Needs of Disaster Managers

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**Strong winds with gusts of up to 30 m/sec:**

<table>
<thead>
<tr>
<th>Damage Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth toll</td>
<td>16</td>
</tr>
<tr>
<td>Injured</td>
<td>170</td>
</tr>
<tr>
<td>Wrecked cars</td>
<td>1,900</td>
</tr>
<tr>
<td>Fallen trees</td>
<td>6,500</td>
</tr>
<tr>
<td>Damaged buildings</td>
<td>180</td>
</tr>
</tbody>
</table>
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1. Timely and accurate disaster forecasts are vital to ensure early warning and take adequate preparedness and prevention measures.
Orange Earthquake in Guatemala

Summary
This earthquake is expected to have a medium humanitarian impact based on the magnitude and the affected population and their vulnerability.

5397550 people within 100 km

Whether international humanitarian aid is needed must be decided by an expert.

Earthquake Impact Details
The earthquake happened in Guatemala, Department of San Marcos (population 808,778). The nearest places are San Pablo (13000 people, 2km), Malacatán (5km), Chanchicub (10km), San Francisco (10km), Navidad (10km), and 148 more.
The following vulnerable infrastructure is nearby and may be affected.
For logistics, the following access points are nearby. The nearest airports are Tapachula (31km), Tapachula International (runway 6500ft, 41km), Quezaltenango (56km), Retalhuleu (runway 4900ft, 58km), and Huehuetenango (72km). The nearest ports are Puerto Madero (50km), and Champerico (74km).
The maximum altitude nearby is NaNm.

The population near the earthquake is shown in the table below.

<table>
<thead>
<tr>
<th>Radius</th>
<th>Population</th>
<th>Density (people/km²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 km</td>
<td>3.9 million</td>
<td>222</td>
</tr>
<tr>
<td>50 km</td>
<td>2 million</td>
<td>259</td>
</tr>
<tr>
<td>20 km</td>
<td>370000 people</td>
<td>297</td>
</tr>
<tr>
<td>10 km</td>
<td>110000 people</td>
<td>374</td>
</tr>
</tbody>
</table>

Characteristics
- Magnitude: 7 M
- Depth: 97.9 km (deep)
- Source: PTWC
- Location (latitude/longitude): 14.947,-92.017
- Time (UTC): 14 Jun 2017 07:29:05
- Time (ECT): 14 Jun 2017 09:29:05
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2. **Rapid impact estimates immediately after the sudden on-set disasters**

Estimated number of killed, injured, number of buildings collapsed and seriously damaged, types of buildings in the affected area, affected population.

The estimates should be GIS based and take into consideration the building construction types and secondary risks.

Brief and relevant (user friendly).
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3. A set of user friendly software products to model development of different types of disasters (wild fires, floods, volcano eruptions, oil spills, chemical accidents, nuclear power accidents, etc.)

4. Global Atlas of Disaster Risks (with country profiles)

To be used for planning of international development capacity building projects
Thank you for your attention!