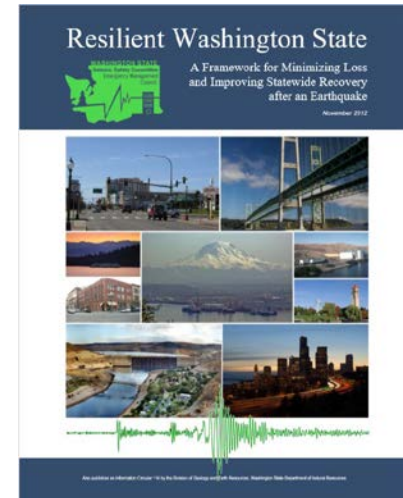
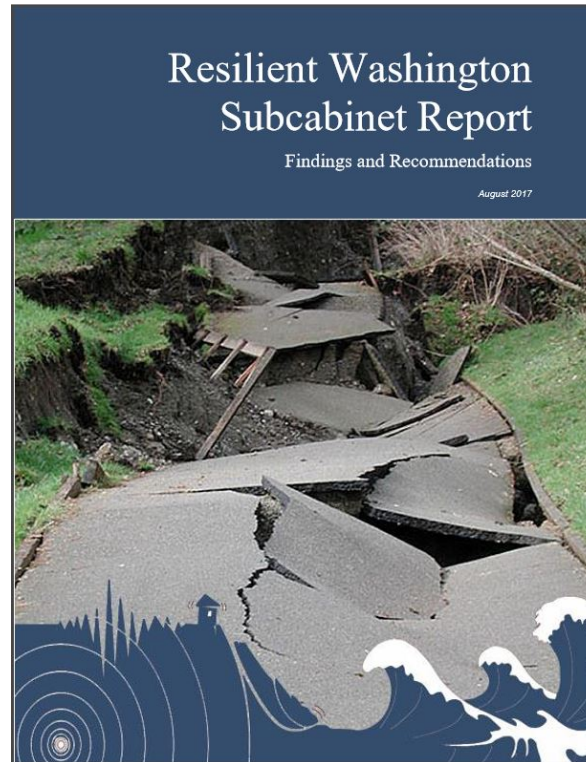


# Resilient Washington Subcabinet Report: Findings related to post-earthquake reconaissance



Brian Terbush

Earthquake/Volcano Program Coordinator

Washington State Emergency Management Division

[emd.wa.gov](http://emd.wa.gov)

April 17<sup>th</sup>, 2018



# Brief History:

- Emergency Management Council
  - Seismic Safety Committee
- 2010-2012: Resilient Washington State Report
- June 2016: Cascadia Rising Exercise
- November 2016: Governor's Directive
- September 2017: Findings and Recommendations document



# Governor's November 2016

## Directive:

- Several groups already working on recommendations
- Created Subcabinet on resilience to:
  - Revisit RWS recommendations
  - Identify key players
  - Establish current status
  - Estimate cost/effort to complete actions
  - Prioritize actions within RWS report
- Create a strategy for next steps towards completing the points laid out in RWS Report



# Post EQ Reconnaissance

**Recommendation 3. Improve the resilience of buildings in areas of high seismic hazard to improve life safety and increase the number of people who will be able to shelter in place.**

**priority actions:**

**Recommended Organizations:**

**3a.** Compile a detailed inventory of the actual building stock (types of buildings and structural systems, dates of construction, and seismic retrofits) in all jurisdictions across the state.

Dept. of Commerce

**3b.** Mandate that seismic evaluations be completed as part of real estate transactions in order to ensure full disclosure of a property's condition between buyers and sellers.

Office of the Governor,

Short term: Establish a working group with key stakeholders, including real estate, insurance, and financial

**3d.** Institute a rapid, consistent, and comprehensive fast-tagging building assessment program that may be used in all local jurisdictions.

Short term: Form a task group to further define the concept of "shelter in place" (i.e., allowing residents to stay in their own homes while they are being repaired) after a major earthquake and determine how best to facilitate implementation at a community level. The task group should also:

DSHS; DES; EMD; SEAW;  
WABO

w Adopt a program similar to San Francisco's Building Occupancy Resumption Program (BORP).

w Recommend adjustments to the permitting process to make it possible for people to stay in their homes with access to temporary sewage and water services.

Short term: Form a task group to further define the concept of "shelter in place" (i.e., allowing residents to stay in their own homes while they are being repaired) after a major earthquake and determine how best to facilitate implementation at a community level. The task group should also:

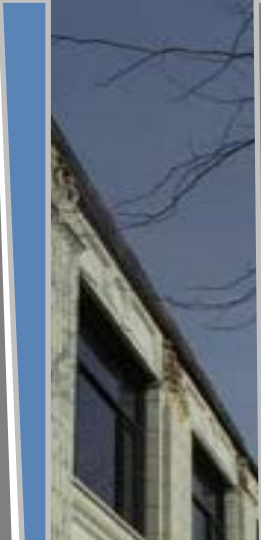
DSHS; DES; EMD; SEAW;  
WABO

w Adopt a program similar to San Francisco's Building Occupancy Resumption Program (BORP).

w Recommend adjustments to the permitting process to make it possible for people to stay in their homes with access to temporary sewage and water services.

**3f.** Create a task force to identify possible strategies for development of a state-managed earthquake insurance program similar to the California Earthquake Authority or more effectively promote privately-offered earthquake insurance to increase coverage throughout the state and reduce direct losses to individuals and families.

Office of the Insurance  
Commissioner



# Identified Stakeholders:

- General Public – Homeowners and Tenants
- Building Owners
- Private Businesses
- Essential Facilities –
- Hospitals, Fire, Police, Emergency Operations Centers
- Emergency Shelters
- Health Care Facilities
- Public Works
- Prisons
- Local Jurisdictions
- Schools and Places of Public Assembly



# Current Actions:

- SSB 5185 signed April 17, 2017,
  - Extended covered volunteer emergency workers to professional and trade organizations
- WA EMD and the WABO addressed liability concerns regarding organizations that train volunteers for post-disaster damage assessments



# Current Actions (cont.):

- WAsafe Program formalized.
  - WABO, AIA, SEAW and ASCE.
  - Enrolling and training qualified volunteers that can rapidly support local jurisdictions in performing post-disaster building safety assessments.
- WAsafe integrating into ESF 3 – Public Works and Engineering



# Gaps and Barriers

WAsafe not currently integrated into ESF 3  
- Being corrected





# Results:

For each recommendation, action items were prioritized based on cost, effort, and priority level

<i>(Short-Term)</i>	<b>High</b>	<b>Medium</b>	<b>Low</b>
<b>Priority</b>	3		
<b>Effort (estimated)</b>			3
<b>Cost (estimated)</b>			3

***SCORE: 9 – High***

*From Recommendation 3d:*

Three action items were given high priority in the short term (0-5 years)

Two in medium term(5-10 years):



# Short Term (0-5 years)

- Develop a volunteer-training curriculum for the WAsafe Program
  - A proposed training curriculum will be based on the California Office of Emergency Services Safety Assessment Program
  - customized for use in Washington State by WAsafe volunteers.
  - Training program must be verified and recognized by WA EMD and FEMA.
- Develop and formalize a vetting process for volunteer enrollment through the WAsafe program.



# Short Term (0-5years) cont.

- Formally integrate the WAsafe program within the ESF-3 structure:
  - Will allow program members to be part of operational response to a disaster
  - Will require:
    - Modification of internal WA EMD processes and practices related to ESFs
    - MOUs and some reprioritization within WA EMD and DES
    - Development of deployment procedures
    - An ongoing state/local training and outreach effort




# Mid-Term (5-10 years)

- Develop an outreach program informing of the availability of the Building Occupancy Resumption Program (BORP) and Advisory Placard programs, which may allow building owners to rapidly reopen following an earthquake
- Will focus on establishing agreements with building officials, qualified private building assessors and private property owners
  - Project led by volunteers from WABO and WAsafe



# **Mid-Term (5-10 years) cont.**



Arrange for WAsafe credentialing and badging of CalOES SAP-trained volunteers to ensure their integration into response actions.



# For more information on the process:

Many more details on the process in the report appendices.

May be downloaded at:

<https://mil.wa.gov/emergency-management-division/resilient-washington-subcabinet>

Questions? Contact:

[Brian.Terbush@mil.wa.gov](mailto:Brian.Terbush@mil.wa.gov)  
[Maximilian.Dixon@mil.wa.gov](mailto:Maximilian.Dixon@mil.wa.gov)

