

NEMO & The National NEMO Network



- NEMO Background
- "Success?!" Elements



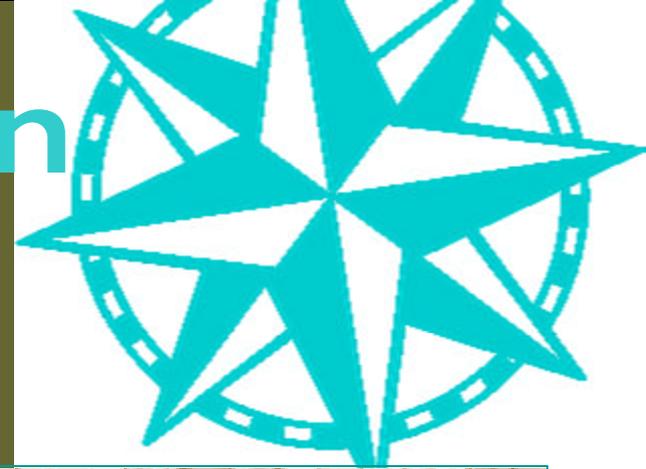
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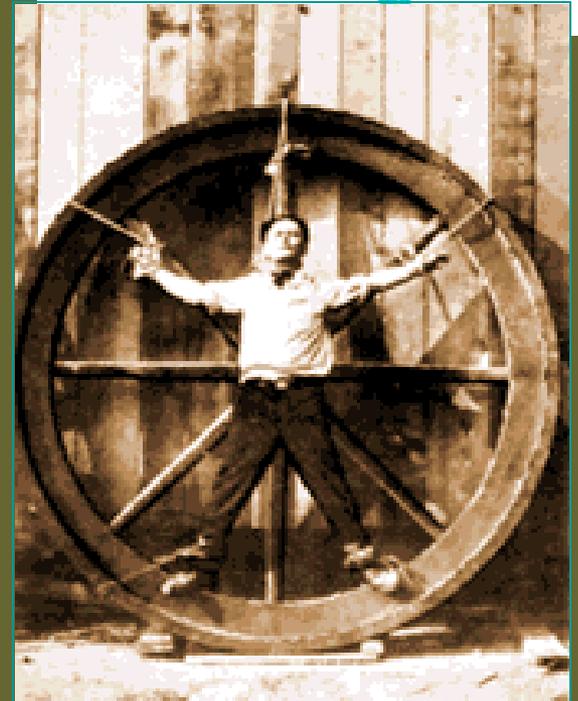
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Nonpoint Education for Municipal Officials



- University of Connecticut
- Established 1991-1992
- CT staff = 3-4 people
- National staff = 2 people
- Supported mostly on grants



Early NEMO workshops included innovative techniques to ensure participation.



NEMO

Nonpoint (Source Pollution)

The #1 water quality problem in the U.S.

NEMO Education

Education \neq



NE MO

Municipal Officials



Is this the
best place
for this
subdivision
?



Is this the
last
wetland in
town?

The Target Audience



Local land use decision makers

- Legal Mandates
- Full Plate
- High Turnover
- Complexity of Environmental Issues
- Inability to Track Cumulative Impacts



NEMO's Goal

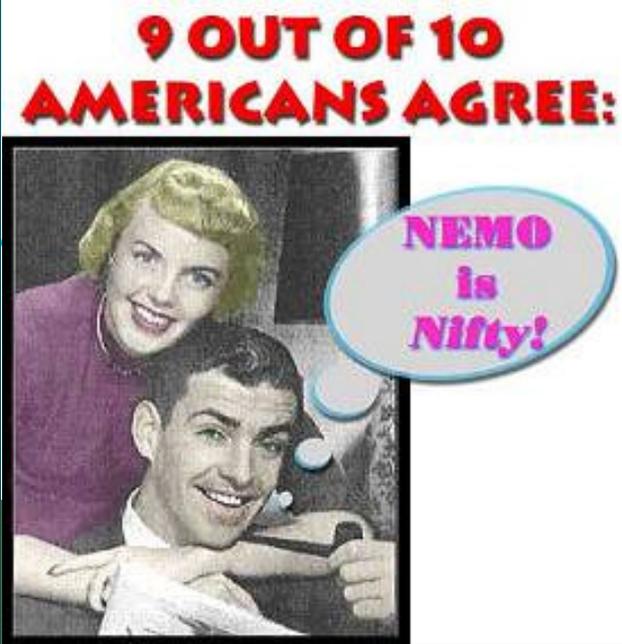


Catalyze land use decision makers to:

- Ask the right questions
- Put development in greater context
- Get started on natural resource-based planning



The Message



- Natural resource-based planning
- You can do this!
- Planning as self-determination



Natural Resource Based Planning

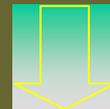
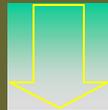


inventory natural/cultural resources



- open space plan
- economic development plan

Plan of Cons. & Development



review/change land use regs & policies

Modus operandi nemoidi

- We go to them
- We keep it brief
- We go only where invited!
- We try to bring all the boards together
- We make (judicious) use of geospatial technology

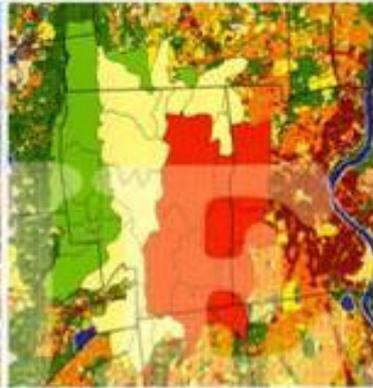
CT NEMO team in action



It Works



Putting Communities in Charge

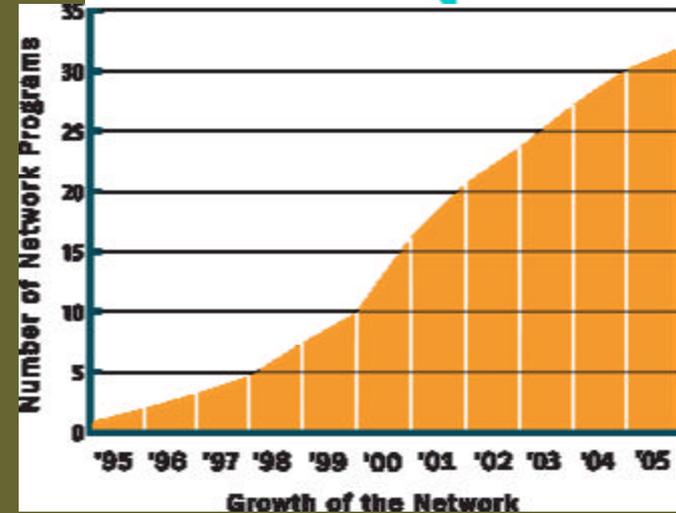
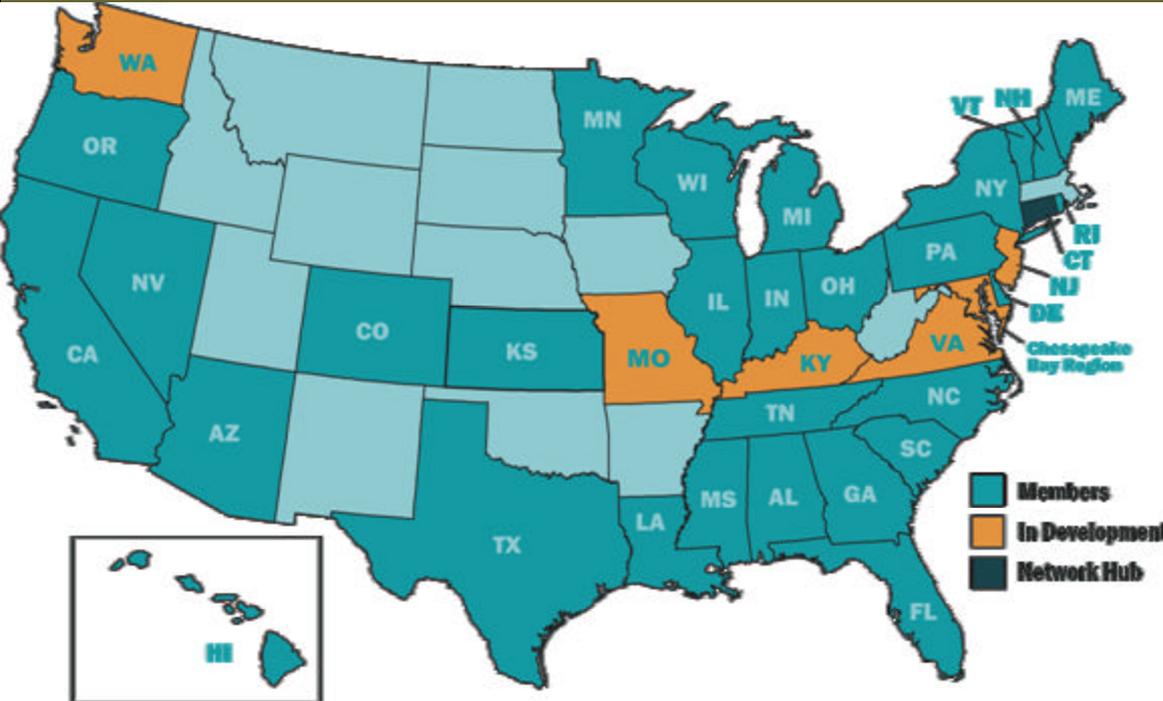
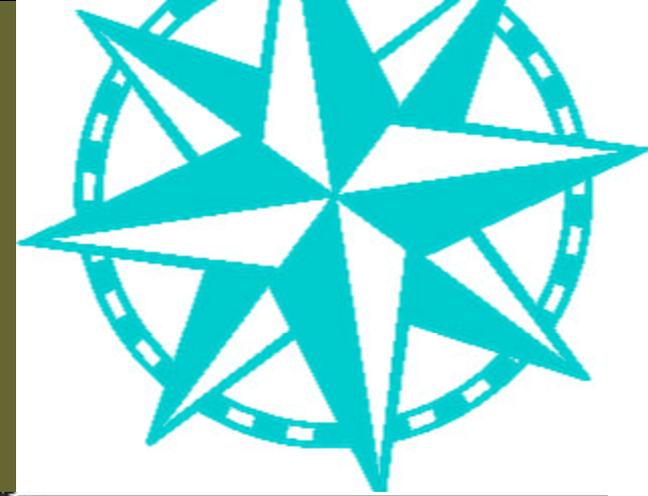


A progress report on an educational support system for local land use decision makers

Nonpoint Education for Municipal Officials

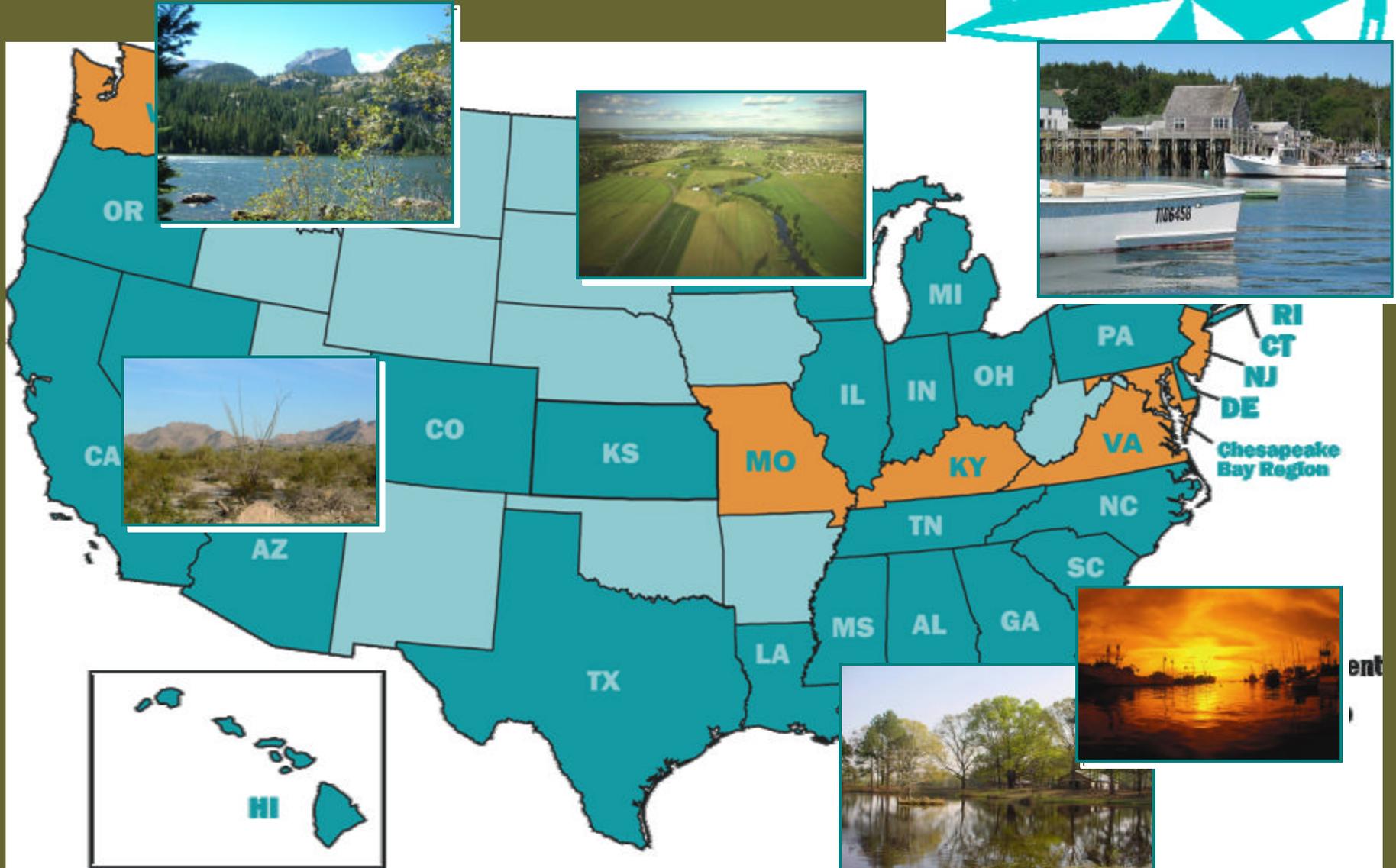


Going National



A group of **educational** projects focused on the relationship of **land use** to natural resource protection, **sharing** information, materials and educational models.

Connecticut ? GA



NEMO Family Values

➤ The **IMPACT OF LAND USE** on water resources is the issue



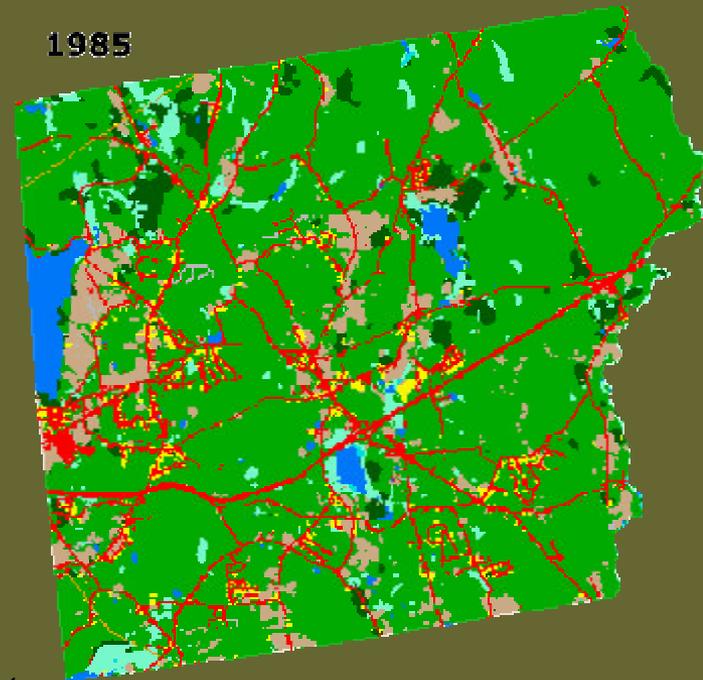
➤ **LOCAL LAND USE DECISION MAKERS** are the target audience

➤ **EDUCATION** is the method

➤ **NATURAL RESOURCE-BASED PLANNING** is the solution offered

➤ **GEOSPATIAL TECHNOLOGY** is used to enhance the education

1985

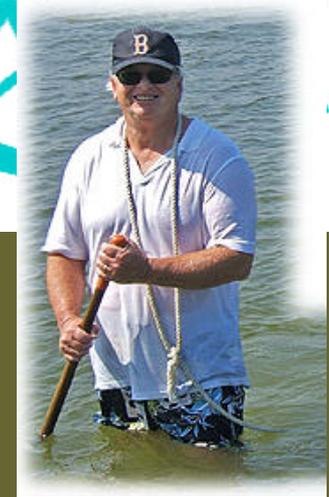


Coordinating the Network



Coordinator Dickson

Founders:



**Communicator
Kara Bonsack**

Funders:



2005-2006: \$153,000

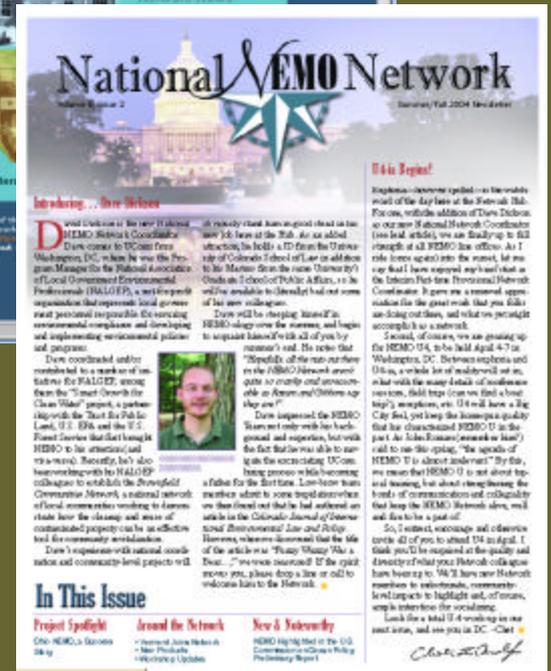
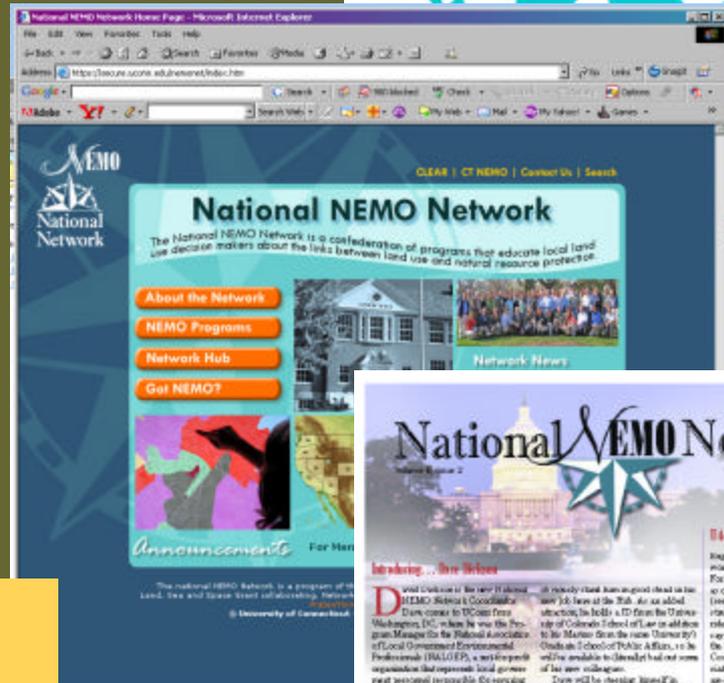
Getting Started

- Scoping Workshops
- Publications
- Starter Kit



Connecting Programs

- Listserv
- Website
- Sharing Libraries
- Newsletter
- NEMO U



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Collaborative - Inter-Agency Work Group



EPA Coastal Management

EPA Nonpoint Source

EPA Smart Growth

USDA CSREES

NOAA Coastal Management

NOAA Coastal Services Center

NOAA Sea Grant

NASA Space Grant

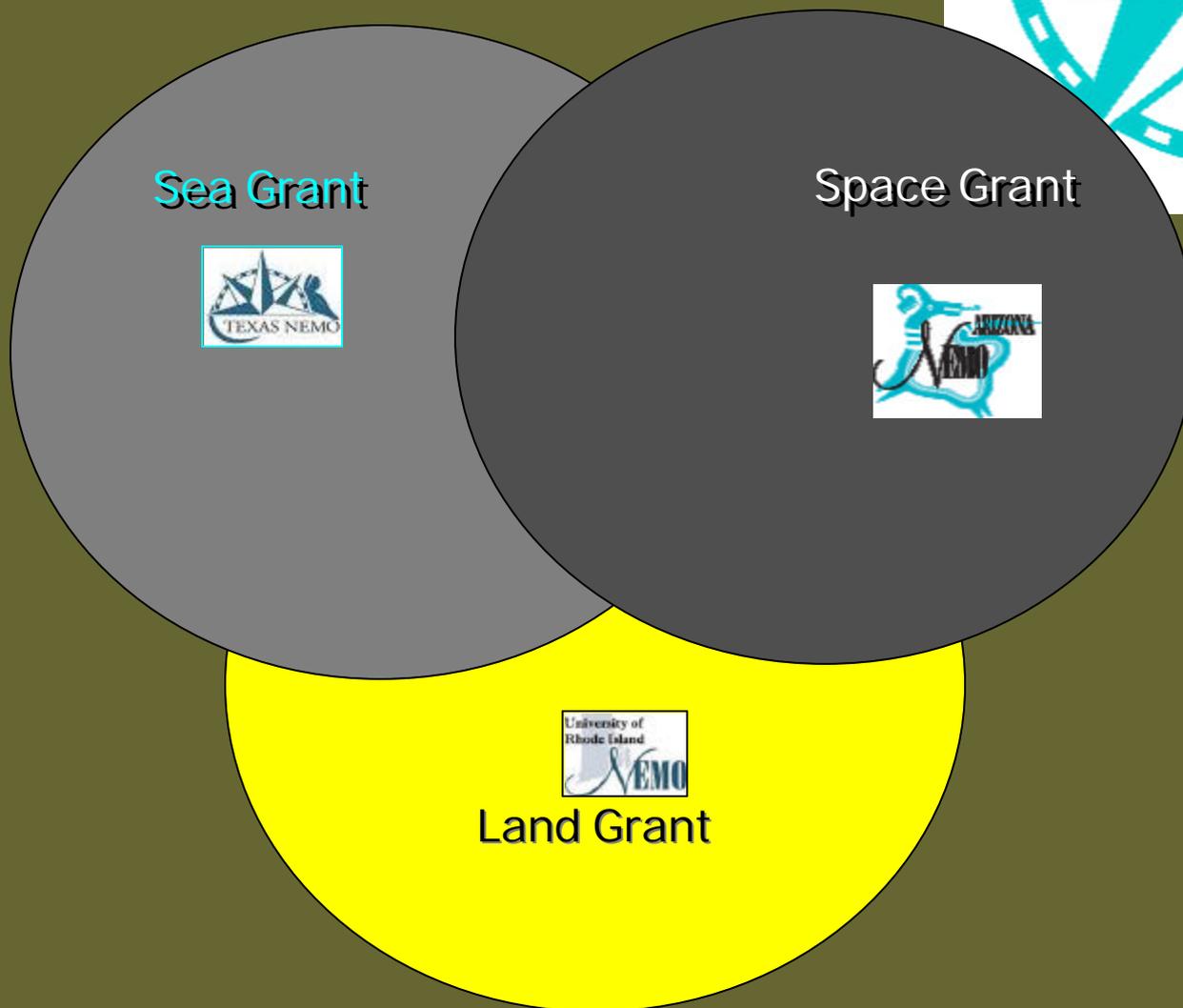
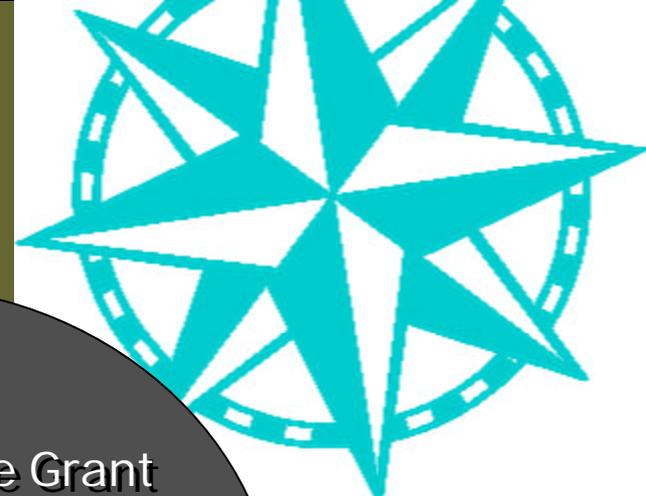
NASA Office of Earth Science

APA

NADO

NACo

Collaborative



National Network USDA Cooperative States Research, Education and Extension Service, Earth Science, NOAA National Sea Grant College Program, NOAA Office of Ocean and Coastal Resource Management, US EPA Office of Policy/Smart Growth, US EPA Office of Water/Nonpoint Source Control, US Conference of Mayors, American Planning Association, National Association of Counties, National Association of Development Organizations, NOAA Coastal Services Center, Center for Watershed Protection, Station Committee on Policy (ESCAP), USDA Land Grant University National Environmental Quality Initiative (SUNEI) Team • Alabama-Mississippi-Florida Sea Grant Consortium, Alabama Cooperative Extension System (Auburn University), Alabama Sea Grant, Alabama Clean Water Partnership, Regional Planning Commissions, USDA NRCS Resource Conservation and Development Councils, Alabama League of Municipalities, Alabama Water Watch, Alabama Drinking Water Management Authority, Alabama Department of Environmental Management, Regional Planning Commission Greater Birmingham • Arizona University of Arizona Cooperative Extension, Arizona Department of Environmental Quality, Arizona Water Resources Research Center • California California Coastal Commission, California State Water Resources Control Board, University of Southern California Sea Grant Program, Resource Conservation Districts, Mission Resource Conservation District, Local Government Commission, California Department of Water Resources, National Oceanic and Atmospheric Administration (NOAA) • Colorado Colorado League of Women Voters, Colorado State University Cooperative Extension, Colorado Department of Health and Environment • Connecticut University of Connecticut Sea Grant, University of Connecticut Cooperative Extension, University of Connecticut Natural Resources Management & Engineering Department, CT Department of Environmental Protection, Center for Land Use Education and Research (CLEAR), USDA Cooperative State Research, Education and Extension Service (CSREES), US Environmental Protection Agency Nonpoint Source Control Branch, NASA, U.S. Fish and Wildlife Service (The Hub thanks the Three Stooges for much creative inspiration) • Delaware University of Delaware Sea Grant, University of Delaware Cooperative Extension, Greater Lewes Foundation, Delaware Coastal Management Program • Georgia University of Georgia (UGA) Marine Extension Service, Georgia Sea Grant College Program, Georgia Department of Natural Resources Coastal Resource Division, Sapelo Island National Estuarine Research Reserve, Georgia Dept. Environmental Protection Division, UGA Driftmier Agricultural Engineering Center, UGA Department of Marine Science, Altamaha Riverkeeper, Coastal Georgia Regional Development Center, Center for a Sustainable Coast, Coastal District of the Georgia Conservancy, Natural Resources Coastal Analysis Team, Hawaii University of Hawaii Sea Grant, University of Hawaii Center for Smart Building and Community Design, USDA Natural Resources Conservation Service • Illinois University of Illinois Cooperative Extension, Illinois Environmental Protection Agency, Illinois Department of Natural Resources • Indiana Indiana Sea Grant College Program, Department of Forestry & Natural Resources, Purdue University Land Use Team, Purdue Cooperative Extension, Indiana Department of Natural Resources, USDA Natural Resources Conservation Service, Soil & Water Conservation Districts, Indiana Land Resources Council • Kansas Kansas Biological Survey, Kansas State University Research and Extension Department • Louisiana Louisiana State University Sea Grant, LSU Cooperative Extensions • Maine Partnership for Environmental Technology Education (PETE), Maine Department of Environmental Protection, Maine State Planning Office/Coastal Program, Maine Sea Grant, Wells National Estuarine Research Reserve, College of the Atlantic, Union River Watershed Coalition, Maine Drinking Water Program, University of Maine Cooperative Extension, Lakes Environmental Association, Cumberland County Soil and Water Conservation District, Maine Department of Marine Resources • Michigan Michigan Sea Grant, Michigan State University Cooperative Extension, Michigan Society of Planning • Minnesota Minnesota Erosion Control Association, Metropolitan Council Environmental Services, Metropolitan Council Community Development, Minnesota Department of Natural Resources, University of Minnesota Extension, University of Minnesota Water Resources Center, Minnesota Pollution Control Agency, Minnesota Sea Grant Program, Minnesota Association of Soil & Water Conservation Districts

Collaborative



Each NEMO Network Project is a multi-agency consortium in its own right

Visible



Landscape

1. Landscape research



2. Tools & Training

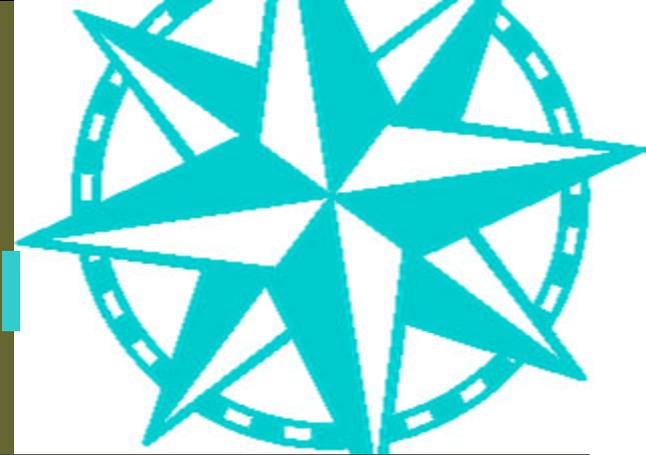


3. Outreach Education



Land Use
Decision Makers

Visible: NEMO's Educational Arsenal



Publications

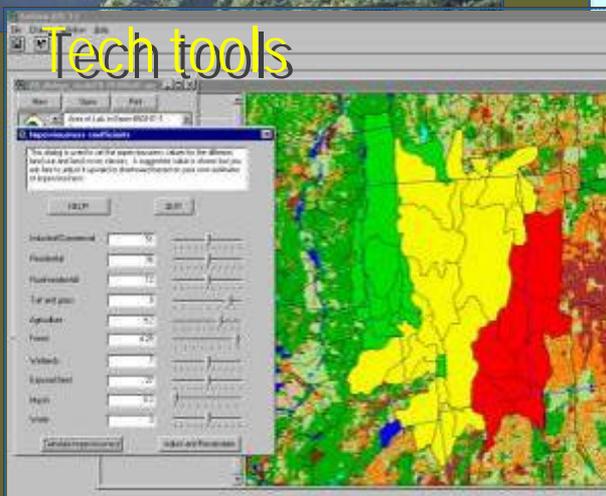


Web

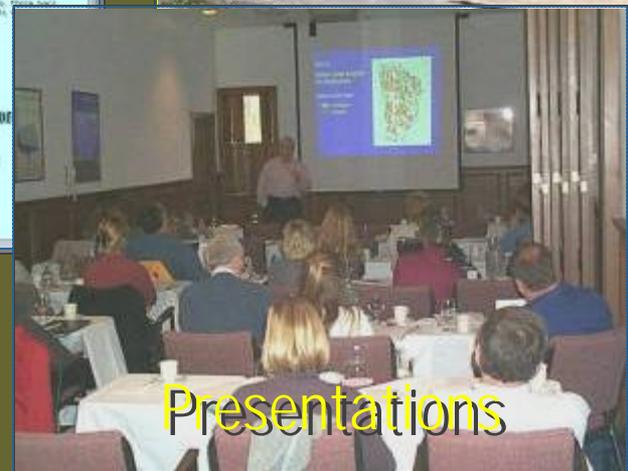
Demo Projects



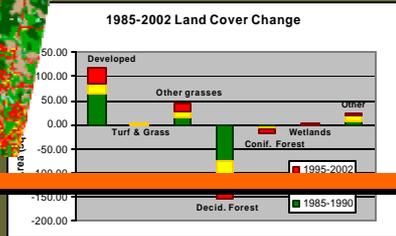
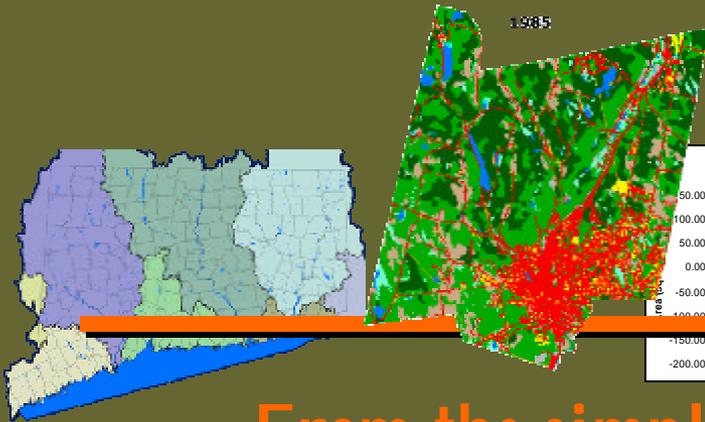
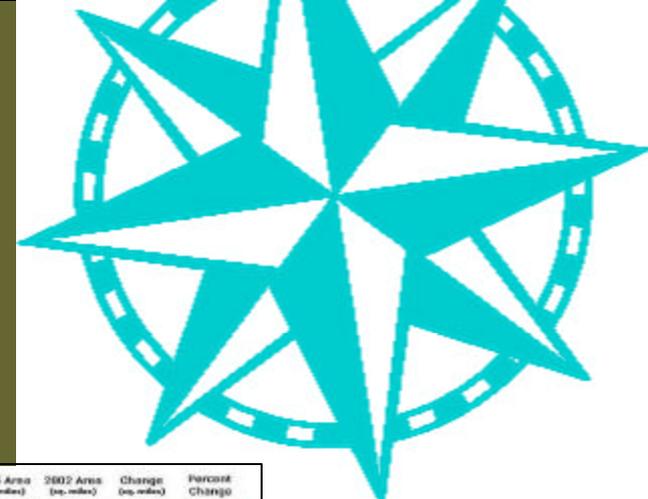
Tech tools



Presentations



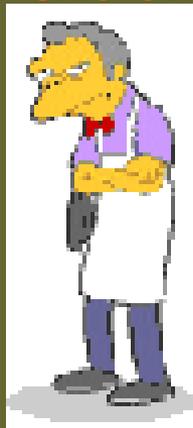
Visible - A Range of Options



Class Description (Category)	1985 Area (sq. miles)	2002 Area (sq. miles)	Change (sq. miles)	Percent Change
Developed	811	980	168.8	14.8%
Turf & Grass	223	223	-0.4	-0.2%
Other Grasses & Agriculture	552	595	42.1	7.6%
Deciduous Forest	2483	2227	-256.4	-10.3%
Coniferous Forest	462	446	-16.2	-3.5%
Water	184	151	-32.9	-17.9%
Non-forested Wetlands	12	23	11.7	101.1%
Forested Wetlands	187	174	-13.8	-6.9%
Tidal Wetlands	23	24	0.3	2.4%
Barren	25	61	25.5	72.2%
Utility	15	15	-0.4	-2.9%
Right-of-way				



From the simple.....to the complex



Visible - Sportswear!



Effective: Documenting Impacts



National Impact Reporting Form

- regional & special project organization
- educational products & publications
- internet sites & CDs
- presentations at conferences & workshops
- phone consultations
- plan, regulation and other reviews
- research



- describe the impact on water quality
- Local DMs can strategy to protect
 - NEMO participating communities
 - NEMO participating with neighbors

Process measures for Short Term Outcomes

- # of presentations; # of attendees, type of attendees
- types and # of educational products, # and types of orgs
- # pubs; # pubs ordered via Web; comments & reviews of pubs
- # of hits; # of downloading of materials; # of CD's distributed
- # of people and/or towns to whom advice dispensed
- # and type of documents reviewed
- # of projects
- satisfaction with meetings (as reported in end-of presentation evaluations)

Part Three

Community Level Impacts - Please check any and all impacts of your efforts in 2003-2004. Note: It is OK to claim impacts even if there were several partner organizations that also served as a catalyst or significant motivator for the impact. Where necessary, indicate the role NEMO played.

At the end of each sub-section, we've thoughtfully provided a space for details on the impacts you have selected. Any additional details are welcome. Example detailed descriptions follow each sub-section.

A. Changes to Administrative Procedures - These changes help to improve the decision making structure and process. (check all that apply)

- Special local committee established to pursue NEMO recommendations
- New commission, task force or other committee established
- New staff position created or modified
- New department or function developed (e.g., NEMO committee or Phase II study group)

Other

Details/Comments:

Example: In Hendricks County, IN, local leaders established a NEMO Advisory Committee that advises the County Planning Commission on incorporating natural resource protection into the comprehensive planning process.

B. Foundational research and information gathering - These initiatives help to provide the data upon which natural resource based planning is built. (check all that apply)

- Natural resource inventory conducted

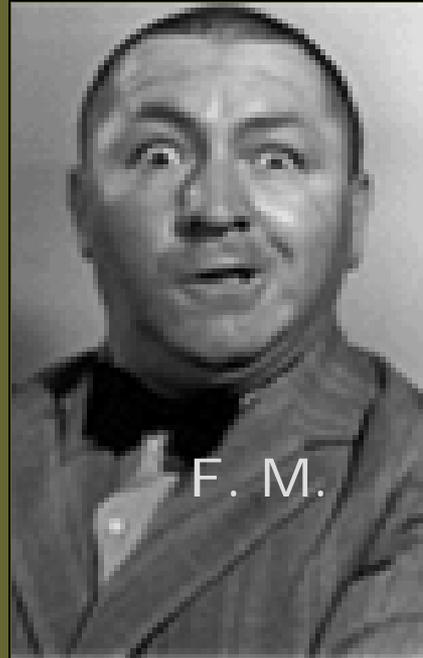
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Effective: Reporting Impacts



1. Research & information gathering
2. Changes to the decision making process
3. Changes to plans
4. Changes to regulations
5. On the ground changes
6. Beyond local impacts

Questions?



nemonet.uconn.edu