Building Resilient Communities by Effective Seismic Risk Reduction and Resilient Disaster Reconstruction

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• M7.0 earthquake struck on January 12, 2010
• 300,000+ deaths
• 3 million people in affected area
• 200,000 buildings damaged
• 1.2 million people homeless
430,000 buildings assessed
<table>
<thead>
<tr>
<th>Organization</th>
<th>Homes Repaired</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAI/USAID - OTI</td>
<td>125</td>
<td>Delmas 31</td>
</tr>
<tr>
<td>ADORATION</td>
<td>200</td>
<td>Delmas 31</td>
</tr>
<tr>
<td>Chemonics/OTI</td>
<td>12</td>
<td>Martissant</td>
</tr>
<tr>
<td>PADF/USAID-OFDA/Caterpillar</td>
<td>1,200</td>
<td>Leogane</td>
</tr>
<tr>
<td>PADF/USAID/OFDA 2</td>
<td>1,696</td>
<td>Nazon, Delmas</td>
</tr>
<tr>
<td>PADF/USAID/OFDA 1</td>
<td>1,843</td>
<td>Simon Pele, CFF, Bel Air, Delmas 32</td>
</tr>
<tr>
<td>PADF/ARC</td>
<td>4,026</td>
<td>CFF, Delmas 31, 19, 33</td>
</tr>
<tr>
<td>UNOPS</td>
<td>800</td>
<td>Brise Tout, Pegguy Ville</td>
</tr>
<tr>
<td><strong>Total Houses Repaired</strong></td>
<td><strong>9,902</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL HOUSEHOLDS AFFECTED</strong></td>
<td><strong>14,952</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL PEOPLE AFFECTED</strong></td>
<td><strong>104,664</strong></td>
<td>Avg. 7 people/household - 52% women</td>
</tr>
</tbody>
</table>
9,902 Homes Repaired
2008 M8 Sichuan Earthquake
Istanbul Seismic Risk Mitigation and Emergency Preparedness Project

- Project Duration: 2006-2014
- Finance: World Bank and European Investment Bank
- Loan Amount: over $1.5 billion
Figure 1: Twelve regional seismic source zones (A-L) and epicenters of earthquakes during 1910 - present

Ref: Pennung Warnitchai
Return on Investment

- Adverse effect was reduced and controlled
- PML is reduced from approx. 30% to less than 10%
- Cost: $1.5 mill
- Benefit: $8 million plus 6 months profit ($150 mill)
- Cost Benefit ratio is better than 1/100
Building Resilient Communities

- Increase broader public awareness via media
- Retrofit critical structures by cost effective measures
- Develop professional capacities in developing countries
- Make sure to have good ROI for private sector
- Develop reconstruction strategies before disaster
Make the world a better place