

# Integrated Water Resources Science and Services (IWRSS)

Collaborative Science, Services and Tools to Support Integrated and Adaptive Water Resources Management

**April**, 2011



#### Outline

- Water Resources Stakeholder Needs
- Federal Agency Responsibilities
- IWRSS Consortium
  - ✓ Business Model
  - Strategy and Products
  - National Water Center
- Operating Concept
- Governance Structure
- Status and Schedule

#### Stakeholder Needs Assessment

"Building Strong Collaborative Relationships for a Sustainable Water Resources Future" (2010)



Recommended the NOAA-led Integrated Water Resources Science and Services (IWRSS) to prototype the Federal Tool Box

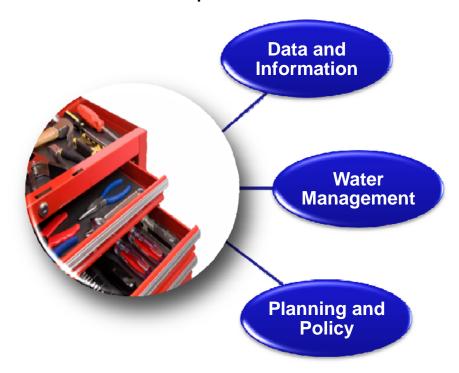






Broadly recognized need for an integrative "Federal Tool Box"

- ✓ Streamline access to Federal water resource capabilities
- ✓ Share technology, information, models, best practices





# 24 Federal Agencies have roles in fresh water:

- Monitoring
- Prediction
- Protection
- Regulation

- Management
- Mitigation
- Conservation
- Science

- Restoration
- Response
- Recovery
- Education

# Integrated Water Resources Science and Services (IWRSS)

A new business model for interagency collaboration in the information age

Effective
Use of
Budget

- Partner and co-invest to solve large problems
- Leverage multi-disciplinary skills to formulate effective solutions

Increased Efficiency

- Interoperable Systems
- Standardized Data
- Collaborative Tools

Program Directions

- Enable teams to solve complex problems holistically
- Understand decision impacts across agencies

#### **Integrated Water Resources Science and Services**

### **Five-Point Strategy**

# Innovative Federal Consortium

- New business model for interagency collaboration
- Leverage investments
- Common Operating Picture

#### In-Region Stakeholder Participation

- Deployment of regional service agents
- Strengthen participatory processes
- Develop social capital

# New Digital Information Products

- Summit to Sea
- Floods to Droughts
- Past, Present and Future

# Single Portal for Water Information

- One-stop shopping
- Federal Toolbox for forecasts, data, maps, policies, programs

#### National Water Center

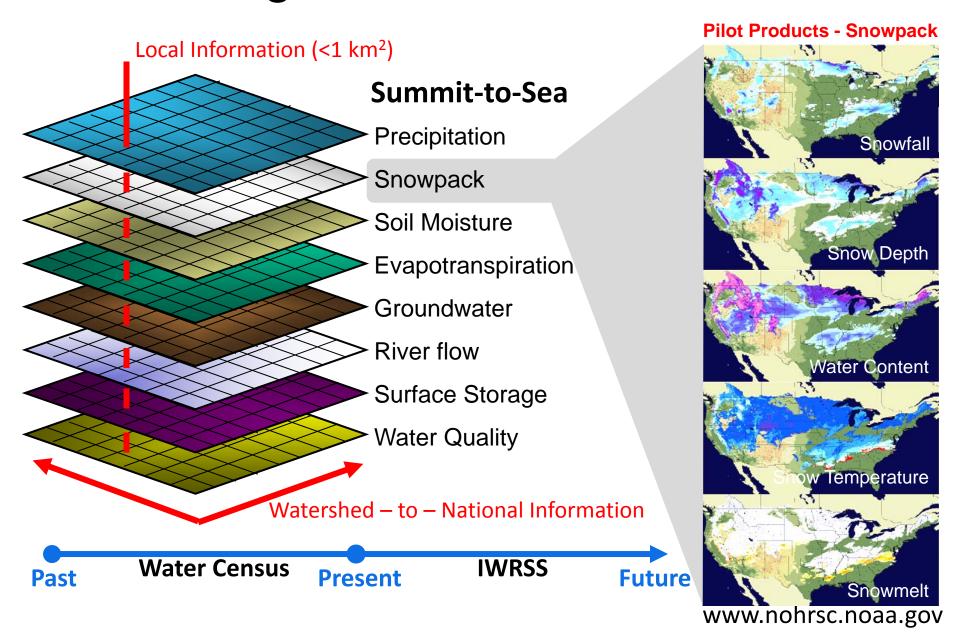
- New bricks and mortar facility
- Synthesis and Integration
- Multi-agency staffing



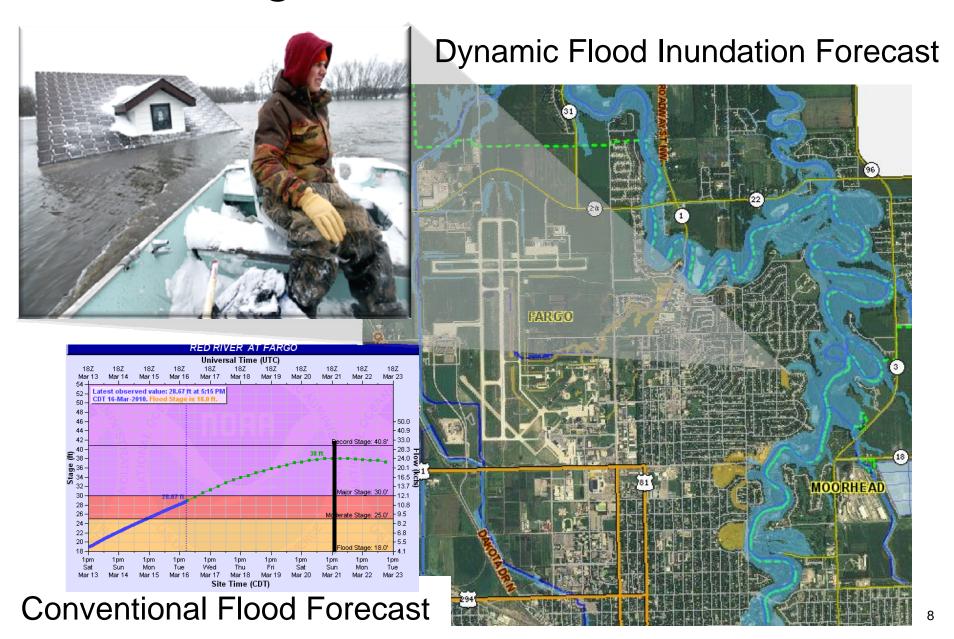




# New Digital Information Products



# New Digital Information Products



# Single Portal for Water Information



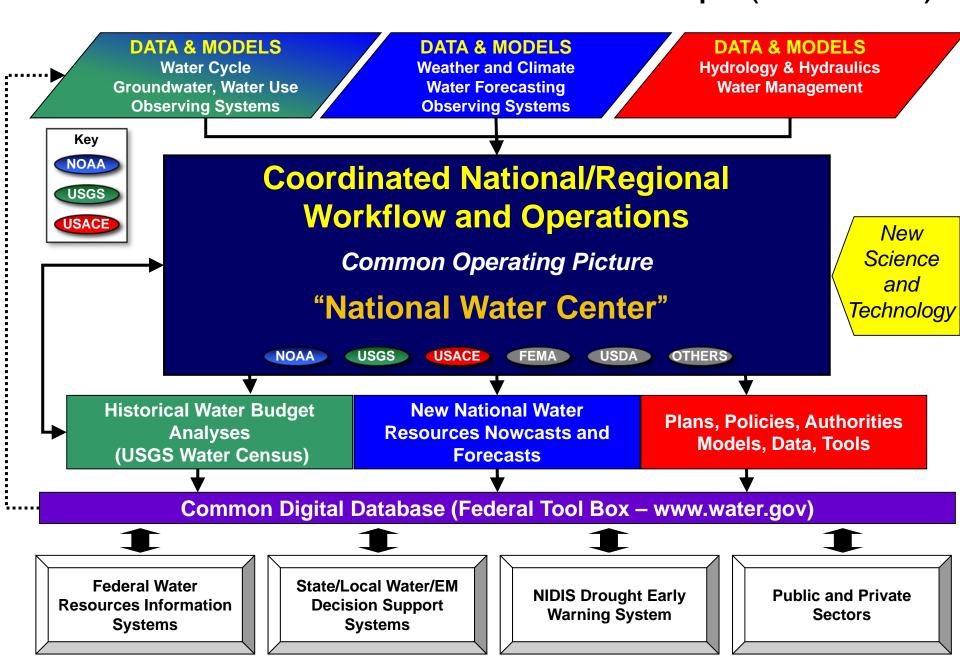
- One-stop shopping for federal water information, data, policies, tools
- Integrated multiagency information
- Simplified access







# Straw National Water Center Concept (ca. 2009)

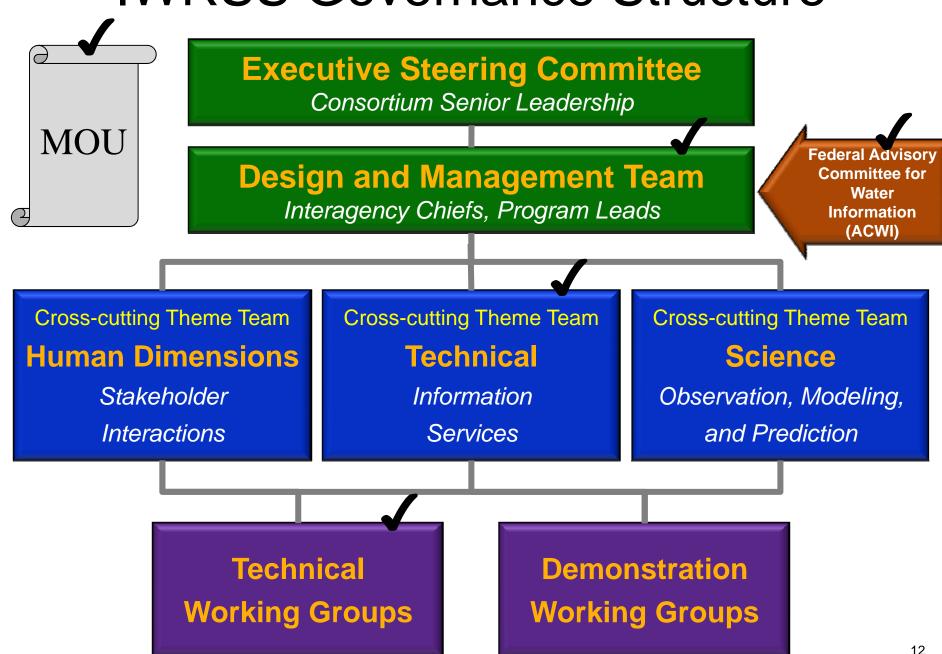


#### **National Water Center**



- NOAA is constructing the IWRSS National Water Center (NWC) at the University of Alabama, Tuscaloosa.
  - -58,000 SF facility (full occupancy = 200)
  - operations center for water analysis, forecasting and decision support
  - applied water resources research and development center
  - geo-intelligence laboratory
  - distance-learning center
- Groundbreaking is expected in early FY12, completion in FY13

# **IWRSS** Governance Structure



# Status and Schedule

# Tri-Agency Overarching Memorandum of Understanding Signing Ceremony

✓ NOAA, USGS, USACE

#### Establish First Two Tri-Agency Task Teams

- ✓ System Interoperability and Data Synchronization
- ✓ National Flood Inundation Mapping Services

First Two Tri-Agency Task Teams Complete Initial Plans

**Groundbreaking for National Water Center** 

**Initiate Development Projects** 

Apr Sep Oct Sep Aug Dec Aug Apr May Jun Nov Jan Feb Mar May Jun Oct Jul Jn 2011 2012

**Expand IWRSS to Include Additional Agencies** 





