

Bridging Climate Science and Adaptation Plan

Operationalizing Landslide Risk Management under Climate Change Scenarios

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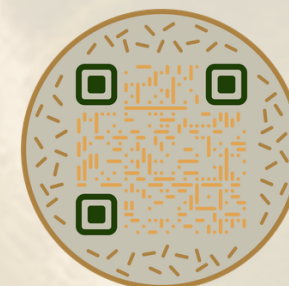
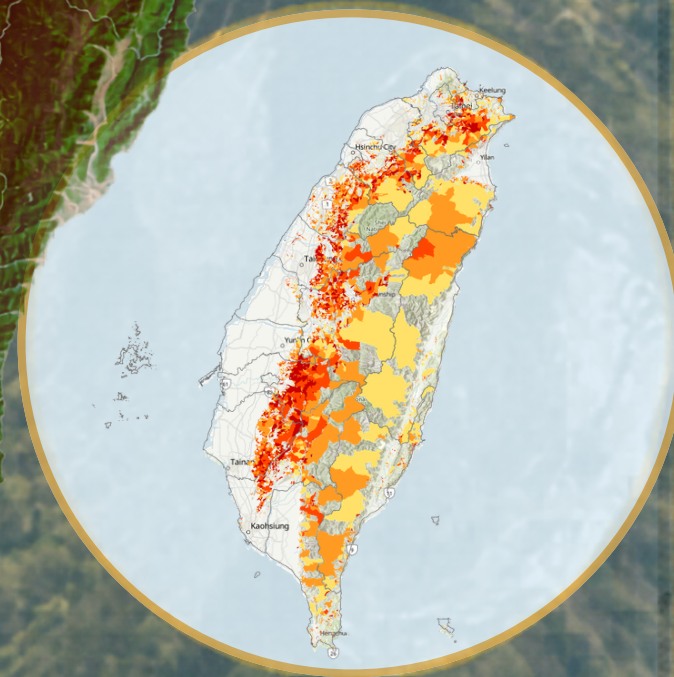
Extreme Precipitation:
translate climate projections into decision information



Landslide Risk: risk mapping using hazard, vulnerability, and exposure



Decision Support:
support risk management and adaptation planning



Operationalization in the Disaster Risk Platform



Dr. A is a web-based geospatial decision-support platform



Users can compare warming scenarios and explore landslide risk patterns



Spatial overlays with transportation networks and settlements support planning



The platform translates climate science into actionable information



The screenshot displays the 'Climate Change Disaster Risk Map Platform' interface. At the top, it shows the NCDR logo and the platform name. Below the header, there are navigation tabs for 'Risk Map (R)', 'Hazard level (H)', 'Vulnerability (V)', 'Hazard Vulnerability (HV)', and 'Exposure (E)'. The main map area shows a color-coded risk map of Taiwan, with a legend on the left for 'Overlay map data' including 'Slope Disaster Potential Map', 'Slope disaster potential', 'Debris flow potential stream', 'The potential impact range of debris flow streams', 'Large-scale collapse potential zone (113 AD)', 'The extent of the massive landslide (113 AD)', and 'KML layer'. A '3D Terrain View' inset shows a 3D perspective of the terrain. A 'Risk credibility' bar chart is also visible, showing the distribution of risk levels across five categories (等級1 to 等級5).

等級 (Risk Level)	樣本數量 (Sample Count)
等級1	5
等級2	15
等級3	70
等級4	20
等級5	10

Risk level ⓘ

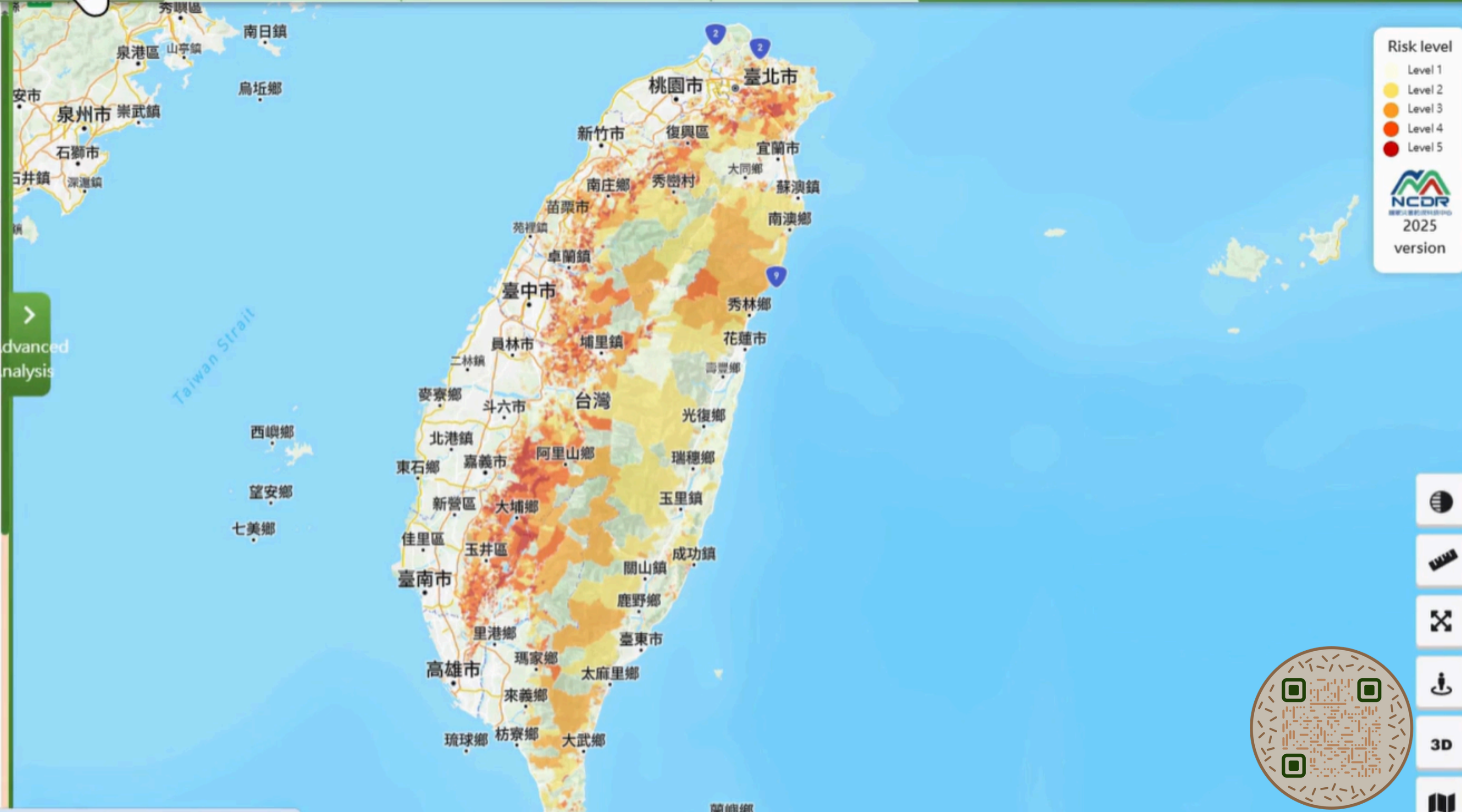
View the risk indicator levels of townships and urban areas

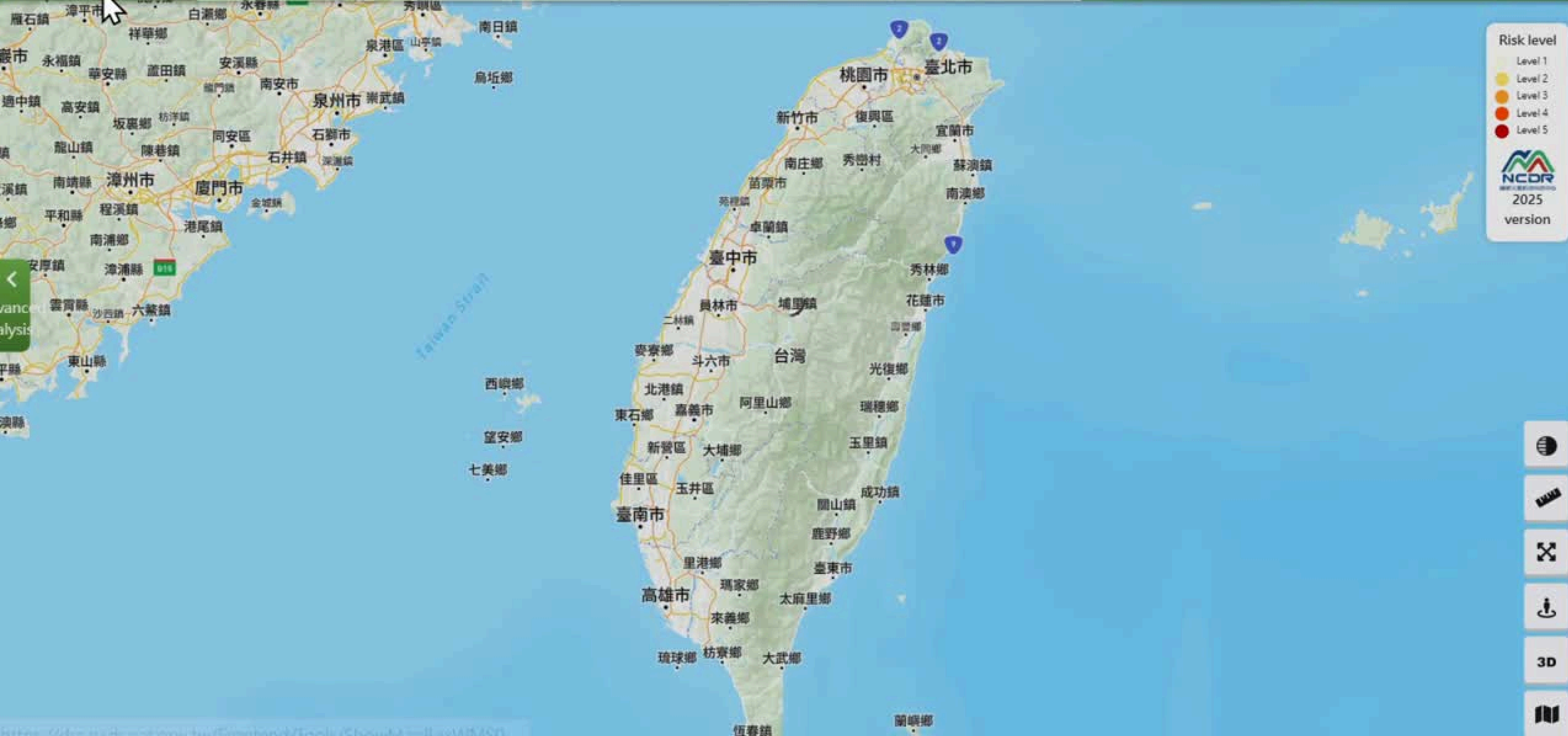
Overlay map data ⓘ

Slope Disaster Potential Map ▾

- Slope disaster potential
- Debris flow potential stream
- The potential impact range of debris flow streams
- Large-scale collapse potential zone (113 AD)
- The extent of the massive landslide (113 AD)
- KML layer

[Instructions for uploading image data](#)





Risk level
Level 1
Level 2
Level 3
Level 4
Level 5
NCDR
2025
version

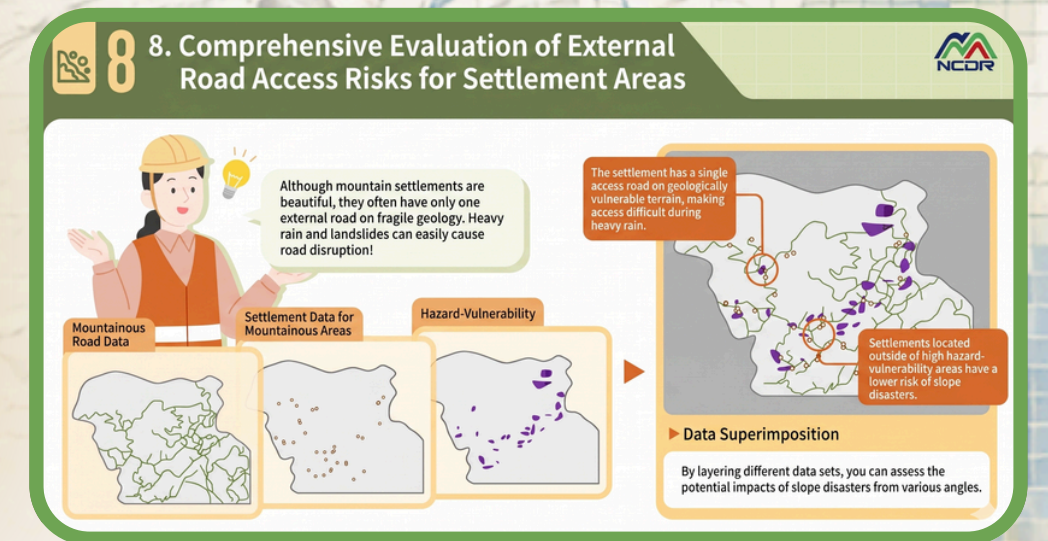
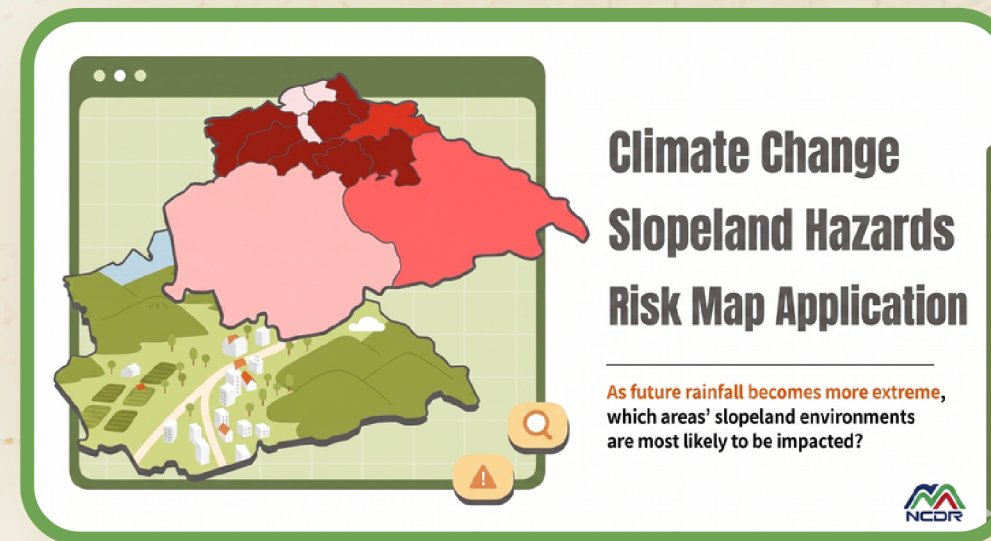
3D

Knowledge Transfer & Communication



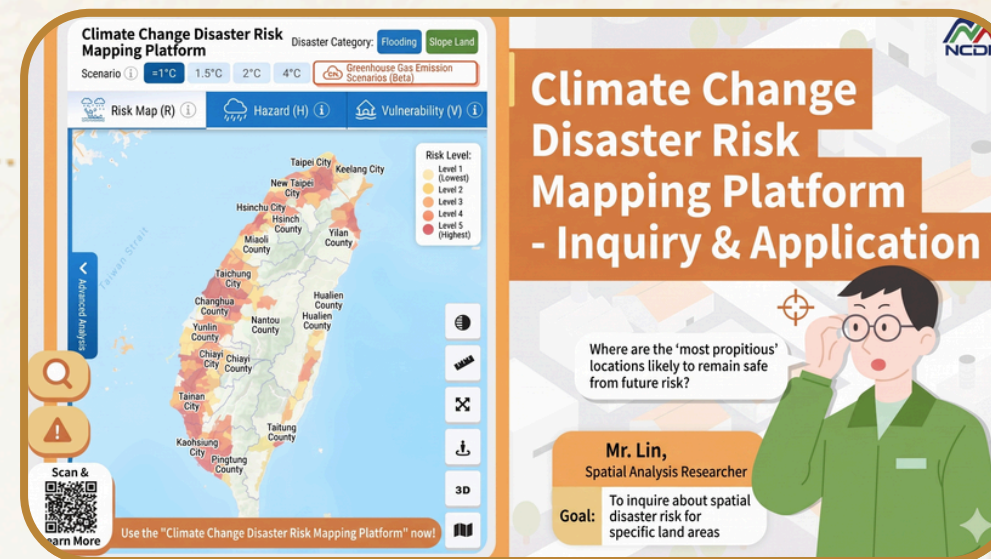
1. Simplified Infographics

Visual cards that break down the complex 'H-V-E' risk formula into easy-to-understand metrics.



2. Guided Video

Step-by-step modular introductions demonstrating how to overlay risk maps with local infrastructure



3. Accessibility

Lowering technical barriers to ensure officials and user can navigate scientific application and uncertainty