

trade-offs. AM will be the unifying catalyst to ensure integration of business lines, major programs, and initiatives to improve vertical and horizontal communication and collaboration. AM will also leverage resources, eliminate duplication, evaluate economic and other consequential trade-offs, adapt to new and anticipated requirements, and benefit from synergy.

Ultimately, this corporate USACE AM approach will provide common practices for inventorying, assessing, and categorizing assets in the watershed to help determine each asset's strengths, weaknesses, and value to the system's mission, and will:

- Provide a strategy for operations, maintenance, capital investment, and disposition decision-making at all levels.
- "Right-size the asset inventory" and balance benefits, consequences of failure, and risk against life-cycle costs.
- Help USACE improve reliability, minimize risk, and meet projected infrastructure demands.
- Formalize business processes that standardize best practices, promote accountability, and predict work requirements.
- Support defensible budgets that account for requirements at the watershed system level.

Did You Know?

The National Operational Condition Assessment tool will be used to ensure a uniform, consistent, and repeatable process to support risk-informed budget decisions.

Who is responsible for AM in USACE?

Although USACE now has a dedicated Asset Management team at its headquarters, ultimately, everyone within USACE has a role in AM. The headquarters team is leading the establishment of a USACE-wide dynamic asset management culture by serving as the catalyst to spearhead the integration of business lines, major programs and initiatives, and Division and District AM efforts.

How do I get more information about USACE's AM initiatives?

Contact Asset Management at:
DLL-CECW-COA@usace.army.mil

Visit the AM websites:

Public

<http://operations.usace.army.mil/asset.cfm>

Internal Corps

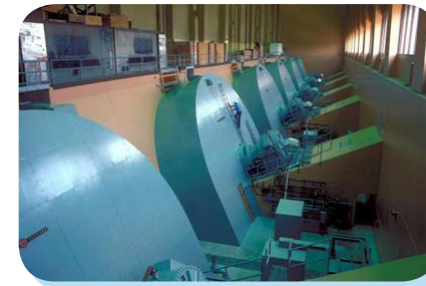
<https://kme.usace.army.mil/CoPs/AMC/default.aspx>

Operational Condition Assessment



ASSET MANAGEMENT VISION

"A persistent catalyst for holistically integrating and enhancing the sustainment, restoration, modernization, and disposition of USACE water resources to continually serve the Nation."



ASSET MANAGEMENT



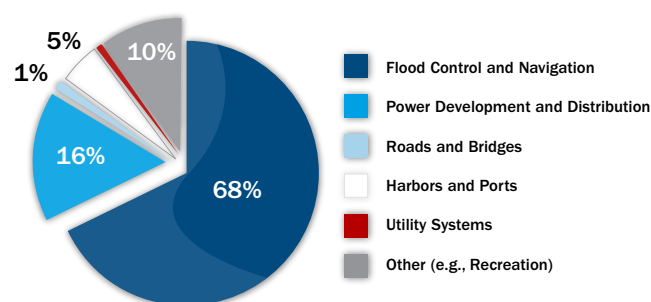
**US Army Corps
of Engineers®**



What is Asset Management (AM) and why is it important?

The U.S. Army Corps of Engineers (USACE) is the steward of the fourth largest asset portfolio, by value, of all federal agencies. USACE operates, maintains, and manages more than \$232B worth of the Nation's water resource infrastructure assets. From navigation locks and hydropower plants to dams and recreation areas, these assets are a vital part of the Nation's economy, safety, and security, and USACE must manage them in an accountable and responsible manner. USACE will carry out this responsibility through "asset management," a risk-informed decision-making approach that assesses the life-cycle of a portfolio of projects within a watershed system.

USACE Infrastructure Assets
\$232B of Structures



Did You Know?

Assets in the four business lines of hydropower, navigation, flood control, and recreation constitute more than 94% of the total value of USACE assets.

While USACE has been managing its assets since its inception, to ensure continued success, it is critical that a formal AM approach be pursued because:

- **There are limited resources for managing assets.** USACE faces increased competition for funds externally and within its expanding missions.
- **Assets are reaching or exceeding their design lives.** Over half of USACE's navigation

locks and dams are more than 50 years old. Comprehensive, long-term planning strategies are needed to safely extend the useful lives of these assets, invest limited funds wisely, enhance public safety, and reduce or mitigate the consequences of infrastructure failure.

- **Accurate asset information is needed to support budget requests.** USACE must develop clear business cases to support infrastructure investments.
- **Previous AM efforts produced varying levels of AM maturity among business lines.** A corporate AM approach will formalize AM practice, drive integration across USACE business lines and major programs, and achieve agency-wide consistency.
- **Business practices must comply with federal mandates and the USACE Campaign Plan.** Federal mandates require Executive Branch agencies to collect and report information about their assets and implement agency-wide AM practices. Additionally, many USACE Campaign Plan goals and objectives are directly or indirectly AM related.

Did You Know?

The USACE's Facility and Equipment Management (FEM) system is a computerized maintenance management system that provides an important building block of the AM program.

What is unique about USACE's AM approach?

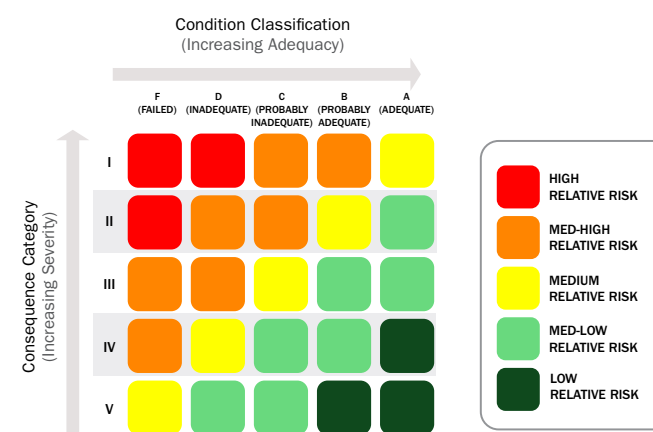
Although USACE is not alone in implementing an AM program, two major aspects differentiate the USACE AM effort from those of other agencies:

- **Its diverse, multi-purpose asset portfolio.** USACE assets range in size and complexity, span large geographic areas, and serve various functions. Its portfolio consists of structures for river navigation, hydropower, and flood risk management, recreation areas, fish ladders, utility systems, and laboratories. These assets range from simple boat launches to massive dams, extensive levee systems, and locks as long as four football fields. In managing and

sustaining this unique portfolio, USACE must balance the competing demands of a single asset having multiple functions. For example, a dam may simultaneously support power generation, water supply management, flood risk management, navigation, and recreation.

- **A risk-informed approach.** To address the multi-purpose character of its assets, USACE's AM approach centers on a risk-informed evaluation methodology. Under this approach, the evaluation includes assessing the current condition of an asset and the consequences of its failure in order to establish a relative risk index to support portfolio investment decisions within a watershed system.

Relative Risk Ranking Matrix



Did You Know?

Asset Management was formally established at USACE headquarters in 2008 and the AM Community of Practice was formed in 2009 to support AM professionals throughout the organization.

Where is USACE AM heading?

USACE plans to expand its life-cycle management to incorporate a holistic and integrated approach that embraces a watershed system perspective. This enhanced AM outlook will enable risk-informed, life-cycle investment decisions. Management decisions will include an assessment of sustainment, restoration, modernization, and disposition projects, as well as portfolio