National Earthquake Hazards Reduction Program

... a research and implementation partnership

What the NEHRP Strategic Plan Could Mean for You ...

Workshop for Young Researchers, Professionals, and Faculty 25 July 2010



9th US National and 10th Canadian Conference on Earthquake Engineering: Reaching Beyond Borders





9ième Conférence Nationale Américaine et 10ième Conférence Canadienne de Génie Parasismique: Au delà des Frontières











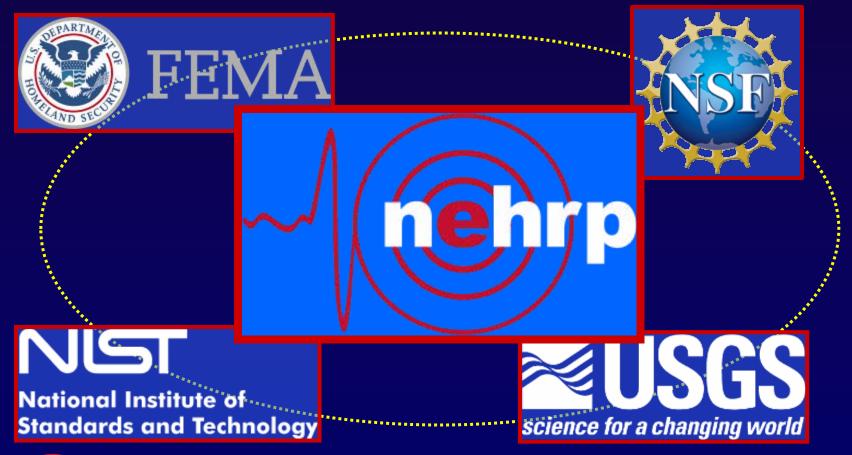
Presentation Outline

- Brief overview of NEHRP
- NEHRP Strategic Plan Overview
 - Outline
 - Vision
 - Strategic Planning Principles
 - Goals/Objectives
 - Strategic Priorities



National Earthquake Hazards Reduction Program

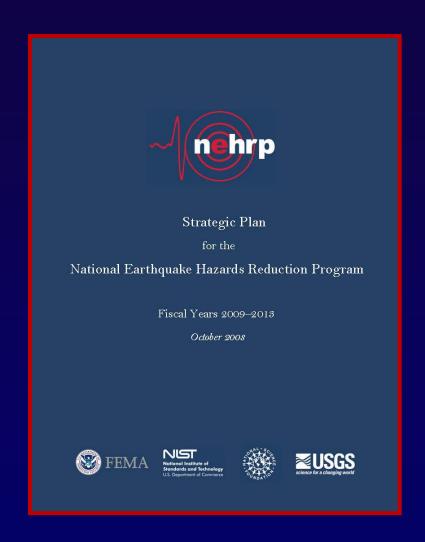
A Statutory Multi-Agency Partnership





Strategic Plan Outline

- Executive Summary
- Introduction Background (History, Prior Accomplishments)
- Vision / Mission / Strategic Planning Principles
- Goals / Objectives / Outcomes
- Strategic Priorities
- Summary
- Appendices





NEHRP Strategic Plan National Vision Statement

A national vision for the future:

A nation that is <u>earthquake-resilient</u> in public safety, economic strength, and national security.



Strategic Planning Principles ... including ...

- Program impact through effective development and transfer of knowledge, tools, and practices
- Program revision not reinvention
- Interagency coordination / cooperation / synergy
- Adoption of nine Strategic Priorities that support Program goals and objectives



Strategic Planning Principles (continued)

- Close partnerships with stakeholder communities
- Exploitation of ANSS, GSN, IRIS, NEES
- Multi-disciplinary approach
- Multi-hazard leveraging awareness
- Linkages with broader federal policies, plans, and priorities (e.g., SDR Grand Challenges for Disaster Reduction)
- Increased international cooperation



Goal A: Improve understanding of earthquake processes and impacts

- Objective 1: Advance understanding of earthquake phenomena and generation processes
- Objective 2: Advance understanding of earthquake effects on the built environment
- Objective 3: Advance understanding of social, psychological, and economic factors linked to implementing risk reduction and mitigation strategies in the public and private sectors
- Objective 4: Improve post-earthquake information management



Goal B: Develop cost-effective measures to reduce earthquake impacts on individuals, the built environment, and society at large.

- Objective 5: Assess earthquake hazards for research and practical application
- Objective 6: Develop advanced loss estimation and risk assessment tools
- Objective 7: Develop tools to improve the seismic performance of buildings and other structures
- Objective 8: Develop tools to improve the seismic performance of critical infrastructure



Goal C: Improve the earthquake resilience of communities nationwide

- Objective 9: Improve the accuracy, timeliness, and content of earthquake information products
- Objective 10: Develop comprehensive earthquake scenarios and risk assessments
- Objective 11: Support development of seismic standards and building codes and advocate their adoption and enforcement
- Objective 12: Promote the implementation of earthquake-resilient measures in professional practice and in private and public policies
- Objective 13: Increase public awareness of earthquake hazards and risks
- Objective 14: Develop the nation's human resource base in earthquake safety fields



Strategic Priorities

- Fully implement Advanced National Seismic System (ANSS)
- Improve techniques for evaluating & rehabilitating existing buildings
- Further develop Performance-Based Seismic Design (PBSD)
- Increase consideration of socio-economic issues related to hazard mitigation implementation



Strategic Priorities (continued)

- Develop a Post-Earthquake Information Management System (PIMS)
- Develop advanced risk mitigation technologies & practices
- Develop earthquake-resilient lifeline components and systems
- Develop & conduct earthquake scenarios for effective earthquake risk mitigation
- Facilitate improved earthquake mitigation at state & local levels



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