Action Item Proposal Form

Proposed Action Item Identification: (Example Multi-Hazard; Flood; Drought; Windstorm; Winter Storm; Landslide, Earthquake; Wildfire; Volcanic)	Alignment with Plan Goals: (List Goals the action helps to achieve.)
EH#2	▪ **Acknowledge Responsibility**
Proposed Action Title:	
Improve Knowledge of Earthquake Sources / Improve Earthquake Hazard Zone Maps	

Rationale for Proposed Action Item:
(What critical issues will the action address?)

- The source and location of an earthquake is a critical component of the expected damage to a particular site

- The current earthquake hazard maps are frequently a compilation of the existing maps, and were not necessarily the result of a systematic approach. These maps were compiled at widely varying scales and therefore have similarly varying levels of detail. The coarse-scale maps may mislead people to believe that certain areas have no hazard, whereas those areas have simply not been evaluated in detail. Systematic upgrading of these maps will lead to greater understanding of hazard locales. This will improve land use planning and provide for more efficient and cost effective development.

Ideas for Implementation:

- Improve the existing crustal fault database by expanding LIDAR survey coverage and interpreting the results. After the potentially active faults are identified, trenching should be conducted to associated data such as recurrence intervals and maximum magnitude. Expand the seismic instrument network.

- Systematically utilize the new Oregon Geologic Digital Data Compilation project output. Use new digital elevation models including those derived from LIDAR surveys to significantly enhance the accuracy of hazard classification. Collect and compile engineering properties of the geologic units. Incorporate improved spatial (vertical and horizontal) engineering properties data of the geologic rock units (shear wave velocities, strength, grain size, density, etc). Include hydrologic database characteristics such as groundwater depth.

Coordinating Organization:	Emergency Management

Internal Partners:	External Partners:
GIS, Public Works	DOGAMI, OEM, DLCD

Timeline:		If available, estimated cost:
Short Term (0-2 years)	Long Term(2-4 or more years)	
	X	

Form Submitted by:	DOGAMI