



Great Northern

LANDSCAPE CONSERVATION COOPERATIVE

GNLCC Goal:

Coordinate, facilitate, promote and add value to large landscape conservation to build resource resilience in the face of climate change and other landscape-level stressors through:

- Support Science Development
- Effect Coordination
- Inform Conservation Action
- Monitor and Evaluate
- Communicate and Educate



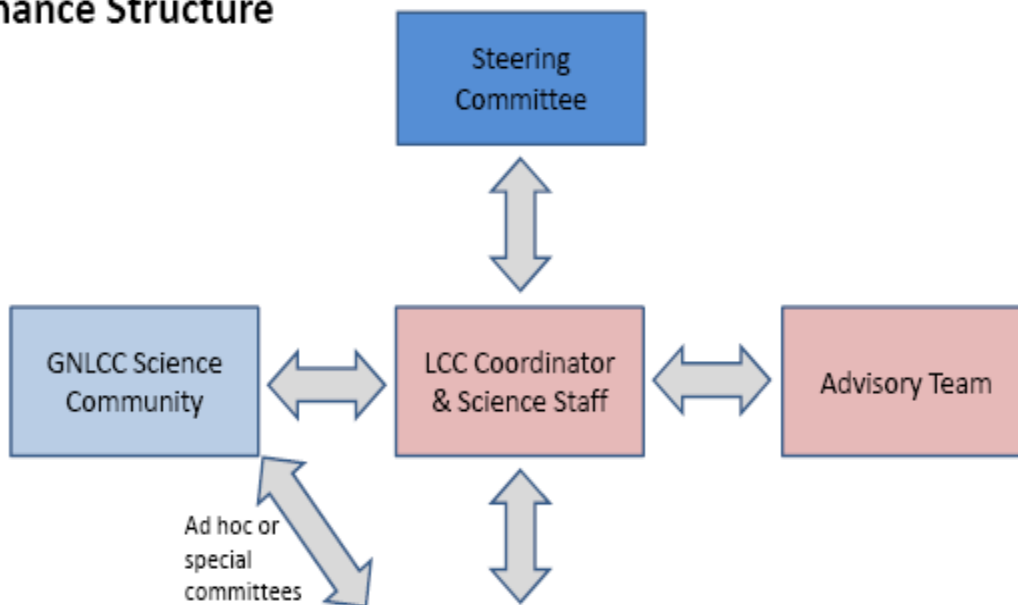
A Strategic Conservation Framework

DRAFT

November 2011

Great Northern Landscape Conservation Cooperative

Governance Structure



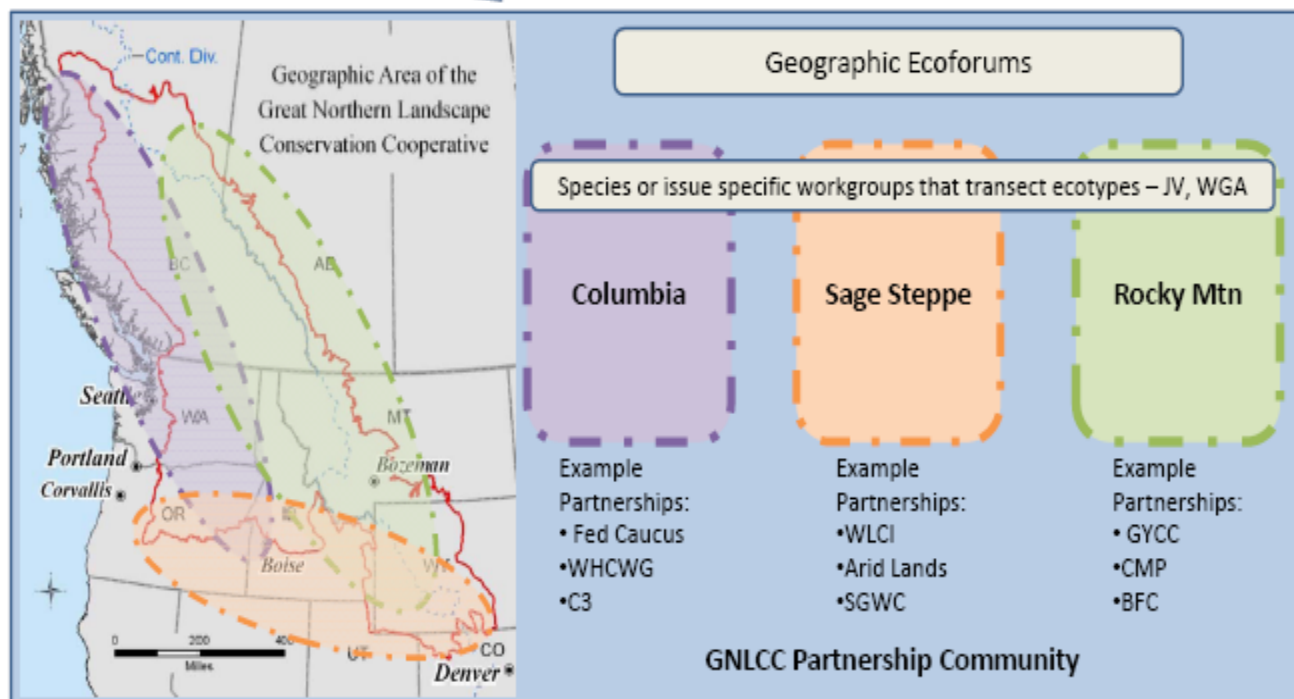
FUNCTIONS

Steering Committee or Executive Council

1. Set vision, Goals and Priorities for GNLCC
2. Provide direction to the GNLCC Coordinator and Staff
3. Approve Long-term Strategy and Operations
4. Approve GNLCC capacity needs
5. Approve funding for annual workplan including priority setting process

GNLCC Coordinator and Staff/ Advisory Team

1. Promote and communicate long-term vision
2. Develop and write long-term strategy and annual workplans
3. Coordinate science and information needs
4. Develop and implement process for operations
5. Develop annual workplan recommendations
6. Develop and revise Long-term Strategy
7. Coordinate, communicate and provide outreach to Science and Partnership Communities



GNLCC Leadership

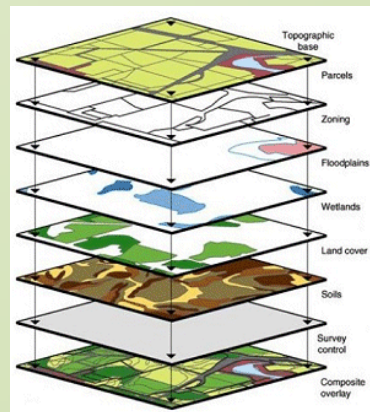
Steering Committee Participation

Alberta Sustainable Resource Development	National Oceanographic and Atmospheric Administration
Alberta Parks Divison	Natural Resource Conservation Service
British Columbia Ministry of Environment	Montana Fish, Wildlife and Parks
B.C. Ministry of Forest, Lands, and Natural Resource Operations	Oregon Department of Fish and Wildlife
Bureau of Indian Affairs, Rocky Mountain Region	US Fish and Wildlife Service, Pacific Regional
Bureau of Land Management	US Fish and Wildlife Service, Mountain-Prairie Region
Bureau of Reclamation Pacific NW Region	US Forest Service Intermountain Region
Canadian Wildlife Service, Environment Canada	US Forest Service Northern Region
Columbia Basin Federal Caucus	US Geological Survey
Confederated Salish---Kootenai Tribes	Waterton Lakes NP, Parks Canada
Confederated Tribes of the Umatilla Indian Reservation	Western Association of Fish and Wildlife Agencies
Heart of the Rockies Initiative	Wildlife Conservation Society
Idaho Fish and Game	Wyoming Game and Fish
National Park Service	Yakama Indian Nation
Nez Perce Tribe	

GNLCC Science Priorities

2010 - 2011

- Habitat Connectivity
- Aquatic Integrity
- Climate Change
- Data Integration
- Partnership Development
- Outreach



A Strategic Approach

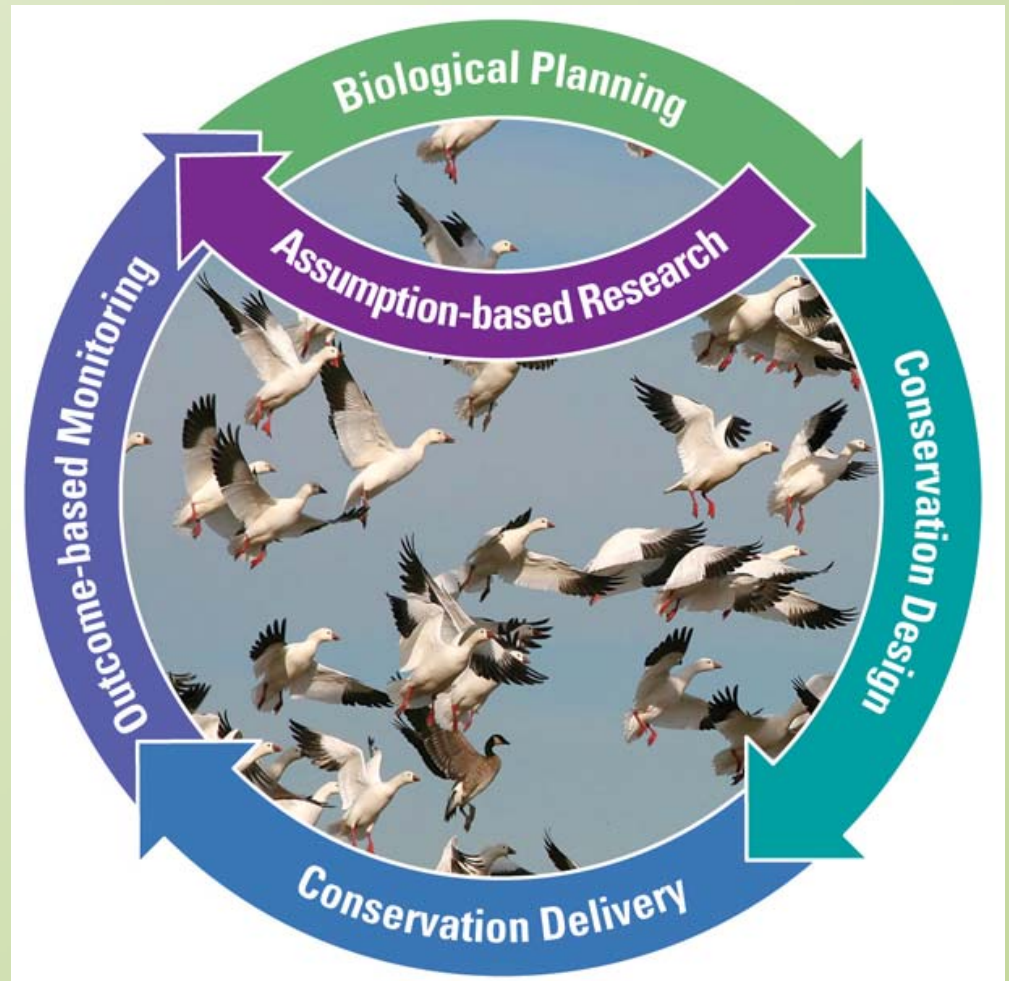


A Strategic Conservation Framework

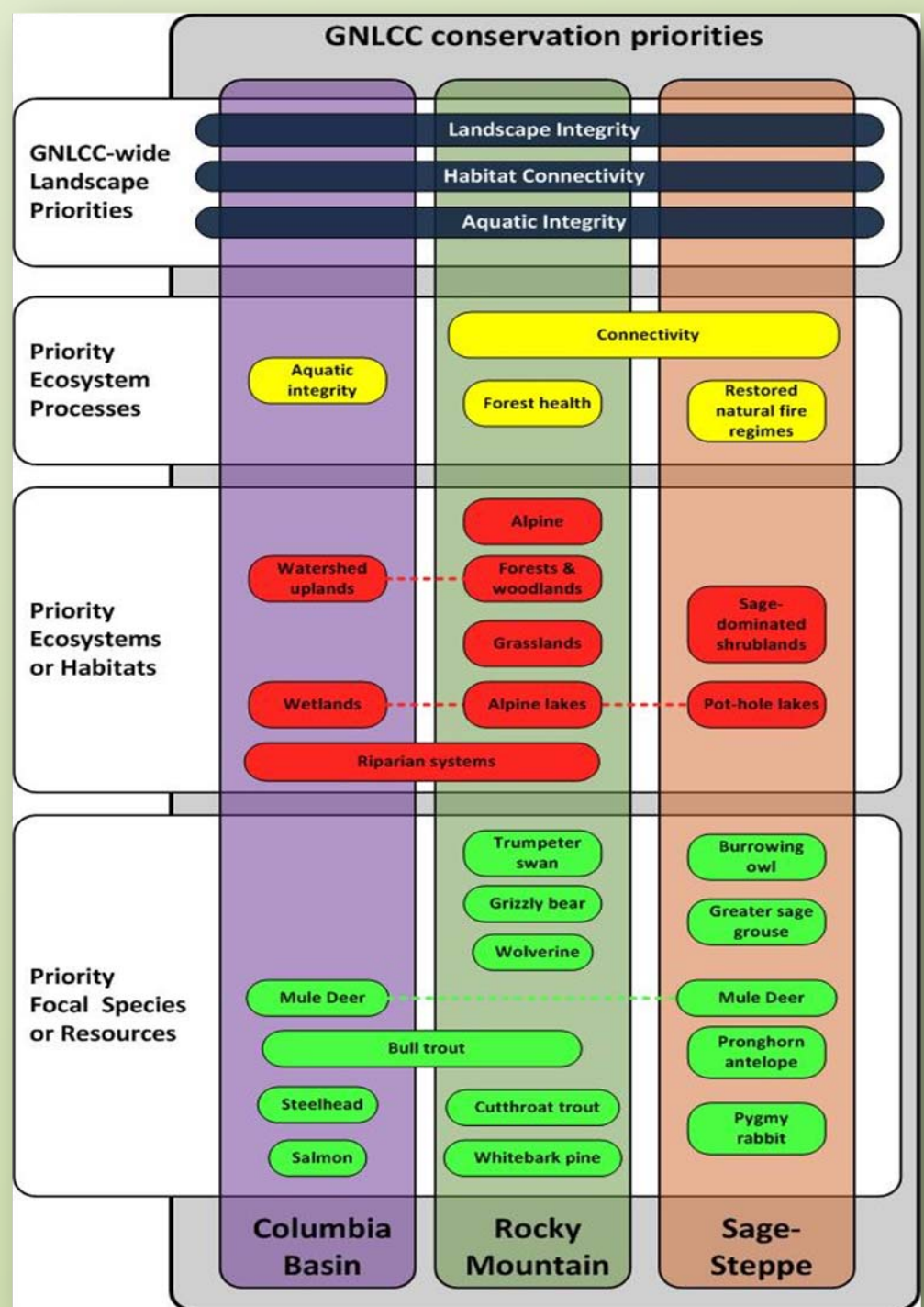
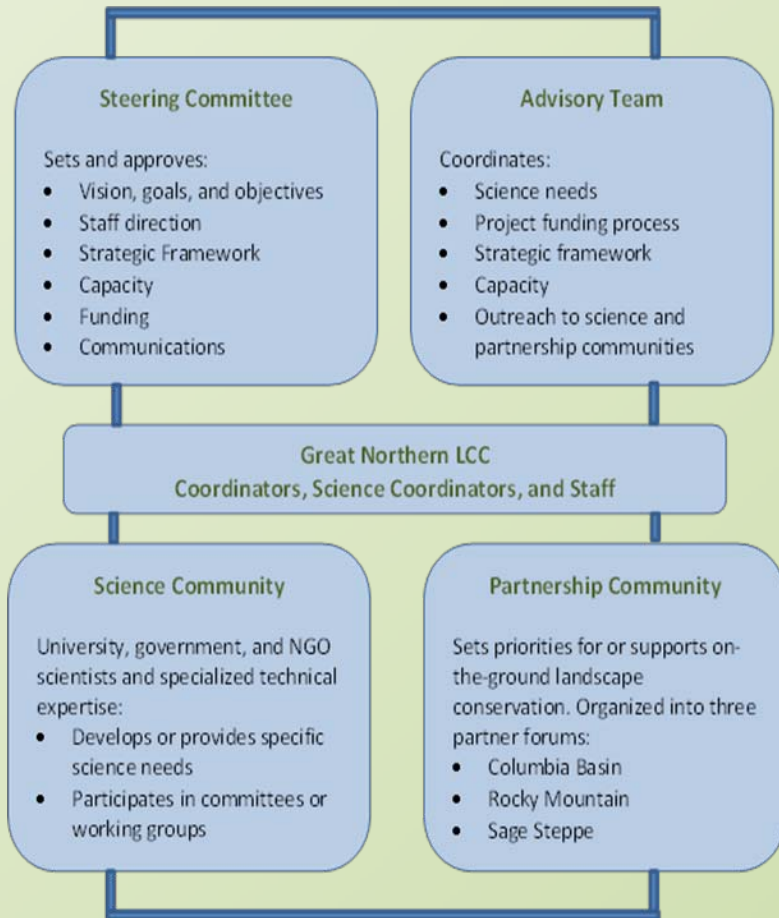
DRAFT

November 2011

Refine conservation priorities
Identify/employ tools and data
Gap Analysis to identify needs
Conduct needed Science
Coordinate Management Actions
Monitor and Evaluate
Improve, refine, and adjust



Refined Conservation Priorities



GNLCC Vision:

The Great Northern Landscape Conservation Cooperative is committed to land, water, and wildlife conservation across the landscape through inter-organizational, collaborative science and management.

GNLCC Goal: Build resource resilience and inform sustainable resource management in the face of landscape stressors

Strategic Framework:

- Identifies conservation targets
- Details action plan for goal achievement
- Based on existing planning documents and SC interviews

Partner Forums

Columbia Basin

Upper Columbia River, tributaries and river valley ecology

Rocky Mountain

Mountain forests, alpine and high relief ecotypes

Sage Steppe

Arid lands, high-elevation prairies and deserts



GNLCC Climate-related Projects

2010-2011, GNLCC funded 14 climate science and data delivery projects totaling \$1.67 million

Title	Funds
	in thousands
Assemblage, Format and Delivery of Downscaled Climate Data and Projections for the GNLCC	\$ 30
Development of a Regional Stream Temperature Model for Mapping Thermal Habitats and Understanding Effects of Climate Change in Pacific Northwest Streams	\$122
Forecasting the impacts of Climate Change in the Columbia River Basin: Threats to Fish Habitat Connectivity	\$130
Development of a Transboundary Decision Support System to Guide and Implement Conservation, Land Use, Energy, Transportation, and Climate Change Management and Monitoring	\$135
Applying Vulnerability Assessment Tools to Plan for Climate Adaptation: Case Studies in the Great Northern LCC	\$ 95

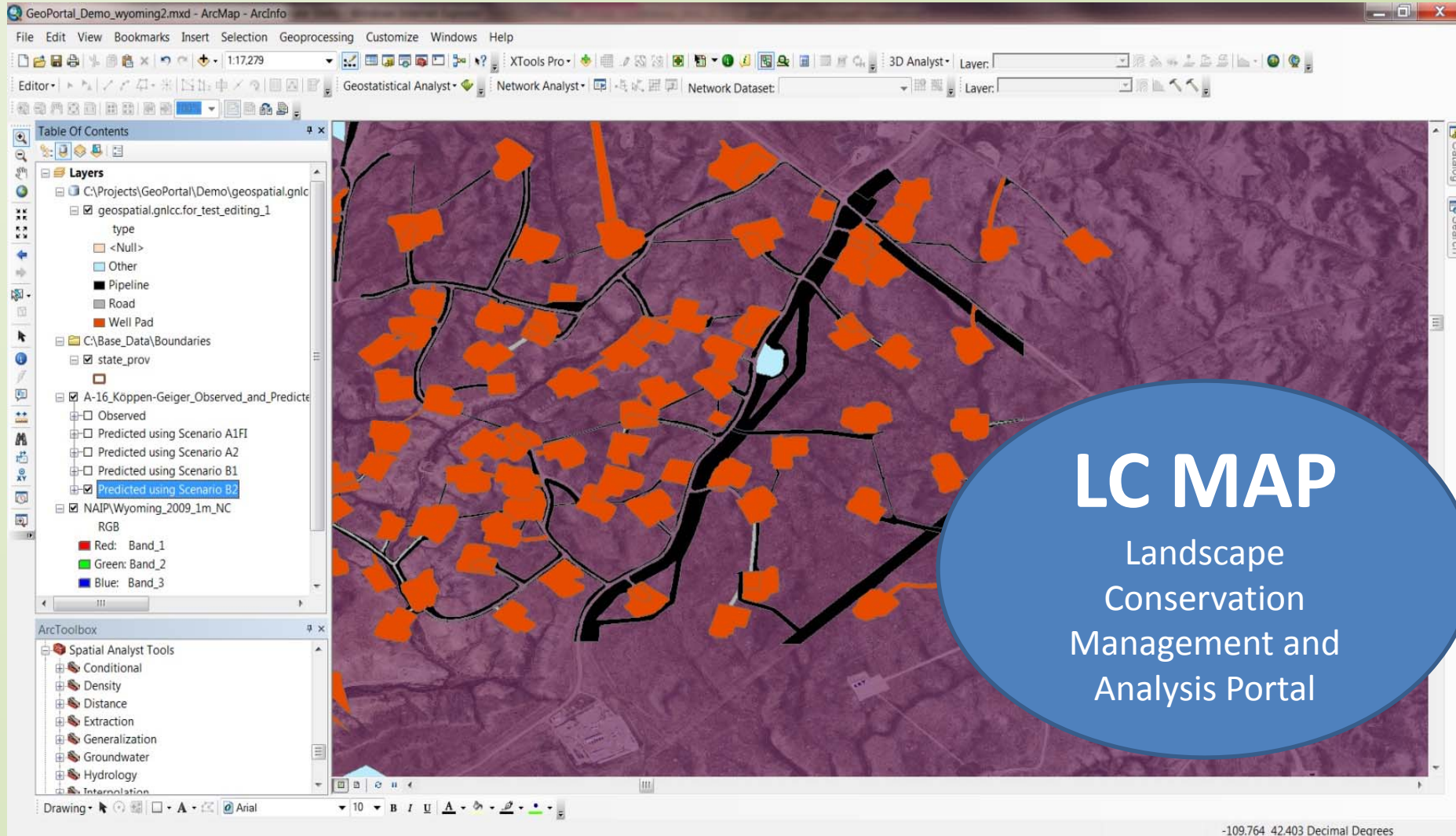
GNLCC Products: Completion Update

2010-2011, GNLCC funded 28 science projects totaling \$2.4 million

Products (as of 7/15/11)	Funded	Completed
Digital Data		
Spatial data/databases	>325	235
Maps	> 28	19
Tables	6	3
Tools		
Spatial Analysis	6	1
Decision Support	5	
Models	5	
Information / Training	7	1
Reports	29	3
Peer-reviewed Publications	17+	1
Workshops	8	3

Tools of Success

Data discovery, sharing, management, analysis



LC MAP

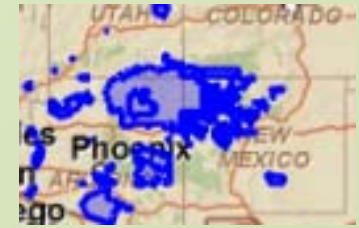
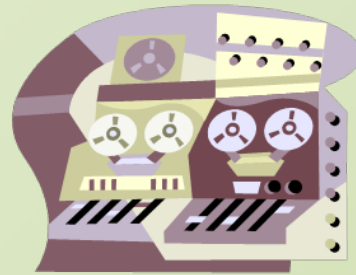
Landscape
Conservation
Management and
Analysis Portal



Federal Management Agency



Network



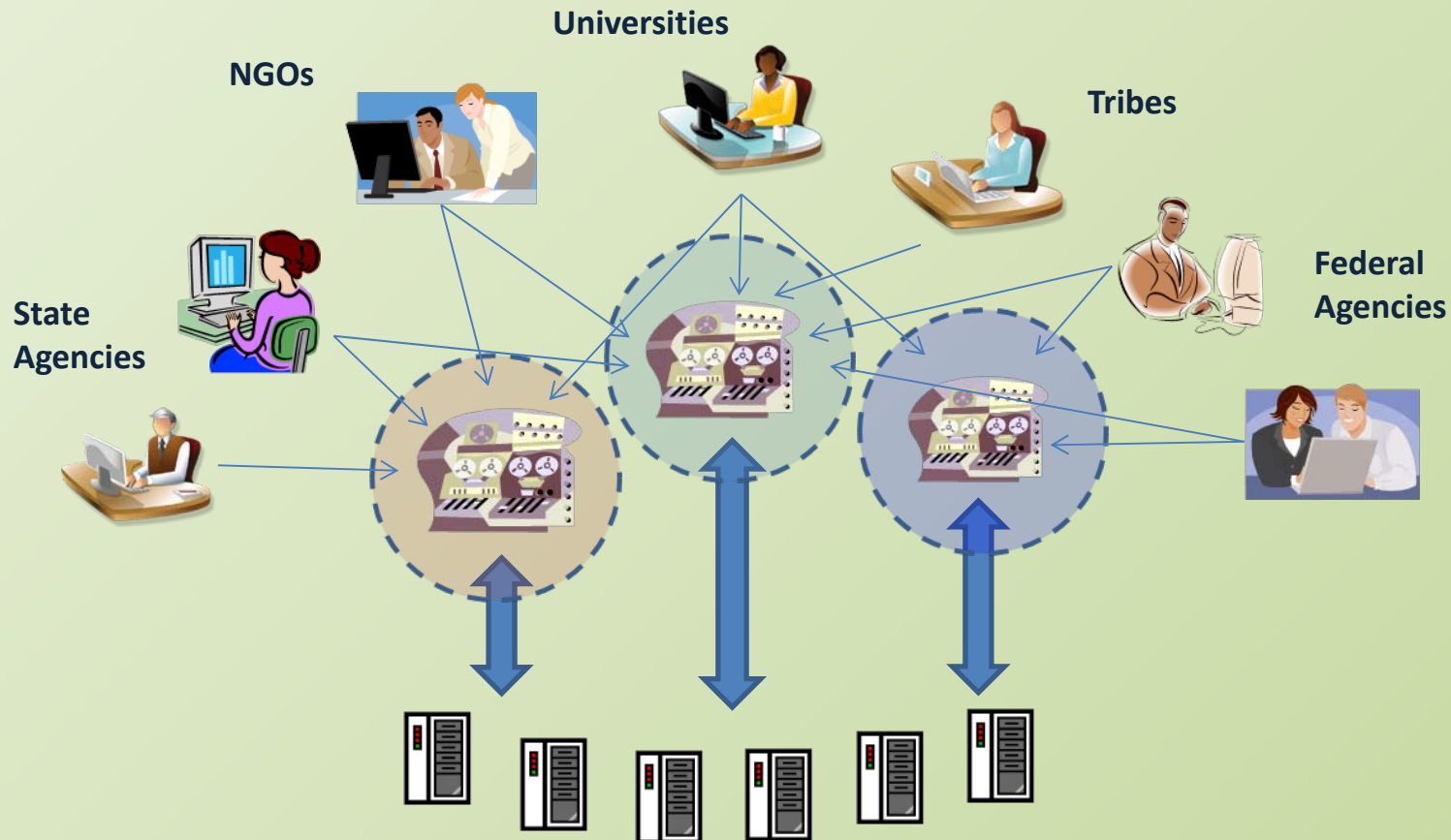
Firewall



Stakeholder/Partner

From Paradigm to Practice

An integrated network of people, hardware and software:



that facilitates real-time information sharing, processing, and delivery while honoring the contributions, mandates, and securities of all partners

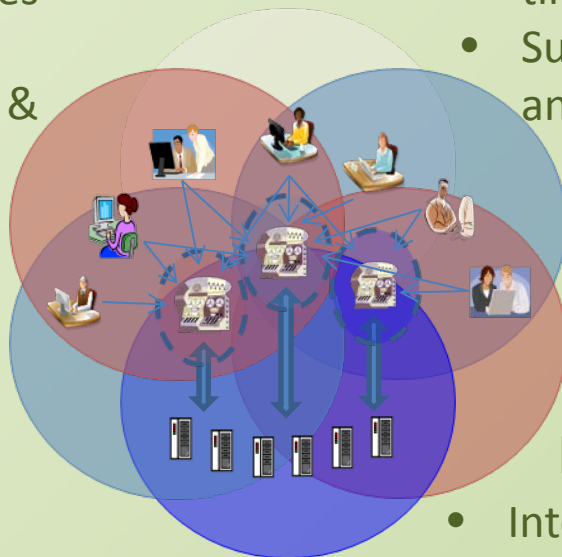
LC MAP: Conservation through Digital Networking

Discovery & Acquisition

- Search broadly for source data
- Access common data themes (lineages, versions)
- Efficiently vet data for uses & limitations

Analysis & Modeling

- Shared work environment for real-time, distributed collaboration
- Supporting communication pieces an “open door”
 - Automated metadata updates



Storage & Sharing

- Data stored/delivered from readily accessible (and replicated) sources
- Common workspaces set up and managed for project-level data
- State-of-the-art documentation and data manipulation tools
- Data security inherent in distributed system

Delivery & Outcomes

- Integrated QA/QC tools
- Fine-tune control of data sharing and publication
- Flexible output formats, easily ingestible by most data viewers
- User-friendly visualization interface (coming soon!)

How to get Involved



Great Northern
LANDSCAPE CONSERVATION COOPERATIVE

Search

HOME ABOUT PARTNER FORUMS RESOURCES EVENTS SUPPORTED SCIENCE DEMO PROJECTS CONTACT US

www.GreatNorthernLCC.org

The Great Northern Landscape Conservation Cooperative is an all-landscape conservation effort within the Great Northern geographic area.

Partner Forums:

Columbia Basin, Shrub Steppe, Rocky Mountain

Webinars: live (once a month), streamed, or schedule to present

LC MAP: data discovery, storage, documentation, and analysis tools in an integrated environment

2012 Request for Proposals (February)

Partners: sean_finn@fws.gov

Showcase Your Work

We'd like to showcase your

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