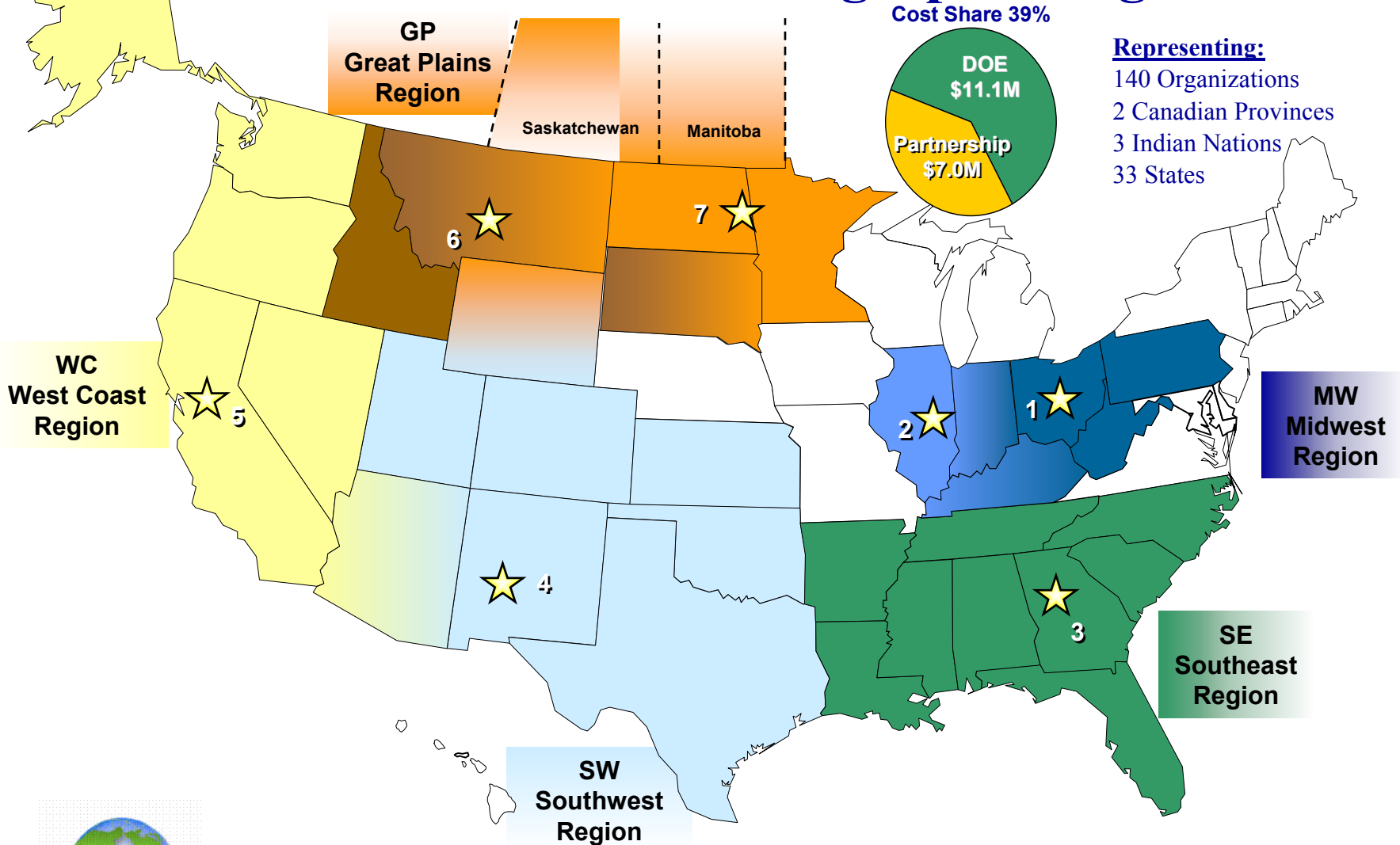
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# DOE/FE Carbon Sequestration Research Program Components

- **Core R&D**
  - Separation and Capture
  - Sequestration (Direct + Indirect)
  - Measurement, Monitoring & Verification
  - Non-CO<sub>2</sub> GHG Control
  - Breakthrough Concepts
- **Infrastructure**
  - Regional Partnerships
- **Integration**
  - FutureGen



# Seven Regional Carbon Sequestration Partnerships Established in Five Geographic Regions



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# Regional Partnerships Tasks

- **Characterize the Region.**
- **Identify and Address Issues for Technology Deployment (e.g., legal, regulatory, financial).**
- **Develop Public Involvement and Education Mechanisms.**
- **Identify the Most Promising Capture, Sequestration and Transport Options.**
- **Prepare Action Plans for Implementation and Technology Validation Activity.**



# Two-Phased Approach

## Phase I (Planning)

- 7 Projects
- 18-24 months
- ~\$1.5 million per project
- Overall ~ 40% cost share
- 2 exceed 50% cost share



## Phase II (Proof-of-Concepts)

- 5-7 years
- \$5-\$7 million per year/project
- 30-35% cost share
- 4 to 5 Regions



# Critical Synergy With Carbon Sequestration Program

