



# Strategic Plan Implementation

## Advances in Providing Digital Wetlands Data

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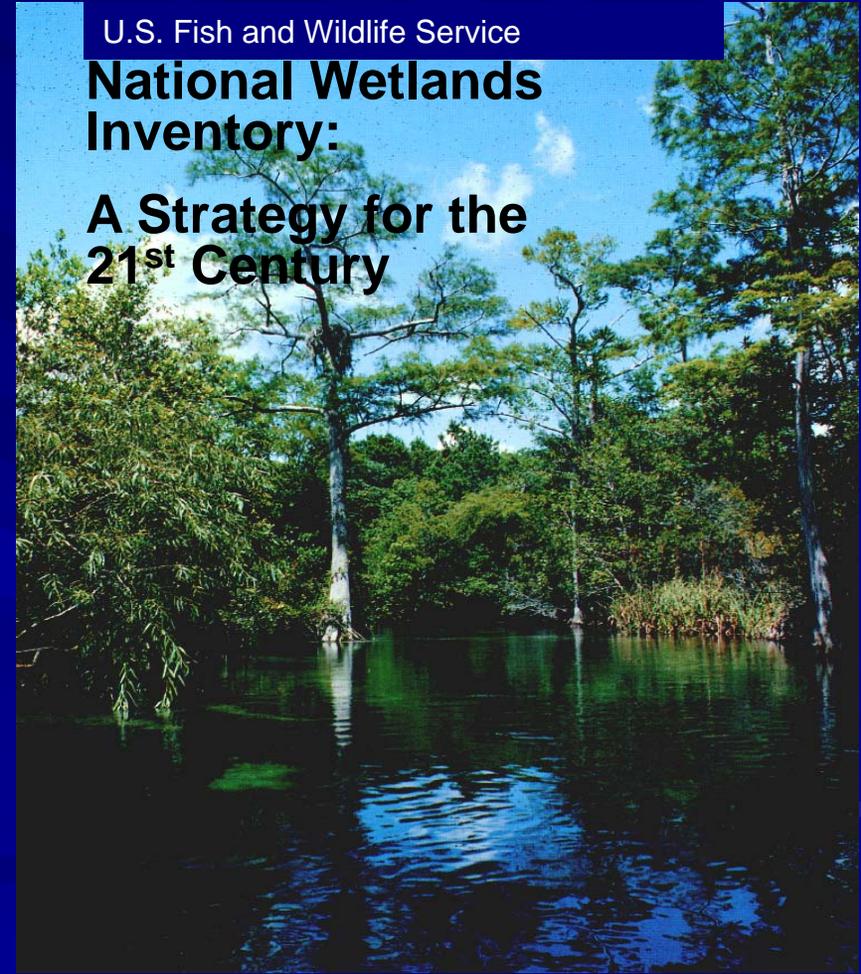
Greg Allord  
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Office of Water



# Strategic Planning

- **2002 Strategic Plan**
- **New program goals**
- **Intensify program responsiveness**
- **Develop new technologies for resource management**

U.S. Fish and Wildlife Service  
**National Wetlands  
Inventory:**  
**A Strategy for the  
21<sup>st</sup> Century**





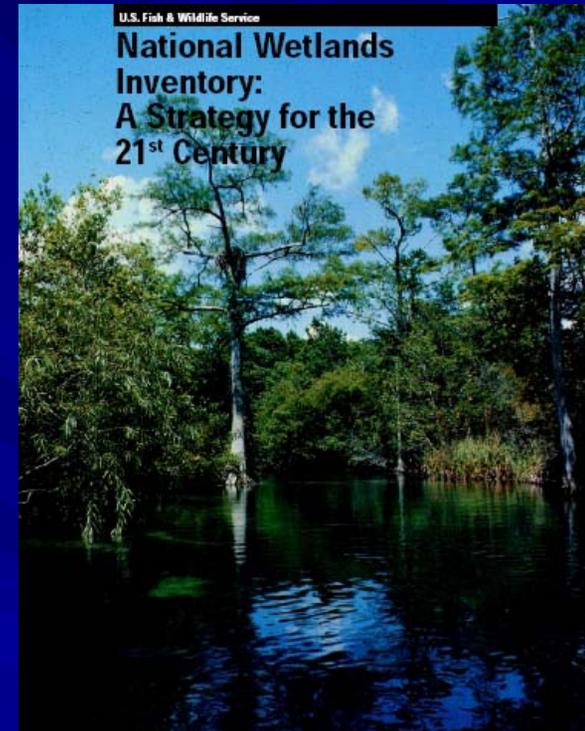
# Strategic Plan Elements

- **Provide scientifically based applications for wetlands and water resource data**
- **Expand capabilities to integrate digital map data with other resource information**



# Strategy Implementation

- Steps down Project Strategy Document...
  - New technologies to improve the editing, storage and distribution capability of the digital data
  - Enhance the capability to integrate map data with other resource information for relevant management tools





# Wetlands Master Geodatabase

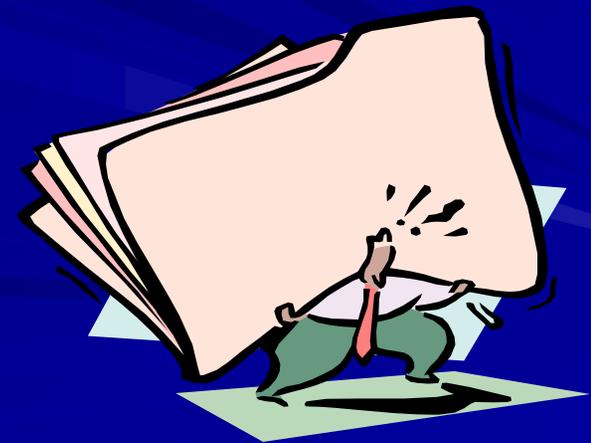
- The development of the MGD is in direct response to the need to upgrade digital information and improve data access and enhance analytical capability.





# Wetlands Mapping – Pre MGD

- Data in different formats.
- Static system (data archive).
- Inefficient storage and distribution.
- Insufficient documentation.
- File based access.
- Technology challenged.



# Partnership Arrangement

**U.S. Fish &  
Wildlife Service**



**USGS**  
*science for a changing world*

- Emerging technologies
- Geographic information science
- Database management and support

# MGD Plan





# What does the MGD Provide?

- The MGD will provide a seamless layer of digital data in geodatabase format.
- Provide technologically advanced mechanisms to edit, store, distribute and archive resource inventory data.



## Database Supports:

- Standardized data set
- Improved quality
- Integration of supporting info.
- Opportunity for analyses
- Opportunity for improved public interface – Web - ArcIMS



# MGD Status

- Over 28,000 maps in seamless ArcSDE
  - 15 million features
- Fuels Internet “Wetlands Mapper”
- Wetlands layer to ***“The National Map”***

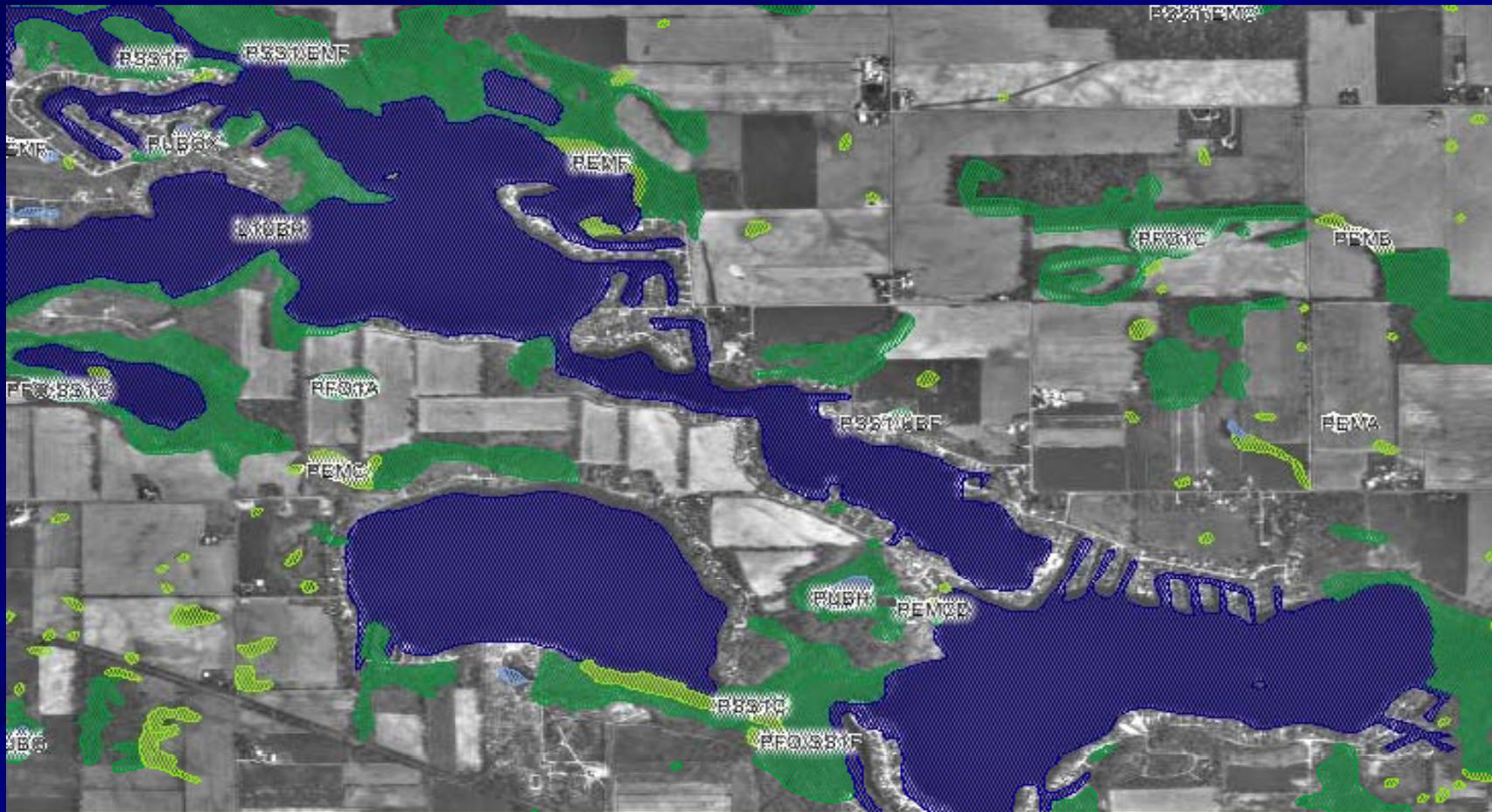
# MGD - Network of Partners





# New Wetlands Mapper

<http://wetlandsfws.er.usgs.gov>



Wetlands of the Oliver Lake region, Lagrange County, IN



# *The National Map*

<http://nationalmap.usgs.gov>





# MGD Facilitates

- Analysis
  - State Reports (NH and ME)
  - Ecoregion or Watershed
- Information updates
- Incorporation of OMO data
- Hard copy to digital
  - 56 % lower 48



# MGD Future Actions

- Expanded dataset
- SDE version 9.0
- Improved efficiencies
- Complex data model implementation



# New Mapper Development

- Expanded digital dataset
- Viewer technology
- User friendly tools



# Summary

- Strong technical partnership between USGS –FWS
- MGD developed, tested, available
- Provides tremendous advantages
- Benefits both agencies and public
- Fulfills key elements of Strategic Plan