Washington State K-12 Facilities
Pre-Disaster Mitigation Program

Office of Superintendent of Public Instruction
School Facilities & Organization
Natural Hazards in Washington

- Wind Storm
- Volcano
- Earthquake
- Forest Fire
- Flood
- Landslide
- Snow
- Tsunami
- Drought
Washington’s Planning Approach

• Award: $1,000,000 FEMA planning grant
• Duration: Fall 2011- Fall 2015.
• Large Public Involvement
• End Goal: Assist school districts in developing mitigation plans
Levels of Detail of Work

More accuracy and increased cost to obtain information

**Project Cost Benefit Analyses**
-Qualifies specific projects to obtain FEMA mitigation funds

**School Districts HAZUS & Risk Assessments, and Jurisd. Annexes**
-Identifies $ damages to buildings
-Creates local strategies and qualifies schools to apply for FEMA mitigation funds

**Statewide HAZUS Risk Assessment and State Plan**
-Identifies which buildings are at risk from a given hazard
-Creates a state framework for schools to create local strategies
Process

Organization

- Frame up project
- Organization of a Planning Team
- Organization of Planning Partnership
- Coordination with Other Agencies

Data and Analysis

- Collect and gather data
- Develop hazard maps
- Perform HAZUS and Risk Assessments

Develop Plan Goals

- Outreach to public (meetings, internet)
- Hold planning team meetings
- Develop goals and plans

Individual Districts Plans

- Develop toolkit for school districts
- vetting local toolkit via creating local plans
- Perform select cost benefit analyses

Finalize Plan

- Technical format/edit
- Assemble plan
- Complete plan review crosswalk
- Final review and adoption
Current Project Status – Tasks Completed

• 4 stakeholder planning team meetings
• Expanded ICOS database for facility information relevant to hazards
• Collection of facility information for 28 pilot districts
• Draft K-12 Mitigation Plan
• Developed Planning Toolkit
Components of the Washington State K-12 Facilities Hazard Mitigation Plan

• Summary of public involvement process
• Assessment of natural hazard risks
• Goals, objectives and action items that address the natural hazard risks
• Implementation plan
Washington State K-12 Facilities Mitigation Plan: Mission Statement

• **Proactively facilitate and support statewide resources and programs that assist school districts in making K-12 schools in Washington State more disaster resistant and disaster resilient.**
Risk Assessment

- Analyzes the major natural hazards in depth: earthquakes, floods, landslides, lahars, tsunamis and wildfire.
- Identifies all K-12 facilities which are in harms way of a given hazard
- Estimates the extent of the damage to K-12 facilities per hazard event
### Earthquake Ground Motions with a 2% Chance of Being Exceeded in 50 Years

<table>
<thead>
<tr>
<th>Peak Ground Acceleration (% g)</th>
<th>Number of Campuses</th>
<th>Percent of Campuses</th>
<th>Percent of Campuses This Level or Higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>70% to 74%</td>
<td>26</td>
<td>1.07%</td>
<td>1.07%</td>
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<tr>
<td>60% to 70%</td>
<td>246</td>
<td>10.14%</td>
<td>11.21%</td>
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<td>50% to 60%</td>
<td>913</td>
<td>37.63%</td>
<td>48.85%</td>
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<td>40% to 50%</td>
<td>465</td>
<td>19.17%</td>
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<td>30% to 40%</td>
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<td>73.62%</td>
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<td>25% to 30%</td>
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<td>7.13%</td>
<td>80.75%</td>
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<td>20% to 25%</td>
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<td>8.86%</td>
<td>89.61%</td>
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<td>10.02%</td>
<td>99.63%</td>
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<td>Less Than 15%</td>
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<td>0.37%</td>
<td>100.00%</td>
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<tr>
<td>Totals</td>
<td>2426</td>
<td>100.00%</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Planning Toolkit

Data + Analysis = Reports

ICOS Database

Facility (Populated by school district)

Hazard (Pre-populated by OSPI)

District staff time

report
Acme SD
Hazard Info
What good is a report and plan?

Federal Funds

Identifiable projects

TSUNAMI EVACUATION ROUTE

Identify need for evacuation routes

SAFER SCHOOL CHILDREN

report
Acme SD
Hazard Info
Questions