

**Vision:** To lead collaborative, comprehensive and sustainable national flood risk management to improve public safety and reduce flood damages to our country.

**Mission:** To integrate and synchronize the ongoing, diverse flood risk management projects, programs and authorities of the US Army Corps of Engineers, and with counterpart projects, programs and authorities of FEMA, other Federal agencies, state organizations and regional and local agencies.

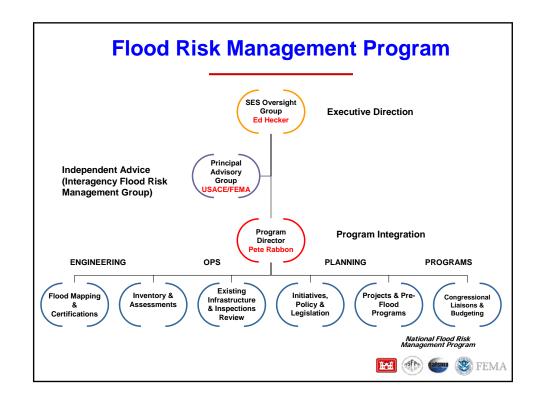












#### Strategic Goals

- 1. Provide current accurate floodplain information to the public and decision makers.
- 2. Identify and assess flood hazards posed by aging flood damage reduction infrastructure.
- 3. Improve public awareness and comprehension of flood risk.
- 4. Integrate flood damage and flood hazard reduction programs across local, State, and Federal agencies.
- 5. Improve capabilities to collaboratively deliver and sustain flood damage reduction and flood hazard mitigation services to the nation.

National Flood Risk Nanagement Program









# **FRMP - Objectives**

Bring everyone to the table

**Develop/maintain strong partnerships** 

Improve processes, identify gaps, and make recommendations

Leverage resources and information

Be active participants with State-wide planning









#### **Existing Infrastructure & Inspections Review**

- Single inspection program
- Increased robustness
- Consistent and complete inspections
- Inspections to meet USACE and FEMA requirements
- Inspection of Completed Works Trees on levees

National Flood Risk Management Program









# Flood Risk Management Program

## **Inventory & Assessments**

- Developed a GIS spatial database
- National levee inventory
- Assessment methodology
- · List of deficiently maintained levees
- Legislation for a national program to include nonfederal levees









#### **Flood Mapping & Certifications**

- Reprioritized inspection funds
- Engineering Technical Letter
- Collaborative Policy with FEMA
- · Certification guidance
- · Risk Analysis .vs. Freeboard
- Provisionally Accredited Levees and Maintenance **Deficiency Correction Period**

National Flood Risk Management Program







# Flood Risk Management Program

## **Initiatives, Policy & Legislation**

- Silver Jackets
- National Policy Summit
- Internal administrative changes
- Interagency Flood Risk Management Committee
- WRDA
- Risk communication
- Policy guidance
- Outreach









### **Projects & Pre-Flood Programs**

- · Seamless programs within USACE
- · Align federal and local programs
- · Watershed approach
- · Apply best policies

National Flood Risk Management Program







#### **S** FEMA

# **Flood Risk Management Program**

## **Congressional Liaisons & Budgeting**

- Transparency
- Funding







# **Levee Safety Program Mission**



West Columbus, Ohio

Assess the integrity and viability of levees and recommend actions to assure that levee systems do not present unacceptable risks to the public, property, and the environment

- •FEMA CORPS Coordination
- National Levee Inventory
- ·Risk Assessment Methodology
- Corps New Levee Safety Program
- •NFIP Levee Certifications for FEMA
- ·I-walls

National Flood Risk Management Program









## **Phase II - Risk Assessments**

Seepage and Piping Toolbox

**H&H** Toolbox

Stability Toolbox

Structural Stability Toolbox

**Erosion Toolbox** 

Seismic Toolbox

Mechanical Toolbox

**Human Factor Toolbox** 

Consequence Toolbox (Economics, Loss of Life)







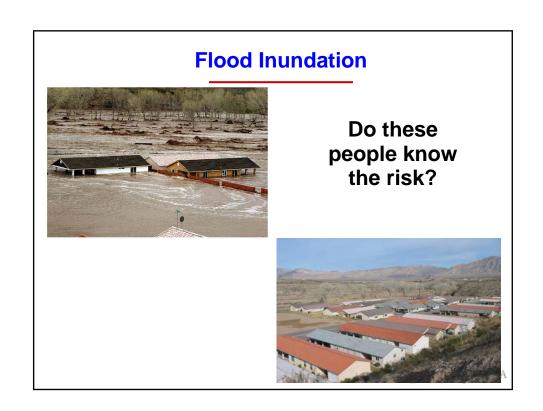


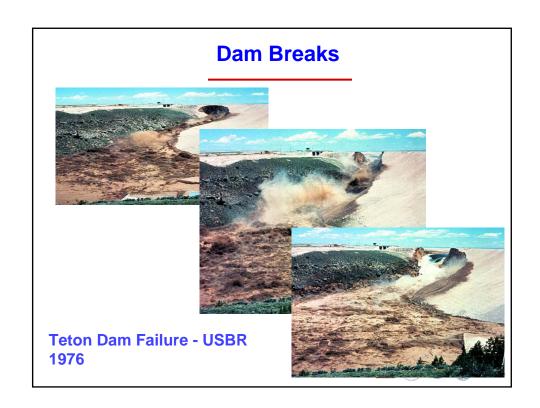


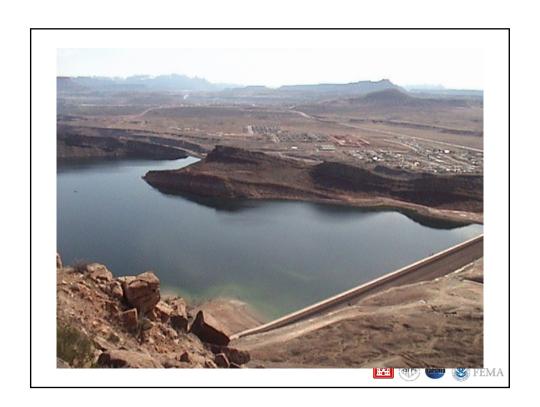


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## **Other Risks To Consider**

- · Risks due to erosion hazard potential
- Risks due to sedimentation, vegetation, and avulsion
- · Risks due to inadequate emergency preparedness
- · Risks due to inadequate design
- Risks due to upstream construction
- · Risks due to inadequate monitoring
- · Risks due to changed hydrologic conditions
  - Fires or upstream development
- Risks due to deferred maintenance

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## Why Communicate Risk?

from the Emergence of Risk Communication Studies, Plough and Krimsky

- The transition from folk discourse to modern risk communication was necessitated by "the rise of the modern state with an implied responsibility for general social welfare functions."
- "The modern state's legitimacy, in part, derives from its claim to protect the population from physical harm."
- "When risk communication becomes embedded in the political arena, it is less about risks per se than about responsibility or accountability for certain events."









## **Risk Communication Problems**

#### **Receiver Problems**

#### **Lack of Interest in Risk Information**

-"yet another thing for me to worry about...?"

#### **Incorrect Estimation of Risk**

-people often underestimate the risk of occurrences that are actually more common

#### **Misunderstanding of Probability**

-"it just happened, so it won't happen again for a while..."











# Before Effort to Limit Risk... 1/500 🔻 1/200 -1/100 1/50 1/10 Corps of Engineers IWR-HEC FEMA

