
**Coastal Resilience Grant Application
OREGON COASTAL MANAGEMENT PROGRAM**



Amount Requested from DLCD: \$14,000

Grantee Share: \$14,000

A 1:1 match will be provided by the City of Gearhart

Time frame: June 2018 – June 2019

SUMMARY

Project Title: *Tsunami Resilience Land Use Planning*

The City of Gearhart will work with staff at DLCD to evaluate the city's risk to the Cascadia Subduction Zone (CSZ) tsunami hazard and to decide which land use resilience measures to develop and implement to help reduce the city's risk (in collaboration with community stakeholders). Such measures may include developing a tsunami evacuation facilities improvement plan with the intention of improving evacuation routes within hazard areas. These provisions will likely result in changes to both the city's land use ordinance and its comprehensive plan.

The city will also receive locally-specific data products from DOGAMI as a result of participating in this project, including "beat the wave" modeling and mapping, socioeconomic analyses of community exposure, and damage estimate results for infrastructure, buildings, and people to the maximum considered CSZ tsunami inundation scenarios. These products are significant and informative tools that the community can use, not only in the land use planning components as described above, but also in other aspects of emergency preparedness to evaluate risk reduction measures.

1. Goals and Objectives:

State the goal(s) or overall purpose of the project. What is the problem, need, or opportunity the project will address? Describe planning, technical, or information objectives that will help achieve the goal(s).

The overall goal is to create a tsunami resilient community. Gearhart is susceptible to many natural hazards. The tsunami hazard from a Cascadia Subduction Zone earthquake is one of great concern to the City. The locally-specific tsunami data products produced by DOGAMI staff (as described above) offers valuable information in providing the community with the most effective evacuation routes and in considering evacuation infrastructure improvements. The land use measures developed through this project will be beneficial in identifying high risk areas, assessing the need for imposing additional land use limitations, and considering options for evacuation routes and resources and the siting and/or relocation of essential facilities. The end result will be locally implemented land use strategies, policies, and regulatory standards that will reduce vulnerability and increase resilience of the affected communities within the city to a CSZ event tsunami.