Overview: What is ShakeCast?

- **Open-source USGS software; user installs (or USGS hosts).**
- **Automatically** retrieves ShakeMap & compares shaking levels with unique facility fragilities.
- Sends notifications & reports to specified personnel/responders.
- Generates & delivers report of inspection priorities (hierarchical lists of facilities likely impacted).
- Raises post-earthquake situational awareness in first min. to hrs. following an earthquake.
What’s new in ShakeCast?

• V4 development (“pyCast”)
  o Complete code refactoring to modern technologies for sustainability (Python, Angular). SQLite database & pure Python web server to ease the install process.
  o V4 ShakeMap compatibility
  o Integration of:
    ▪ HAZUS AEBM
    ▪ ShakeMap Scenario & Atlas
    ▪ USGS Ground Failure product

• ShakeCast Support
  o Support for scores of critical users; V3 to V4 upgrades.
  o ShakeCast Workbook facilitates creating inventory.
  o USGS cloud hosting for DOT’s, VA, NRC, others.
ShakeCast-Related R&D

- Scenario & Atlas ShakeMap Collections
  - >800 scenarios for U.S. available to ShakeCast
  - >6,000 global earthquake ShakeMaps for significant historical earthquakes

- Landslide/liquefaction product integration into ShakeCast
  - Landslide extent and likelihood now produced on grid like ShakeMap