



Kenya Action Plan

Technical Deep Dive on Seismic Risk and Resilience
March 12 – 16, 2018
Tokyo, Sendai and Kobe



Kenya Key Takeaways from TDD



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1. Preparedness is expensive but not doing so is even more expensive
2. Neighboring countries face similar challenges, we should share experiences and data and look for regional cooperation (i.e. seismic hazard mapping)
3. Roles and responsibilities for emergency response and early warning systems should be clearly defined (who coordinates, who participates and who supports)
4. Building regulations have proven to be effective importance to keep updating with the lessons from the different events
5. Technical capacity is a fundamental pillar and should be continuously improved



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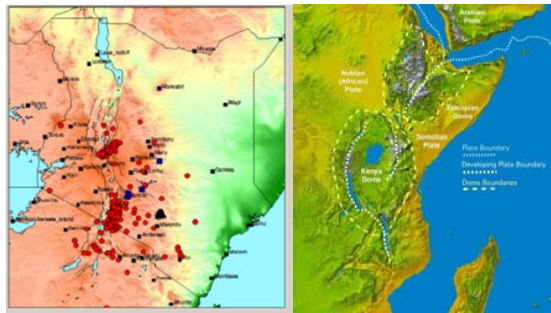
Kenya Accomplishments Needed



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1. Improved seismic network and hazard/ risk information
2. Strengthen building regulations and implementation capacity
3. Create risk awareness



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Kenya Actions to be Taken for the improvement of seismic information



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- **Short-term:**
 - Mapping stakeholders (Metereological Dept., University and line Ministries) – Ministry of Mining
 - Organizing a regional workshop and development of a road map - Ministry of Mining with WB support
- **Medium-term:**
 - Creating coordination mechanism for seismic risk monitoring
 - Collecting existing information and identification of gaps for a national seismic hazard map to inform building regulations
- **Long-term:**
 - Developing a national seismic hazard map to inform building regulations
 - Designing a seismic network and road map for implementation



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Kenya Actions to be Taken to strengthen building regulations and implementation capacity



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- **Short-term:**
 - Stakeholder validation workshop to discuss current draft of the built environment bill
 - Finalizing the bill and submit for cabinet and parliament approval
 - Definition of road map for legislation (regulation framework and standards) and capacity building
- **Medium-term:**
 - Development of the regulations and standards including sanction mechanisms
 - Assessment of capacities and gaps of approval process (siting, design, inception, construction, up to decommission)
 - Strengthen audit and inspection of building and other structures for safety
 - Start capacity building implementation (local governments, practitioners, professional bodies, developers, etc.)
- **Long-term:**
 - Develop a prototype of the approval of development projects
 - Continue capacity building implementation (local governments, practitioners, professional bodies, developers, etc.)
 - Conduct periodic regulation reviews
 - Conducting comprehensive vulnerability assessment of buildings (critical and high population density buildings)
 - Formulation and implementation of land use plans at the country level



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Kenya Actions to be Taken for Create risk awareness and sensitization



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- **Short-term:**

- Creating political awareness – lobby for the incoming regulations – statistics and human and economic effects of the building collapses
- Community sensitization of main causes of building collapses

- **Medium-term:**

- Dissemination of building regulations and standards
- Design and implement a media campaign

- **Long-term:**

- Revise professional curricula for architects and engineers
- Technical vocational training
- Training of trainers
- Development of user friendly / simplified guidelines for different security and safety issues



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Barrier/Challenge of Implementation of Plan

1. Political interference – corruption
2. Lack of awareness about building security from tenants
3. Impunity
4. Lack of ethics
5. Rapid rural-urban migration increasing demand for housing
6. High poverty levels make people live in squalid conditions



Kenya Support Needed



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- **World Bank:**

- DRM and Urban Policy dialogue through the CAT DDO
- Expertise in seismic hazard mapping and regional workshop
- Support in building regulation road map (BRR support) and built environment bill validation workshop
- Development of communication materials

- **DRM Tokyo Hub**

- Capacity building opportunities in built environment
- Capacity in seismic monitoring and link to JMA on the design of the seismic and tsunami network

- **Knowledge Products (Case Studies, Policy Notes, etc.)**

- Support Revision and validation of the built environment bill
- Support seismic hazard / vulnerability studies



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