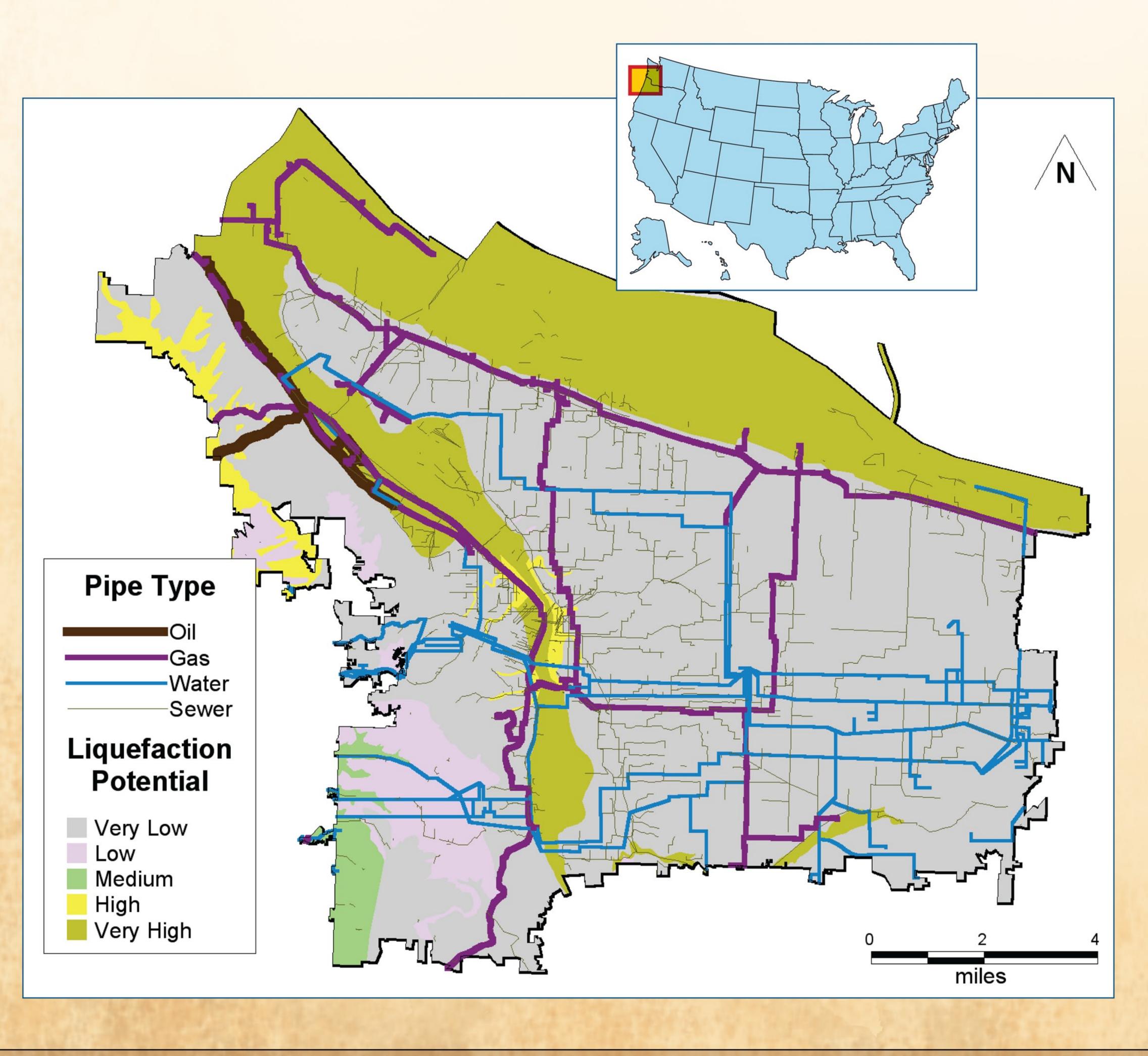
### **HAZUS-MH APPLICATION:** EARTHQUAKE

# Distribution of Utility Lifelines in Relation to Earthquake Hazard in Portland, Oregon





## **POTENTIAL USES**

#### **Pre-Disaster:**

- Evaluation of options for future extension of utility lifeline systems in Portland in relation to areas of potential soil liquefaction.
- Prioritization of mitigation measures for system components to reduce vulnerability to potential liquefaction.
- Evaluation of the population and businesses that are potentially vulnerable to the earthquake hazard in Portland.

#### **Post-Disaster:**

- Identification of utility lifelines that are potentially impacted by soil liquefaction.
- Identification of utilities that are potentially eligible for funds under FEMA's Public Assistance (PA) program following a declared disaster.
- Identification of mitigation opportunities following a damaging earthquake.

## DATA AND ANALYSIS DISPLAYED:

- Distribution of utility lifeline systems in Portland, OR, including oil, gas, water, and sewer (GIS inventory).
- Relation of components of utility lifeline system and the earthquake hazard in Portland, based on soil liquefaction potential.



