

Sound Practice No.1

“Land-use planning based on the seismic hazard evaluation in the Greater Tehran Metropolitan”

Master and Comprehensive Plans of Tehran are now under revision. In the previous plans, no disaster risk mitigation considerations have been taken into account, but in this revision, seismic risk management is one of the key elements. This project is carrying out by IIEES and will cover different aspects of disaster risk mitigation and management including seismology, geotechnic, vulnerability of structures and lifelines, emergency response, etc. The results will be used in Tehran master and comprehensive plans to be considered for future development in the metropolitan.

Significant Background Information

As described before, the seismic risk in Tehran is quite high and seismologists believe that a strong earthquake would shake Tehran in near future. During the previous decades no important countermeasures considered to decrease the impacts of the potential earthquake in Tehran, but recently important activities carried out by the Government of Iran to reduce vulnerability of the country. One of the main activities is related to Land-use Planning for the Greater Tehran for seismic risk mitigation and management. This is the first serious project formulated at IIEES to consider all elements of disaster risk reduction in Tehran. In order to carry out the project, a lot of studies and reports in different aspects of earthquake studies (mitigation, preparedness, emergency response, etc) have been evaluated and compiled to make a clear picture of current situation of the city and then necessary activities have been proposed to fill the gaps.

Sound Practice Details

This project is in fact a Land-use management plan that would be included in Tehran Master and comprehensive plans. It also provides some instructions and guidelines to be considered for future development at the city of Tehran. The results should be used to make new regulations by city council for development plans in Iran. Planning Office of Tehran Municipality sponsors this project and IIEES is the key player to implement the project. The project has been started in

2004 and would be finished in 2005. The target group for this project is urban designers and city managers, but it covers different subjects through the Tehran Metropolitan.

Relevance to Megacities

Tehran is the most important mega city in Iran, so the results of the project could be used in other mega cities in Iran and other countries. By considering the recommendation and guidelines presented in this project, the damage level of the city could be decreased considerably.

The sustainability of the project is related to the Tehran authorities. The results should be updated regularly and special projects should be carried out at the end of this project.

Supporting Documentation

As the project is in progress now, the relevant documents could not be presented at this stage. As soon as finalizing the project, the results could be published and be usable for other mega-cities.

Knowledge Base Coding Reference:

Name of the Practice: Land Use Planning and Seismic Hazard
Contact Person(s): Prof. Mohsen Ashtiani and Kambod Amini Hosseini
International Institute of Earthquake Engineering and Seismology, IIEES, Tehran-Iran.
Contact Address: Mohsen Ashtiany [ashtiany@iiees.ac.ir]
Written by: J. Fernandez, 3cd Component 1 Coordinator,
modified by M. Ashtiani and K. Hosseini