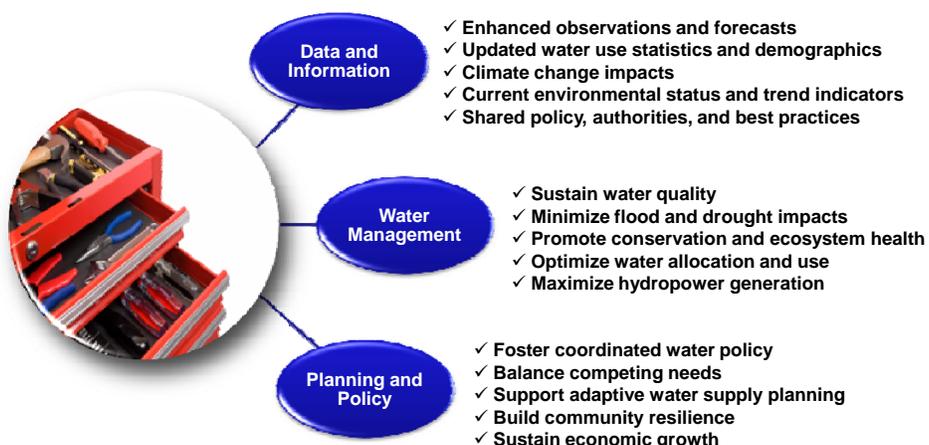


Federal Agency Assessment: Federal Tool Box

- Assessment of 12 Federal water resources agencies revealed broad recognition of the need for an integrative “Federal Tool Box” (FTB) to:
 - Streamline access to Federal water resource capabilities
 - Share technology, information, models, best practices
 - Leverage resources more effectively
 - Enable improved collaboration

Federal Tool Box - Benefits

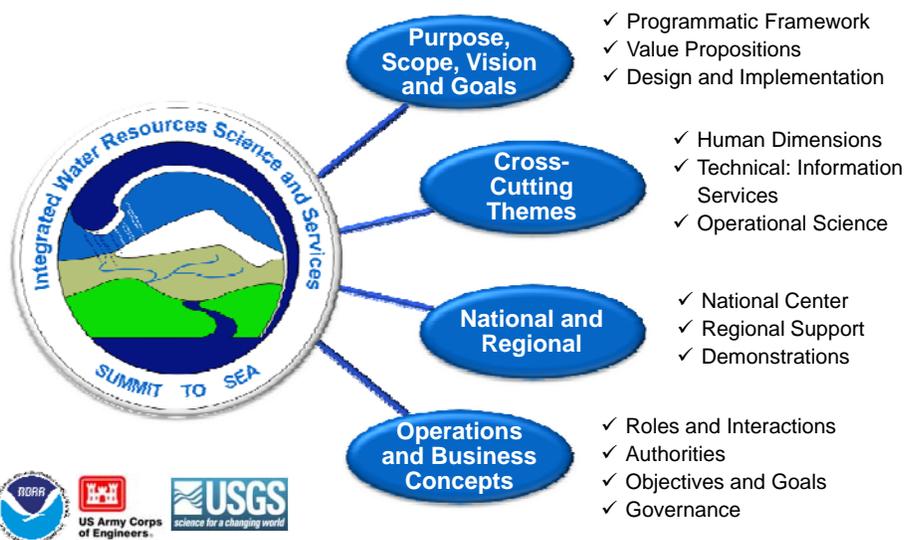
Integrate and improve access to information, enable collaborative workflow, and establish a common operating picture to support critical decision making



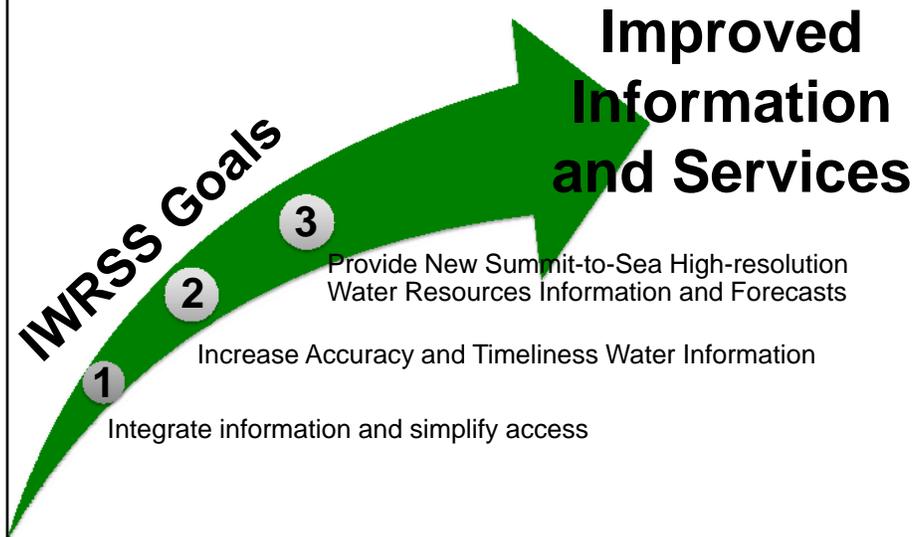
Federal Assessment Views

- The Federal Tool Box requires:
 - Significant, continued stakeholder input
 - Robust framework for data exchange and simplified information access
 - Viable cross-agency management, governance and funding strategy
- Integrated Water Resources Science and Services (IWRSS) is recommended as the prototype

Integrated Water Resources Science and Services (IWRSS)



IWRSS will support next-generation adaptive water-related planning, preparedness and response activities



Integrated Water Resources Science and Services

Three Cross-cutting Themes



Human Dimensions

- Stakeholder Interactions and Communications

Establishing and maintaining a strong participatory process for building the social capital necessary for success



Technical

- Information Services

Implementing sound IT engineering practices to promote the coordination and integration of interagency activities to achieve common goals

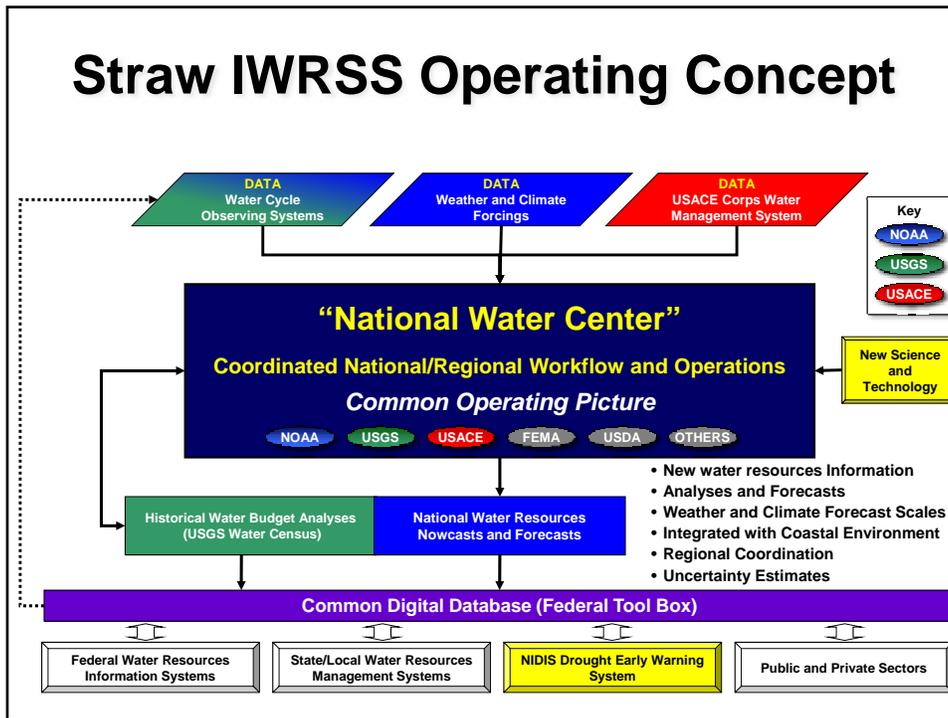


Operational Science

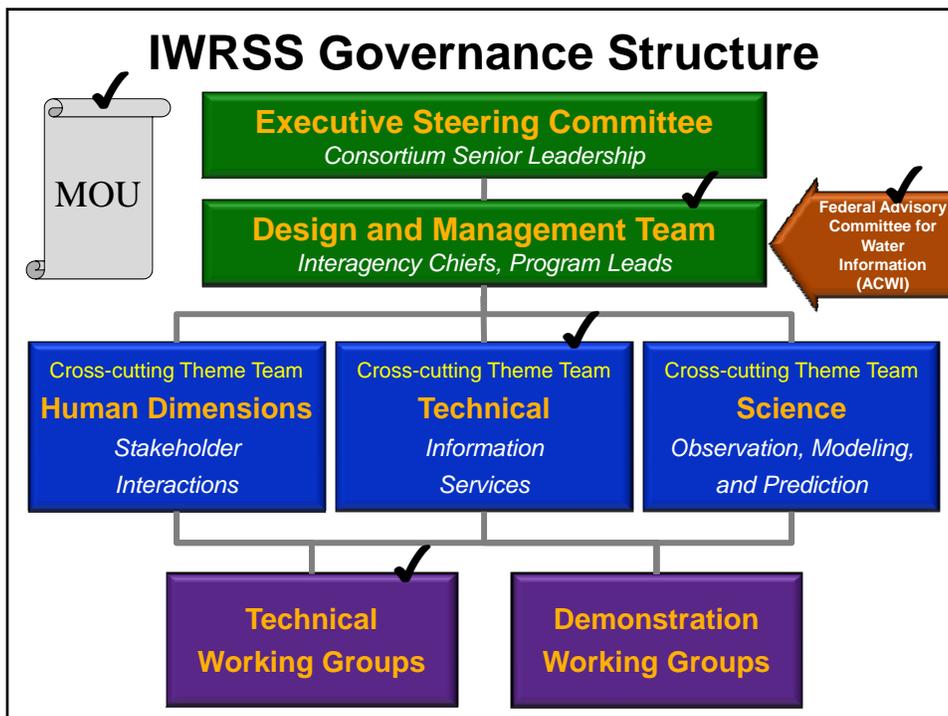
- Summit-to-Sea Modeling and Prediction Framework

Apply physical and social science strategies to deliver an information system that is responsive to the needs of stakeholders

Straw IWRSS Operating Concept



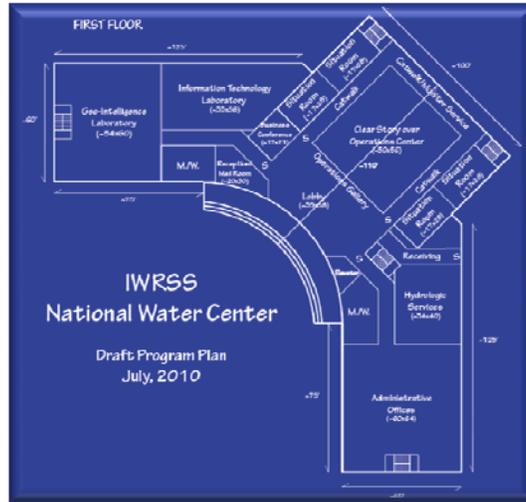
IWRSS Governance Structure



National Water Center Design

Functional Elements

- Operations Center
- Situation Rooms
- High-performance Computing Facility
- Geo-Intelligence Laboratory
- Software Engineering Studio
- Information Technology Laboratory
- Distance Learning Classroom and Auditorium
- Integrated Water Resources Science and Services (IWRSS) Systems Proving Ground
- Administrative Offices



National Water Center

Service Sectors	New Capabilities
Hazards 1: Floods, Debris Flows, Storm Surge	Operations, Support, R&D
Hazards 2: Drought	Improved River Forecasts, and High-Resolution Analyses and Forecasts
Agriculture	Regional Liaisons
Climate	Dynamic Flood Inundation Mapping
Weather	Snow/Soil Moisture data acquisition and satellite data processing
Water Supply	Common Operating Picture and Multi-Agency System Interoperability
Transportation	National Portal and Archive (Fed Tool Box)
Energy	Computational Backup for Field Offices
Ecosystems	Proving Ground for Research to Operations
Water Quality/Human Health	