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**U.S. Army Corps of Engineers** 

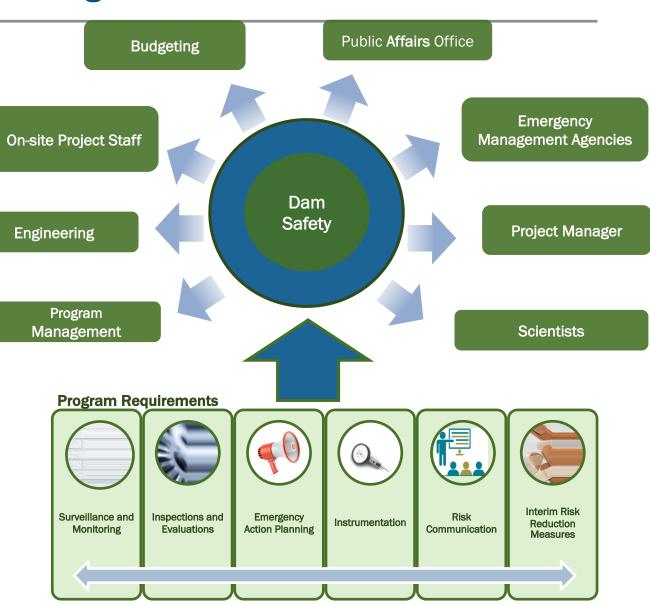


### What is a Routine Dam Safety Program?

# Integrates capabilities and expertise across the organization:

- ✓ Allows USACE to ensure safe operations of dams
- ✓ Enables USACE to meet mission requirements
- ✓ Leverages USACE's local functional areas, relationships, and enterprise processes
- √ Helps assess overall health of Dam Safety Program



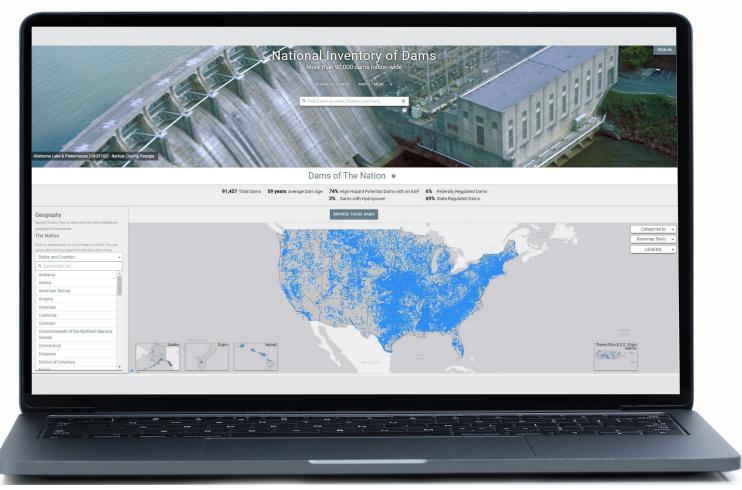


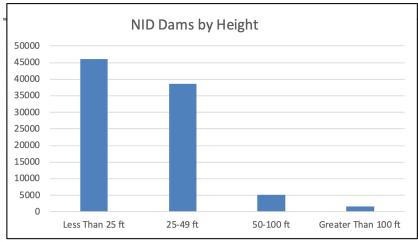
#### **Presentation Outline**

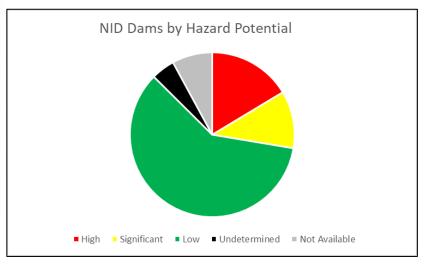
- USACE Inventory of Dams
- History of USACE Dam Safety Scorecard
  - What it is
  - What it is not
- Recent changes to USACE Dam Safety Scorecard
  - Why make changes
  - How it is being used
- Conclusion



### **National Inventory of Dams**

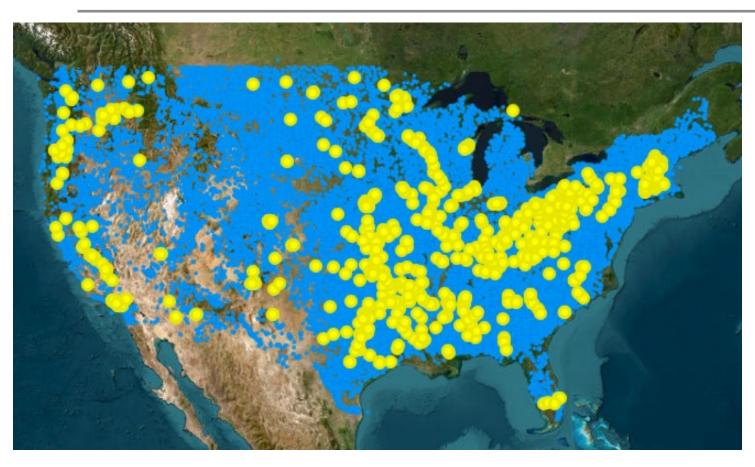


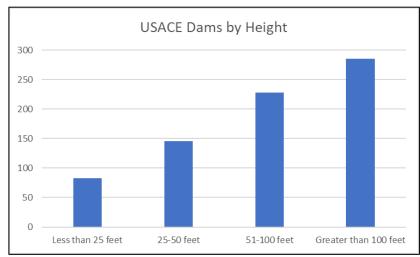


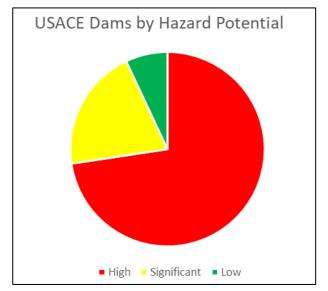




### **USACE Inventory of Dams 1**





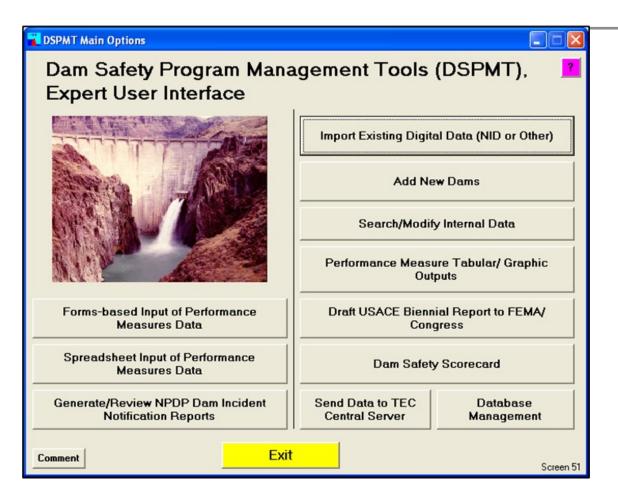




### **USACE Inventory of Dams 2**

- USACE uses routine and non-routine activities to inform risk management decisions through the assessment, management, and communication processes.
- USACE has Dam Safety Officers and Dam Safety Program Managers at all levels of the organization.
- USACE is a self-regulated dam owner





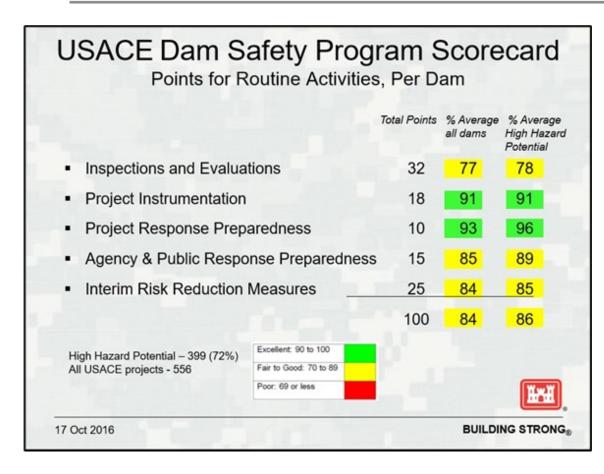
- Documenting the condition and performance of USACE dams
- Tracking the status and progress of the implementation of the dam safety program
- Reporting information regarding the Agency's inventory of dams periodically to the National Inventory of Dams (NID), FEMA, and Congress





- Staffing (DSPPM 2)
- Inspections and Evaluations (DSPPM 3)
- Identification and Remediation of Deficient Dams (DSPPM 4)
- Project Response Preparedness (DSPPM 5)
- Agency and Public Response Preparedness (DSPPM 6)





#### What it is:

Provides a numerical and graphical report of the implementation of routine dam safety activities on a per dam basis.

#### What it is NOT:

Not used as an indicator of the dam's condition nor to determine its risk or prioritization in the portfolio of dams





- The numerical values assigned to each of the five sections are based on a series of questions for which points are awarded based on affirmative responses.
- If the user answers "Yes" to the scorecard questions, points are awarded; no points are awarded for "No" answers.
- The maximum score is 100 points.

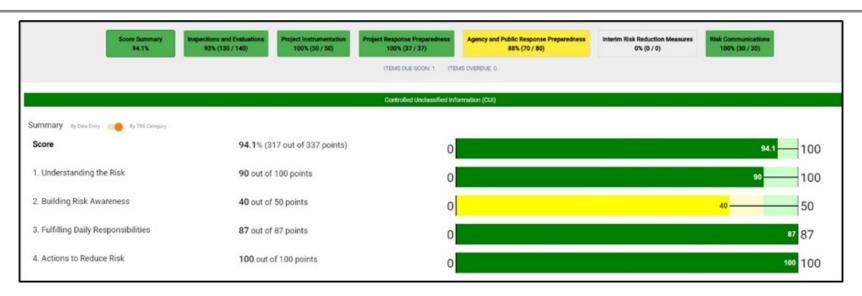


- Many of the questions and the 100-point structure have been in use since 2009.
- This long-term data collection allows USACE to see trends and compare/review data for more than 10 years.
- However, these metrics should be reviewed to ensure they are measuring the most important activities and granting the appropriate points.
- As USACE's understanding of the risks associated with its dams matures, the metrics evolve to capture the current priorities and guidance.



- Should the Scorecard be limited to 100 points?
- Do all categories need to apply to all dams?
- Do the five performance measures still make sense or should they be expanded to align with current program requirements and efforts more closely?
- Should the Scorecard be organized by the Tolerable Risk Guidelines (TRGs) or have a Scorecard for each TRG?
- What about current Risk Communication activities?





- Does not need to equal 100 points for every project and is better represented as a percentage for applicable items.
- If a metric does not apply for a project, it does not count towards that project's total.





- Districts include Scorecard discussions in their regional dam safety committee meetings and internal briefings on their highest risk dams.
- The Scorecards are useful when defending budget requests to highlight the need for funding items or activities that are not being accomplished.



#### **Conclusion**

- Due to the trust and funding bestowed by Congress through the U.S taxpayer, it is imperative that USACE demonstrate it is acting as a responsible dam owner.
- One of the ways it accomplishes this is through a self-monitoring series of questions and metrics upon which the overall health of the Dam Safety Program can be measured, reported, and improved.
- Should you consider a Scorecard that will assist in measuring how well you (or your organization) are implementing the Dam Safety Program?



## Thanks for your attention.

### Young Professionals:





### Seasoned Professionals:

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- NID National Inventory of Dams (https://nid.sec.usace.army.mil)