



Earthquakes ★ Floods ★ Hurricanes ★ Landslides ★ Tsunamis ★ Volcanoes ★ Wildfires

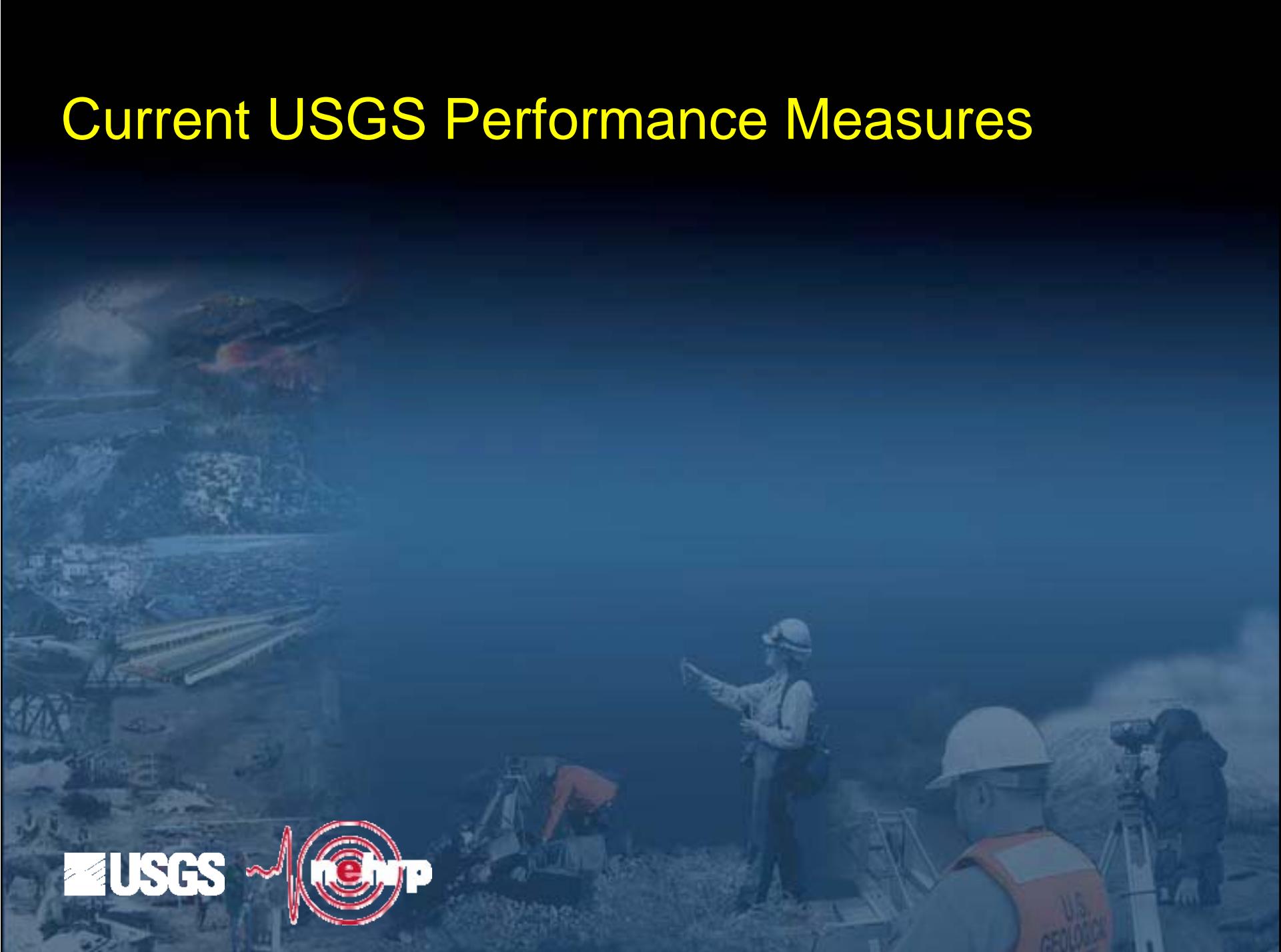
USGS Presentations

ACEHR Meeting, Golden CO

October 23-24, 2007

U.S. Department of the Interior
U.S. Geological Survey

Current USGS Performance Measures

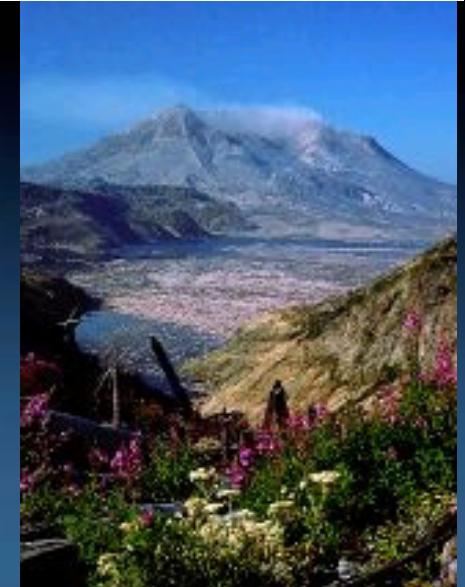


USGS geologic hazards programs

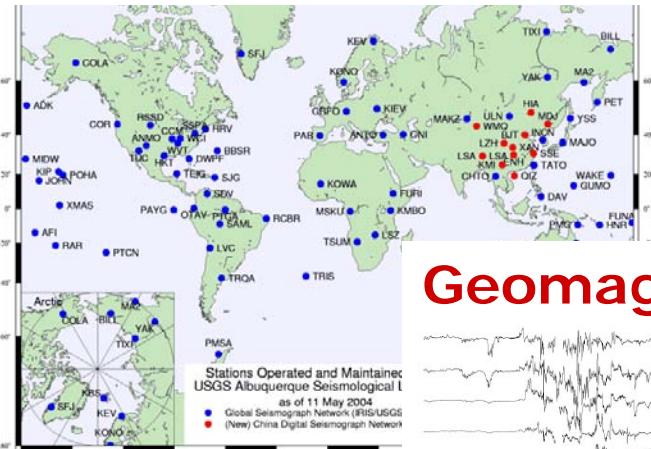
Earthquake Hazards



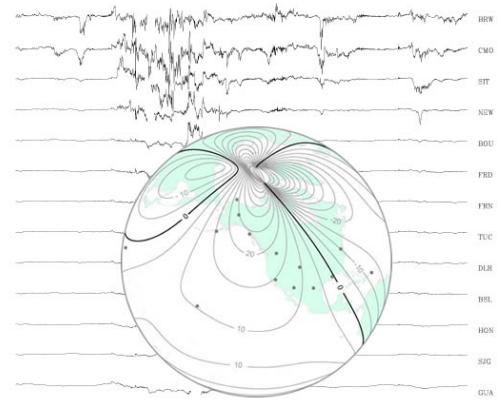
Volcano Hazards



Global Seismographic Network



Geomagnetism



Landslide Hazards



Geologic hazard programs and performance

- DOI Strategic Plan
 - Serving Communities: Improve protection of lives, property and assets, advance the use of scientific knowledge, and improve the quality of life for communities we serve
 - End outcome measure: Percentage of communities using DOI science on hazard mitigation, preparedness and avoidance for each hazard management activity.
- OMB Program Assessment Rating Tool
 - The geologic hazards programs were reviewed in FY2003 and found to be working effectively with partners and fulfilling their missions. They received a score of 82. All FY05, FY06 & FY07 improvement plan milestones met.



OMB FY07 Improvement Plan Milestones

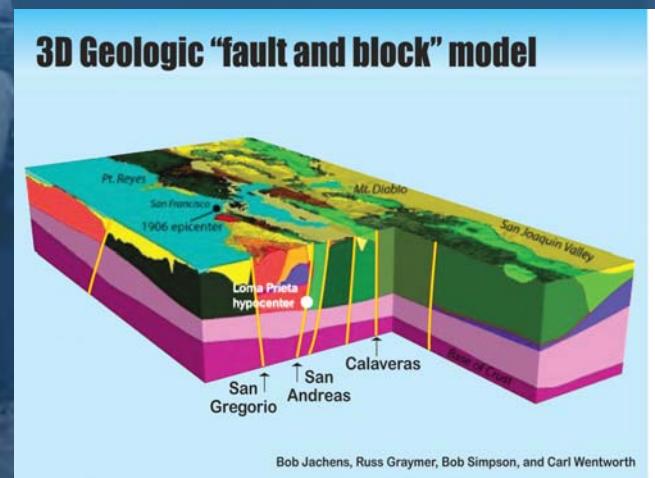
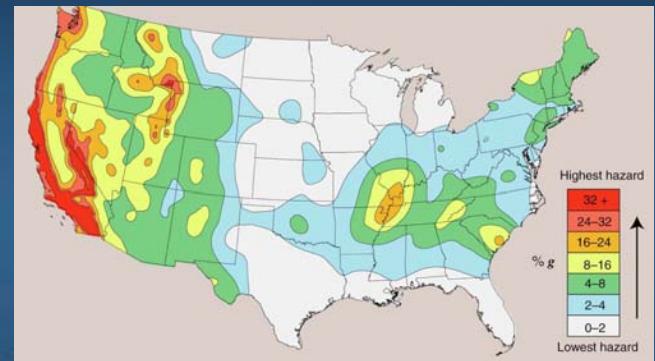
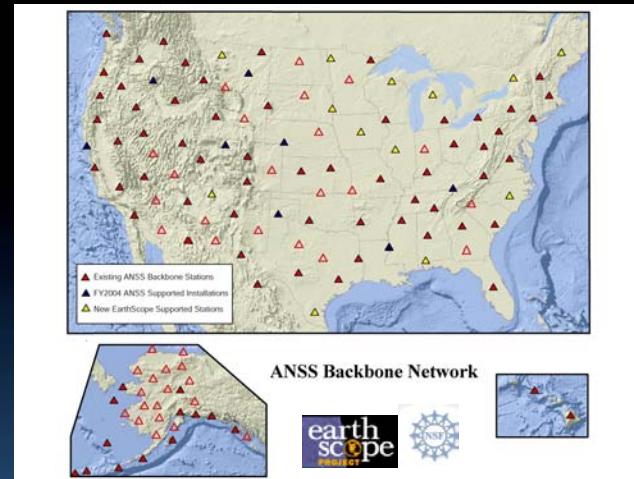
- Integrate performance reporting with Federal partners to ensure comprehensive representation of roles and responsibilities in outcomes.
- Based on evaluation of initial efforts, expand coordination of hazards investments across landslide, earthquake and volcano activities.
- Improve FEMA loss estimates by further integration of USGS seismic monitoring data.



The USGS role in NEHRP

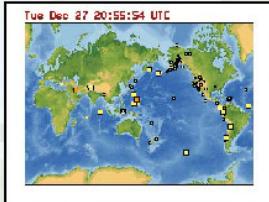
- Provide earthquake monitoring and notifications,
- Assess seismic hazards, and
- Conduct research needed to reduce the risk from earthquake hazards nationwide.

Estimated Funding (\$ million)			
Activity	ABC Code	FY 2007	% of funds
Hazard Assessments	N8	16.7	33
Earthquake Monitoring	J7	20.2	39
Earthquake Research	N7	9.7	19
Response, assistance, training	Z3	3.3	7
Program Planning	04	1.4	3





ANSS Earthquake Information Products & Tools



Latest Earthquakes

Maps and information for U.S. and worldwide earthquakes within minutes after they occur.

<http://earthquake.usgs.gov/eqcenter/>



Earthquake Notification

Customizable earthquake information automatically sent to your wireless device or email account.

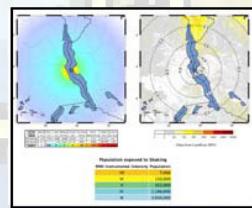
<http://earthquake.usgs.gov/ens/>



ShakeMaps

Distribution of shaking from an earthquake anywhere in the world within minutes.

<http://earthquake.usgs.gov/shakemap/>



PAGER

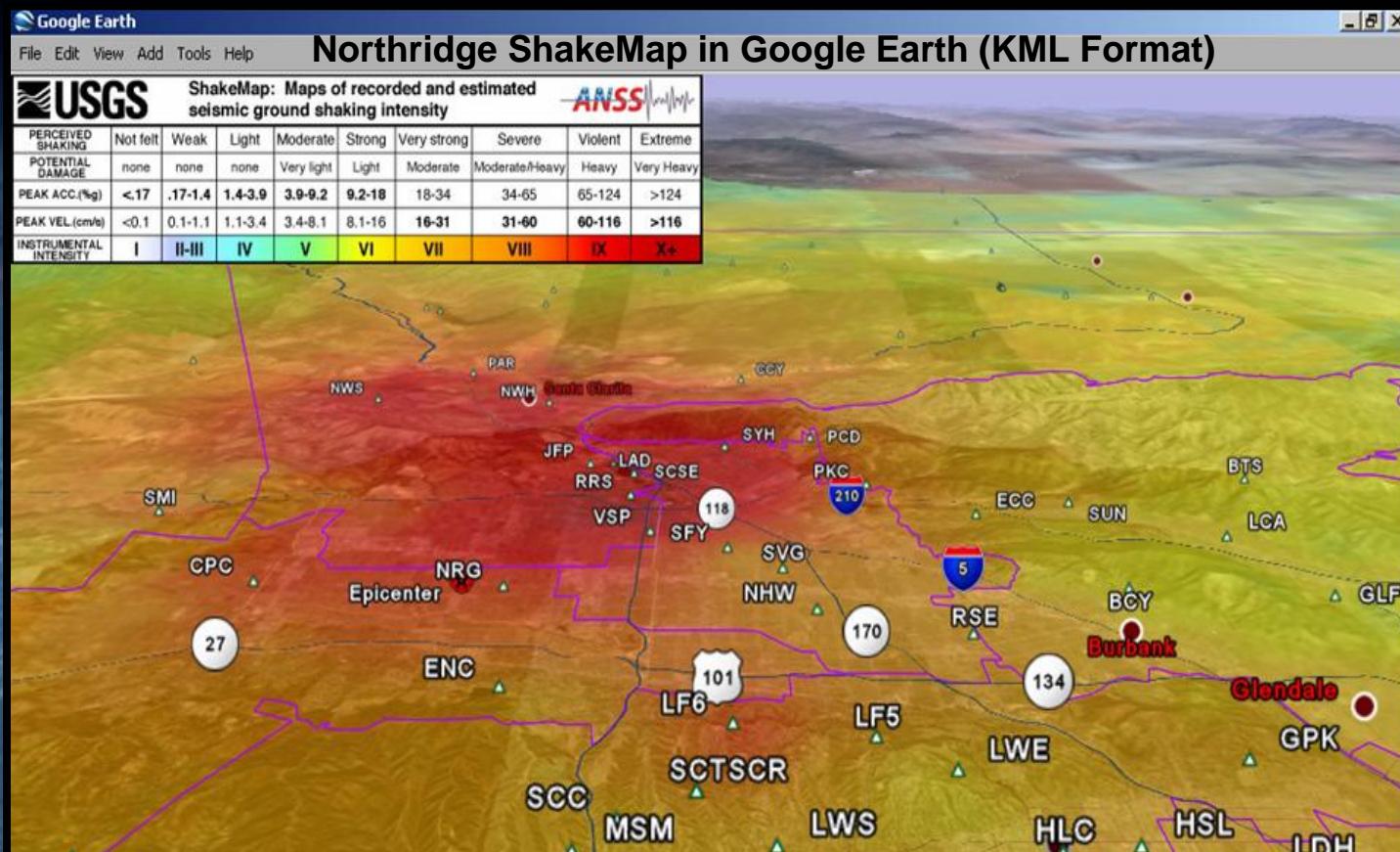
Estimates of population exposure to significant earthquake shaking anywhere in the world within minutes.

<http://earthquake.usgs.gov/pager/>

Performance Measures:

- Number of real-time ANSS earthquake sensors. **PART**
- Number of counties, or comparable jurisdictions, that have adopted improved building codes, land-use plans, emergency response plans, or other hazard mitigation measures based on USGS earthquake hazards information. **PART**

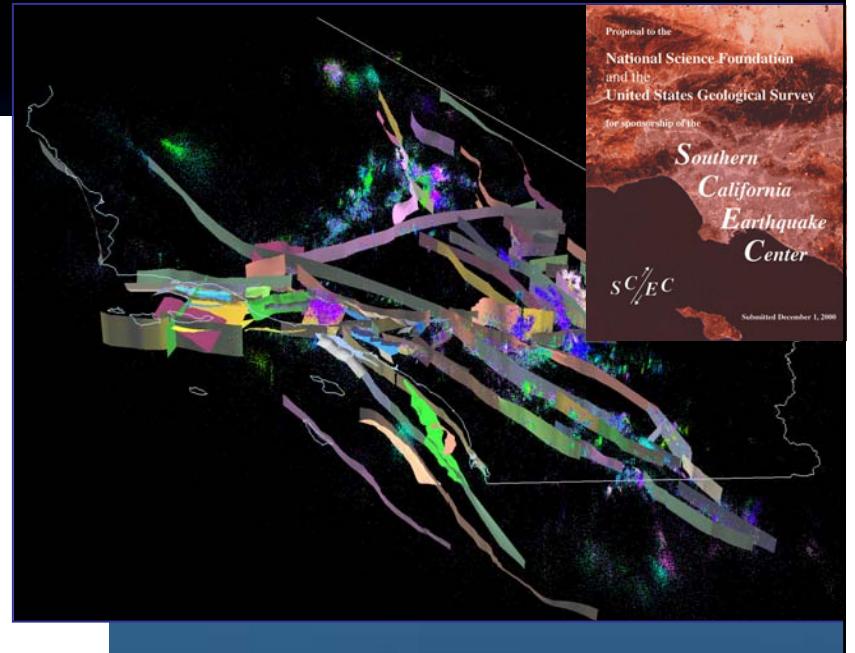
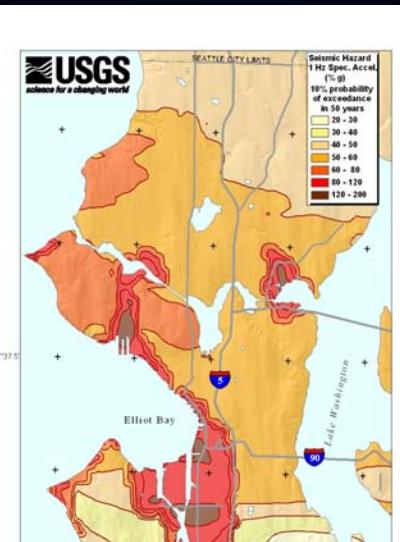
ShakeMap delivery



Performance Measure:

- Number of metropolitan areas where ShakeMap is incorporated into emergency procedures. PART

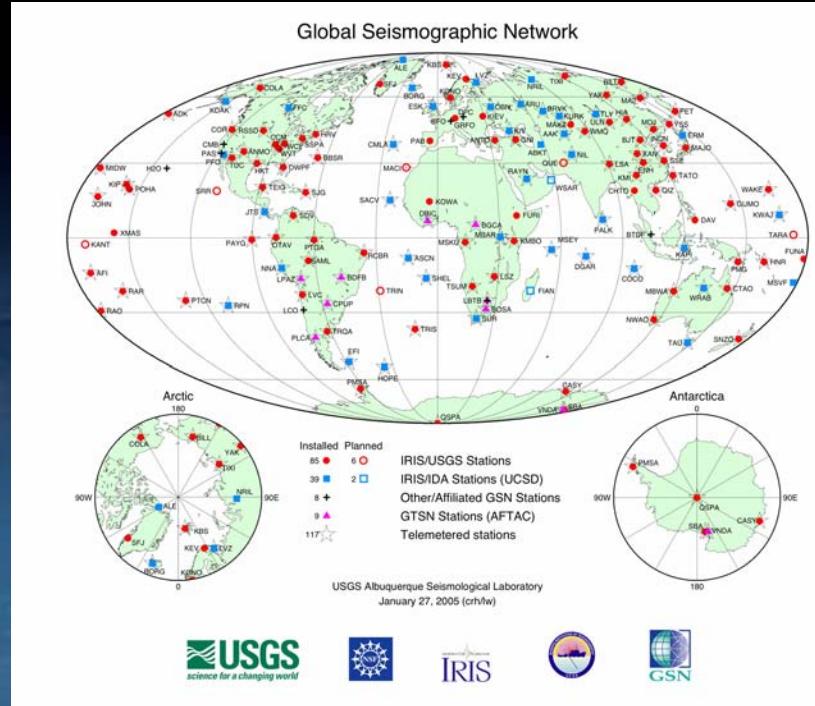
Measuring performance of research and assessment activities



Performance Measures:

- Number of urban areas for which detailed seismic hazard maps are completed. **PART publications**
- Number of systematic analyses (~~risk/hazard assessments~~) delivered to customers.
- Number of workshops or formal training provided to customers.

Global Seismographic Network



Performance Measures:

- Percentage of GSN monitoring stations that have telemetry (increase reporting speed from one hour to 20 minutes).
- Percentage data availability for real-time data from the GSN. **PART**
- Data processing and notification costs per unit volume of input data from sensors in GSN (cost per gigabyte). **PART Efficiency**