



# **Kitsap County Community Warning System (CWS) Technical Advisory Committee (CTAC)**

February 12, 2020

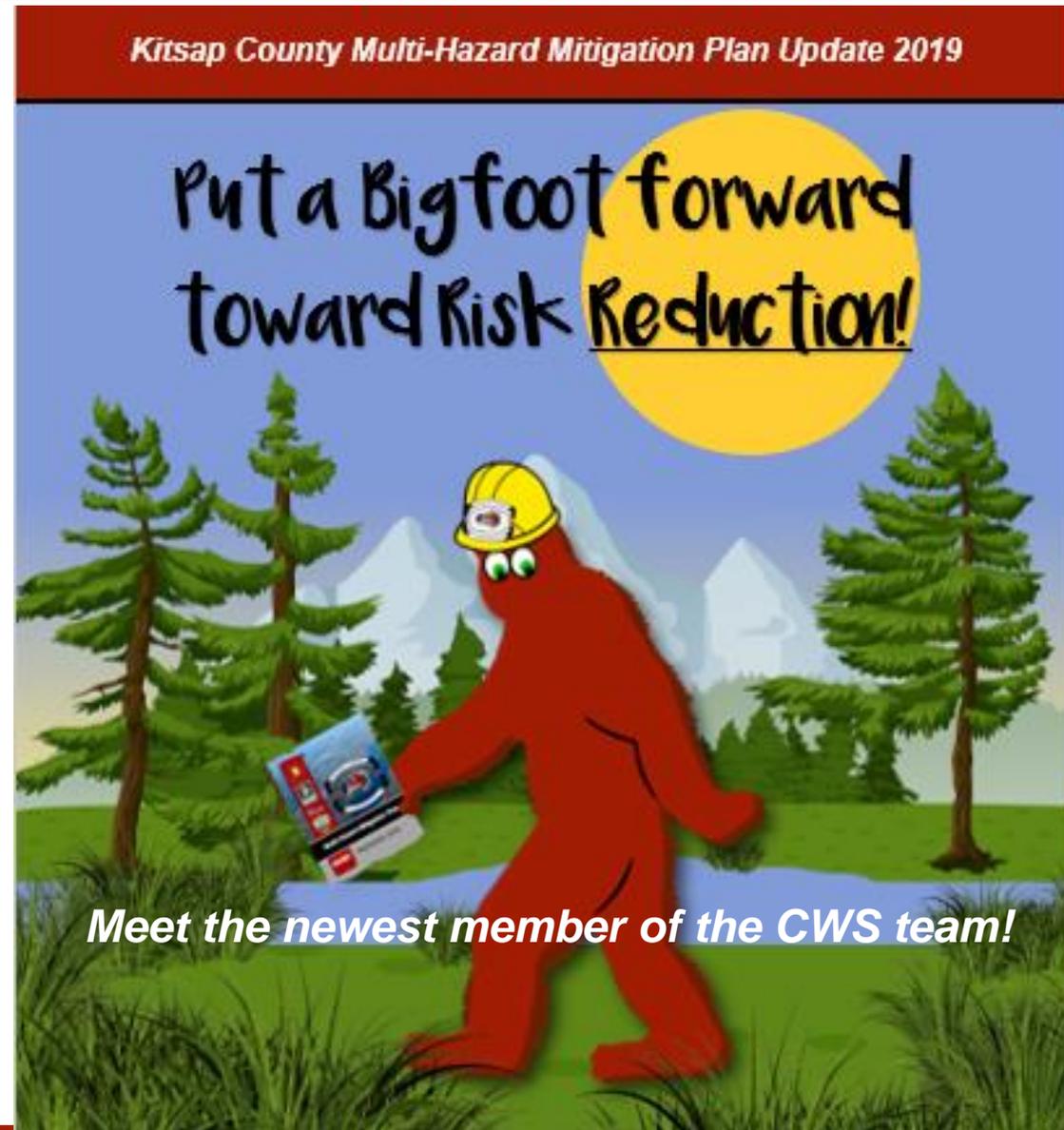
# Agenda

- Vision, Mission and Goal of the CWS Program
- Policy (review draft policy)
- Use Agreements (draft Use Agreement)
- CWS Annex for the Emergency Operations Plan (outline)
- Develop Action Based SOP's for each Hazard/Threat,
- Next Steps for the CTAC
  - Membership etc.
- April Meeting Date

# Community Warning System (CWS)

The **Vision** of the Kitsap County Community Warning Systems Program is to establish programs and guidelines enabling and encouraging consistent application of alert and warning best practices, procedures, and protocols to public alert and warning.

The **Mission** of the CWS Program is to provide the framework and systems for an effective and comprehensive alert and warning program ensuring the public is notified effectively before, during, and after emergencies; of protective actions to be taken.



# **The Goal of Public Warning:**

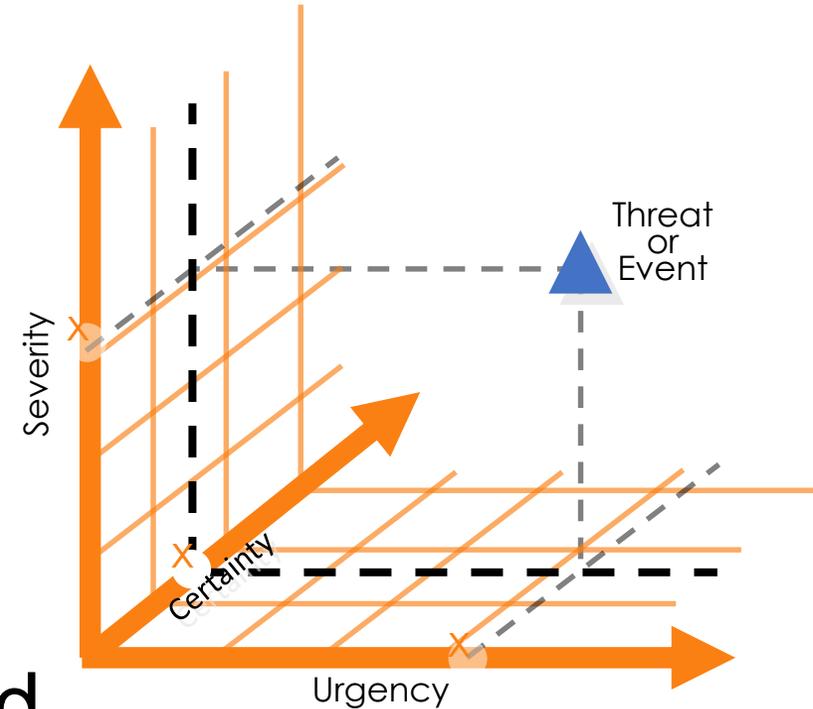
***is to reduce impacts to people and the environment from natural and human caused events we are at risk from everyday.***

# To Do That....



# Urgency, Severity, Certainty Model

- Traditional one-dimensional model of “priority” is expanded into a “3D” model that expresses:
  - Urgency (time)
  - Severity (impact)
  - Certainty (probability)
- Focused on **ACTIONS** to take, based on impact risk



# System Capability Levels

System Capability	Characteristics
0	No all-hazard public warning system: Limited or undetermined administrative or technical program for all-hazard public warning. May have warning policy for hazards and/or audiences.
1	Administrative Capability: Legal and policy framework for all-hazard public warning in place, but limited or no technical facilities for all-hazard origination, aggregation and dissemination. May have technical capabilities for specific hazards and/or audiences.
2	Initial Operational Capability: Functioning capability to originate alerts for all hazards and to disseminate them to at least limited audiences via at least one delivery means.
3	Effective Operational Capability: Functioning capability to originate alerts for all hazards, disseminate alerts via multiple delivery means, and share alert information with other organizations and governments.

# Effective Warning Systems

- Strive to reach everyone at risk, wherever, whenever, doing whatever
- Endeavor to not raise irrelevant alarms
- Easy to use
- Reliable and secure
- Deliver effective warning messages
- *The measure of a warning is the change in **action and attitude** that results.*

# Effective Warning Messages

- Accurate and specific
- Action oriented
- Understandable in terms of:
  - Language and special needs
  - Prior knowledge and experience
  - Timeframe and instructions

# Corroboration

- Most people will not act on the first warning message they receive
- Instead, they become vigilant and search for corroboration
- Only when persuaded it's not a false alarm and directly impacts them will people transform information into action

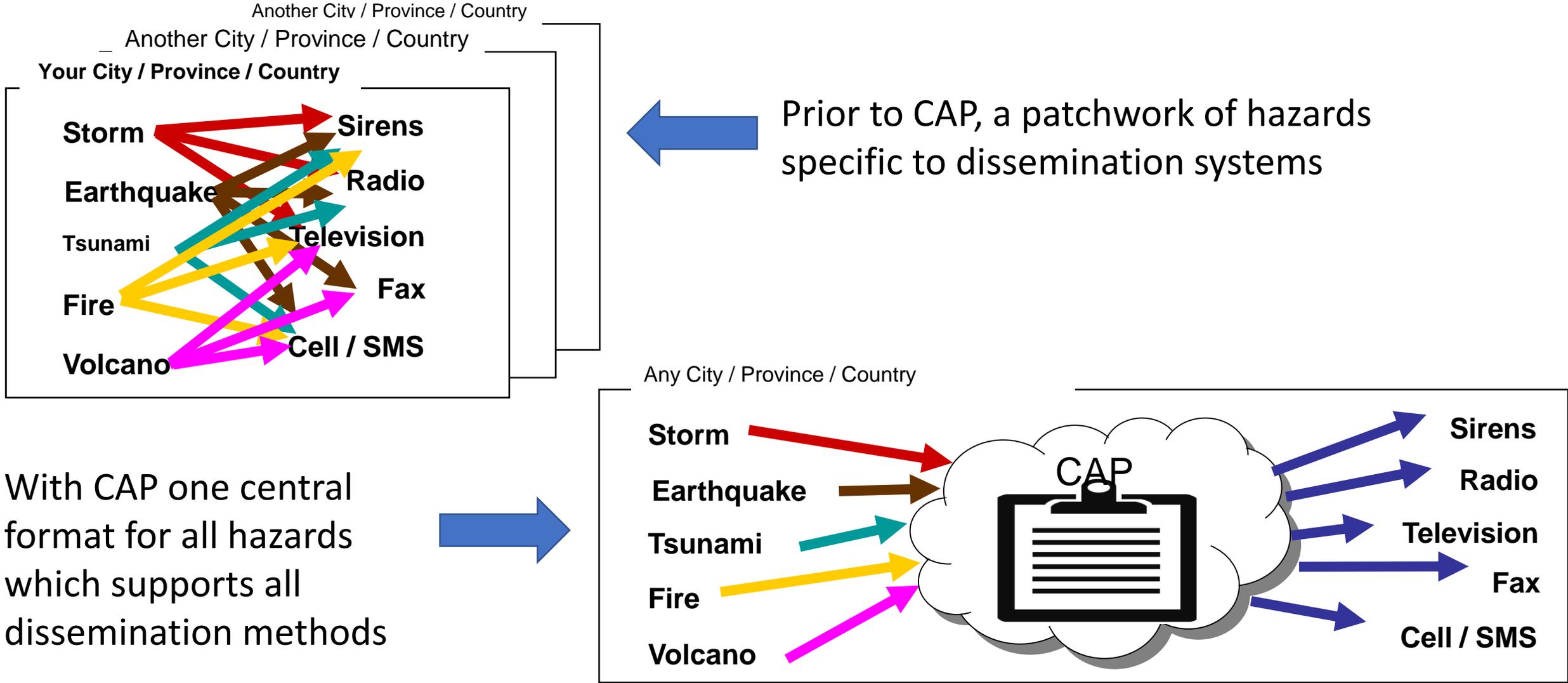
# ***POLICY - The CWS will be used to:***

- ***Notify and call-in first responders and emergency management personnel***
- ***Provide alert, warning and notification to the public and governmental leadership***
- ***Provide public information for response and recovery***
- ***Build trust in the messenger, mitigate misinformation***
- ***Provide accountability to the needs of residents and visitors by recognizing and acknowledging risk***

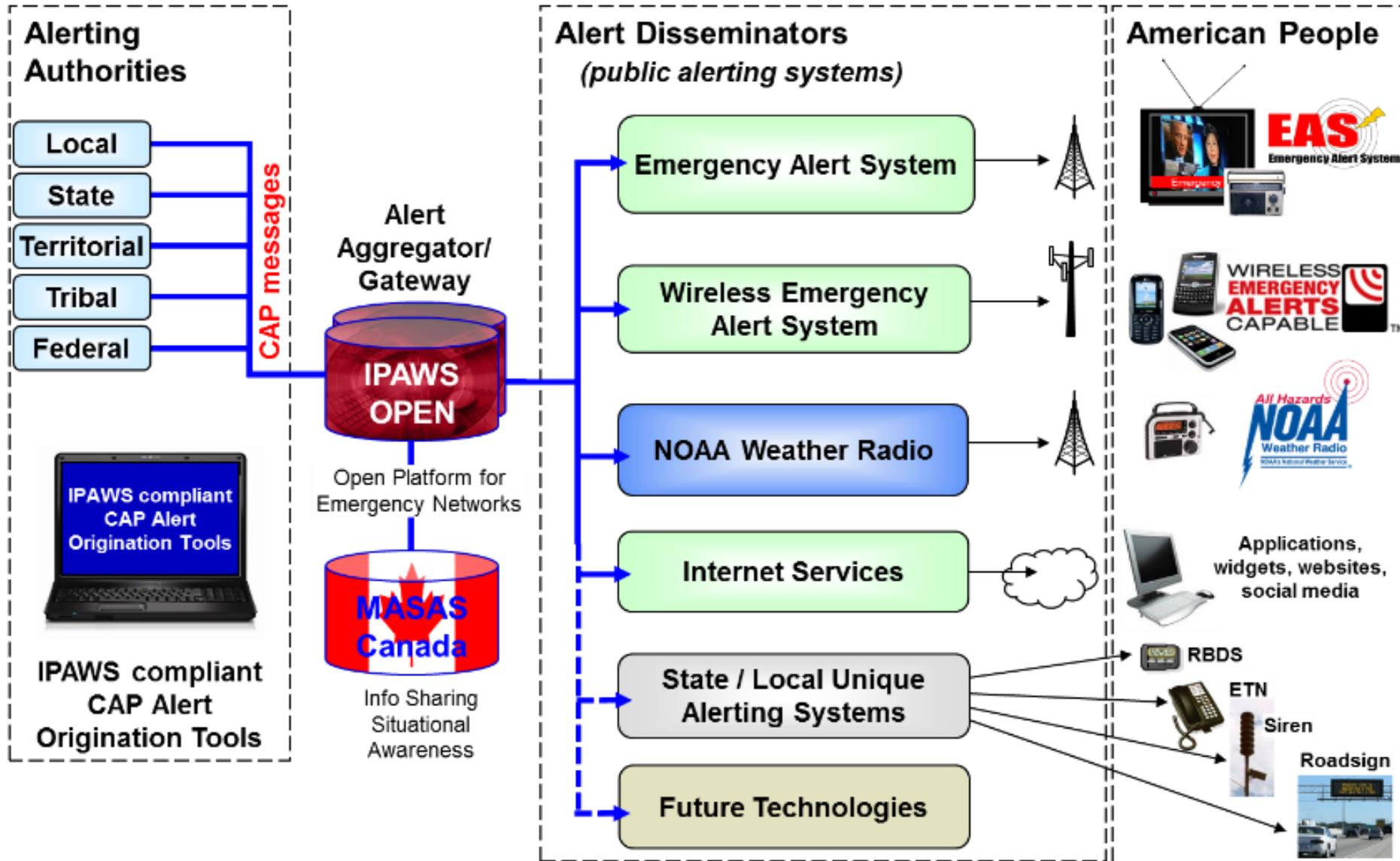
# ***The CWS will not be used to:***

- ***Send messages of a political or commercial nature***
- ***Between the hours of (11pm-7am) unless for a life safety issue***
- ***Etc.***

# Common Alerting Protocol (CAP)



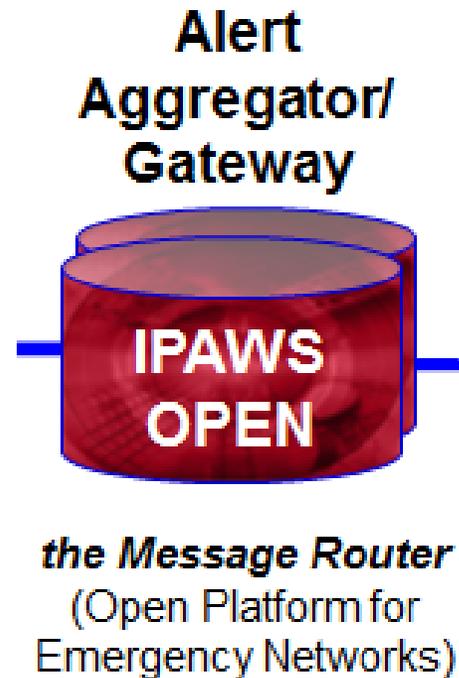
# IPAWS Architecture



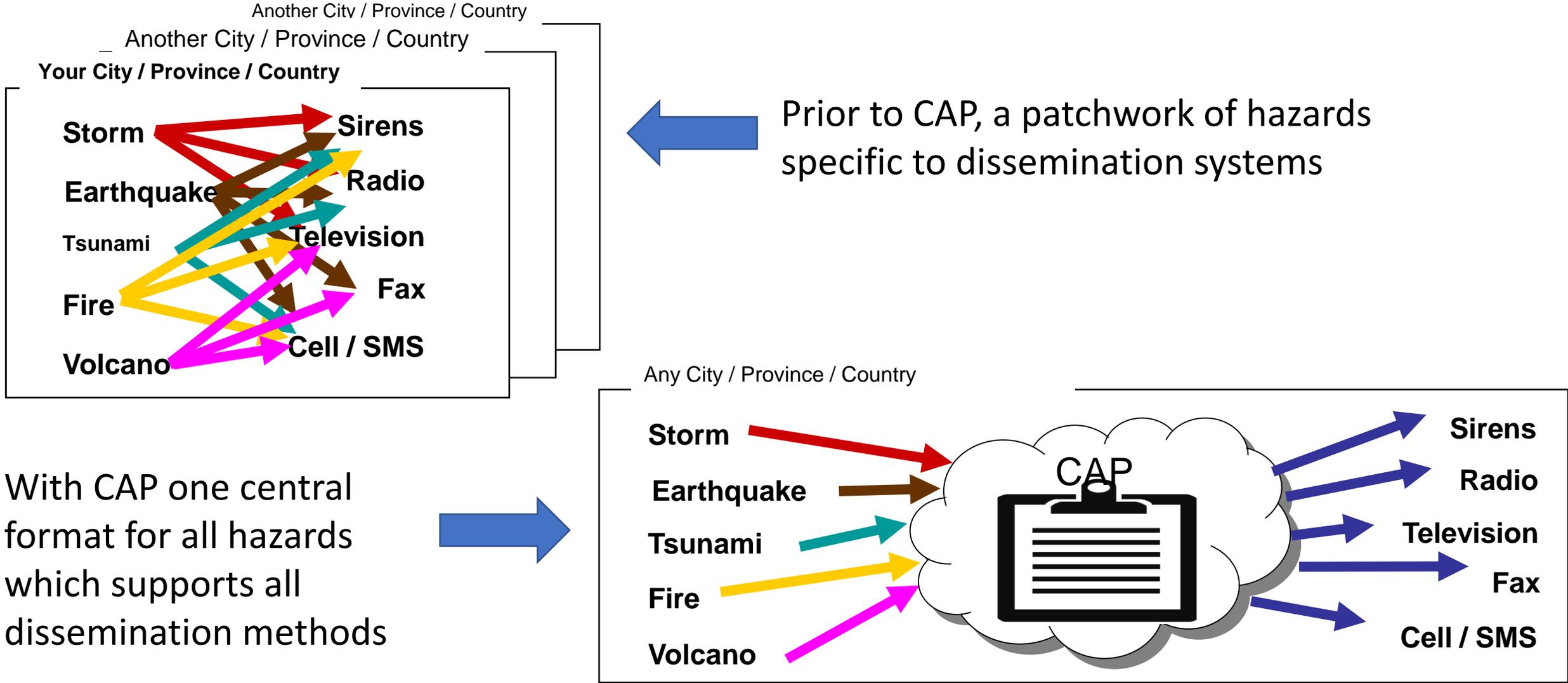
# Alert Aggregation

What the Aggregator does:

1. Authenticates sender
  - A. Web Service Security
  - B. Digital Signature
2. Validates CAP message
3. Verifies permissions
  - A. What alerts can you send
  - B. Where can you send them
  - C. How can you send them
4. Non-repudiation, message integrity
5. Gateway to EAS, WEA, NOAA WX



# Common Alerting Protocol (CAP)



# **Some Definitions**

# Alert, Warning, Notification

- Alert - Getting one's attention (siren, pop up, ding bell, etc.)
- Warning – What is the hazard and action to take?
  - Tsunami, Go Up!
  - Hazardous Materials, Go-in, Stay-in, Listen-In
- Notification – Initial and Follow-on information
  - Shelters open at... etc.

# CWS Roles

- **REQUESTER**
  - Person approved, according to signed agreement or current pre-identified position to request use of the system for an imminent or active public safety incident.
- **AUTHORIZER**
  - Pre-approved personnel identified to give permission for an **ACTIVATOR** to activate the alerting system on behalf of a **REQUESTER**. (Other than pre-approved alerts)
- **ACTIVATOR**
  - Pre-approved personnel trained to activate the alerting system. Activation will be on behalf of an approved **REQUESTOR**.

# Needed Definitions

- Definition of Threat/Risk Thresholds
  - Low, Mod, High
  - Red, Yellow, Green
  - 0, 1, 2, 3
  - 3, 2, 1, 0
  - Moderate, Significant, Extreme
  - Info, Watch, Advisory, Warning
  - Etc.
- Urgency, Severity, Certainty Model

# CWS PROTOCOL Matrix

- Review and discuss handout

# Protocol Development

- What threats or hazards do we have in Kitsap? (Reference HIVA)
- Who owns these? (Authority)
- Which alert SOP's should be Pre-Defined?
- Timing for activations (high risk vs low vs information)
- Etc.

# Protocol Example – Wildfire

- What threats or hazards do we have in Kitsap?
  - Wildfire
- Who owns these?
  - Fire Agencies
- Which Alert SOP's should be Pre-Defined?
  - Evacuation
- Timing for activations
  - Ready, Set, Go
  - Immediate
- What about Tsunami? Active Shooter?

# Sample CWS Use Agreement

- Review and discuss sample handout

# Sample Standard Operating Procedure

- Review and discuss sample SOPs

# CWS EOP Annex

Review and discuss handout material for the Annex structure

1. Table of Contents
2. Executive Summary
3. Acknowledgements
4. Purpose
5. Intended Audience
6. What is Public Alert & Warning
7. Roles and Responsibilities
8. Guidelines for Issuing Public Alert & Warnings
9. When to Issue Alert & Warnings

# CWS EOP Annex

11. Alert & Warning Methods
12. Alert and Warning Messaging
13. Alerting Coordination
14. Training Requirements
15. System Testing and Exercise Requirements
16. References and Authorities
17. Glossary of Terms
18. Appendices

# Next Steps for the CTAC

- CTAC Membership
- Process for holding and reporting on a CTAC Meeting
- Procedure for implementing outputs and outcomes from the CTAC
- Document in the Emergency Operation Plan Annex the details about the CWS protocols, communication methods and messages using output and outcomes from CTAC
- Assignments?

# Next Meeting

- Quarterly Meetings
- April Date?

**THANK YOU**