



**WATER
AGENCY**

2023 Hazard Mitigation Plan Update October 16, 2024

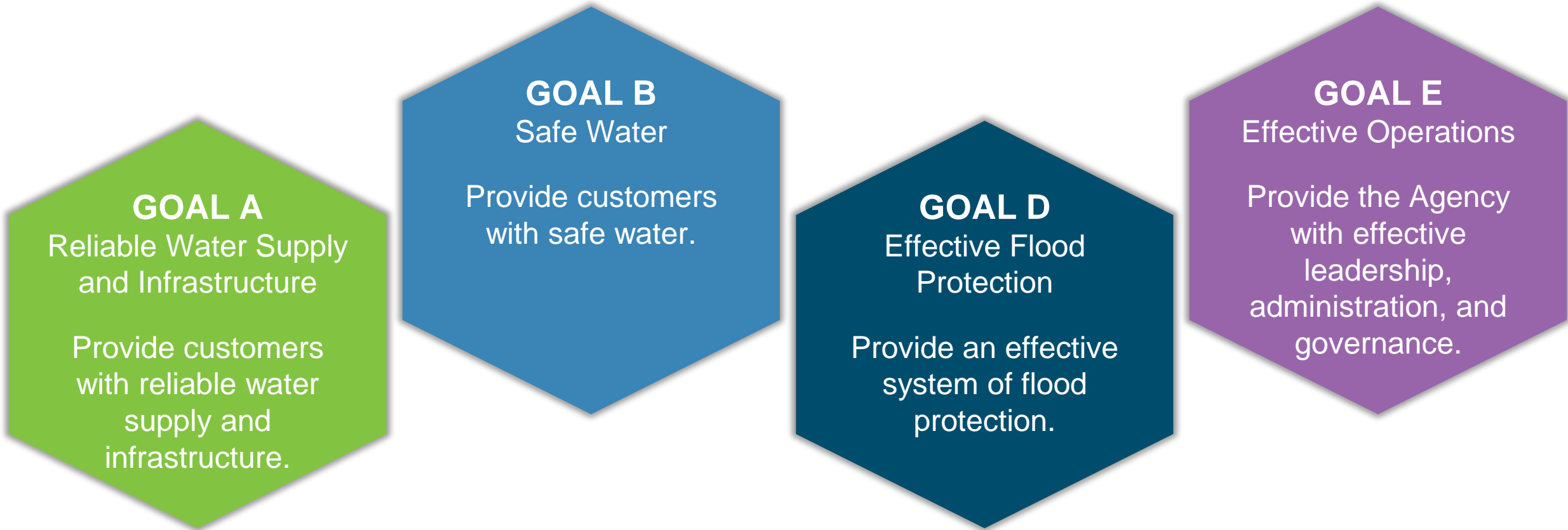
Kevin Padway – Zone 7
Ryan Bray – Risk Management Professionals

Agenda

- Background
- 2023 HMP Update
- Recommendation



Strategic Plan Alignment

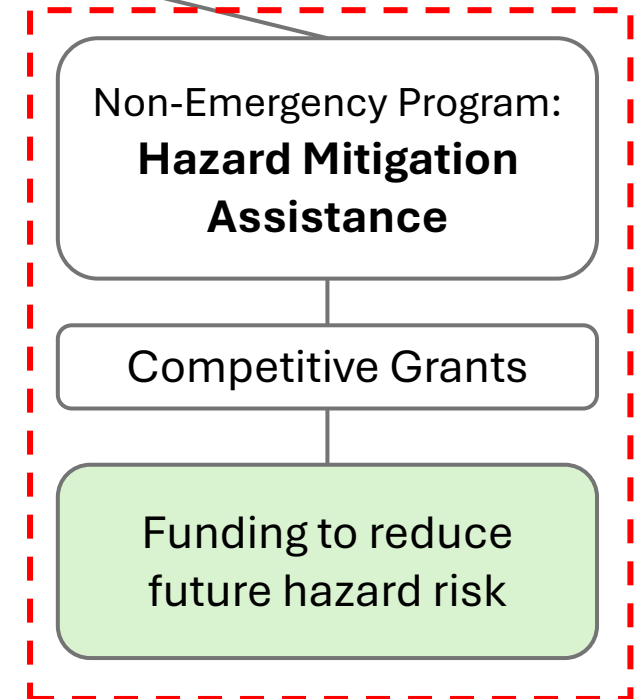
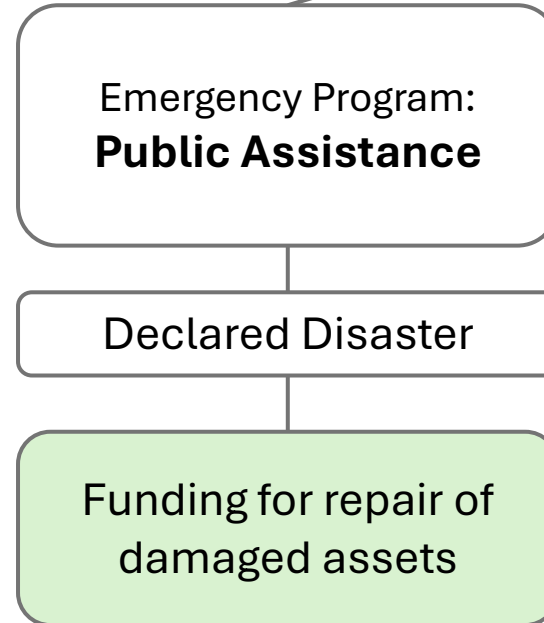


Background



Hazard Mitigation Plans

- Planning document
- Meet federal requirements under the Disaster Mitigation Act
- Required for eligibility for funding in FEMA's **non-emergency** grant programs



What is a Hazard Mitigation Plan (HMP)?

- Considers **natural hazard** risk, but may also consider other risks
- Fosters public participation, interagency coordination, and hazard awareness



Drought



Earthquakes



Wildfires



Landslides



Extreme Temperatures



Inland Flooding



Tornadoes



Hurricanes



Coastal Flooding



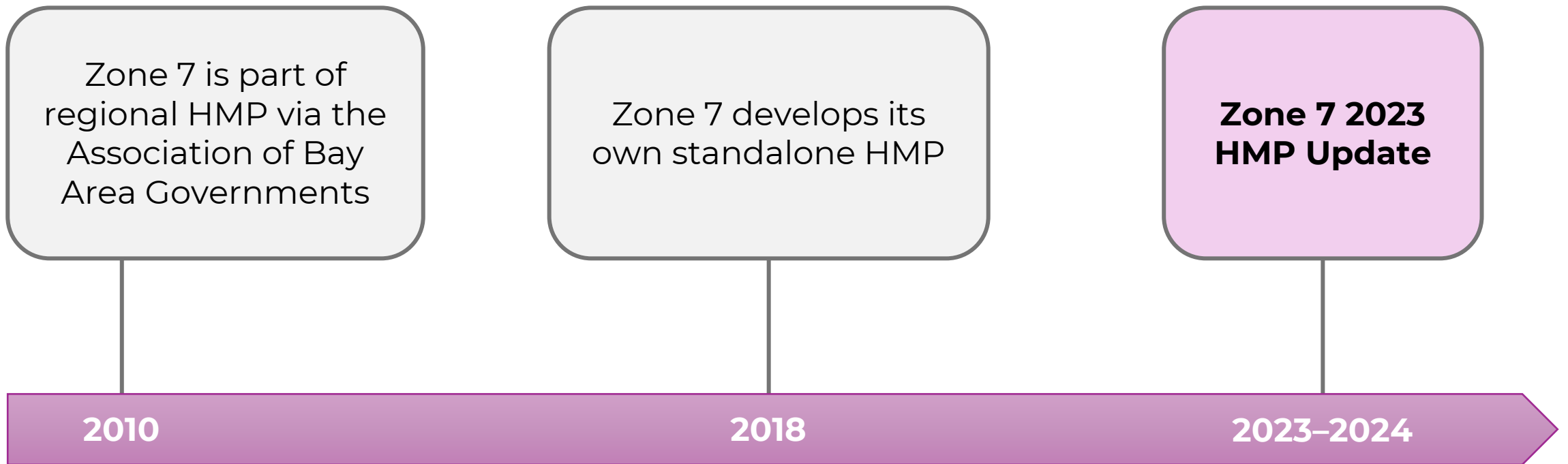
Tsunamis



Winter Storms

Zone 7's HMP History

- The 2023 HMP is an update to Zone 7's 2018 HMP



Zone 7 HMP Objectives

- Evaluate hazard risk for Zone 7 operations
- Identify long-term strategies for risk reduction
- Increase internal and public hazard awareness
- Engage with the public and interested parties
- Continue to track and consider opportunities to leverage federal grant funding for hazard mitigation



2023 HMP Update



Study Components

- Review of the 2018 Plan
- Review of other relevant Zone 7 plans
- Zone 7 facilities and services risk assessment
- Local hazard vulnerability analysis
- Asset inventory and loss estimates
- Long-term mitigation strategy development
- Inclusion of vulnerable populations and climate change

Study Process

- Convened 14-person steering committee
- Five workshops/meetings to contribute to:
 - Update HMP goals
 - Evaluate hazards
 - Develop mitigation strategies
- Public Outreach
 - Meetings/workshop, online survey, comment period

2023 HMP Goal Statements

- Protect life and property
- Improve Emergency Preparedness and Management Capability
- Protect the Environment
- Promote Public Awareness and Outreach

Hazard Evaluation

- Evaluated 9 hazards via a FEMA's methodology



- Considered Zone 7's **exposure** and **vulnerability** to the hazard, as well as the **likelihood of occurrence** of each hazard
 - Exposure considers whether an asset is in the hazard area (e.g., in the floodplain)
 - Vulnerability considers the how susceptible the asset is to damage from the hazard (e.g., building type, foundation height)
 - Likelihood of occurrence considers the probability of the hazard event occurring (e.g., the probability of a flood of a certain magnitude)

Hazard Evaluation

- Hazard ranking reflects the combination of exposure, vulnerability, and likelihood of occurrence
- *Flood/Severe Storms* and *Drought* had the highest hazard ranking
- Hazards considered with reference to Zone 7 jurisdiction
- Vulnerable populations considered in accordance with new guidance.

Hazard Ranking

High	None
Moderately High	None
Moderate	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block; margin-right: 10px;">Flood/Severe Storm</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block;">Drought</div>
Moderately Low	<div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block; margin-right: 10px;">Wildfire</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block; margin-right: 10px;">Earthquake</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block; margin-right: 10px;">Utility Loss</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block; margin-right: 10px;">Infrastructure Failure</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block;">Water Contamination</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block; margin-right: 10px;">Dam Failure</div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block;">Terrorism/Adversarial Events</div>
Low	None

Conceptual Mitigation Actions

- Guidelines require development of mitigation actions
- Plan identifies and ranks 25 conceptual mitigation actions
- These actions will be considered and prioritized through Zone 7's existing budgetary and planning processes



Next Steps

- The Plan is Conditionally Approved by FEMA
- **Board approval** of the 2023 HMP is required to achieve Final Approval
- The plan maintains Zone 7's eligibility status to pursue FEMA mitigation grant funding
- Staff will continue to evaluate opportunities to leverage FEMA mitigation grant funding

Recommendation



Recommendation

- Staff recommends the Board adopt the resolution to approve the 2023 HMP



Questions?

