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INTERNATIONAL RESEARCH SYMPOSIUM

# Climate Change Adaptation in the Coastal Built Environment

19<sup>th</sup> - 20<sup>th</sup> June 2023  
Santander (Spain)

## Knowledge on climate change adaptation and the local environment; perspectives of local communities and local authorities

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Abstract ID: 30

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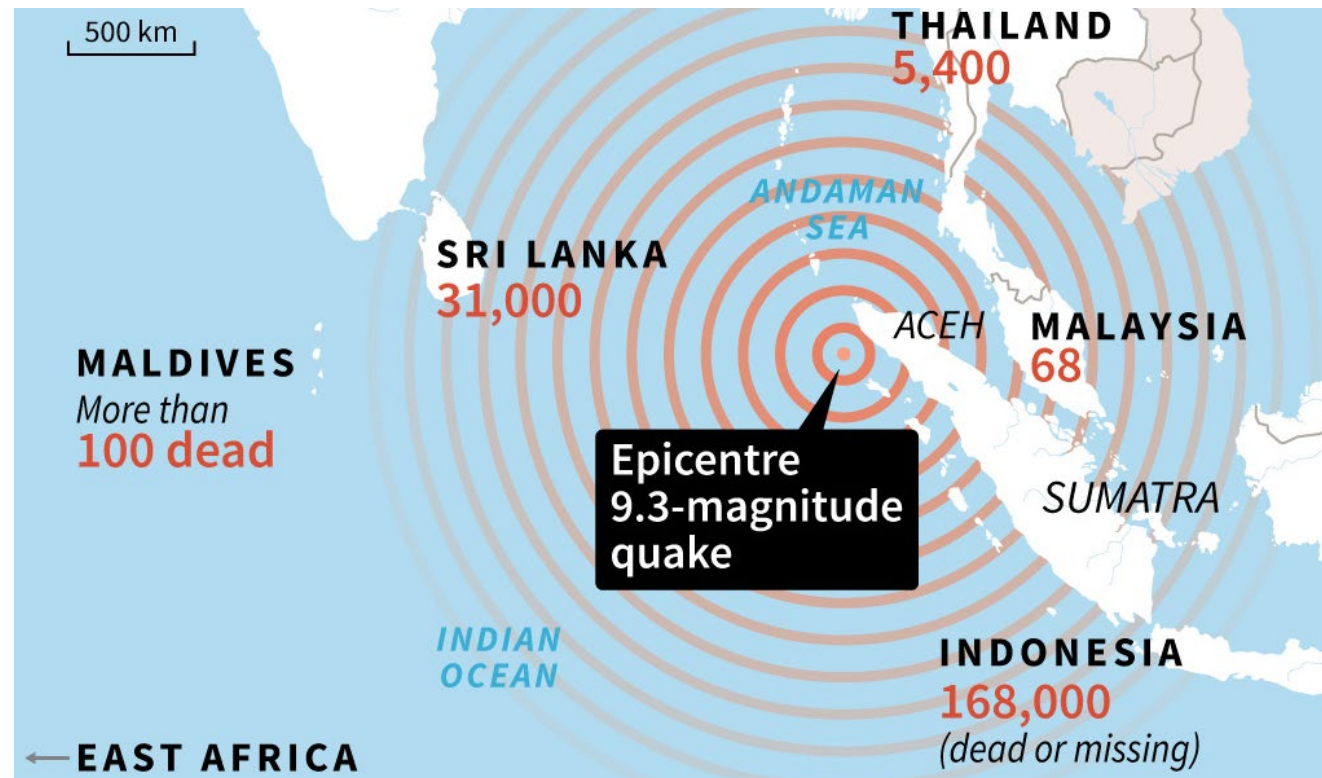
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# Introduction

“Knowledge itself is power”

(Sir Francis Bacon, 1597)



# Background and the Problem

**Background:** knowledgeable local communities and local authorities will have the power of influence on decision makers regarding the specific actions that should be taken on making their communities resilient.

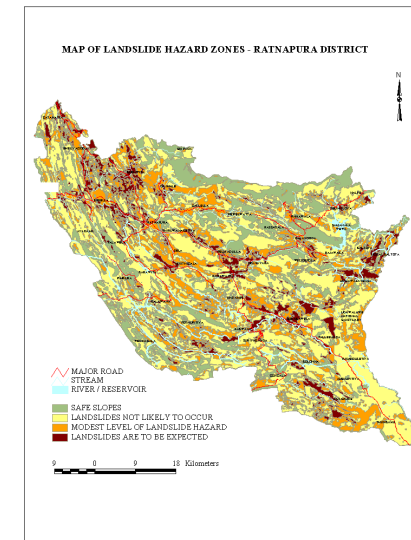
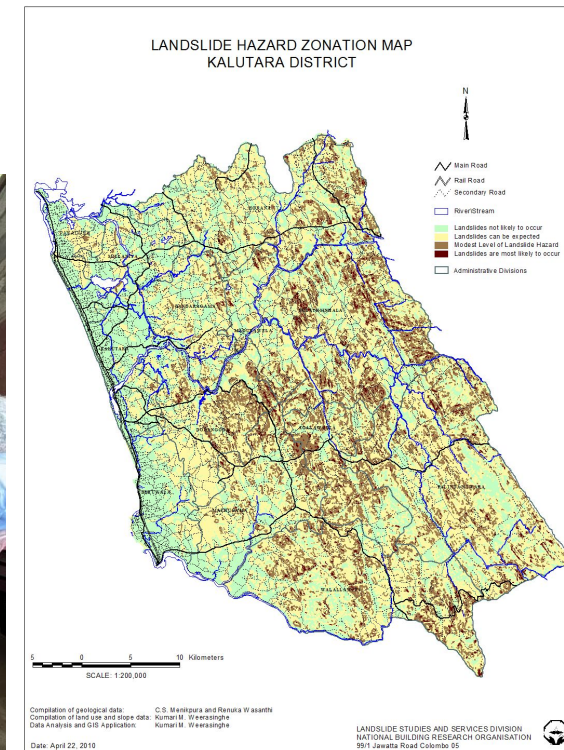
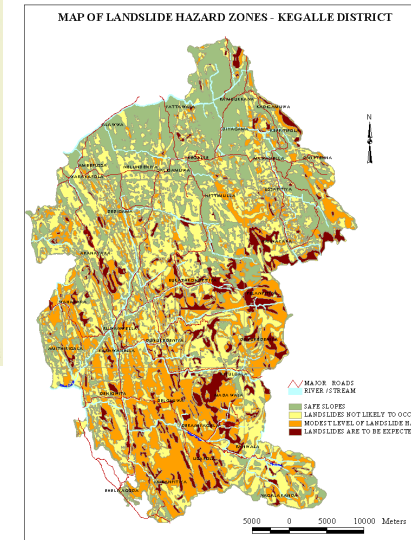
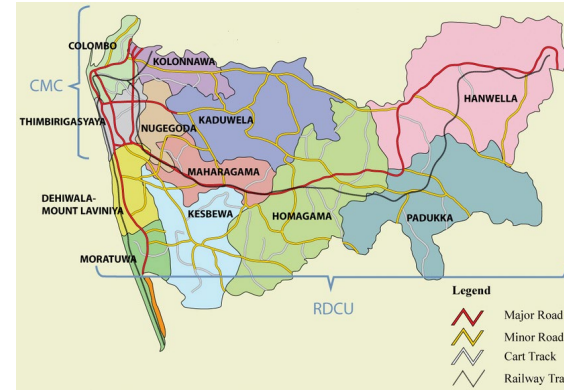
**Research Problem:** Lack of integration of community based knowledge into disaster risk reduction.

**Research Gap:** Lack of understanding of how important and significant the community-based knowledge is



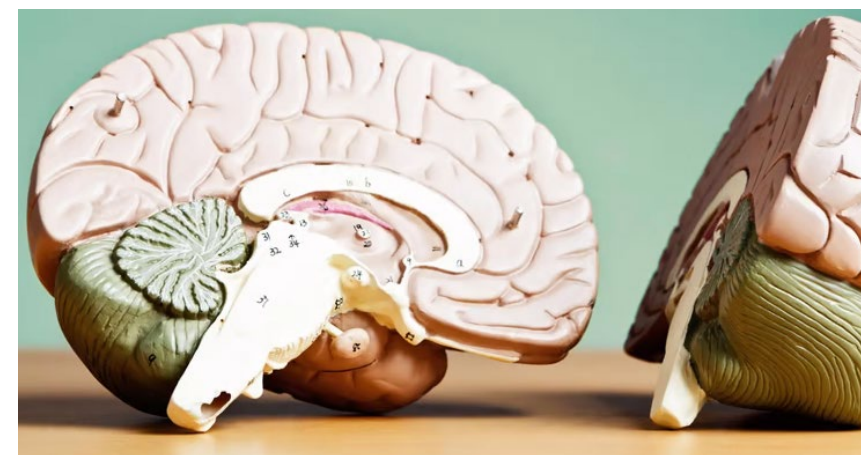
# Methodology

**Aim of the Research:** to explore the knowledge of local communities and local authorities on their local environment and its dynamic behaviour that can be adopted into disaster risk assessment.



# Results

There is a decay of knowledge on local environment among local communities that causes a lack of knowledge on dynamic behaviours of local environment due to climate change



# Results

Local communities are detaching from their local environment primarily due to

- Commercialization
- Lack of community engagement
- Over dependant on technologies
- Lack of environment education

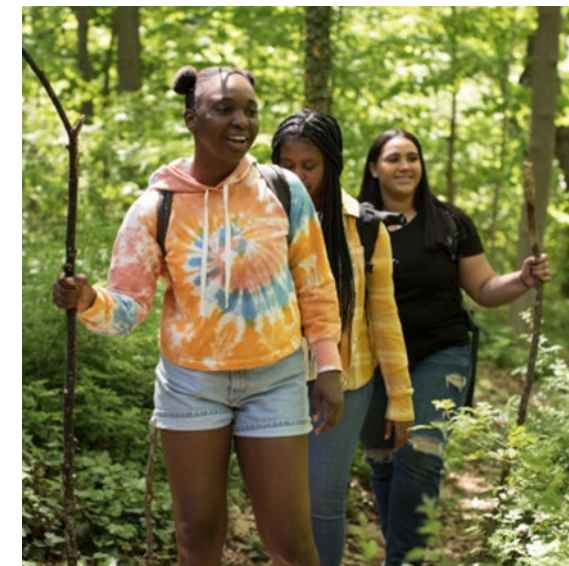




# Results

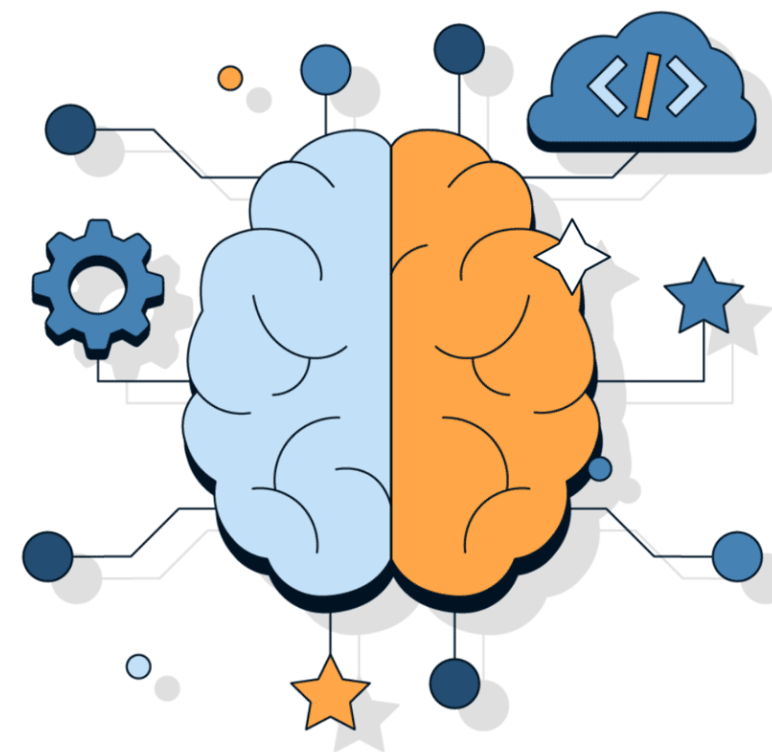
## What can we do

- Preservation of existing knowledge
- Enhancing the knowledge on local environment
- Create knowledge transfer platforms
- Connecting with nature (ex. Home gardening)
- Increase the interaction among scientific & local communities
- Environmental studies among education sector
- Community + nature-based approaches for development



# Conclusion

- Community based knowledge is important in understanding climate change adaptation methods that are specific to a micro environment
- However, detaching from environment has caused decaying of knowledge among local communities about their surrounding environment and how climate change impacts on its process
- Therefore, it is important to develop strategies to knowledge extraction, preservation, scientific validation and transition among local communities







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# Thank You

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