

Emergency Planning and Funding Recovery Efforts

If your control panel looks like this - Click on the flower and switch to Desktop



- BROADBAND
- CLOTHING
- COMMUNICATE
- DROUGHT
- EARTHQUAKE
- EQUIPMENT
- FLOOD
- FOOD
- HELP
- MITIGATE
- PLAN
- PREPARE
- RECOVER
- REFUGE
- RESOURCES
- RESPONSE
- SANDBAGS
- TORNADO
- TSUNAMI
- TYPHOON
- WILDFIRE

Word Search #1

H	E	R	I	F	D	L	I	W	A	T	S	D	D
Q	T	D	T	H	G	U	O	R	D	S	C	O	B
R	O	M	I	T	I	G	A	T	E	U	E	R	R
E	R	E	S	O	U	R	C	E	S	N	A	E	O
F	N	E	C	G	K	K	A	H	B	A	R	R	A
U	A	S	T	L	A	H	P	E	N	M	T	A	D
G	D	N	E	R	O	B	D	L	O	I	H	P	B
E	O	O	L	T	D	T	D	P	P	N	Q	E	A
T	Y	P	H	O	O	N	H	N	S	L	U	R	N
T	L	S	U	R	O	O	H	I	A	U	A	P	D
T	N	E	M	P	I	U	Q	E	N	S	K	N	R
G	U	R	D	O	O	L	F	O	A	G	E	G	B
C	A	C	D	O	O	F	R	E	C	O	V	E	R
Q	C	O	M	M	U	N	I	C	A	T	E	U	G

Slide 1

- 0 Delete this. There will not be time for this in the sessions.
Lori Blau, 2023-10-13T15:23:04.718



Rural
Community
Assistance
Partnership

Vulnerability Assessment, Emergency Response Plan and Funding

October 26, 2023

RCAC, the western RCAP, is an equal
opportunity provider and employer.





Rural Community Assistance Partnership



RCAP National Office



COMMUNITIES
Unlimited

RCAC Programs

- Affordable housing
- Economic Development
- Loan Fund
- Classroom and online training
- On-site and remote technical assistance
- Income surveys and rate analysis

Your presenter today...

Tricia Kent

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Discussion Question #1

How long have you worked in the water or wastewater field?

1. Less than 1
2. 1-5
3. 5-20
4. 20+

Slide 6

- 0 If you are short on time, you may want to drop one of these.
Lori Blau, 2023-10-13T15:23:50.787

Discussion Question #2

What is your current role with your system?

1. Operator
2. Manager
3. Board Member / Decision Maker
4. Regulator
5. Technical Assistance Provider
6. Other



For today....

We're traveling at 30,000 feet, getting a really high-level view of what goes into planning for disasters.

Vulnerability and Vulnerability Assessments

Potential Hazards to Water Supplies

Natural Disasters and Unintentional Acts

- _____
- _____
- _____
- _____

Intentional Acts (focus of Bioterrorism Act)

- _____
- _____
- _____
- _____

Potential Hazards to Water Supplies

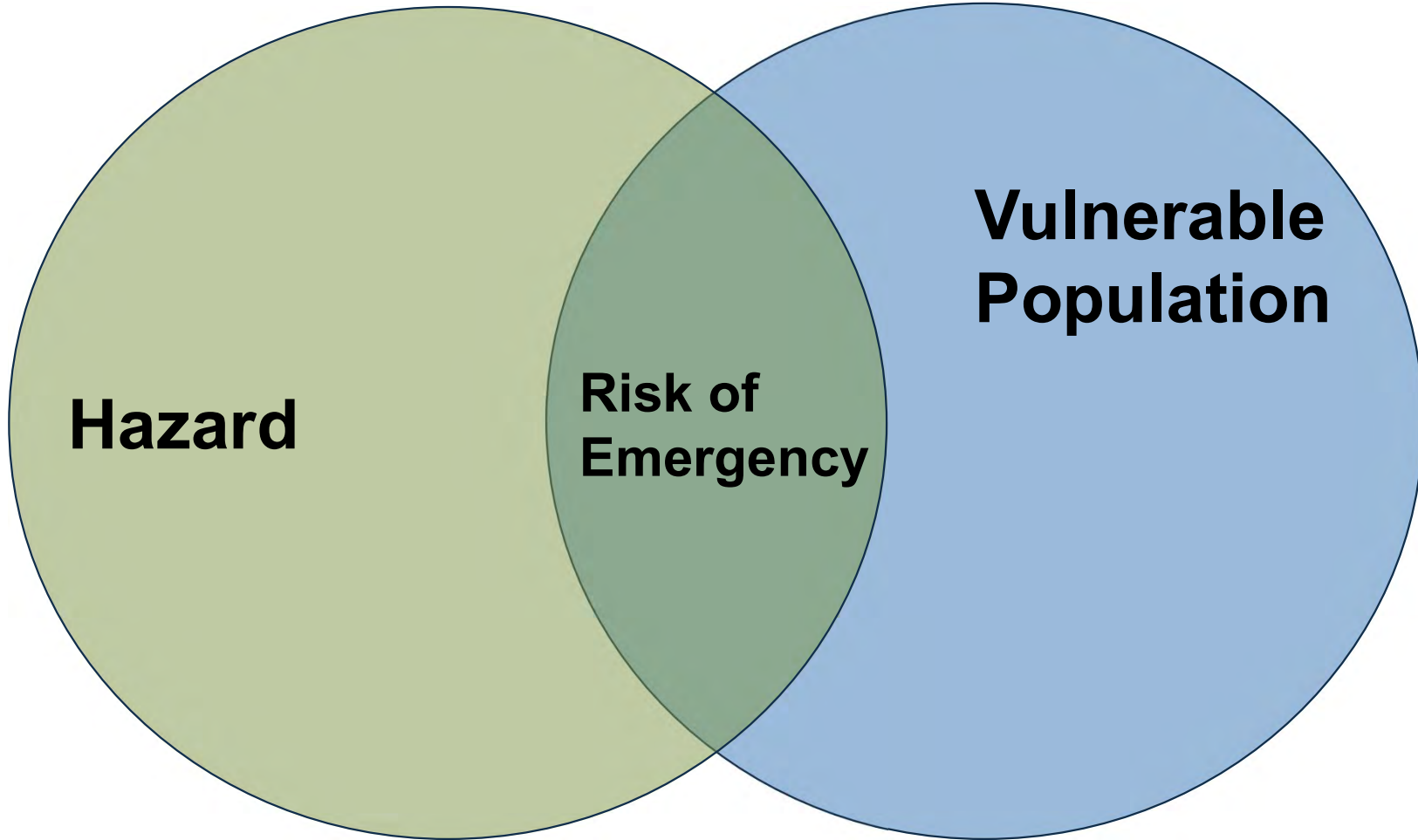
Natural Disasters and Unintentional Acts

- Accidents
- Hurricanes/Tornados
- Pandemics
- Wildfires

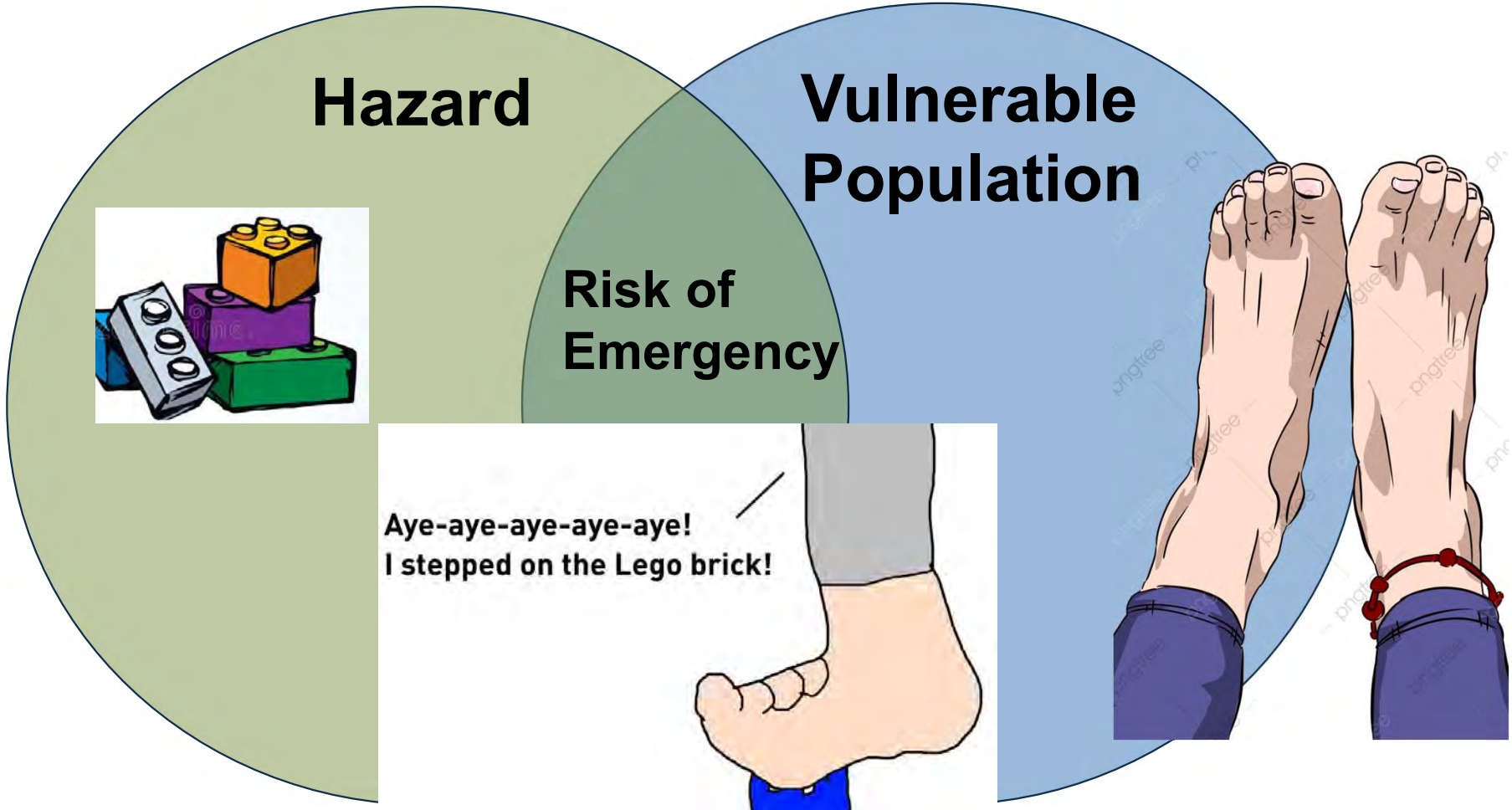
Intentional Acts (focus of Bioterrorism Act)

- Trespassers
- Criminals
- Activist Groups
- Disgruntled Employees
- Angry customers

How does an Emergency Happen?



How does an Emergency Happen?



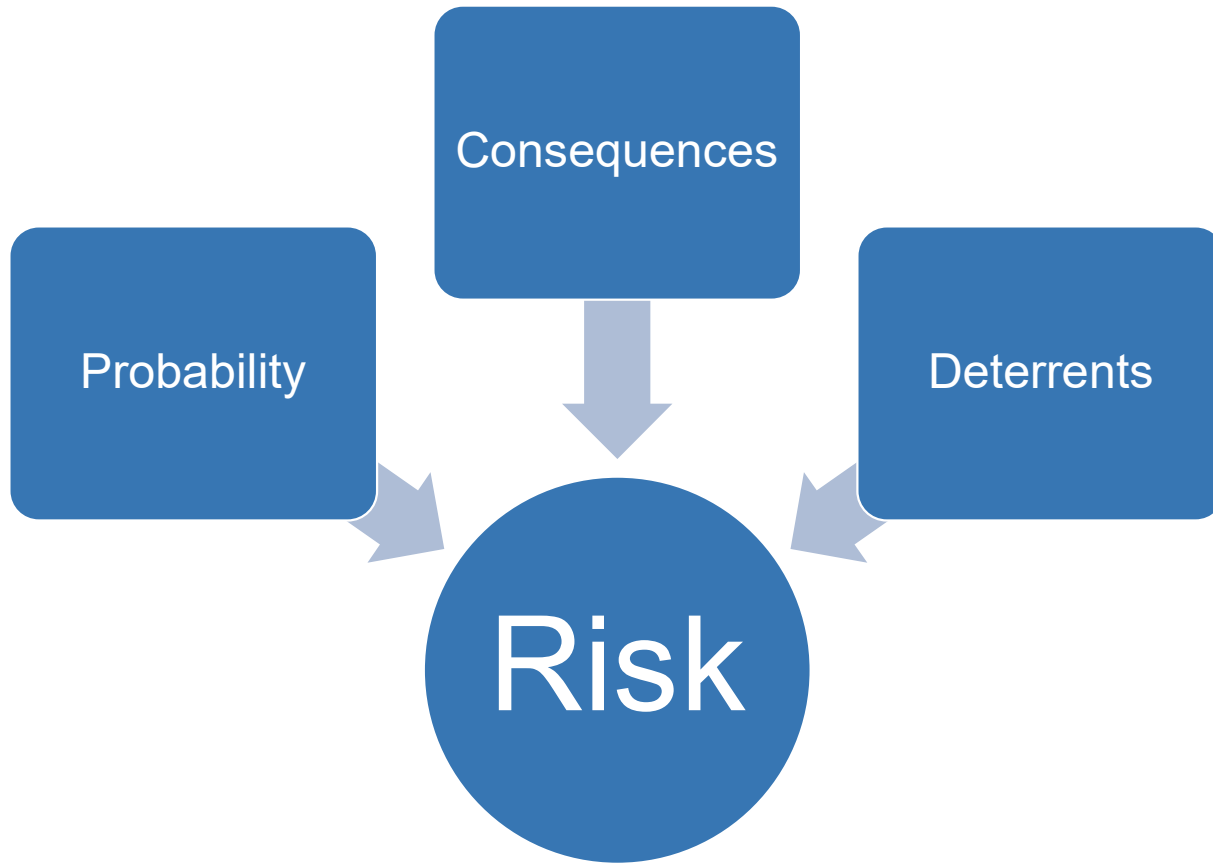
Discussion Question #3

Has your water system experienced any of these events?

1. Cyber threats (hacking of computer systems or SCADA)
2. Vandalism
3. Transportation accident
4. Sabotage
5. Contamination
6. Wildfire

Others?

Vulnerability – Risk Determination



The Vulnerability Assessment Process*

1. Inventory critical system components
2. Identify vulnerabilities
3. Identify actions to address vulnerabilities
4. Prioritize actions

*from ASDWA/NRWA tool

1. Inventory of Critical Components

- **Raw water sources:** dams, intake structures, reservoirs
- **Treatment plant:** clarifiers, pumps, mixers, chlorination equipment
- **Finished water:**
clear wells, remote storage tanks, distribution systems



2. Identify Vulnerabilities



3. Identify Deterrents



4. Prioritization of Needed Actions

		Impact		
		Low	Medium	High
Probability	High	Low	Medium	High
	Medium	Low	Medium	Medium
	Low	Low	Low	Low

Discussion Question #4

Do you know the vulnerabilities of your system?

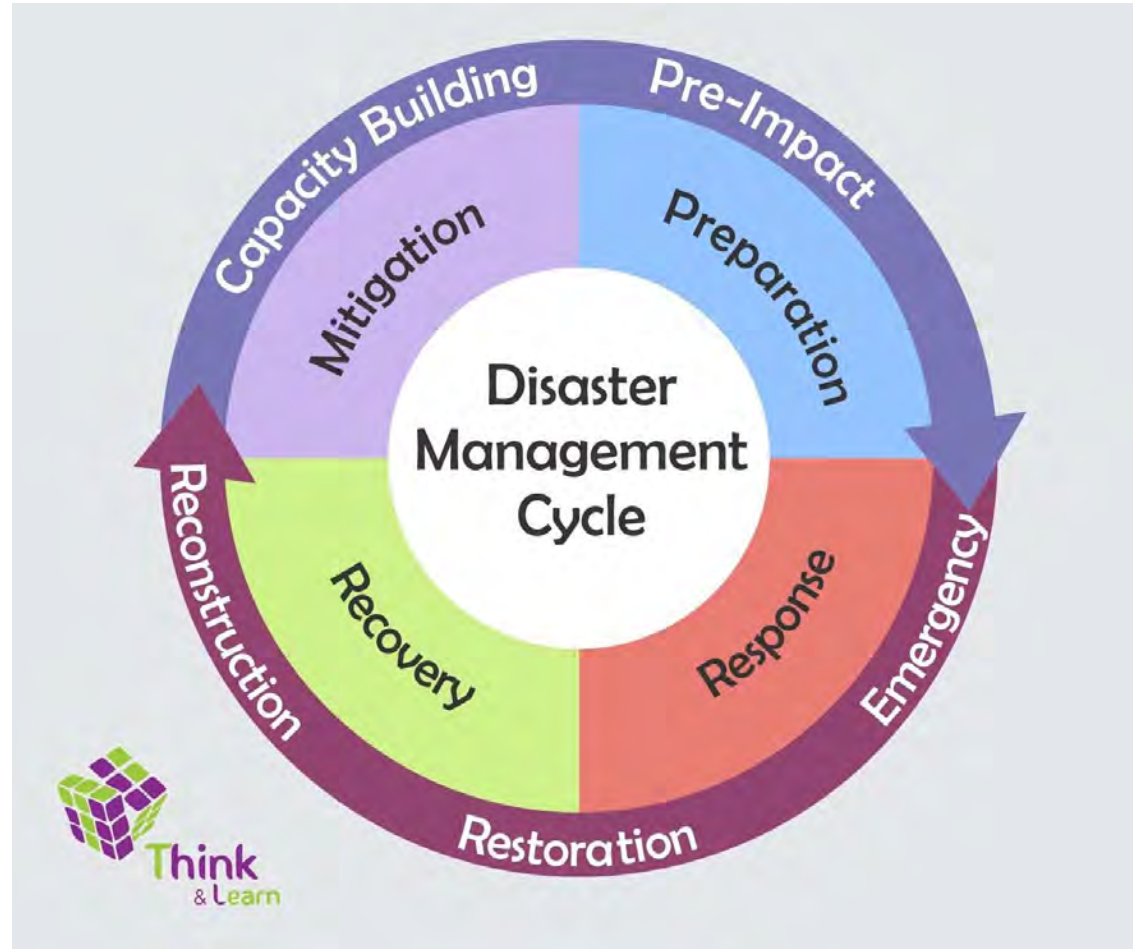
- A. Yes
- B. No
- C. Not sure

Slide 21

- 0 I don't know how much time you will have for discussion. Have you time out the presentation?
Lori Blau, 2023-10-13T15:28:58.586

Emergency Mitigation and Readiness

Disaster Management Cycle



Building a Response Plan

Recipes For Disaster

- It can't happen here
- We don't have time to plan
- We're too busy to drill
- We already have a plan
- No need to update
- It's not our job
- We can't pull it off
- We didn't think of it



Slide 25

- 0 Maybe a visual here on this slide?
Lori Blau, 2023-10-13T15:32:02.043

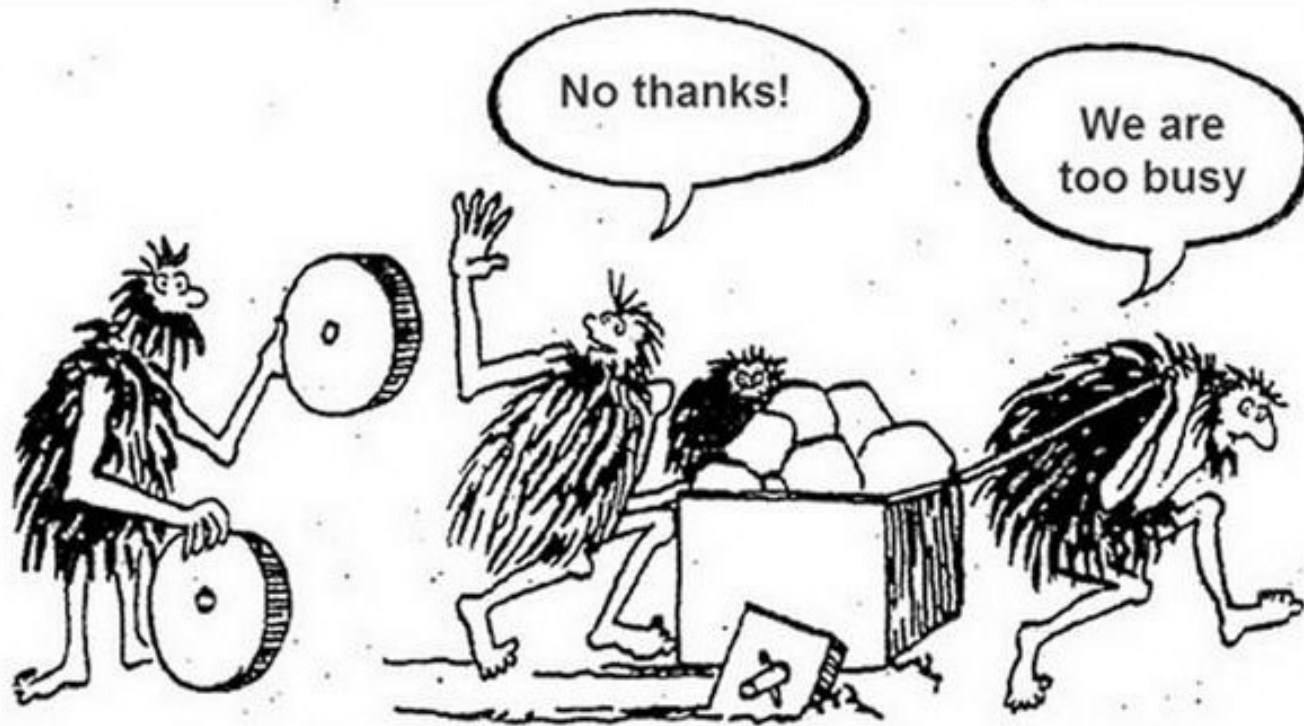
Emergency Response Plan – Why?

- It prepares you to take action after a major event and recover- which is what our customers are depending on
- It's our responsibility as guardians of public health
- It's required by law for systems serving greater than 3,300 population (*Public Health Security and Bioterrorism Act of 2002*)



**Maybe if she didn't look at the paperwork,
it would just go away.**

Don't reinvent the wheel - use a template!



Emergency Response Plan 8 Core Elements

1. Water system information
2. Roles and responsibilities
3. Communication procedures
4. Personnel safety

Emergency Response Plan 8 Core Elements

5. Alternative water sources
6. Replacement equipment and chemical supply sources
7. Property protection
8. Water sampling and monitoring

1. Water System Information

- PWS ID, Owner, Contact Person
- Population served & service connections
- Distribution / service area map
- Overall process flow diagrams
- Site plans

1. Water System Information

- Operating procedures and system descriptions (back-ups and interties)
- SCADA process control system
- Communications system operations
- Chemical handling and/or storage facilities

2. Roles and Responsibilities

- Name an Emergency Response Lead
- Name a back-up ER Lead
- Identify a clear chain of command - use an organization chart

3. Communication Procedures

- Internal notification list
- External notification list
- Mutual Aid Agreement partners
- Other agencies
- Public/media notification strategy
- Emergency Operations Center

Slide 33

- 0 Make sure to note that it is critical to include 24 hour numbers for all the contacts. Should include equip operators, suppliers, electricians, mechanics, parts suppliers, etc.

Lori Blau, 2023-10-13T15:50:33.905

Emergency Operations Center (EOC)

Potential emergency operation centers should be identified

- Water system office
- Alternate site
- Fire department
- Law enforcement office



4. Personnel Safety

- Evacuation Planning
- Evacuation Routes and Exits
- Assembly Areas and Accountability
- Shelter
- Emergency Equipment
- First Aid
- Training and Information

5. Identify Alternate Water Sources

- Short Term vs. Long Term Need
- Which sources and why?

- 0 Add a picture
Lori Blau, 2023-10-13T15:39:38.671

6. Replacement Equipment and Supplies

- Current equipment
- Evaluate normal operations vs. emergency
- Repair parts
- Chemicals for normal operation
- Information on mutual aid agreements

7. Property Protection

- Lock down procedures
- Access control procedures
- Security perimeter
- Evidence protection measures for law enforcement
- Securing buildings against forced entry

8. Water Sampling and Monitoring

- Identify sampling procedures
- Obtain sample containers
- Who is responsible for collection and transport?
- Confirmation of laboratory capabilities
- Interpretation of results

Next Steps

- Establish a Drought Response Plan
- Establish a Water Shortage Response Plan
- Establish membership in a WARN (Water Agency Response Network): assistance within state

Next Steps

- Establish an EMAC (Emergency Management Assistance Compact): assistance across state boundaries
- Research the cross-border agreement Canada/ Washington
- Evaluate the plan annually
- If there are problems, fix it and test it again

Tips for Developing an Emergency Response Plan

1. Form a team (operators, managers, local law enforcement, first responders, etc.)
2. Inform and educate your customers about your ERP
3. Get help from a qualified third party
4. Do a thorough walk-through of the system

Tips for Developing an Emergency Response Plan

5. Prepare a vulnerability assessment (VA), keep sensitive information confidential
6. Formulate and test the emergency response plan (ERP) with drills
7. Periodically revise and update the plan

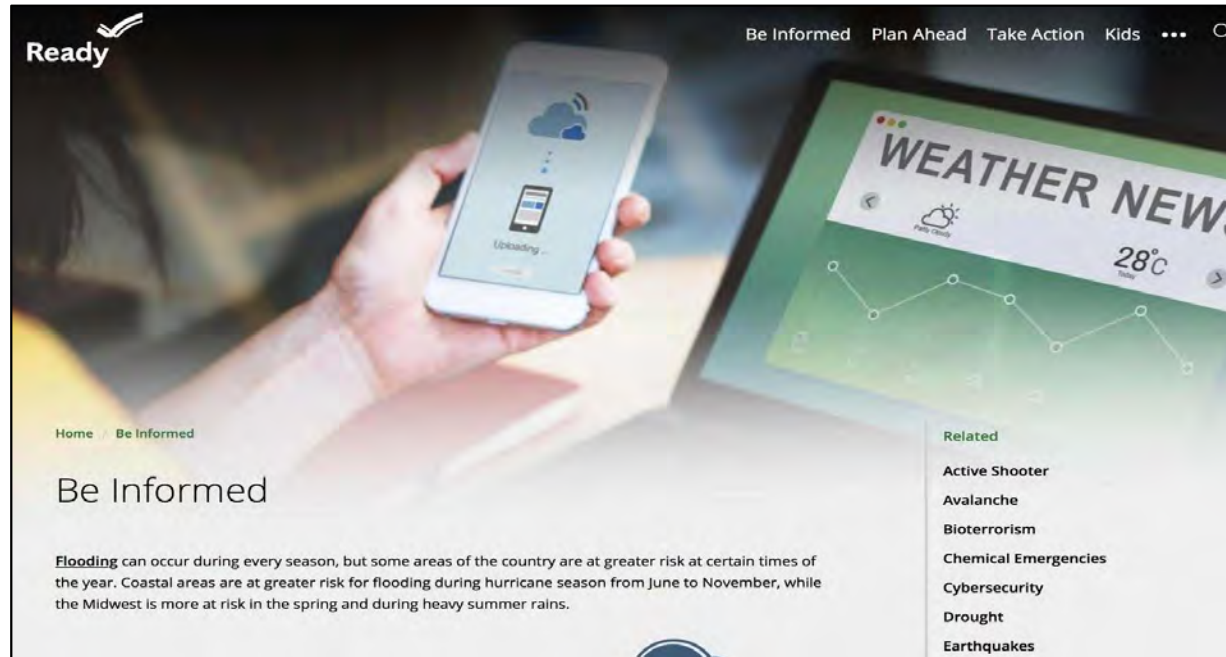
Discussion Question #5

Does your utility system emergency have an emergency response plan?

1. Yes
2. No
3. I don't know

General Resource for Emergency Response

<https://www.ready.gov>



Funding your Planning & Mitigation Projects

Now What?

When will you need money and for what?



Funding Sources

- Drinking Water SRF ([Drinking Water State Revolving Fund \(DWSRF\) | Washington State Department of Health](#))
- CDBG ([CDBG: Community Development Block Grant Programs - HUD Exchange](#))
- USDA RD ECWAG ([Emergency Community Water Assistance Grants | Rural Development \(usda.gov\)](#))
- RCAC ([Lending – RCAC](#))
- Rural Water ([Rural Water Loan Fund | NRWA](#))
- US Small Business Administration ([SBA](#))
- Others? Please share

Slide 48

0 Have you verified that these will support developing an ERP? I wasn't aware that ECWAG could be used for plan development. What you show in the notes would not lead me to believe you can use ECWAG for that, but I could be wrong. Verify w/USDA.

Lori Blau, 2023-10-13T15:43:11.434

1 I would also add that we can help develop plans under some of our contracts, not just loan fund.

Lori Blau, 2023-10-13T15:55:55.230

Funding Sources cont'd

Eligible Uses of Selected Federal Disaster Funding for Response, Recovery, and Mitigation Efforts						
Program	Emergency Repairs ¹ (M, R)	Planning and Design (M)	Construction / Capitalization (M, R)	Operation and Maintenance (R)	Technical Assistance ² (M, R)	Applicable to Private-for-profit Systems (M, R)
FEMA PA	✓	✓	✓			
FEMA HMGP		✓			✓	✓
EPA DWSRF	✓	✓	✓		✓	
EPA CWSRF	✓	✓	✓			
EDA Economic Assistance Programs		✓	✓			
HUD CDGB	✓		✓		✓	
HUD Section 108 Loan Guarantee			✓		✓	
SBA Disaster Loans	✓		✓	✓		✓
USDA ECWAG	✓	✓	✓	✓	✓	
WRDA 92, Section 219		✓	✓		✓	

¹M = Activity is related to Mitigation; R = Activity is related to Response/Recovery
²Technical Assistance = May include activities undertaken to help utilities recover from disasters (e.g., providing assistance to assess damages and identify restoration needs).

- 0 What is the source of this table?
Lori Blau, 2023-10-13T15:47:13.373

Resource: DisasterAssistance.gov



U.S. Department of Agriculture



U.S. Department of Commerce



U.S. Department of Defense



U.S. Department of Education



U.S. Department of Health and Human Services



FEMA

U.S. Department of Homeland Security/FEMA



U.S. Department of Housing and Urban Development



U.S. Department of Justice



U.S. Department of Labor



U.S. Department of State



U.S. Department of the Interior



U.S. Department of the Treasury



U.S. Department of Transportation



U.S. Department of Veterans Affairs



U.S. Office of Personnel Management



U.S. Small Business Administration



U.S. Social Security Administration

- A **one-stop** shop for disaster survivors:
 - Apply for assistance
 - Find disaster information, support and services

Questions?



Thank You!

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