Uses (or Types of Users & Products) of the USGS National Seismic Hazard Model (NSHM)

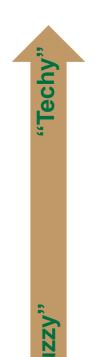
ATC/USGS Seismic Hazard User-Needs Workshop

Nicolas Luco

Research Structural Engineer

Leader of NSHMP Seismic Design Maps Task
Co-Project Chief of Engineering Risk Assessment Project

NSHMP Audiences



Other seismic hazard modelers (e.g., site-specific analysts, risk modelers)

Earthquake engineers (e.g., structural design or evaluation engineers)

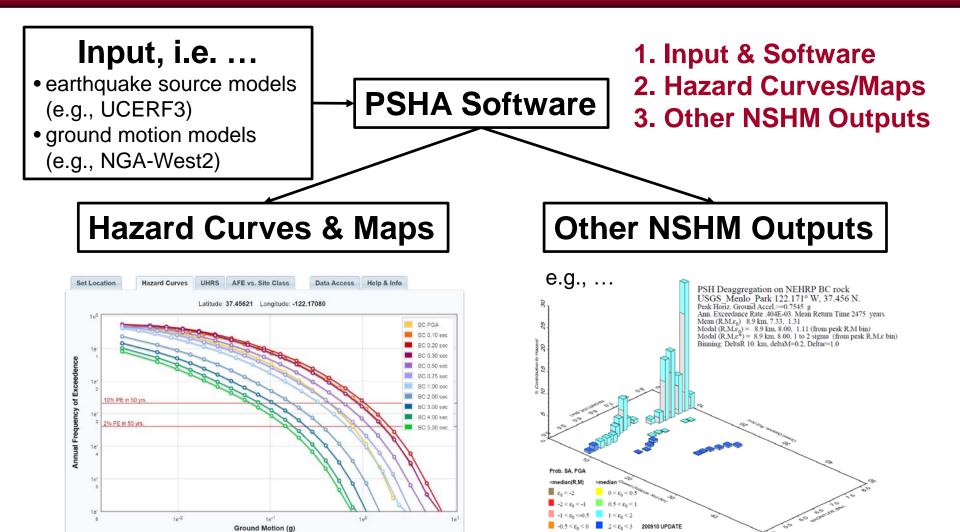
Primary focus of this workshop

Emergency-response & other planners

The public (e.g., the media, website users)

Emerging collaboration with SAFRR

Uses of NSHM



ATC/USGS Seismic Hazard User-Needs Workshop

Uses of NSHM Input & Software

- Site-specific hazard modeling
- Porftolio risk modeling
- Surface fault rupture modeling

• ...

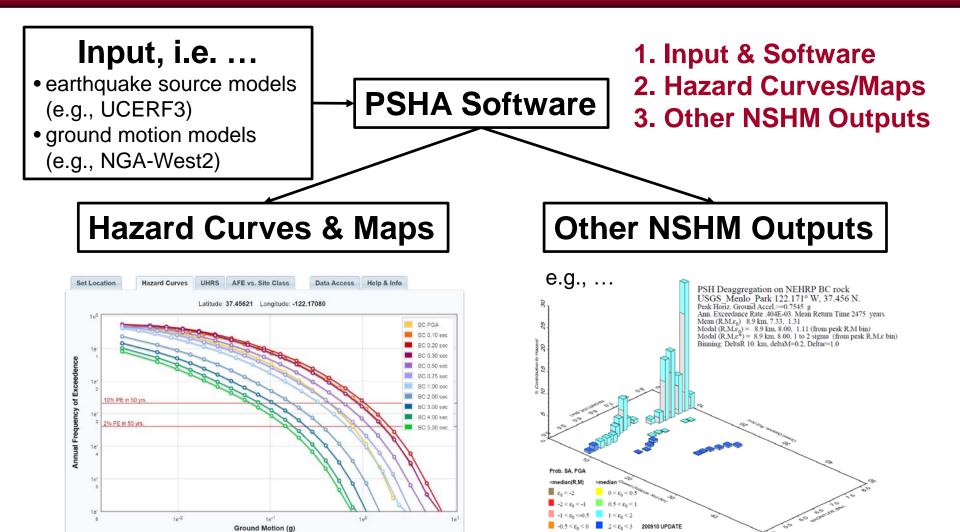
Uses of NSHM Curves & Maps

- Ground motions for designing, evaluating, or retrofitting structures
- Risk assessment for individual structures
- Seismic certification of equipment
- ...

Uses of Other NSHM Outputs

- Selection of seismograms for response history analysis of structures (deaggregation)
- Liquefaction assessment (deaggregation)
- Deterministic hazard assessment (scenarios)
- ...

Uses of NSHM



ATC/USGS Seismic Hazard User-Needs Workshop