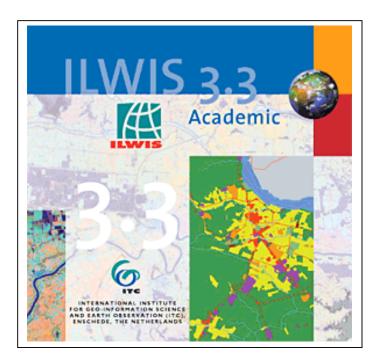
Introduction to Geographic Information System and Image Processing

using ILWIS3 Software

and Data from 8 Earthquake Affected Area of Northern Pakistan



P K Mool March 2006



ABOUT THIS MANUAL

This manual explains about a basic understanding of the functionalities of ILWIS 3, basic concepts of Geographic Information System (GIS) and Remote Sensing (RS). Emphasis is given knowledge on Spatial Data Input, Attribute Data Handling and Image Processing.

This manual is prepared for the Workshop/Training on "Earthquake Vulnerability and Multi- Hazard Risk Assessment: Geospatial Tools for Rehabilitation and Reconstruction Efforts" held at National Centre of Excellence in Geology, Peshawar, Pakistan from 13 to 31 March 2006.

The programme is organized by; National Centre of Excellence in Geology (NCEG), Peshawar, Pakistan, and International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal; in collaboration with Institute of Geo-information and Earth Sciences (ITC), Enschede, the Netherlands, associated Institute of the United Nations University (UNU), Tokyo, Japan, and Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand

The data set for this exercise was provided by or downloaded from ICIMOD, ITC, NCEG, RISE-PAK, EDC, USGS, DCW and other sources. I would like to thank Prof. Cees van Westen, and ILWIS Department of ITC for allowing using the ILWIS3 User's Guide format for preparing this manual. I would like to thank Mr. Basanta Shrestha, Mr. Samjwal Bajracharya and other colleagues of ICIMOD, Prof. Asif Khan and his colleagues of NCEG for data and technical supports.

P K Mool March 2006

> Workshop/Training on "Earthquake Vulnerability and Multi- Hazard Risk Assessment: Geospatial Tools for Rehabilitation and Reconstruction Efforts" held at National Centre of Excellence in Geology, Peshawar, Pakistan from 13 to 31 March 2006







