

# USACE Asset Management Program



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# *Why Asset Management?*

WE OWN IT

WE MANAGE IT

"Short list"

15000 Structures

285000 Tracts of land

12000 Buildings

Includes (approx):

1000 Coastal Structures

600 Dams

2500 Recreational Areas

250 Locks

75 Hydropower

**VALUE: \$200 BILLION+**

Lifecycle Infrastructure  
Management:

Campaign Goal 3c- Deliver  
reliable infrastructure

Executive order 13327-  
Right-sizing inventory

Budget Performance  
Integration- Program  
Assessment Rating Tool

**It's the RIGHT thing to do!**

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## *Drivers*

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- Public Law 101-576, the “Chief Financial Officers Act of 1990 and amended by Public Law 103-256, the “Federal Financial Management Act of 1994”
- USACE Campaign Goal 3C
- Executive Order 13327, Federal Real Property Asset Management (2004)
- DoD’s Business Enterprise Architecture and inventory instruction, DoDi 4165.14 (2006)



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# ***Asset Management***

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- Asset: “an item of value owned”
  - Federal Real Property Council: Constructed asset (Dams, Locks, Hydropower plants, rec areas)
- Management: “to handle or direct with a degree of skill. To make and keep compliant”



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# *Asset Management Defined*

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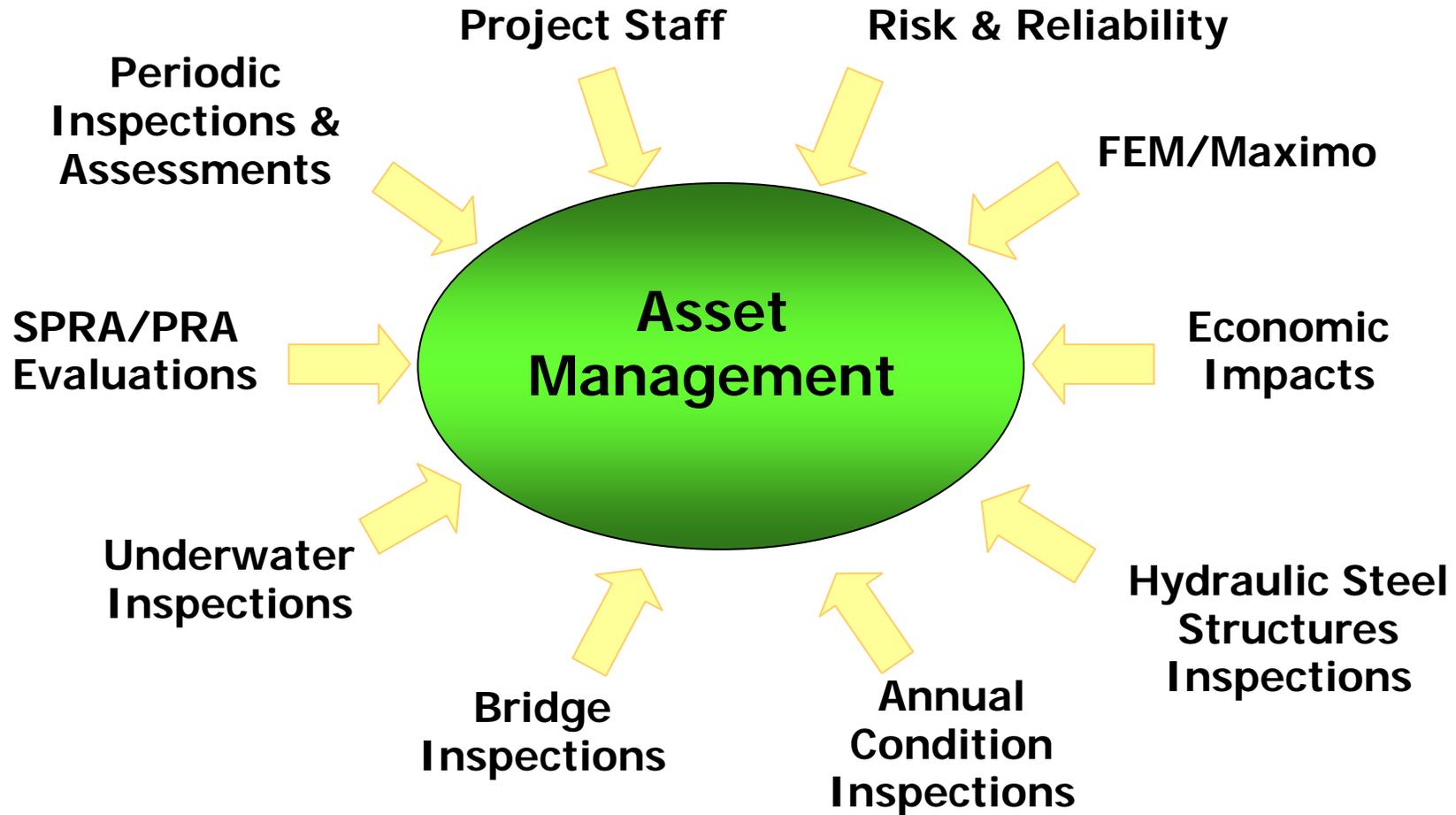
- USACE: *Managing the life cycle cost of infrastructure assets with innovative and adaptive strategies to ensure those assets continue to provide value to the nation and meet expected levels of service while mitigating risk*
- Simply stated:
  - Inventory (what you own)
  - Identify Condition (CA, RA, ...)
  - Investment Strategy (min risk, max return)



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# Asset Management - Data Sources

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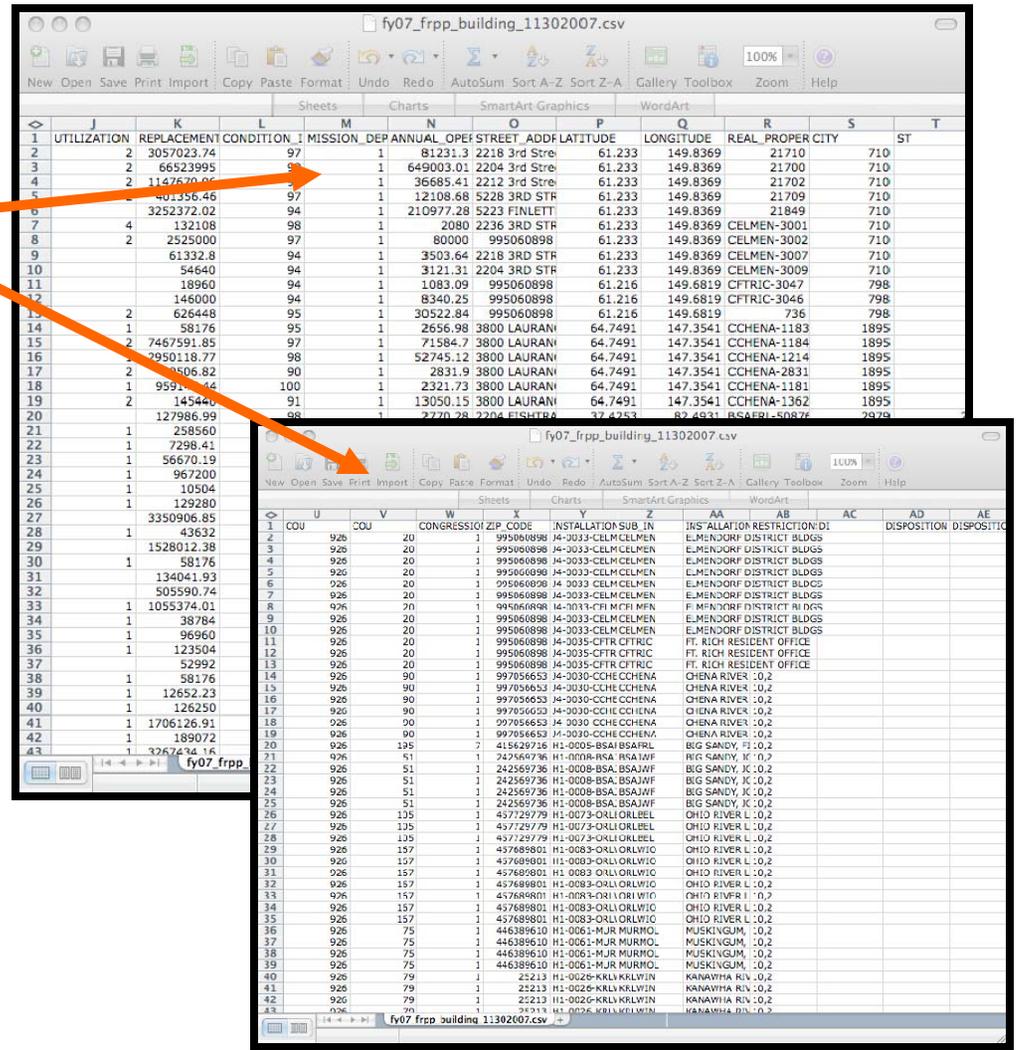
# Data in Geospatial Environment

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Asset management data is currently stored in table format

Difficult to ...

- Visualize status of assets
- See overall status of a system
- Inefficient browsing of more than 10,000 assets



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# Data in Geospatial Environment

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Google Earth EC

36.813°N, 85.181°W

**WOLF CREEK DAM**

**WOLF CREEK DAM**

Asset Properties:

- Annual Operating Costs: 85.19
- Street Address: 855 BOAT DOCK ROAD
- County: 199
- Restrictions: 10,2
- Reporting Agency: 9600
- Outgrant Indicator: N
- Using Organization: 9600
- State: 21
- Structural Unit: 1
- Legal Interest: G
- Replacement Value: 125651.9
- City: 3070
- Fiscal Year: 2007
- Country: 926
- Sub Installation Id: WOL
- Status Indicator: A
- Historical Status: 6
- Mission Dependency: 1
- Zip Code: 425010450
- Congressional District: 01

[Back to Front Page](#)

[USACE Wolf Creek Web Page](#)

ERDC - Information Technology Laboratory

Directions: [To here](#) - [From here](#)

Pointer 36°52'21.63" N 85°08'32.50" W Streaming 100% Eye alt 1.07 km

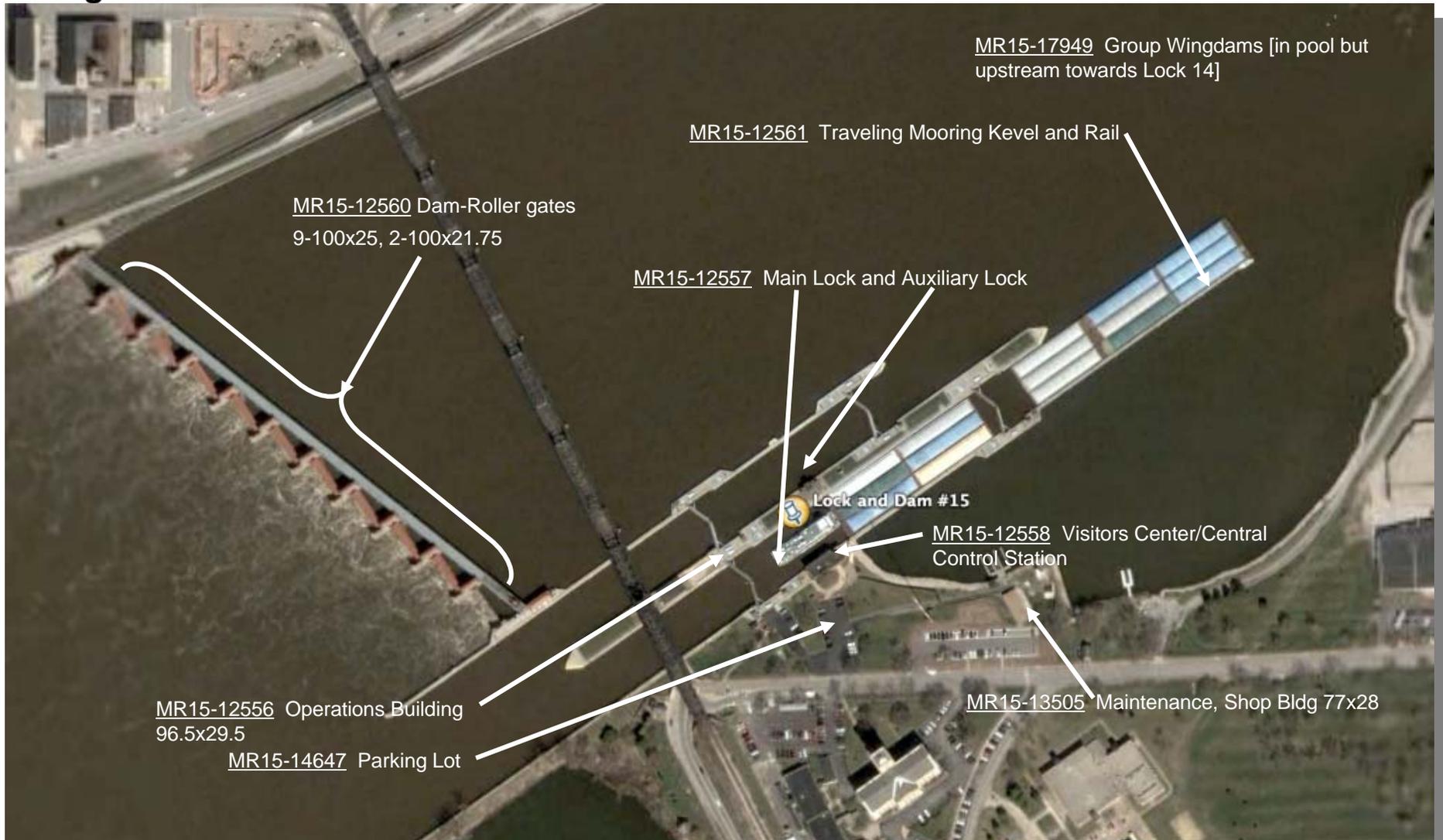
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# Standard IDs for Assets

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## *Evidence of Data for Decision-Making*

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- A number of examples have been identified
  - Navigation Feasibility Study
  - HydroAMP
  - RECBEST
  - Dam Safety (sPRA)
  - Other business lines still under development
- Document submitted and approved by OMB



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# *Where are we on Condition Assessments for Major structures?*

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- Mature methodology and complete across portfolio
  - **RECBEST**
- Mature Methodology but not completely implemented across portfolio
  - **Dam Portfolio Risk Assessment**
  - **Hydropower Northwest (HydroAMP)**
- Developing Methodology but not completely implemented across portfolio
  - **Inland Navigation- Evaluation of Major Maintenance (MVD and LRD)**
  - **Inland Navigation- Major Rehab**
- Developing Methodologies
  - Coastal structures (i.e. risk informed planning)
  - Levees and floodwalls
- No National Methodology or implementation strategy
  - Other Flood Control Structures



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## ***AM Supported Efforts***

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- Hydropower business line Benchmarking
- Condition Assessment tools (now MVD/LRD coordination)
- Risk and Reliability DX (Spillway gates)
- ERDC-CERL Risk based tools survey
  - “Condition Assessment Aspects of an Asset Management Program” (REMR)
- National application of Shipper-Carrier Cost (SCC) Model for estimating NED cost impacts due to main lock chamber closures
- Real property performance benchmarks study for select USACE asset categories and specific building classifications



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## ***Success To Date***

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- Asset Management Plan approved (revised 4Q07)
- Upgrading FEM to Enterprise version
- Improved QA/QC of data (Quality Management Plan implemented for inventory)
- Federal Real Property Profile submission on schedule
- Initial introduction of performance measures in FY10 budget submittals
- High score (PMA scorecard)



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# *Getting To Green*

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- National approach to asset management
  - Standards within business line
  - Performance-based budgeting
- Evidence that real property management is consistent with agency strategic plan, Asset Management Plan, and performance measures
  - Utilized in daily decision
  - Drives budget decisions
- Accurate and current inventory
  - Utilized in daily decision making



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## ***O&M Performance Info***

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- Information needed to show marginal changes to performance from changes in funding. (buying down risk)
  - ASCE scorecard?
- Linkage between business-line performance measures and funding
  - Common risk management matrix (5x5)  
(Probability/Condition vs. Consequences/Impacts)



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## ***The Road Ahead***

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- Continue coordinating and integrating AM principles into Business Line processes
- Continue meeting DOD real property inventory requirements
- Continue eFEM deployment
- Pilot tests to support AM capabilities (MSC's)
- Alignment with R&R and other activities
- Provide national perspective on condition assessments
- Continue development of AM Framework and pilot implementation



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## ***PIANC WG129***

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- The objective of this working group is to compare national standards of
  - the asset condition grades
  - typical damages/-classes and models of their movement/development based on specific waterway assets
  - the different practice to start (or not) maintaining the buildings
  - and to give recommendations for common standards



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# ***Asset Management Team***

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## **HQ team**

- Guidance
- Policy development
- Resource support

## **Team composition**

- Doug Ellsworth (CERL)
- Kay McGuire (CERL)
- Chuck Moesling (HQ)
- Robert Leitch (FEM)
- Patti Duett (ITL)
- Maze Ercums (HQ – Real Estate)
- Rora Glenn (REMIS)
- Dave Weyer (HQ)
- Jose E. Sanchez (HQ)



# corpsglobeweb.usace.army.mil/assetmanagement

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HOME NEWS WHO WE ARE MISSION HISTORY RELATED LINKS KIDS CORNER



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RESPONSIVE  
RELIABLE**

*Proudly serving the Armed Forces and the Nation now and in the future.*

HOW DO I...  
» Contact AM?

## Welcome to Asset Management



J. Percy Priest Dam

The Corps is responsible for more than 200 billion dollars of water resource infrastructure assets that provide a diverse and critical service to the nation. As stewards of these assets, the Corps has a tremendous responsibility to Congress and to the American taxpayer to sustain this infrastructure at its highest levels of performance.

As service life of this aging infrastructure often extends beyond the design life, it is imperative that we have an integrated national plan for assessing those assets and an investment strategy for operation, maintenance, and infrastructure enhancements to improve reliability, minimize risk, and meet projected infrastructure demands.

The Corps' Asset Management program focuses on the reality that operations and maintenance requirements for managing aging infrastructure will continue to grow more than authorization of new capital investments. Smart, long-term planning strategies to extend the useful life of this infrastructure must be pursued with rigor so that limited funds

## ASSET MANAGEMENT NEWS

[Workshop on Asset Management and Risk Assessment of Coastal Structures](#)

June 18-19, 2008  
Chicago, IL

## MISSION STATEMENT

The mission of Asset Management is to manage the life cycle cost of infrastructure assets with innovative and adaptive strategies to ensure those assets continue to provide value to the nation and meet expected levels of service while mitigating risk.

## PRESIDENT'S MANAGEMENT AGENDA SCORECARD

The Executive Branch Management Scorecard tracks how well the departments and major agencies are executing the five government-wide management initiatives. To view the scorecard [click here](#).

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