



Catastrophic Incident Planning for Cascadia Subduction Zone

EMC

June 2019



How We Got Here....

- Regional Catastrophic Preparedness Grant Program
 - Transportation and Recovery Annex
 - 50 Pre-Planned Detours for 8 County Planning Region
- Evergreen Quake 2012, Region X Functional Exercise
- Formation of SCIPT
- Cascadia Rising 2016 , Region X Functional Exercise
- Development of Statewide Catastrophic Planning Framework document
- Resilient Washington Subcabinet Governor's Directive
- Coming Soon: Cascadia Rising 2022!



The State Catastrophic Incident Planning Team

- The mission of the SCIPT is to facilitate collaborative engagement between state, tribal, and local governments, together with the communities they serve, in developing plans to prepare for, respond to, and recover from catastrophic incidents.
- The State Catastrophic Incident Planning Team (SCIPT) is made up of local government and state agencies representatives





WA State Catastrophic Incident Planning Framework

- The Catastrophic Incident Planning Framework (Framework) that can be used by local, tribal, and state agency partners to develop their catastrophic plans.
- Focuses on **life-saving** and **life sustaining** strategies including: Critical Transportation, Mass Care Services, Public Health, Healthcare, EMS, Mortuary Services, and Utilities Restoration with emphasis on Energy, Water and Waste Water, and Information Communications Technologies.
- Core capabilities were identified that require integrated planning for each strategy that include: Operational Coordination, Operational Communication, Situational Assessment, and Logistics and Supply Chain Management.
- Within each core capability, critical tasks are identified by:
 - State and local responsibilities
 - FEMA Region X's Cascadia Subduction Zone incident phases



CATASTROPHIC INCIDENT PLANNING FRAMEWORK

Statewide Catastrophic Incident Planning Team

An emergency planning framework to prepare for a catastrophic incident affecting Washington State, and the tribal nations, counties, cities, and towns therein.

https://mil.wa.gov/uploads/pdf/emergency-management/catastrophic-incident-planning-framework_version-1_101217.pdf



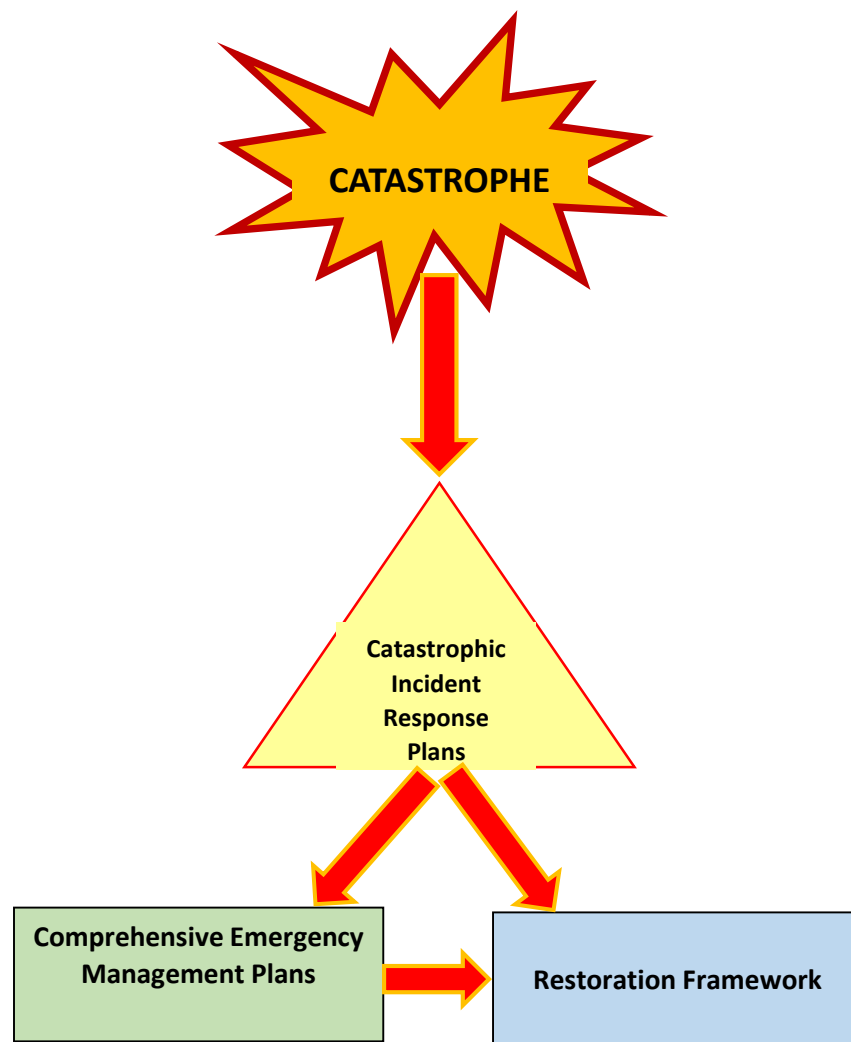
Statewide Planning

- The Catastrophic Incident Annex to the state CEMP will:
 - Focus on state level roles, responsibility, and coordination through the critical tasks identified in the Catastrophic Incident Planning Framework.
 - Expand upon critical tasks by providing detail.
 - Identify essential elements of information (EIs) that will be used during a response to a catastrophic incident.
- State Agency/ESF/Local/Tribal Plans will:
 - Focus on the agency's/ESF's/organization's role, responsibilities, and coordination through the critical tasks identified in the Framework.
 - Expand upon critical tasks by providing agency specific detail.
 - Identify gaps, and essential elements of information that will be used during a response to a catastrophic incident.



Current Statewide Catastrophic Incident Planning Efforts

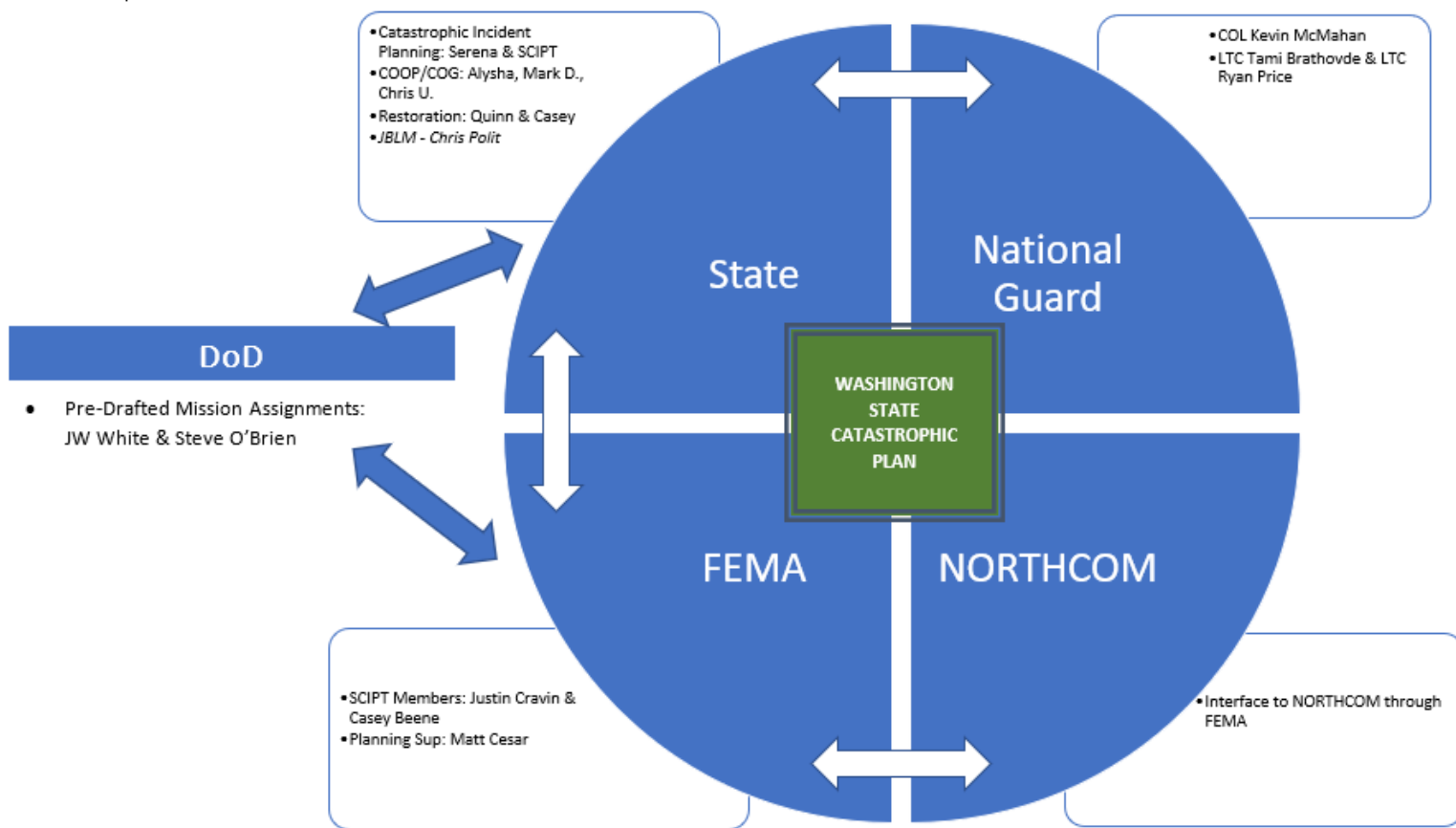
- The goal of the catastrophic incident plan is not to return to the pre-incident conditions, but rather to reduce the level of the incident to allow all aspects of state and local response to be based upon the state and local CEMPs and the state Restoration Framework
- Coordinated planning at all levels of government / private sector in support of life-saving and live sustaining strategies.





Road Map of Current Catastrophic Incident Efforts

WASHINGTON STATE CATASTROPHIC INCIDENT PLAN





Road Map of Current Catastrophic Incident Efforts

• Planning efforts:

- Statewide Catastrophic Incident Planning Team (SCIPT):
 - Catastrophic Incident Planning Framework version 1.0
 - Local jurisdictions and tribal CEMPs include catastrophic incident planning
 - Road shows conducted by the National Guard using the Catastrophic Incident Planning Worksheet that operationalizes the Catastrophic Incident Planning Framework
- Catastrophic Incident Annex to the state CEMP
- Integration and collaboration of federal and state plans, and with Region X, California, and Canada BC plans
- Outreach efforts for planning: WSDOT Aviation, Washington National Guard, EMD Logistics, and the SCIPT





Critical Transportation

Federal Definition:

Objective: Provide transportation (including infrastructure access and accessible transportation services) for response priority objectives, including the evacuation of people and animals, and the delivery of vital response personnel, equipment, and services to the affected area.

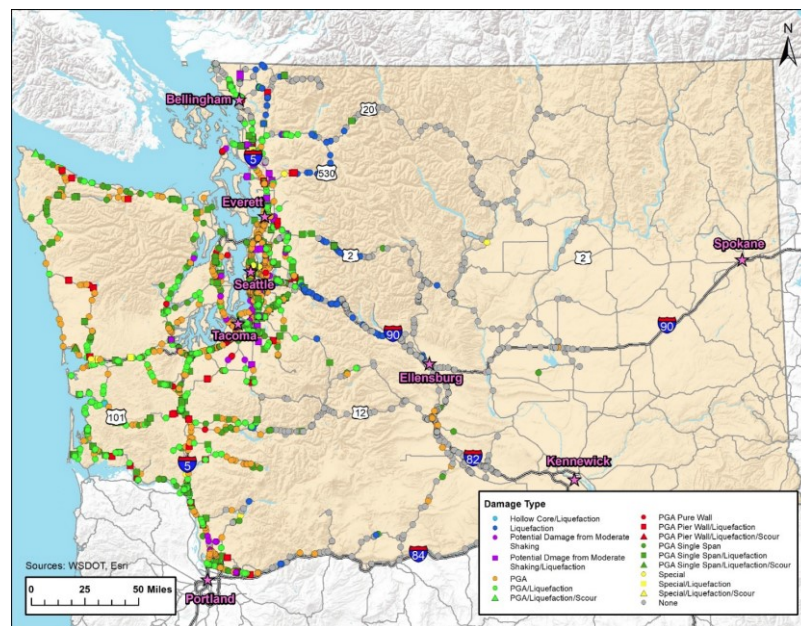
Critical Tasks:

- Establish physical access through appropriate transportation corridors and deliver required resources to save lives and to meet the needs of disaster survivors.
- Ensure basic human needs are met, stabilize the incident, transition into recovery for an affected area, and restore basic services and community functionality.



RRAP Findings

- 76% projected to experience some level of damage
- 33% damaged as a result of inadequate seismic design (built to old design code)
- Nearly 32% damaged as a combination of inadequate seismic design (built to old design code) and potential liquefaction
- 40% projected to experience significant damage - liquefaction controls or contributes





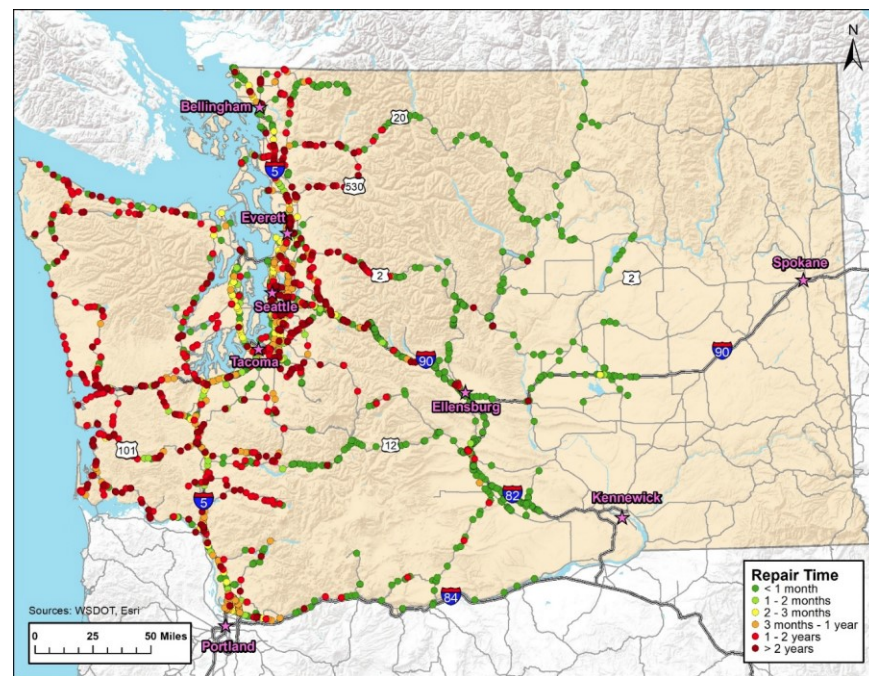
RRAP Findings

- 951 bridges can be reopened with temporary bypass road
- 797 bridges cross water, could require a new bridge
- 662 bridges crossing water proximate to liquefaction, could require subsurface stabilization or strengthening
- 621 bridges projected to sustain no damage
- 363 bridges could be reopened within the first month post-earthquake
- 782 bridges (~29%) evaluated would require >1 year to reopen, and in many cases, ≥ 2 years



Critical Transportation Outreach Goals

- Identify critical transportation infrastructure required to support life-saving and live-saving response and recovery activities post catastrophic incident (Day 0-30)
- Understand the effect a CSZ incident will have on local critical transportation infrastructure
- Understand state and local roles and responsibilities





Outreach Schedule

- **Kick-Off Meetings with Homeland Security Region Point of Contacts**
 - Conducted in June 2019
 - Provide overview of meeting
 - Determine necessary participants / Subject-Matter-Experts
 - Determine necessary materials / information to bring
- **Conduct Initial SCIPT Outreach Meeting**
 - Starting in September 2019
 - Approximately 4 hours
 - Question 1-2 discussed at first meeting
 - Determine Next Steps and Schedule Future Meetings



Contact Information

Serena Segura
Catastrophic Planner
Emergency Management Division
Washington Military Department
253-512-7021
serena.segura@mil.wa.gov

Michael Roberson
Planning Supervisor / SCRIPT Co-
Chair
Emergency Management Division
Washington Military Department
253-625-3943
michael.roberson@mil.wa.gov

Jason Bierman
Director / SCRIPT Co-Chair
Snohomish County
Department of Emergency
Management
425-754-2679
Jason.Biermann@co.snohomish.wa.us