

Within the project: Evidence-Based Assessment of Early Warning Systems and Community Resilience to Strengthen National Disaster Risk Management in Armenia

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1 BACKGROUND



Community disaster risk management plans contain critical information on hazards, exposed populations, infrastructure, preparedness resources and response arrangements.

However, when this information remains in static documents and maps, practical use for spatial analysis, updating, preparedness and rapid decision-making is limited.

2 PROJECT CONTEXT



This work presents the digitalization component developed within a HEKS/EPER Armenia initiative supported by UNHCR.

The broader project aims to strengthen community preparedness and resilience through improved early warning systems, stakeholder coordination, climate adaptation and evidence-based risk assessment in Armenia.

3 OBJECTIVES



Transform community-level DRM plans into a structured interactive GIS environment



Integrate hazard, exposure, infrastructure and preparedness information



Support evidence-based early warning, preparedness and resilience building



Enable local authorities to access updateable risk information

4 METHODOLOGY



Document Review



Data Structuring



Digitization



GIS Integration



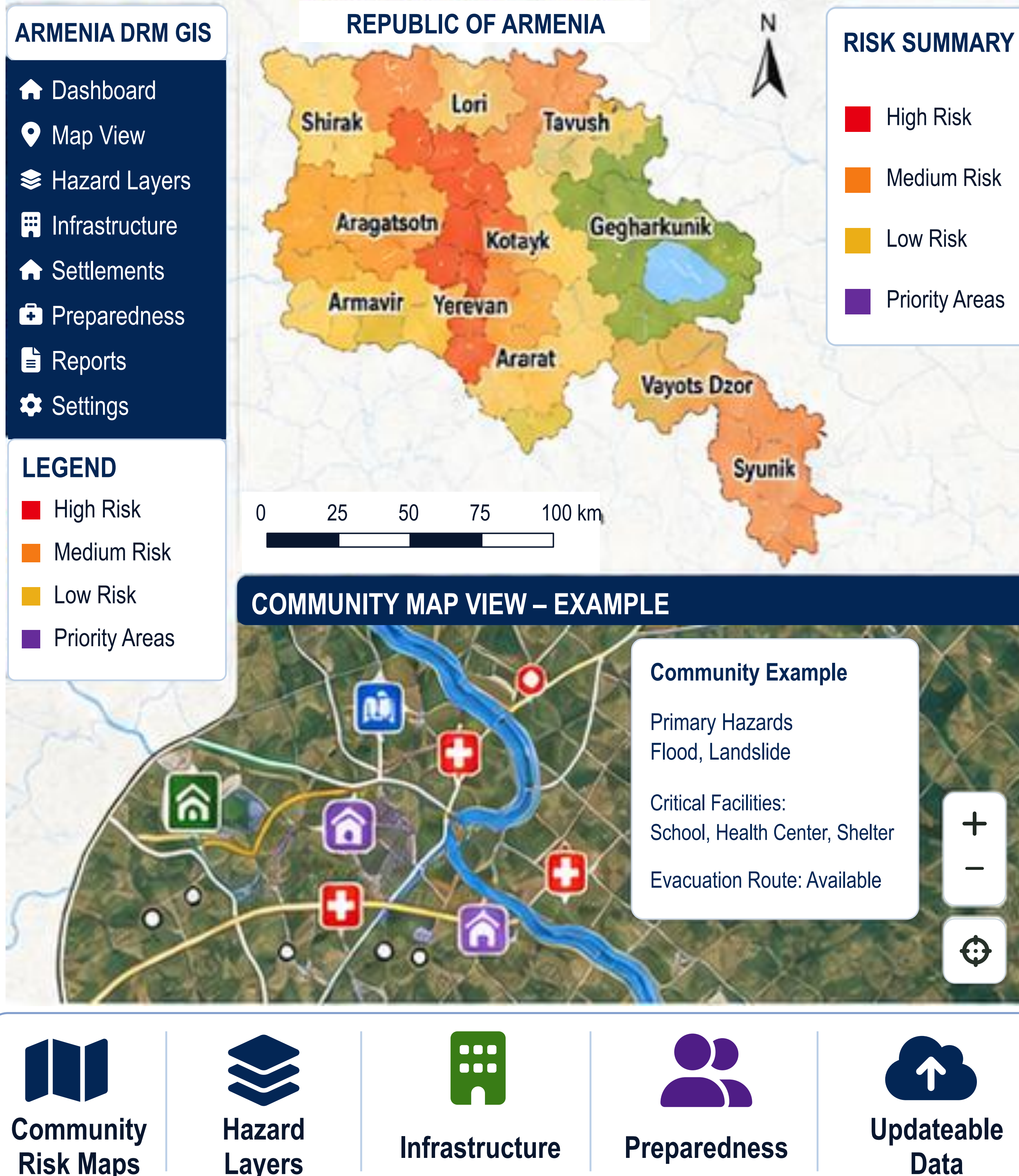
Interactive Mapping



Decision Support

- Review and organize existing DRM plans
- Digitize hazard and infrastructure information
- Integrate natural, climate-related and technological hazards
- Link settlements with risk layers and preparedness resources

6 INTERACTIVE GIS PLATFORM



5 KEY INFORMATION LAYERS



Multi-hazard data:
floods, landslides, mudflows, rockfalls, drought and other local hazards



Critical and social infrastructure:
schools, health facilities, shelters, evacuation-related objects



Emergency management resources and locally relevant risk elements



Climate adaptation and risk information for preparedness planning

7 KEY OUTPUTS



Digital multi-hazard community risk maps



Structured and updateable geospatial database

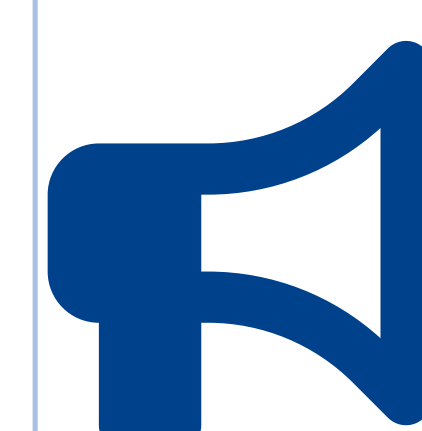


Improved accessibility of local DRM information



Support for early warning, preparedness and risk-reduction planning

8 MAIN MESSAGE



GIS, remote sensing and interactive mapping can transform static community DRM documentation into living, updateable and implementation-oriented risk information systems, strengthening evidence-based early warning, preparedness and community resilience in Armenia.

9 KEYWORDS

Disaster Risk Management

Disaster Risk Reduction

Early Warning Systems

Community Resilience

Climate Change

GIS

Remote Sensing

Interactive Mapping

Multi-Hazard Risk

Community DRM Plans

Climate Adaptation

Armenia