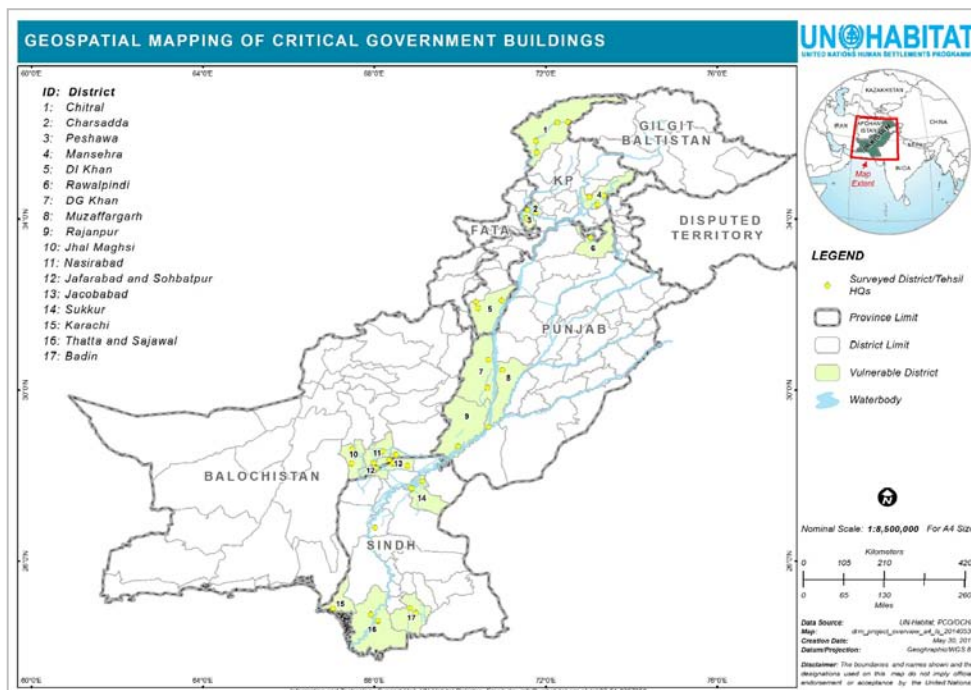


Geospatial Mapping of Critical Government Buildings in Most Vulnerable Districts of Pakistan

Background

Pakistan is one of the most disaster-prone countries in the world. A massive earthquake in 2005 killed more than 73,000, injured 100,000 other people and destroyed vital infrastructures. Repeated floods of 2010, 2011 and 2012, caused massive human casualties and losses to property. According to the National Disaster Management Authority (NDMA), the floods in 2010 affected an area of about one fifth of the country, claiming over 2,000 lives and injuring 3,000. Flash floods and landslides triggered by monsoon rains caused severe damage to infrastructure in the affected areas. In certain instances entire villages were washed away, urban centers were flooded, homes were destroyed, and thousands of acres of agricultural lands were damaged with major soil erosion occurring in some areas.

In preparation for the possibility of further flooding, UNDP and UN-Habitat focused considerable attention on improving timeliness, with practical measures to support rapid operational recovery and scale up (for example, Human Resources rosters and pre-qualified Implementing Partners/Supplier agreements) with greater emphasis on participatory contingency and continuity planning. The additional focus on continuity – both economic and social – as a primary Early Recovery objective would result in a comprehensive approach to managing negative impacts. This would include preventative measures such as asset and resource mapping that identifies the most important and pivotal services needs to be restored.



Project is geographically focused on selected District/Tehsil Headquarters in 19 most vulnerable districts of four provinces of Pakistan (shown in map).

Role of UN-Habitat

UN-Habitat has rich experience in Geographical Information System based mapping & development and it is one of the key strengths of organization. Moreover, highly technical expertise in Disaster Risk Reduction (DRR) and Disaster Risk Management (DRM) differentiate UN-Habitat from other humanitarian agencies. With such strong profile, UN-Habitat is implementing this project starting with field survey in terms of critical government buildings assessment. Field data is gathered with the help of GPS coordinates and by collecting key information on structured questionnaires. The information is cleaned for inconsistency, geo-referenced and finally presented as digitized geospatial maps and in the shape of graphically highlighted different dimensions of vulnerability. The geospatial maps present vulnerability of key government buildings to repeated disasters.

Specific Objectives

The objective of the assignment is to map and analyze the susceptibility of critical administrative government buildings to floods and other hazards in the most vulnerable districts. The exercise focused on identifying the district and tehsil headquarters' offices facing greater risk to disasters in the selected districts across the country. This exercise will facilitate preparation of pre-disaster plans for the vulnerable buildings and government functions also the creation of a geo-spatial database of Tehsil level shows the relative location of its infrastructure and assists in site planning. In super- imposing population distribution and characteristics, the possibilities for integrated analysis and planning become more interesting in future.

Expected Outputs

The following are expected to be achieved.

1. Comprehensive database for administrative government buildings in selected districts
2. District wise mapping and profiling of administrative government buildings showing overall statistics, buildings vulnerability level against different hazards and their respective locations.
3. General recommendations for vulnerable buildings.

Project Stakeholders

UN-Habitat is implementing this project with the collaboration of UNDP, NDMA and relevant PDMA.

For further details, contact:

Bella Evidente

Country Programme Manager, UN-Habitat Pakistan

Tel: (+92) (51) 8357358-8357363-64 | Fax: (+92)(51) 8357359 | 5th Floor, Serena Business Complex, Khayaban-e-Suhrawardy, Islamabad, Pakistan | Web: <http://www.unhabitat.org.pk>