

14 Earthquake affected priority districts







Village Development Committees classified by level of landslide hazard based on susceptibility

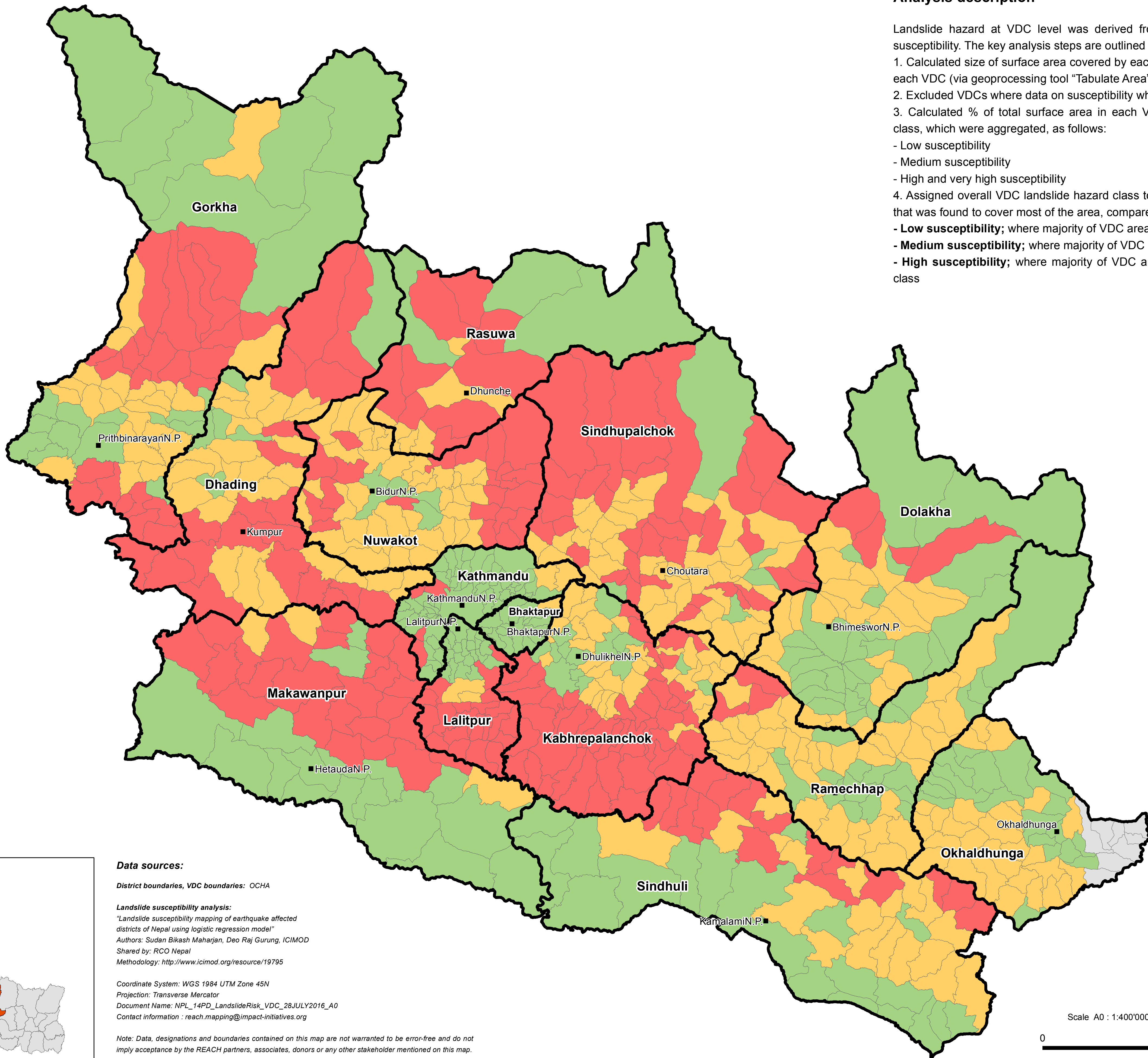
Analysis description

Landslide hazard at VDC level was derived from a raster dataset with data on landslide susceptibility. The key analysis steps are outlined below:

1. Calculated size of surface area covered by each class of landslide susceptibility raster within each VDC (via geoprocessing tool "Tabulate Area", ArcGIS)
2. Excluded VDCs where data on susceptibility where not available for whole VDC
3. Calculated % of total surface area in each VDC that was covered by each susceptibility class, which were aggregated, as follows:
 - Low susceptibility
 - Medium susceptibility
 - High and very high susceptibility
4. Assigned overall VDC landslide hazard class to each VDC based on the susceptibility class that was found to cover most of the area, compared to each of the other classes, as follows:
 - **Low susceptibility**; where majority of VDC area falls into Low susceptibility class
 - **Medium susceptibility**; where majority of VDC area falls into Moderate susceptibility class
 - **High susceptibility**; where majority of VDC area falls into High or Very high susceptibility class

Landslide Hazard Based on Susceptibility

-  High susceptibility
-  Moderate susceptibility
-  Low susceptibility
-  No Susceptibility Data
-  District boundary
-  Main town



Data sources:

District boundaries, VDC boundaries: OCHA

Landslide susceptibility analysis:

"Landslide susceptibility mapping of earthquake affected districts of Nepal using logistic regression model"
Authors: Sudan Bikash Maharjan, Deo Raj Gurung, ICIMOD
Shared by: RCO Nepal
Methodology: <http://www.icimod.org/resource/19795>

Coordinate System: WGS 1984 UTM Zone 45N
Projection: Transverse Mercator
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Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates, donors or any other stakeholder mentioned on this map.

