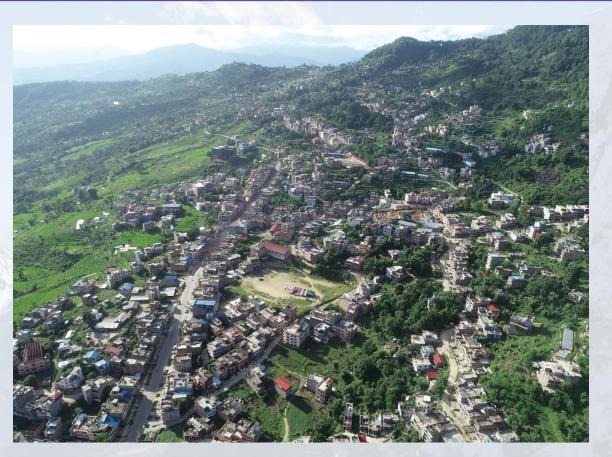


## Developing Criteria for Identifying Humanitarian Open Spaces for Disaster Preparedness in Rural Nepal

#### **Authors**

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Source: Naxa







## **Outline for presentation**

- Introduction
- > Objective
- > Methodology
- Findings
- Conclusions
- > Recommendations











Displaced families gather in an open field.

Source: Naxa

Earthquake in Kathmandu, Nepal, April 26, 2015.





















## **1.Introduction**

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- Open areas include parks, gardens, playgrounds, forests etc.(Saxena, 2016; Shukla & Chhabra, 2023; Woolley, 2003)
- Humanitarian open spaces are identified and mapped with the aim of strengthening emergency preparedness and to provide the initial response planning framework for the local governments and partner agencies.







#### Study and Initiatives taken by various organization for open spaces

preservation	Year	Organizations	Contributions
	2013	International Organization for Migration (IOM)	Detailed study identifying 83 open spaces in Kathmandu Valley.
	2020	United Nations Development Programme	Mapped available open spaces in Kathmandu, Lalitpur, Kirtipur, and Bhaktapur Municipality.
	2023 - 2024	Under the SIKAI project, supported by USAID's Bureau for Humanitarian Assistance, IOM	Mapped additional open spaces in Karnali and Sudurpaschim provinces.

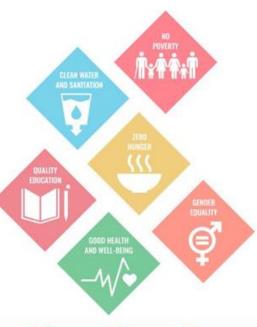
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### **Gaps Analysis of Open Spaces**

- 1. Existing research primary focuses on open space identification in developed countries.
- 2. Limited research in developing countries is mainly focused on urban, not rural areas.
- 3. Criteria for rural humanitarian open spaces remain unexplored in disaster-prone regions like Nepal.



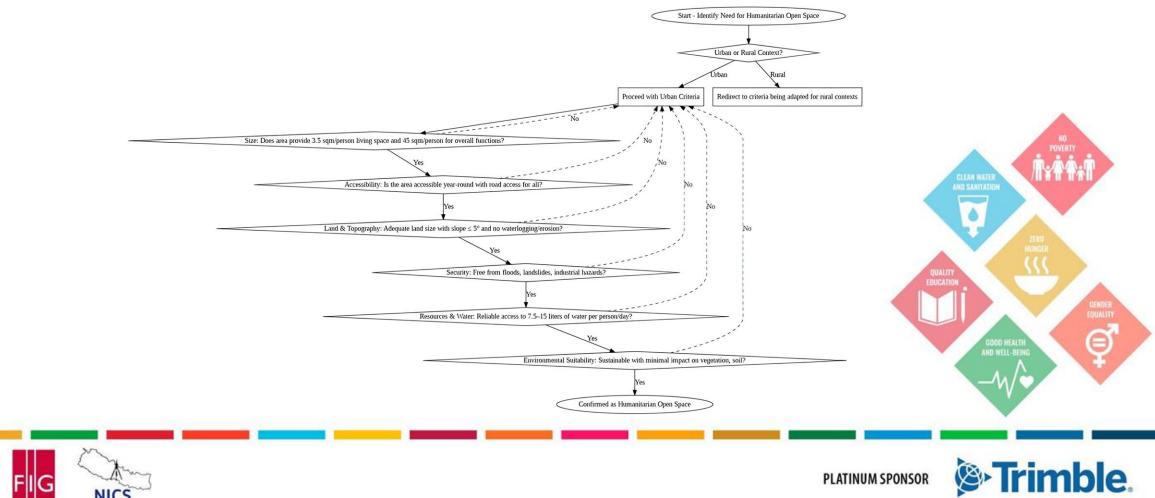
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#### **Criteria for Identification of Humanitarian Open Spaces in Urban Context**

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## 2. Objective

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To develop criteria for identifying humanitarian open spaces for disaster preparedness in rural Nepal.





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## 4. Findings

#### **Criteria for the Identification of Humanitarian Open Spaces in Rural Nepal**

S.N	Criteria	Testing List
1.	Land Ownership	Government and public owned open land
		Large Open Spaces > 1500 sq. m
2. Size of Land	Size of Land	Medium Sized Open Spaces 1000-1500 sq. m.
		Small Open Spaces 500-1000 sq. m



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#### **Criteria for the Identification of Humanitarian Open Spaces in Rural Nepal**

S.N	Criteria	Testing List	
3.	Topography, Soil and Land	The steepness of the land is up to 30 degrees	NO POVERTY CLEAN WAJER AND SANTATION
0.	Characteristics	Alluvial and very rocky soil	2180
4.	Access to infrastructure and Facilities	Access to the road network	QUALITY EDUCATION
		Any health or market facility nearby	GOOD HEALTH AND WELL-BEING

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#### **Criteria for the Identification of Humanitarian Open Spaces in Rural Nepal**

S.N	Criteria	Testing List
		Water and sanitation infrastructure
5.	5. Water and Sanitation	Internet facility
	Infrastructure	Access to electricity and Sewerage facility
		Adjacent to or near central areas of National Parks and Wildlife Reserves
6.	6. Environmental aspect	Exposure to air, water, noise, and land pollution
		A garbage dump nearby







#### **Criteria for the Identification of Humanitarian Open Spaces in Rural Nepal**

Risk of flooding	
Risk of Landslide	
7. Disaster risk aspect Risk of fire and wildfire	
Risk of Soil Erosion	
Police station or Nepali army security nea	arby
8.State of securityA large industrial area nearby or exposure	e to
Around high tension power transmission lines	



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#### **Criteria for the Identification of Humanitarian Open Spaces in Rural Nepal**

S.N	Criteria	Testing List
9.	Religious and cultural significance	A socio-culturally acceptable location for the immediate community
	10. Place specific and others	The land can be adjusted by cutting filling to the current condition and topography
10.		Able to design and construct temporary structures required for emergency assistance



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## 5. Limitations

- Existing literature may not reflect current realities deviating the accurate information while KII interviews are missing due to time limitations.
- Comparison with national standards to identify humanitarian open spaces. (developed under MoFAGA).
- Changes in land use, population, and environment, impacting the long-term suitability of identified open spaces.







## 6. Conclusions

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- □ This framework provides guidelines for identifying humanitarian open spaces for disaster preparedness in rural Nepal.
- Local governments and relevant stakeholders can improve disaster preparedness in rural Nepal.









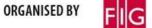
## 7. Recommendations

□ Regular monitoring is required to preserve these open spaces from land invasion.

- This is based on a literature review but ground & baseline surveys could enhance this criteria.
- Local governments should take ownership of these open spaces which could be used for early disaster preparedness.



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## Thank You !!!!



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