

OVERVIEW OF COUNTYWIDE SUPPORT POST-DISASTER

Briefing to Planning and Community Development Committee

April 19, 2022

WHY THIS IS IMPORTANT

- Washington State has the **2nd highest risk** of economic loss due to earthquakes in the United States (FEMA)
- More than **2,500 earthquakes occur** each year in Washington. On average, 12 or more each year are strong enough to be felt

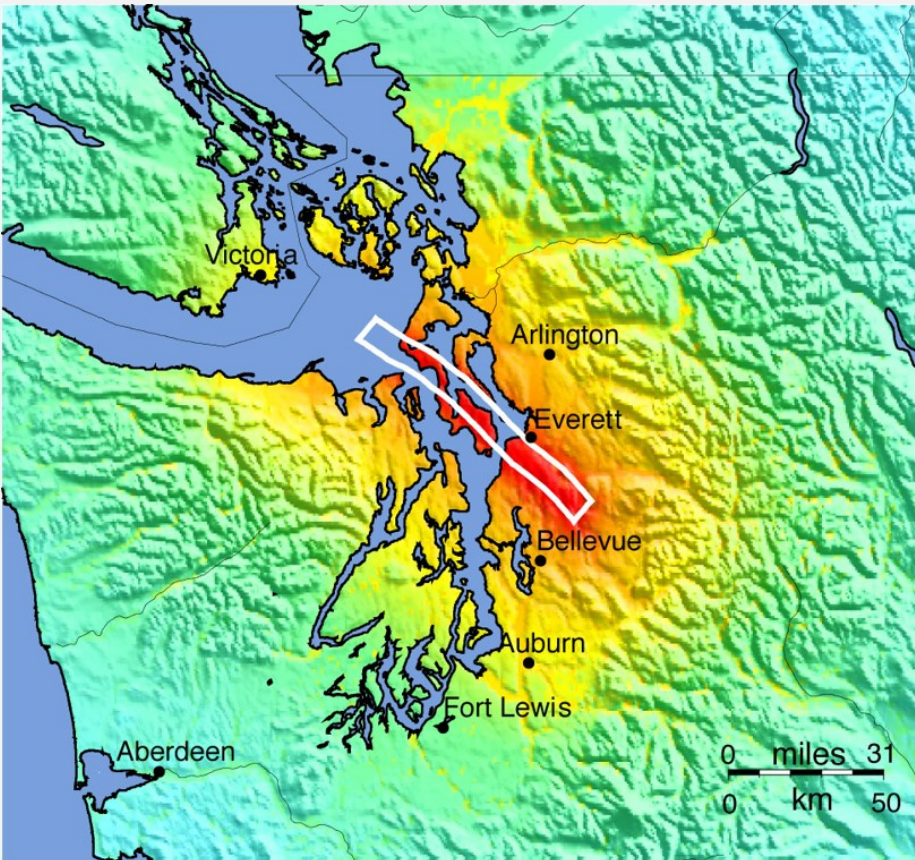
THE EARTHQUAKE THREAT

Cascadia Subduction Zone

- Separates the Juan de Fuca and North America Plates
- 700 miles long, from North Vancouver Island to Cape Mendocino (Northern CA)
- Has produced 9.0 M or greater quakes in the past
- Last quake occurred in 1700, return intervals every 400-600 years on average for the past 3,500 years



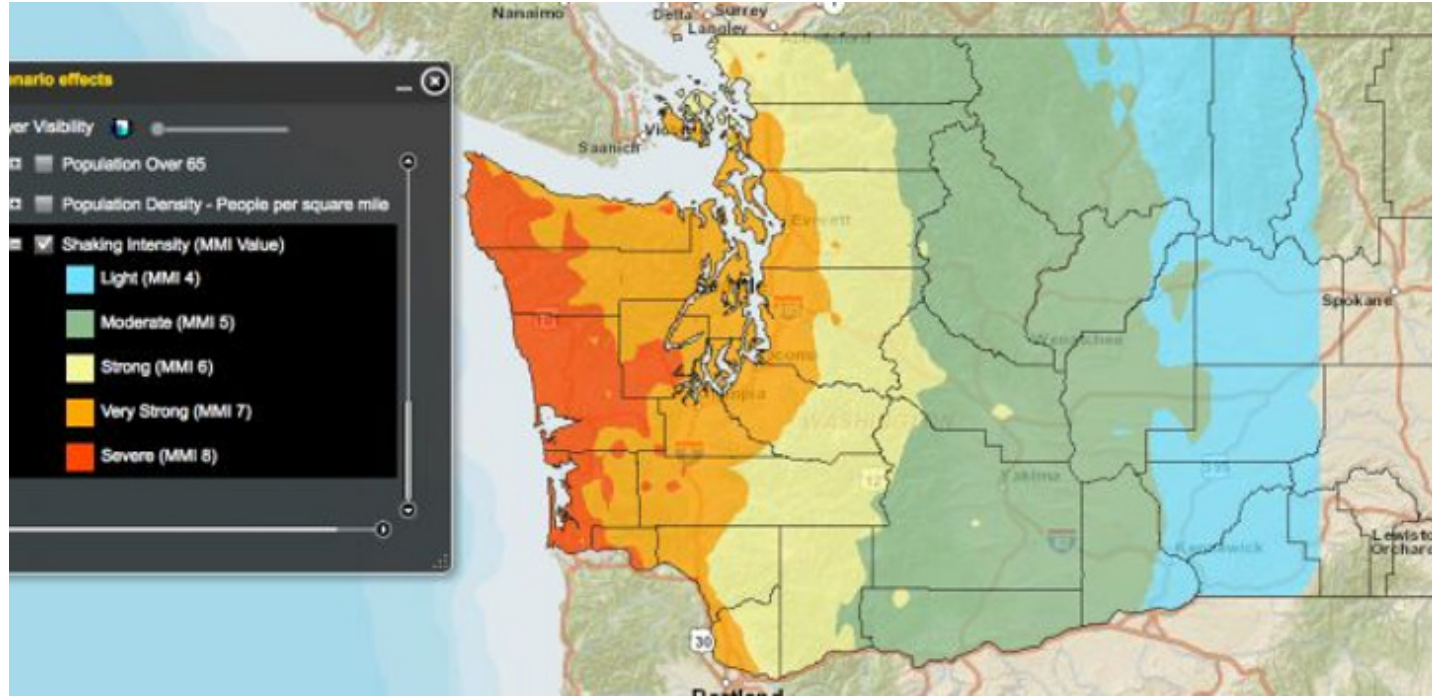
THE EARTHQUAKE THREAT



South Whidbey Island Fault (SWIF)

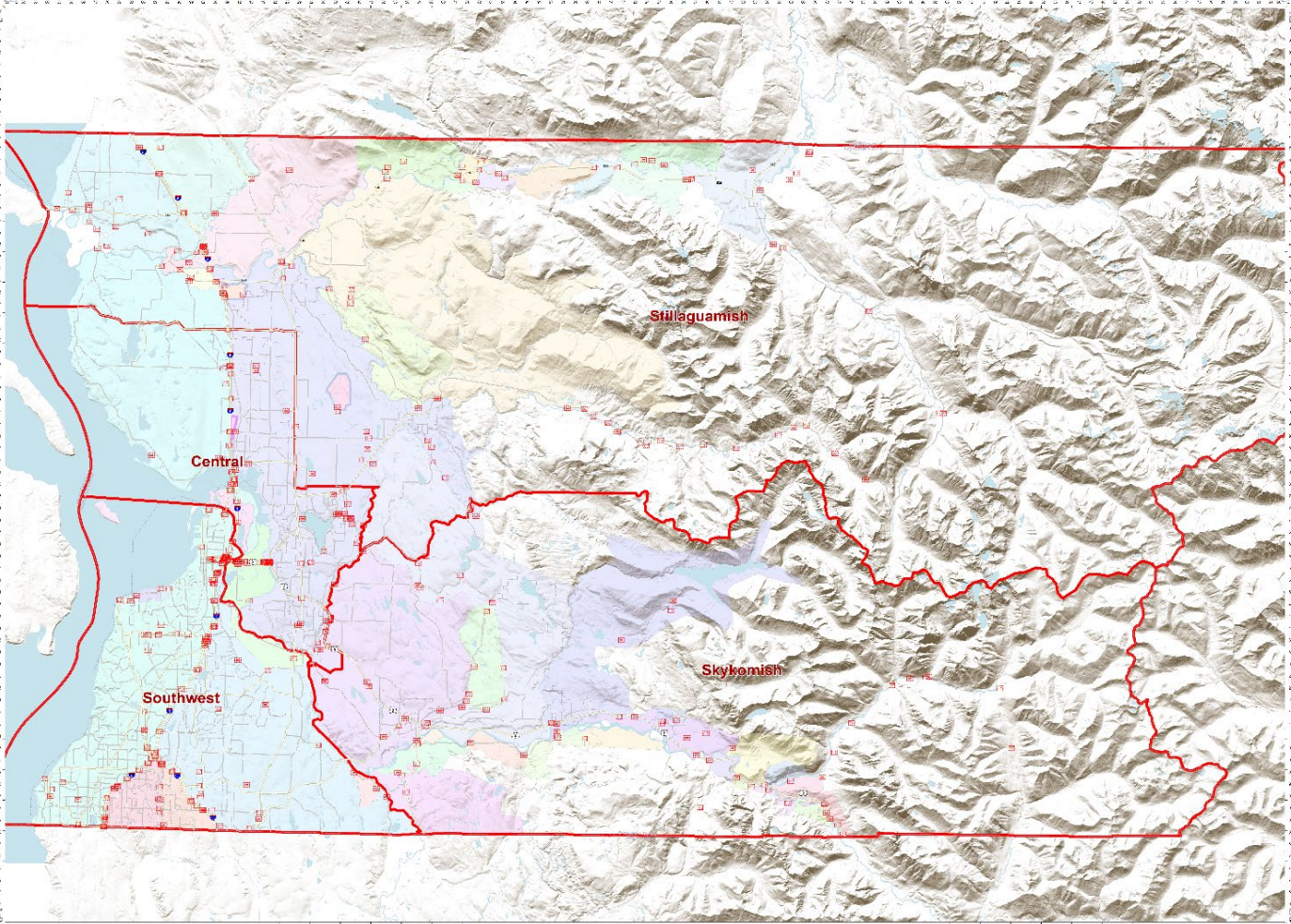
- 92 miles long, from Victoria, B.C. to Woodinville
- At least four earthquakes in the last 16,000 yrs., most recently less than 2700 yrs. ago





PREPARING FOR ISLANDS

ISLANDS



Scale: 1:50,000
Projection: NAD 83
Datum: NAD 83
Units: Feet
Map Date: 4/13/2015

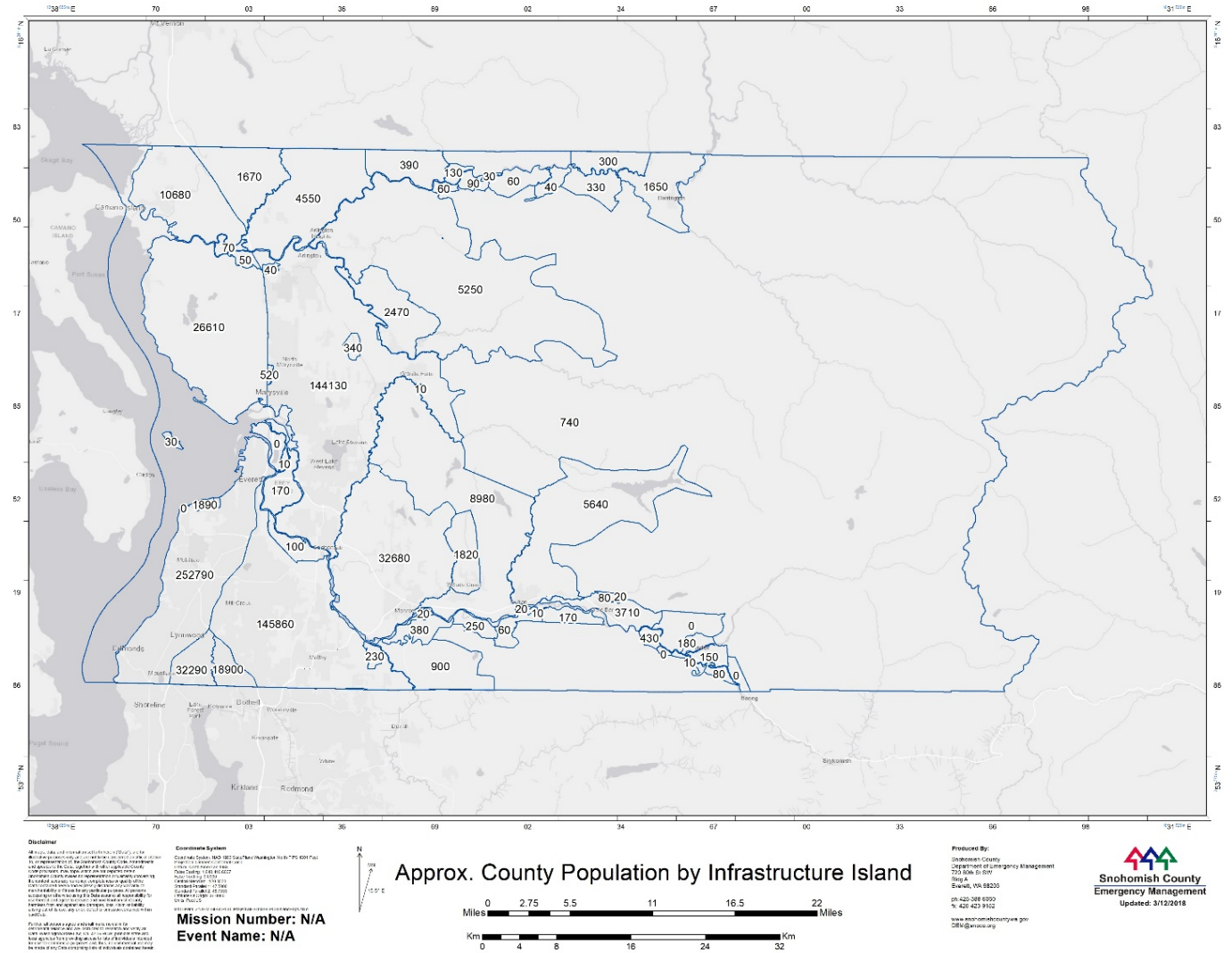
Mission Number: N/A
Event Name: N/A

Post Cascadia Access Map

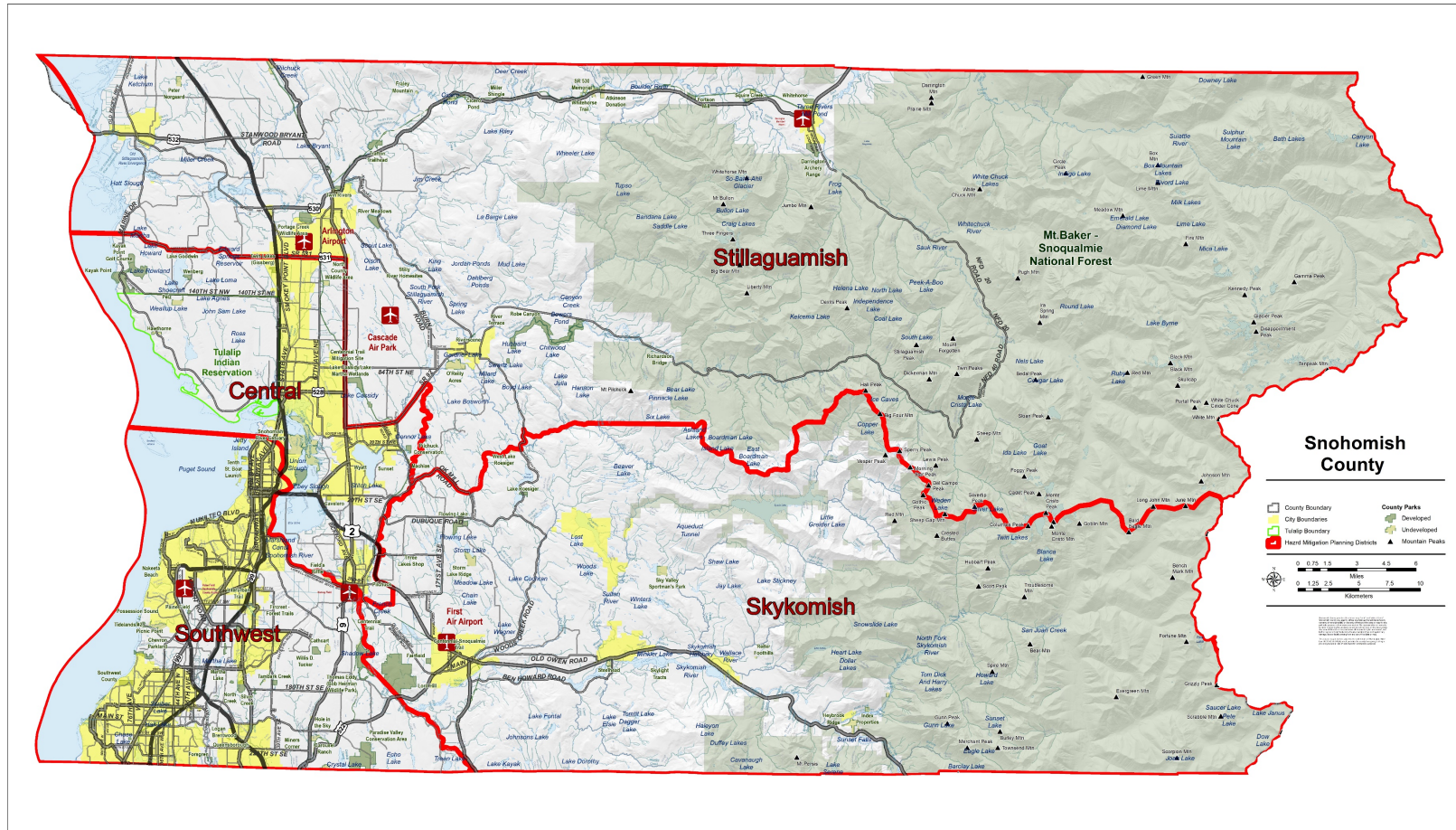


- Bridges with >50% failure on day 1
- Hazard Mitigation Planning Districts

ISLANDS



DEM Zones



SUPPORTING THE ZONES

- Address span of control
- Each zone has an identified airport and/or airfield, critical to support planned by WAANG (National Guard)
- Planned staging areas:
 - South: Paine Field – Joint federal/state/local staging area
 - East: Evergreen Fair Park
 - North: Arlington Airport
 - Central: Port of Everett/Naval Station-Everett

FY 2019 Regional Catastrophic Preparedness Grant

Seattle Metro UASI 2018 Regional Assessment



- **Capability Target – 96 hours post event, maintain distribution for 1 year**
 - **359,600** people requiring shelter
 - **1,681,016** people requiring food and water



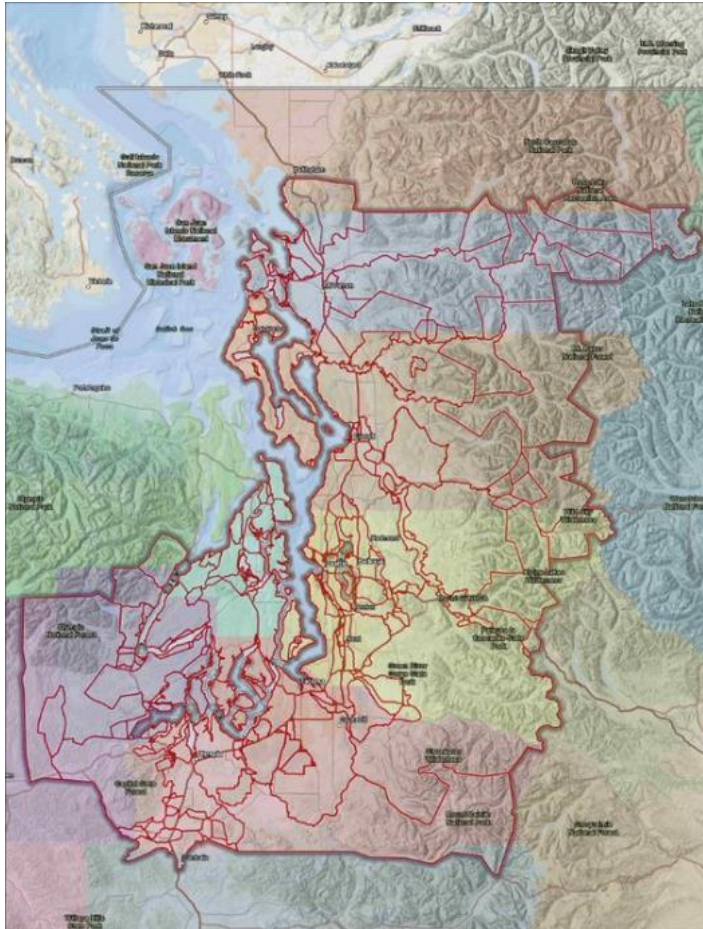
- **Current Regional Capability**
 - **88,814** people sheltered
 - **138,000** people receiving food and water



- **Capability Gaps**
 - **270,786** people needing shelter
 - **1,543,016** people needing food and water

Goal: Provide access to food, water, and life-saving medications

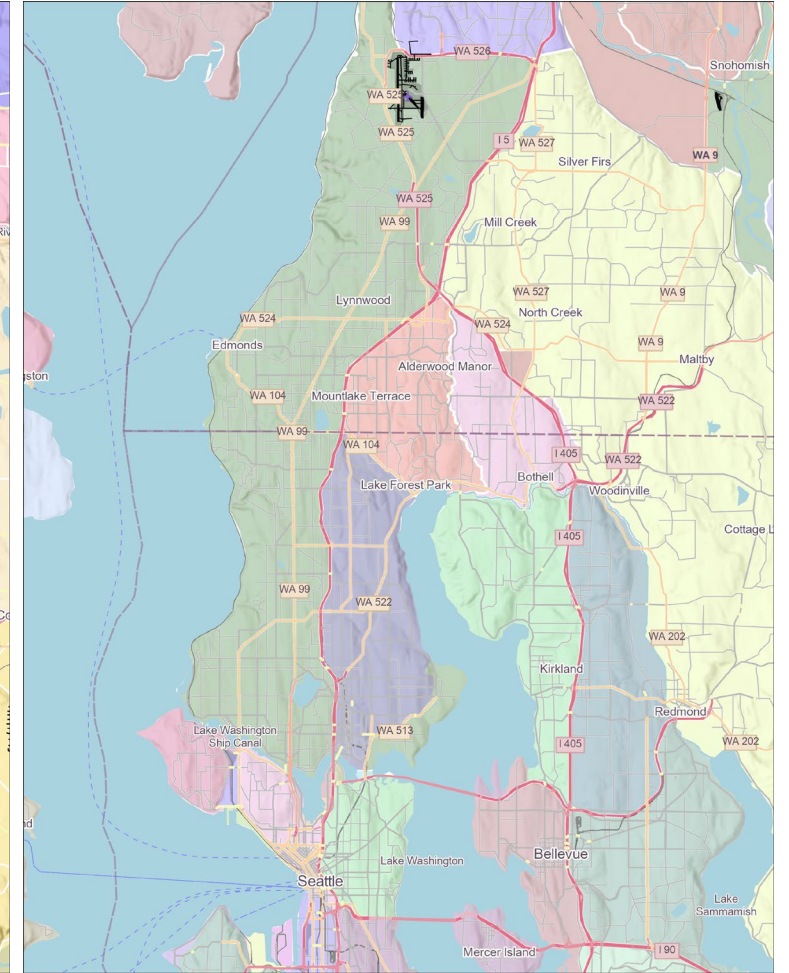
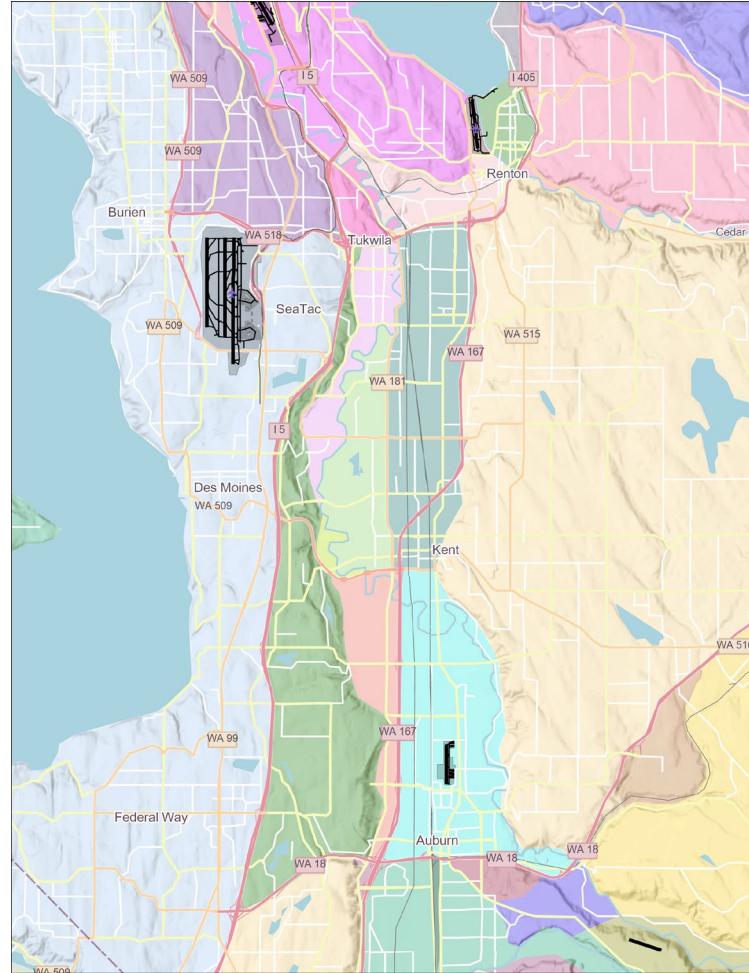
“Increase capability level within the Food, Water, and Sheltering Community Lifeline”



- Cascadia Subduction Zone M 9.0
 - Worst-case scenario for the region/state
 - Massive infrastructure damage
 - Population islands
 - Need for community points of distribution (CPODs)

Critical Transportation Mapping

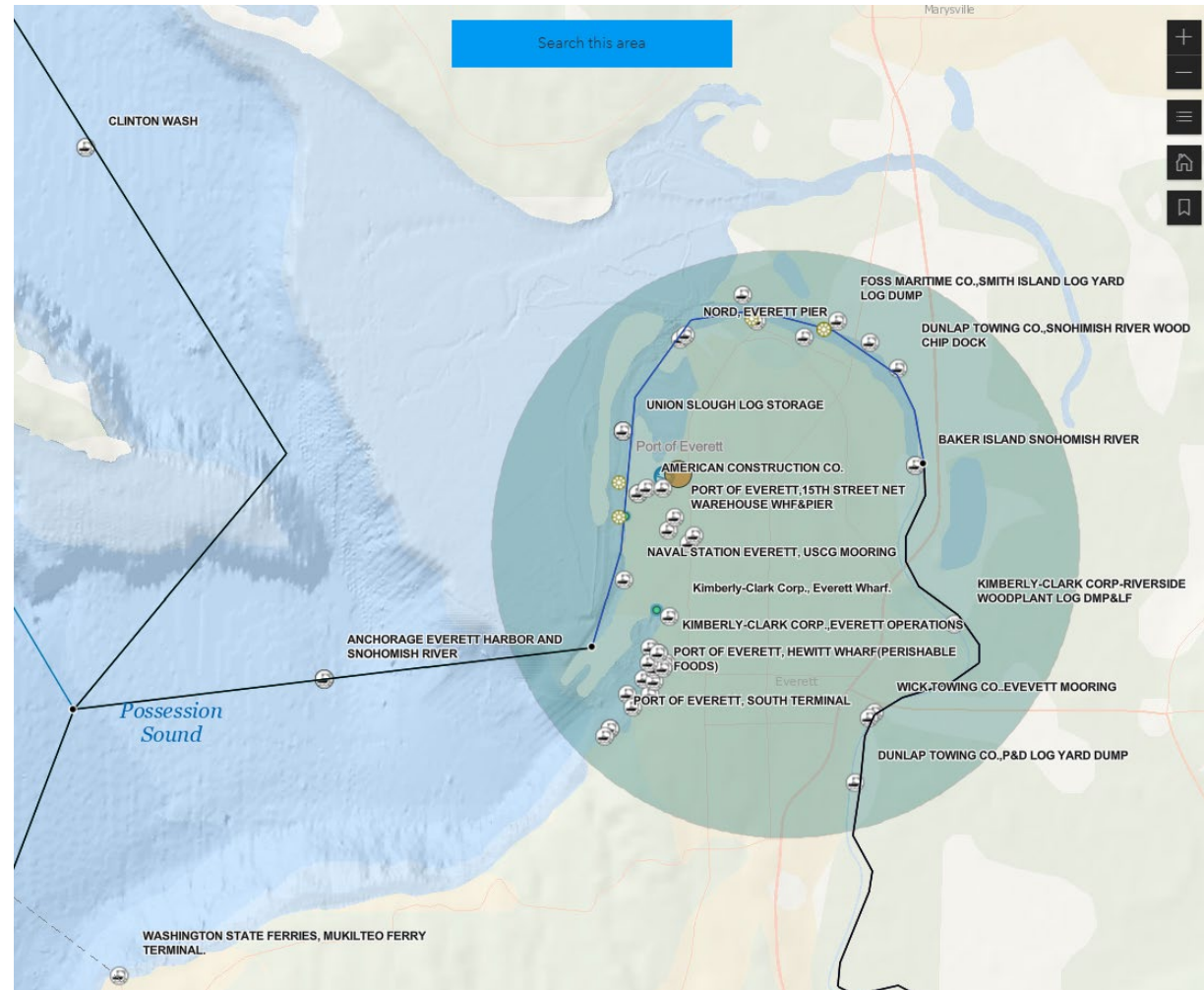
- ❑ Roadway System
 - ❑ Lifeline Network
 - ❑ WSDOT and Local Priority Routes mapped for debris clearing
 - ❑ Local Alternate Routes if available
 - ❑ Maritime inputs near bridges for barge traffic



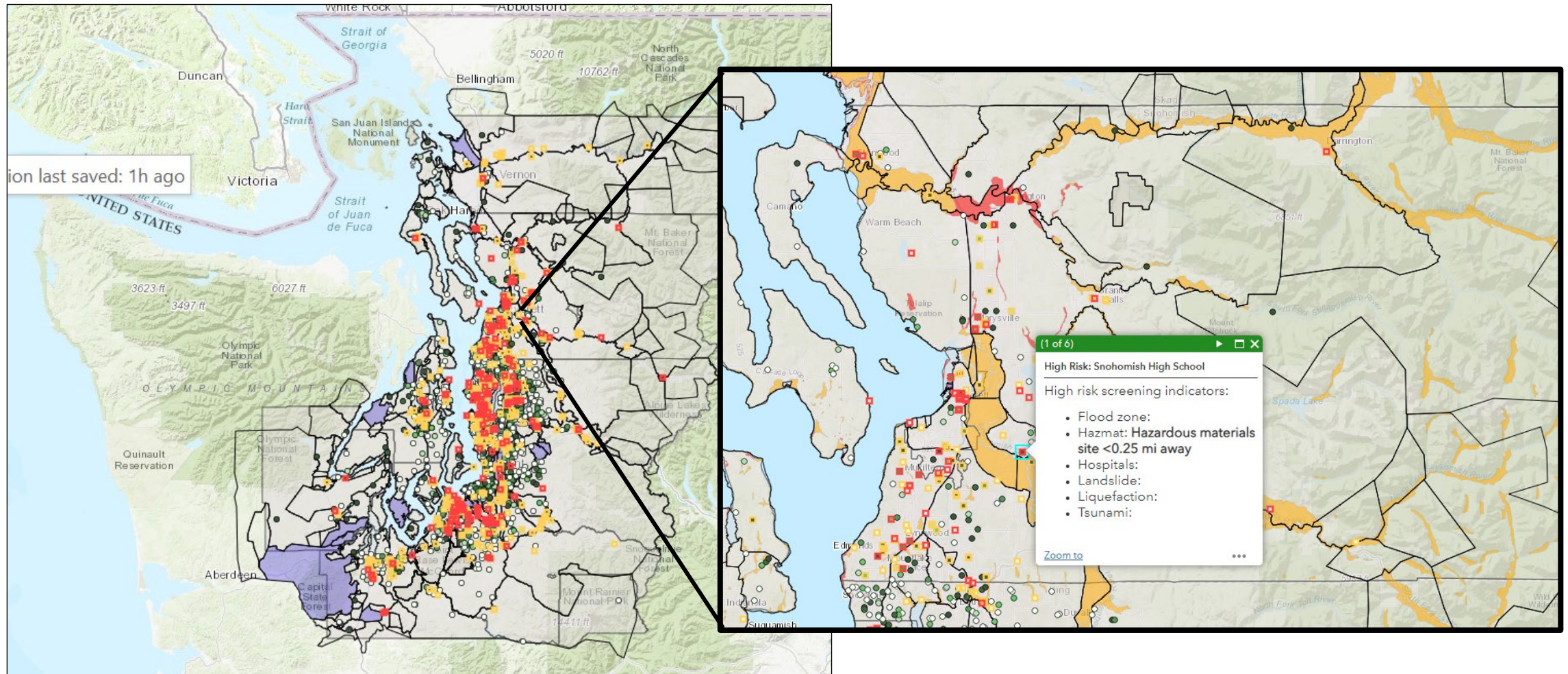
Critical Transportation Mapping

❑ Maritime System

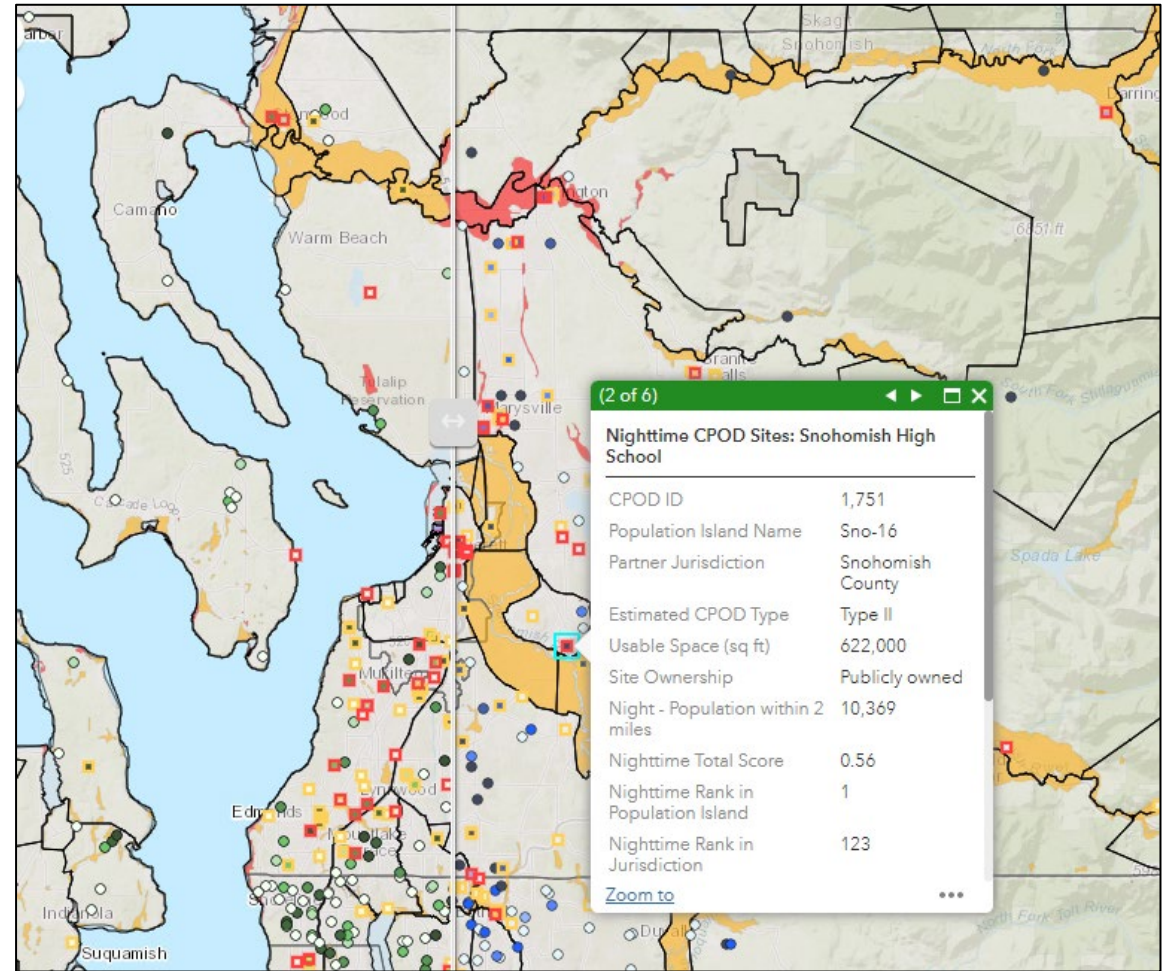
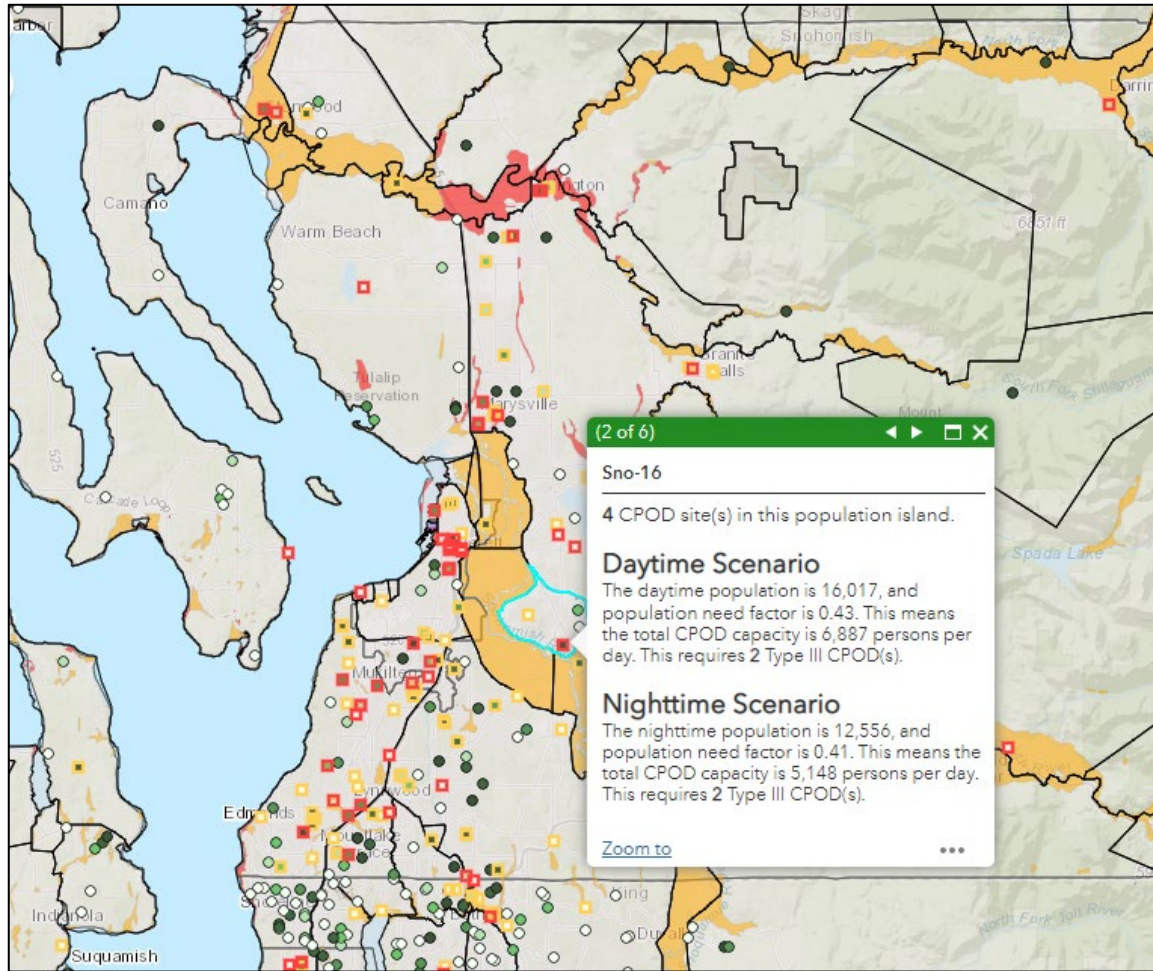
- ❑ Maritime Superhighway – trunk and tree system map
- ❑ Identifies Deep Water inputs and navigable rivers for cargo/freight traffic



Puget Sound RCPGP CPOD Prioritization Site Viewer



Puget Sound RCPGP CPOD Prioritization Site Viewer



REGIONAL WORK CONTINUES

- FY 2020 – King County awarded project focused on engaging the private sector maritime industry
- FY 2021 – Pierce County awarded project to assess local agricultural production (i.e., Nourishing Neighborhoods on a macro scale)
- Ongoing throughout Sno/King/Pierce – Engagement with the grocery sector
- Ongoing within Snohomish County – Building “zone-level” capacity
 - “Hub” EOCs
 - Cached equipment