



UK Research and Innovation

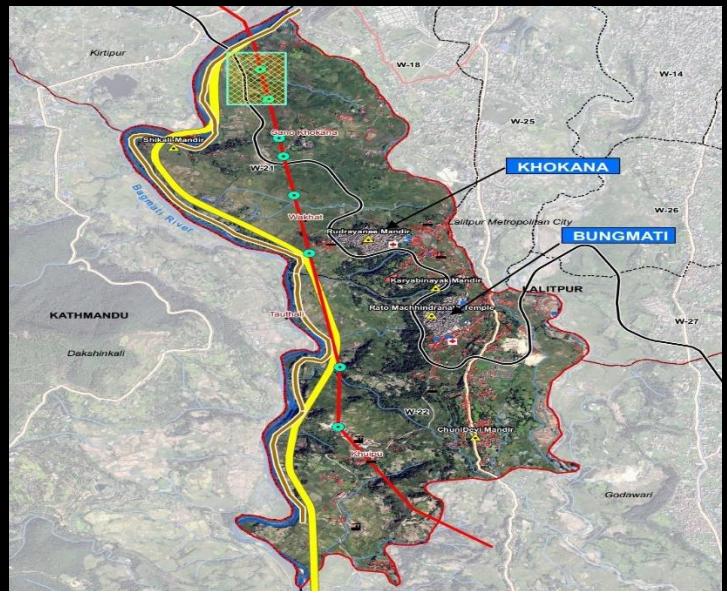


NSET Earthquake Safe Communities in Nepal

GCRF: Urban Disaster Risk Hub (Tomorrow's Cities) Program Highlights

Period : Feb 2019 to March 2022
Data Source @NSET | MEL
@Tomorrow's cities Program Team

Tomorrow's Cities is the UK Research and Innovation (UKRI) Global Challenges Research Fund (GCRF) Urban Disaster Risk Hub – a five-year global interdisciplinary research hub. Its aim is to catalyze a transition from crisis management to multi-hazard risk-informed planning and decision-making, for cities in low-and-middle income countries.



Key Stakeholders

Lalitpur metropolitan city , local ward office Khokana, Kathmandu valley development authority , Local ward level disaster risk management committee

Program Coverage Area
Kathmandu Valley

EXPECTED OUTCOMES

1. Develop a decision support environment enabling cities and their stakeholders to choose appropriate development plans for future cities based on agreed multi hazard risk scenarios.
2. High Resolution Multihazard Risk Maps (Seismic, Flood) of proposed satellite city development regions in Kathmandu valley.

PROGRAM HIGHLIGHTS

2020		2021		2022
<p>Convene diverse stakeholder groups around a new understanding of multi-hazard risk, stimulating engagement and innovation in making risk-sensitive development choices to meet the Sustainable Development Goals and Sendai Framework for DRR.</p>	<p>Coordination with Tribhuvan University on study of risks to the infrastructures like roads, bridges, power lines etc and their possible implication of urban planning for infrastructure of tomorrow's cities.</p>	<p>Development of fragility suite for structural typologies to be included in Tomorrowville, a model city that provides a basis to test various development options and their respective risk scenarios</p>	<p>Development of typical archetypes for RC residential buildings in Kathmandu and Research on fragility of buildings, typical of those present in the study region of Kathmandu.</p>	<p>Coordination with researchers from Nepal and UK based researchers on risk studies of tomorrow's populated communities within the targeted study region of Khokana with prospects of expanding it to other proposed parts of Kathmandu.</p>
<p>Heritage Walk at Patan heritage and residential sites with Principle Investigator Prof. John McCloskey and Co-Director of the Senior Management Team Mark Pelling – Feb 25, 2020.</p>	<p>Tomorrow's cities project launch – Feb 28, 2020.</p>	<p>Study of seismic behavior and damage of masonry infilled RC buildings through numerical modelling on state-of-the-art Applied Element Method based software.</p>	<p>Development of exposure scenarios on the basis of the KVDA development plans for the southern Lalitpur region</p>	<p>Development of Tomorrow's Cities Decision Support Environment that enables a collaboration of stakeholders to envision future urban visions/plans with agreed risk scenarios</p>
	<p>Tomorrow's leaders conference – June 22- June 25, 2020</p>			<p>Generate High Resolution Multihazard Risk Maps (Seismic, Flood) of proposed satellite city development regions in Kathmandu valley.</p>

■ 2020 ■ 2021 ■ 2022

PHOTOGRAPHS



Heritage Walk at Patan heritage and residential sites with Principle Investigator Prof. John McCloskey and Co-Director of the Senior Management Team Mark Pelling – Feb 25, 2020



Working group discussion at Khokana with community leaders and members – Feb 27, 2020



Project Launch



Detailed planning meeting on Earthquake Risk Work Package with University College London – Jan21, 2020



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