

Committee members:

Sen. Chris Edwards (D-7, North Eugene/Junction City), Co-Chair

Rep. Ben Unger, (D-29, Hillsboro), Co-Chair

Sen. Jackie Dingfelder, D-23, NE Portland

Sen. Chuck Thomsen, R-26, Hood River

Rep. Jules Bailey, D-42, SE Portland

Rep. Bruce Hanna, R-7, Roseburg

Good Afternoon, Senator Chris Edwards and Rep. Ben Unger and members of the committee:

I'm Kent Yu, Principal with Degenkolb Engineers. I manage our firm's Portland office. Our firm is recognized as one of the world leaders in the field of Earthquake Engineering. Our clients include Intel, HP, Agilent, Genentech, Symantec, VA, Providence, PeaceHealth, Portland State University, and Oregon State University.

I am also the current Chairman of Oregon's earthquake commission, called Oregon Seismic Safety Policy Advisory Commission (OSSPAC). It is my pleasure to testify in support of Department of Geology and Mineral Industries (DOGAMI). The agency is currently managed by Dr. Vicki McConnell.

Over the years, I have been impressed with DOGAMI's work in three areas: applied research, seismic vulnerability assessment, and policy involvement.

First, DOGAMI is a scientific agency and deals with complex scientific issues like Cascadia earthquakes and tsunamis. I believe that the agency provides good service to industry and Oregonians at large through their publications, applied research, and outreach especially on geologic hazards mitigation. DOGAMI is well known for finding earthquake faults using LIDAR maps and developing tsunami inundation maps. The tsunami maps have raised the awareness in our coastal communities. For example, Seaside is planning to move their schools out of tsunami inundation zone. Based on their applied research on seismic/tsunami hazard, DOGAMI has also provided earthquake damage estimates, including their \$32 billion and 5,000+ fatalities estimate for the next big Cascadia earthquake.

Second, DOGAMI works in close partnership with many state agencies to perform seismic vulnerability assessment. For example, They performed a statewide seismic assessment of schools and critical facilities. DOGAMI also completed a critically important earthquake study on the energy sector with OPUC and Department of Energy. They discovered that all of Oregon's gas and jet fuel are

stored at facilities that are expected to fail in a major Cascadia earthquake. Another example is DOGAMI's partnership with Oregon Emergency Management on setting up seismic rehabilitation grant program to upgrade the most earthquake collapse prone schools and emergency facilities.

Lastly, DOGAMI bridges their assessment findings to help improve public safety and policy. DOGAMI has been an active and productive OSSPAC member over the past twenty years. Without any dedicated funds for their participation, DOGAMI has for years worked with Senate President Peter Courtney and Rep. Deb Boone on preparing our citizens for earthquake and tsunami disasters.

As I see, the agency leverages the modest appropriated funds from the state very effectively and for the good of the state.

Next week, the Oregon earthquake commission, which I chair, will present to you and other legislators recommendations from the Oregon Resilience Plan. The plan provides a vision on how Oregonians should prepare for the next Cascadia earthquake and tsunami. As the OSSPAC Chair, I request that you support DOGAMI so DOGAMI can help you support the recommendations laid out in the plan.

Unfortunately, Oregon is far behind others with respect to earthquake preparedness. California, Chile and Japan are far ahead of Oregon and Oregon needs to catch up to protect ourselves.