Roadmap for Disaster Risk Reduction in the Built Environment

March 15th, 2018
Kobe
ROADMAP FOR DISASTER RISK REDUCTION IN THE BUILT ENVIRONMENT

- Stakeholder Mapping
- Building Regulatory Capacity Assessment
- Risk Assessment
- Stakeholder Analysis
- Reform Champions

Project Design

Monitoring & Evaluation
DISCUSSION TODAY FOCUSES ON 3 TOPICS

- Stakeholder Mapping
- Building Regulatory Capacity Assessment
- Risk Assessment
- Stakeholder Analysis
- Reform Champions
- Project Design
- Monitoring & Evaluation
What can we do with this information for BRR?

**POLICY**
- Loss Related Decisions
  - People
  - Government
  - Business
  - Planners
    (Planning, Preparation, Response, Recovery)

**SCIENCE**
- Fault
  - Rupture
    - Magnitude M

**ENGINEERING**
- Site
  - Rock
  - 2a Ground Motions
    - Seismologists
- 3 Controlling Response
  - Engineers

**Risk Assessments**
- Advocacy/
  - Decision making

**Rapid Visual Screen tools**

**Post-Disasters Needs Assessment**

**Inputs for development of financial risk profiles**

**Development of Probabilistic Seismic hazard maps**

**Inform design spectra and standards**

**Territorial/ Land use planning**
<table>
<thead>
<tr>
<th>Product</th>
<th>Purpose</th>
<th>Scale</th>
<th>Data Requirements</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualitative national risk profile</td>
<td>For advocacy and initiation of DRM dialogue</td>
<td>National</td>
<td>Low: Requires global, regional, and/or national data sets</td>
<td>$</td>
</tr>
<tr>
<td>Community-based disaster risk assessment</td>
<td>To engage communities, communicate risk, and promote local action</td>
<td>Community level</td>
<td>Low: Typically based on historical disaster events</td>
<td>$</td>
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<tr>
<td>Quantitative national risk profile</td>
<td>For advocacy and initiation of DRM dialogue based on quantitative assessment</td>
<td>National</td>
<td>Low-moderate: Requires global, regional, and/or national data sets</td>
<td>$$</td>
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<tr>
<td>Asset-level risk assessments, including cost-benefit and engineering analysis</td>
<td>To inform design of building-level/asset-level risk reduction activities and promote avoidance of new risk</td>
<td>Building / infrastructure level</td>
<td>Moderate-high: Requires high-resolution local data for large spatial areas with clear articulation</td>
<td>$$</td>
</tr>
<tr>
<td>Macro-level risk assessment for risk reduction, including cost-benefit analysis</td>
<td>To inform urban/regional risk reduction measures</td>
<td>Urban, regional, national</td>
<td>Moderate-high: Requires moderate to high resolution across large spatial areas</td>
<td>$$$</td>
</tr>
<tr>
<td>Risk identification to identify critical infrastructure and establish early warning systems</td>
<td>To inform preparedness and risk reduction, based on understanding of potential damage at the regional/local level</td>
<td>Urban, regional, national</td>
<td>Moderate-high: Requires asset-level information across large spatial areas</td>
<td>$$-$$$ [broad range depending on geographic scope]</td>
</tr>
<tr>
<td>Catastrophic risk assessment for financial planning</td>
<td>For financial and fiscal assessment of disasters and to catalyze catastrophe risk insurance market growth</td>
<td>National to multi-country</td>
<td>High: Requires high-resolution, high-quality data of uncertainty</td>
<td>$$$</td>
</tr>
</tbody>
</table>
INDONESIA: Residential Exposure
In 2016/17, Albania ranking has improved by 80 positions on the ease of dealing with construction permits as measured by Doing Business.

QUESTIONS (1) – PROJECT DESIGN

- Under each area, what are the priorities based on your current understanding of issues in your country?
In 2016/17, Albania ranking has improved by 80 positions on the ease of dealing with construction permits as measured by Doing Business.
QUESTIONS (2) – WHO ARE THE REFORM CHAMPIONS?

- What can create momentum to initiate reform(s) without waiting for the ‘next one’?
- Who can be champions in your country?
RESOURCES FOR ROADMAP IMPLEMENTATION
AVAILABLE RESOURCES

Construction Permitting Software

Building Regulatory Capacity Assessment*

EDGE Software**


** [https://www.edgebuildings.com/software/](https://www.edgebuildings.com/software/)
AVAILABLE RESOURCES

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