

Approach to a Sustainable Water Future

America's Watershed Initiative Summit

2 October 2014

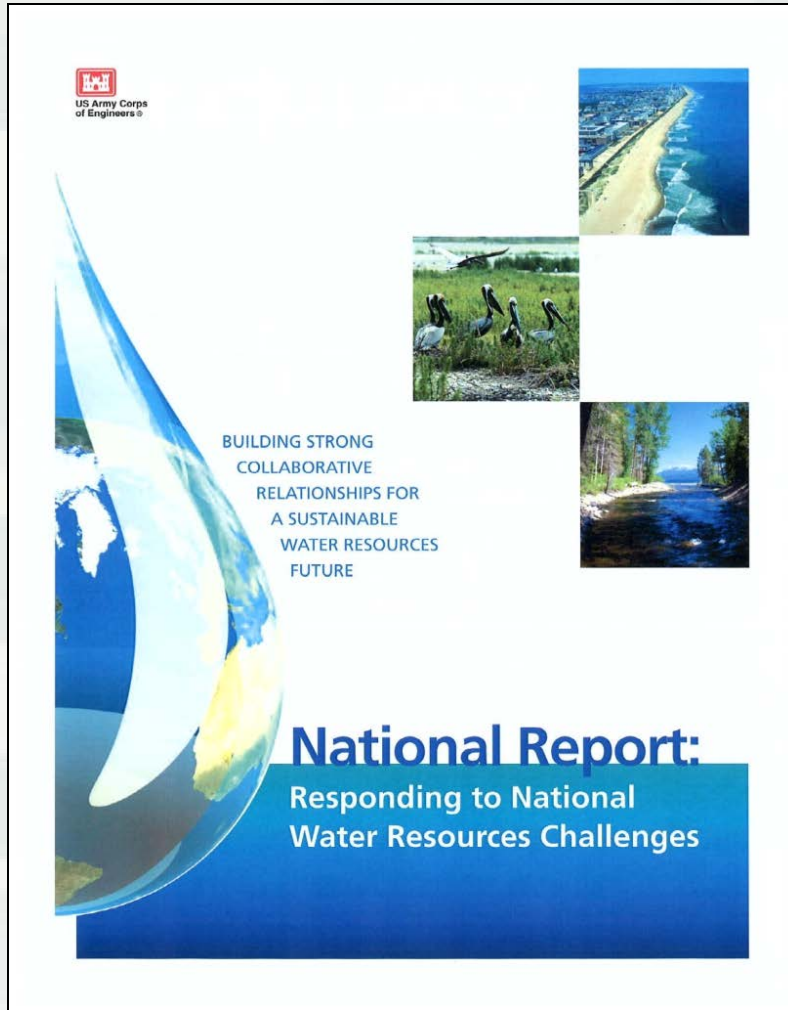
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US Army Corps of Engineers
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Approach to a More Sustainable Water Future



- 1) **Integrated Water Resources Management**
- 2) **Governance and Management**
- 3) **Future National Water Resources Direction**
- 4) **Collaboration**
- 5) **Water Resources Investment Strategies**
- 6) **Managing Extreme Events**
- 7) **Knowledge Management & Technology Transfer**
- 8) **Water Resources Leadership**
- 9) **Communications and Education**

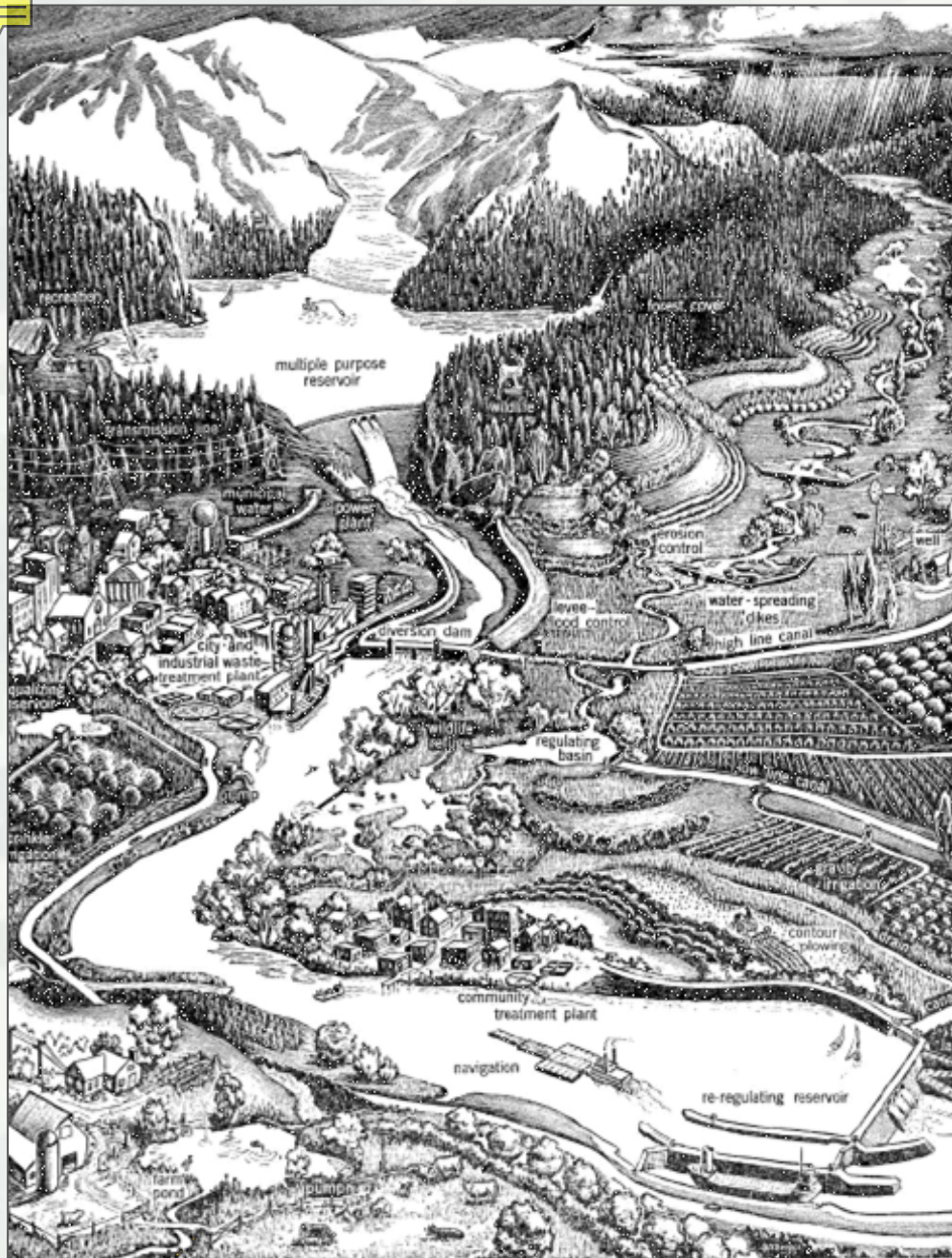


Value of Past Investments

An illustration of the relationship between services yielded by ecosystems, infrastructure, and the economic activities they support.

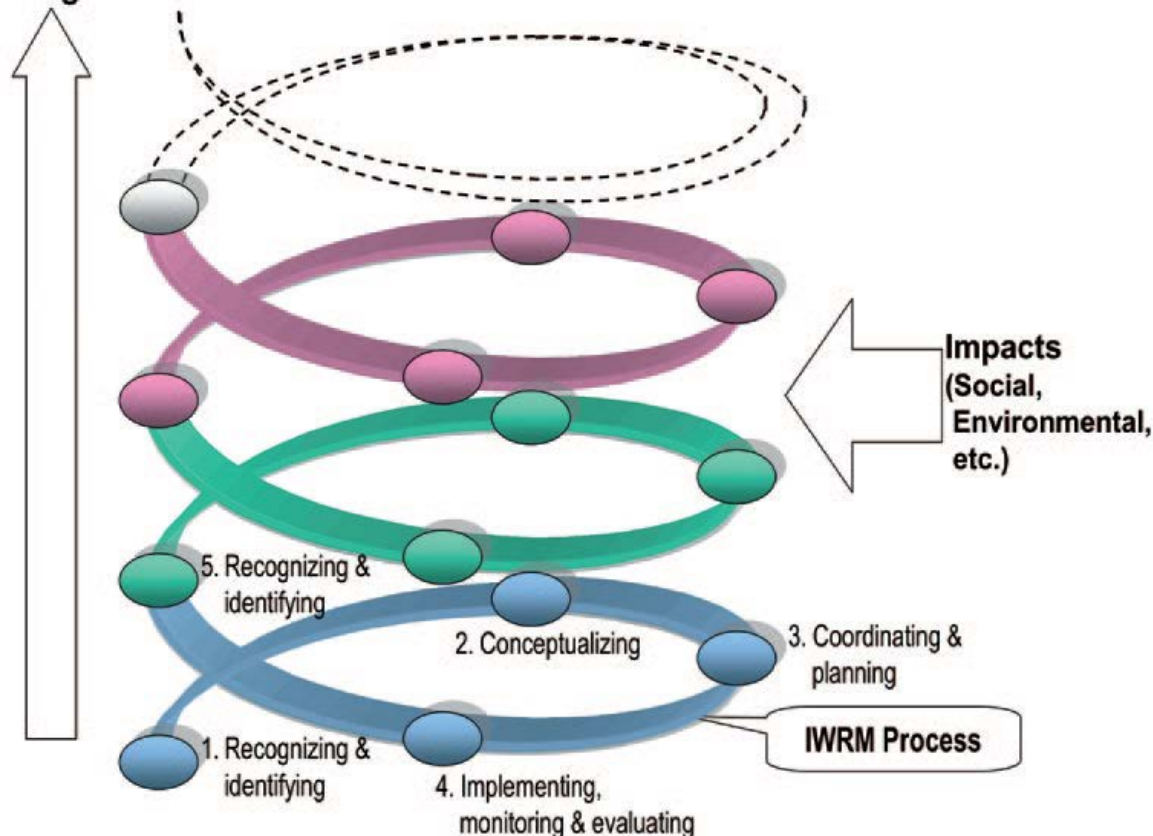
The value of natural and constructed systems was viewed as being greater than the sum of their intertwined parts, not only for the present generations, but also for those that would follow.

From: "A Multiple-Purpose River Basin Development", *A Water Policy for the American People The Report for the President's Water Resources Policy Commission (1950)*



Integrated Water Resources Management (IWRM)

Progress of IWRM



“...a process which promotes the coordinated development and management of water , land and related resources, in order to maximize the resultant economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems.”





Collaboration

- **We cannot be successful unless we are successful at collaboration and relationship management.**
- **We must make learning collaborative techniques a priority.**
- **We must maintain focus on transparency and stakeholder engagement during plan formulation.**



Watersheds & Collaborative Planning

Proposed National Objectives, Principles and Standards for Water and Related Resources Implementation Studies (3 Dec 2009)

“It is the policy of the United States that all Federal water resources implementation studies shall:

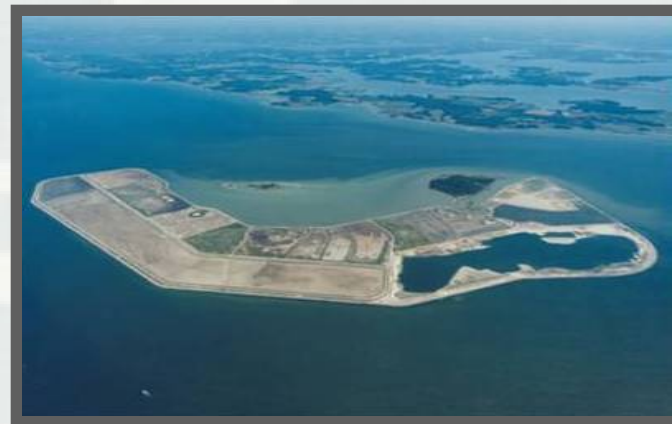
Protect and restore natural ecosystems and the environment while encouraging sustainable economic development; ...”

“The development of the new Principles and Guidelines will firmly bring our Planning efforts into the 21st Century and provide the needed framework for collaborative, integrated watershed analysis that will leverage the authorities and resources of our state, local, and Federal partners to address the Nation's needs.”

Jo-Ellen Darcy, ASA (CW) (30 Dec 2009)



Port of Baltimore, MD



Poplar Island, MD

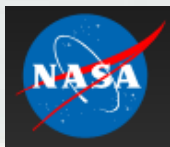
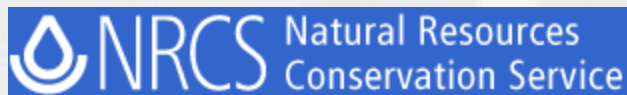


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WestFAST

- 2008 Western Governors' 'Next Steps' report suggested formation of a federal team to assist the coordination and implementation of the recommendations of the report
- WestFAST is a collaboration of 11 Federal agencies with water management interests in the West



- Key areas of interest for the WSWC and WestFAST:
Water Planning, Water Resources, and Infrastructure
Climate Variability
Drought
Water Quality
Indian Water Rights Issues
Endangered Species
Energy and Water

WestFAST's work plan is available at:

<http://www.westgov.org/wswc/westfast/workplan/index.htm>



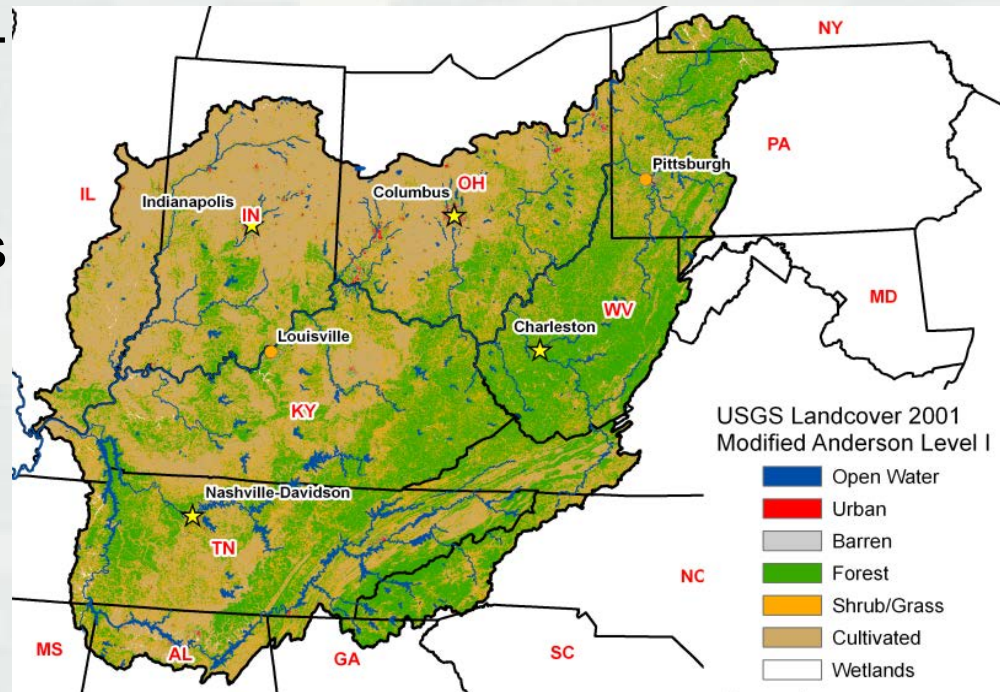
Gulf Coast Ecosystem Restoration Task Force (GCERTF)

- Develop Restoration Strategy
- Coordinate intergovernmental effort
- Support the Natural Resource Damage Assessment (NRDA) process (refer actions to Trustee Council)
- Engage stakeholders
- Coordinate science in support of ecosystem restoration
- Coordinate to encourage health and economic benefits of ecosystem restoration



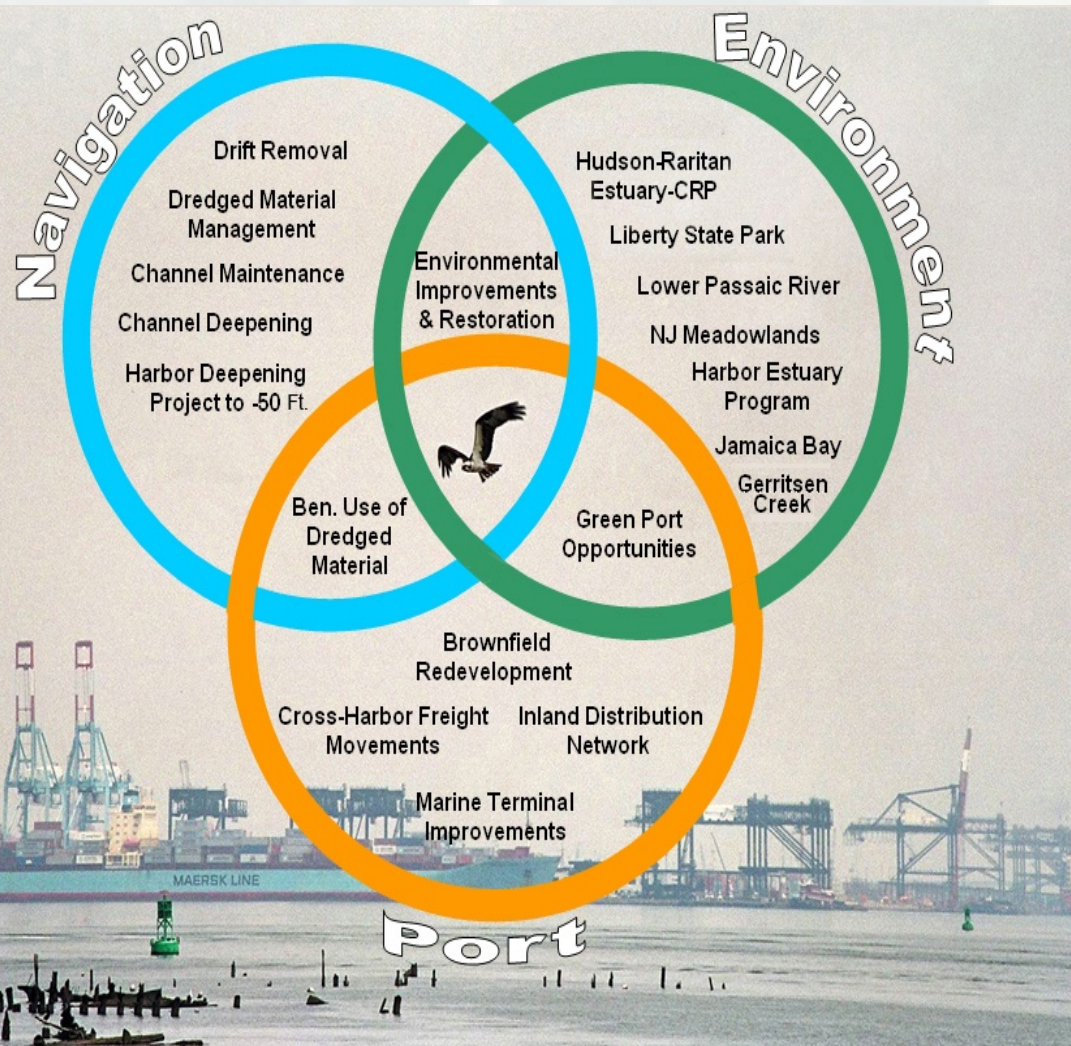
Ohio River Basin Alliance

- 200+ representatives from 80+ state, local and federal agencies, industry, academia and not-for-profit organizations
- Supports and implements integrated management of the Basin's resources to achieve sustainable economic growth and ecological integrity.
- Recommends strategies and coordinates actions to address complex water resource challenges and priorities with a unified voice



Watersheds and Collaborative Planning

Hudson-Raritan Estuary Comprehensive Restoration Plan



Integrated Water Resources Management

A holistic focus on water resource challenges and opportunities that reflects coordinated development and management of water, land, and related resources while maximizing economic services and environmental quality, and ensuring public safety while providing for the sustainability of vital ecosystems.

Watersheds and Collaborative Planning

Delaware River Basin

- Serving primarily basin-wide and interstate interests; and national, statewide, regional, and local watershed interests as the need arises.
- Resolving interstate disputes through mediation.
- Adopting and implementing policies to manage the Basin's water resources in an integrated, planned fashion.
- Basing decisions on sound science.
- Providing meetings, conferences, seminars, and other opportunities for public education, information exchange, involvement, and resolution of issues.

Comprehensive Conservation and Management Plan (CCMP) for the Delaware Estuary September 19, 1996



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BUILDING STRONG COLLABORATIVE RELATIONSHIPS FOR A SUSTAINABLE WATER RESOURCES FUTURE

watertoolbox.us

Federal Support Toolbox for Integrated Water Resources Management

Align Programs and Resources for Efficiency Gains

Search Resources... **SEARCH**

Home | Toolbox Resources | News & Events | Communication & Education | A Sustainable Water Future | Water Resources Management | Linking the World

About the Federal Support Toolbox

The Federal Support Toolbox is a comprehensive "one-stop-shop" online water resources data portal with direct links to valuable data, state of the art models and tools for utilization in information sharing and collaboration for the water resources community in the U.S. and internationally.

The water challenges facing the nation are compelling and the needs are great and managing water resources as a collaborative endeavor is crucial to effectively address these challenges and water needs. This website serves as a leading-edge resource for information sharing, best management practices, collaboration and more for the water resources community. Your participation is welcome and encouraged. Learn more about what the federal support toolbox website offers, below.

DATABASES, TOOLS & MODELS

Access water resources management programs, databases and models created by the U.S. federal government, states, Tribal Nations and non-governmental organizations by keyword or map search.

- Search **active databases** for water management
- Access **models** that facilitate analysis & predictions
- Acquire new **tools and technologies**
- Search by **location** for data, models and programs

COLLABORATION & COMMUNITY

Contribute and take advantage of water resource solutions

- View **existing collaborations & partnerships**
- Be **aware of needs** within the water resources community
- Visit the **water resources forum** to learn about water activities and issues
- Find out how to become a **Federal Support Toolbox partner**

GET INVOLVED

Become a part of the Water Toolbox community

- Become a **Federal Support Toolbox partner**
- Stay informed about the latest **headline news** and **upcoming events**
- Join in the **discussion forums**

WATER RESOURCES MANAGEMENT

Effective water resources management depends on acquiring deep knowledge and astute skills

- Search the list of **legislative resources**
- Locate specific **policies and guidance**
- Review **best management practices**
- View the **list of agencies**

OUTREACH & EDUCATION

Get engaged in education and outreach programs to deepen knowledge about water resources, promote cooperation and collaboration, and increase public awareness

- Browse or search our database of **current education and outreach programs**
- Enhance public awareness and stakeholders' engagement
- Stay up to date on state-of-the-art developments in science and technology

SHAPE THE FUTURE

Participate in creating a water secure world

- Think globally** - find out what the international water resources community is doing
- Reinforce local action** for improved water resources outcomes
- Help develop a **shared vision** of effective water resources management

What's New at watertoolbox.us

Posted: August 22, 2013
Indiana Department of Natural Resources, Division of Water; U.S. Department of Homeland Security, Federal Emergency Management Agency (FEMA)
In State Water Plans

Posted: August 22, 2013
Draft SRBC Comprehensive Plan
In State Water Plans

[RSS](#) | [Subscribe](#) **MORE**

VIDEOS

Sept 2013 | CorpsConnection: Securing the Nation's Future Through Water

USACE is the largest producer of renewable energy in the U.S. 0% emissions

Sept 2013 | Whiteboard: How to Reform Water Infrastructure with Chairman Bill Shuster

Whiteboard: How to Reform Water Infrastructure

[Download the Federal Support Toolbox Fact Sheet](#)

[Download the Federal Support Toolbox Trifold Brochure](#)

Upcoming Events

September 23, 2013 - September 27, 2013
PRANC - SMART Rivers 2013 Conference
Liège (Belgium) and Maastricht (The Netherlands)

September 23, 2013 - September 26, 2013
Oceans 2013: An Ocean in Common
San Diego, California, USA

Watertoolbox.us

One Stop
Shop Data
Portal

Leading
Edge Models
and Tools

Collaboration
Connection



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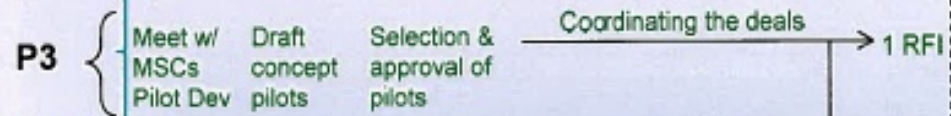
Alternate Financing/P3 Snapshot

2014

2015

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

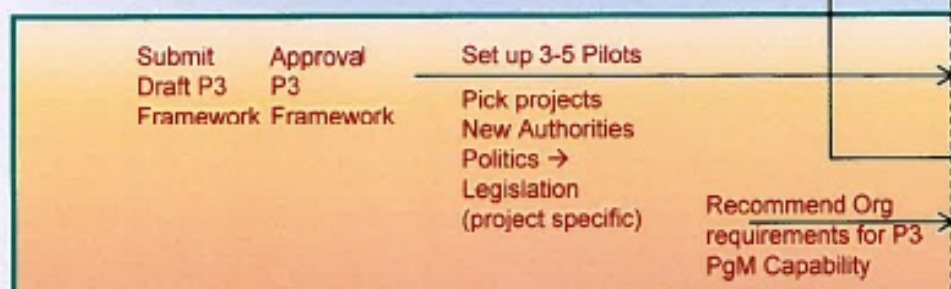
Existing Authorities



Contributed Funds

MSCs Expanding Ideas/Pilots

New Authorities



Integrated P3 Pilot Efforts in FY 15

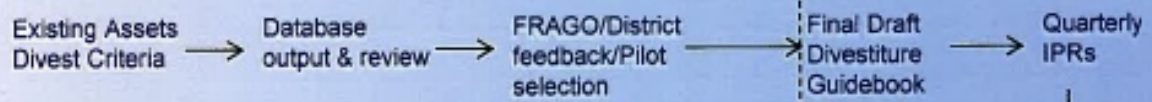
- NEW CONTRACT/DO
- 1. 2 RFIs/deals already initiated
 - 2. Deals that need more time
 - 3. Implement new authority pilots

WRRDA Implementing Instructions

4 case studies applying SEP Authorities
Fargo, Olmsted, N Atlantic Coast, Great Lakes

Dam Safety

Divestiture



Streamlining Life Cycle Analysis Processes & Identifying/Developing New Legislation

America's Watershed: A 200-year working vision

An Intergenerational Commitment

Our people enjoy a quality of life unmatched in the world. We ...

- **Lead secure lives along the river or tributary.**
- **Enjoy fresh air and the surrounding fauna, flora and forests while hunting, fishing and recreating.**
- **Travel easily, safely and affordably.**
- **Drink from and use the abundant waters of any river, stream or aquifer.**
- **Choose from an abundance of affordable basic goods and essential supplies that are grown, manufactured and transported along and by the river to local and world markets.**

Leveraging local citizens' input, international dialogue, science, engineering, technology and public policy



The Mississippi watershed is 41% of the US, 31 states, 1.25 million square miles, over 250 tributaries

Balancing needs for ...

- ❖ **National security & flood damage reduction**
- ❖ **Environmental sustainability & recreation**
- ❖ **Infrastructure & energy**
- ❖ **Water supply & water quality**
- ❖ **Movement of goods; agriculture & manufacturing**

join the dialogue, visit:
www.mvd.usace.army.mil/mrc
or email:
cemvd-ex@usace.army.mil

The Power of Leadership

“It is because we have undertaken this gigantic task that will take us more than a generation to complete, because we have undertaken it now, and the people of the United States understand the objective of the idea, that I feel very certain we are going to carry it through to a successful completion.”

***-President Franklin Delano Roosevelt,
at Fort Peck Dam construction site, 1934***



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