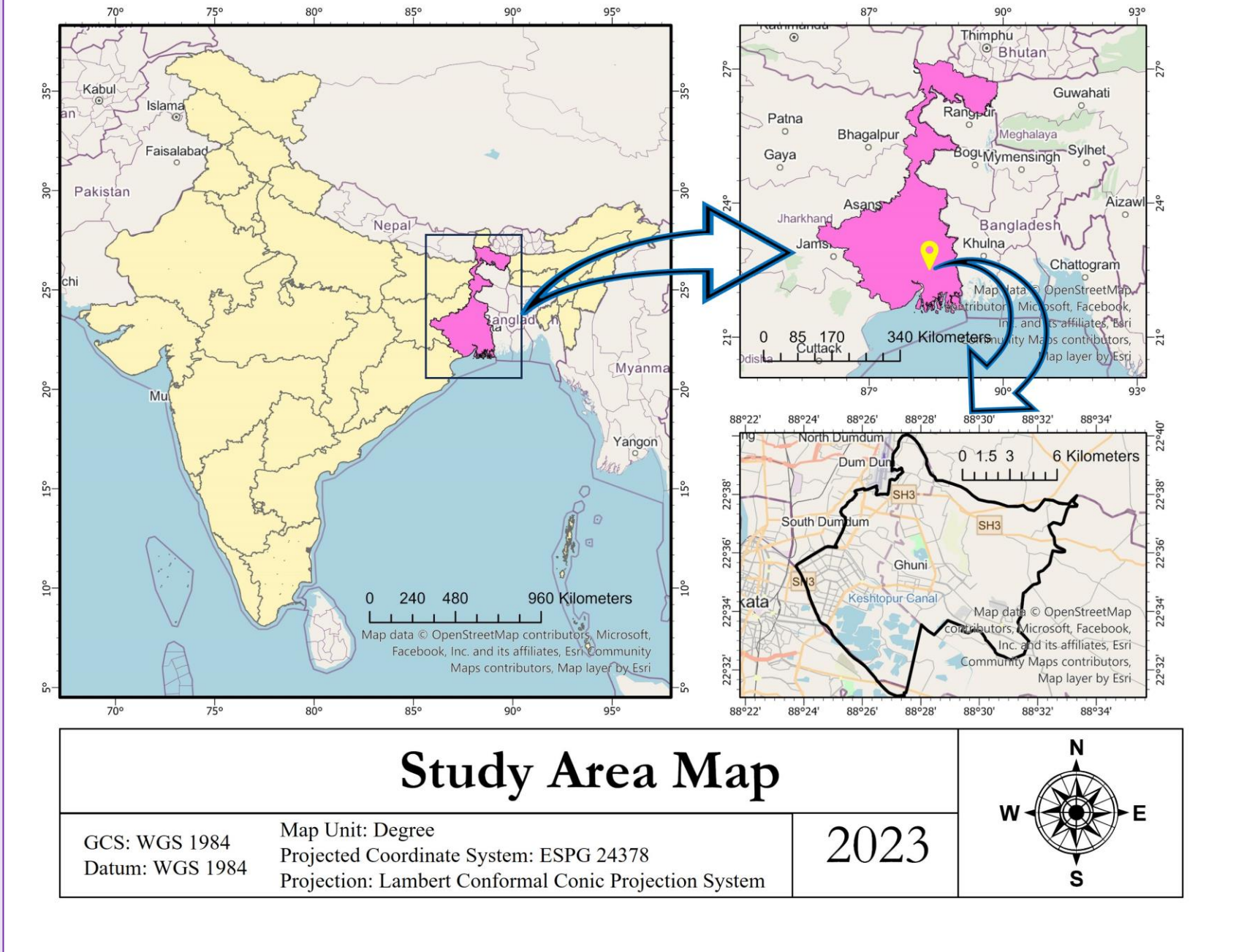


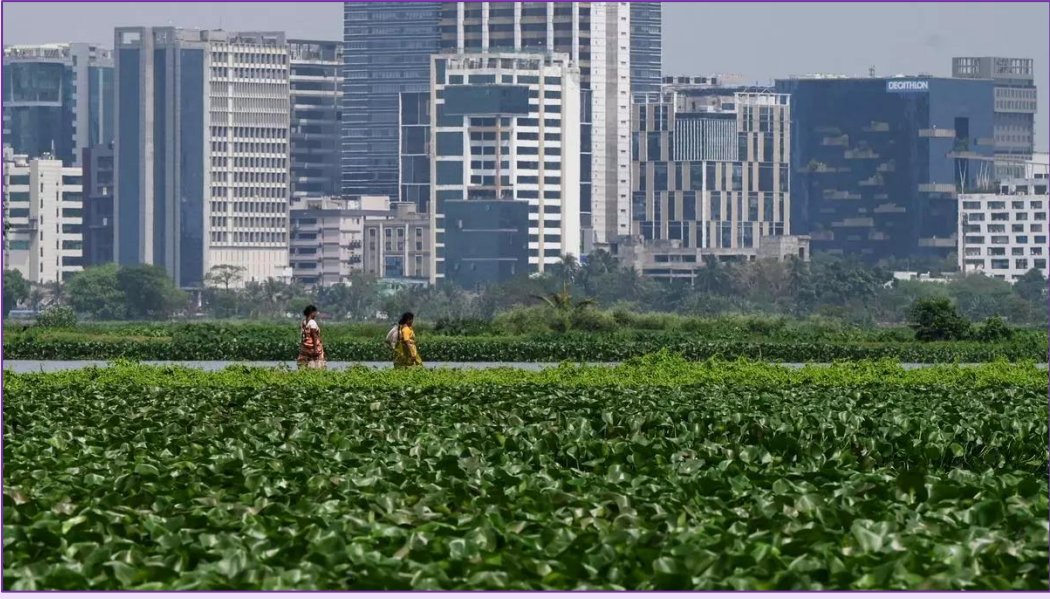
Harnessing Nature: Integrated Management For Urban Flood Mitigation Using Nature-based Solutions In East Kolkata Wetlands, India.



Location of the study area. Source: Author, 2023

1. Aim

This research aims to assess “the potential realization of” area-specific NbS to reduce the impacts of urban floods due to the depletion of wetlands in east Kolkata, incorporating the perspectives of stakeholders.



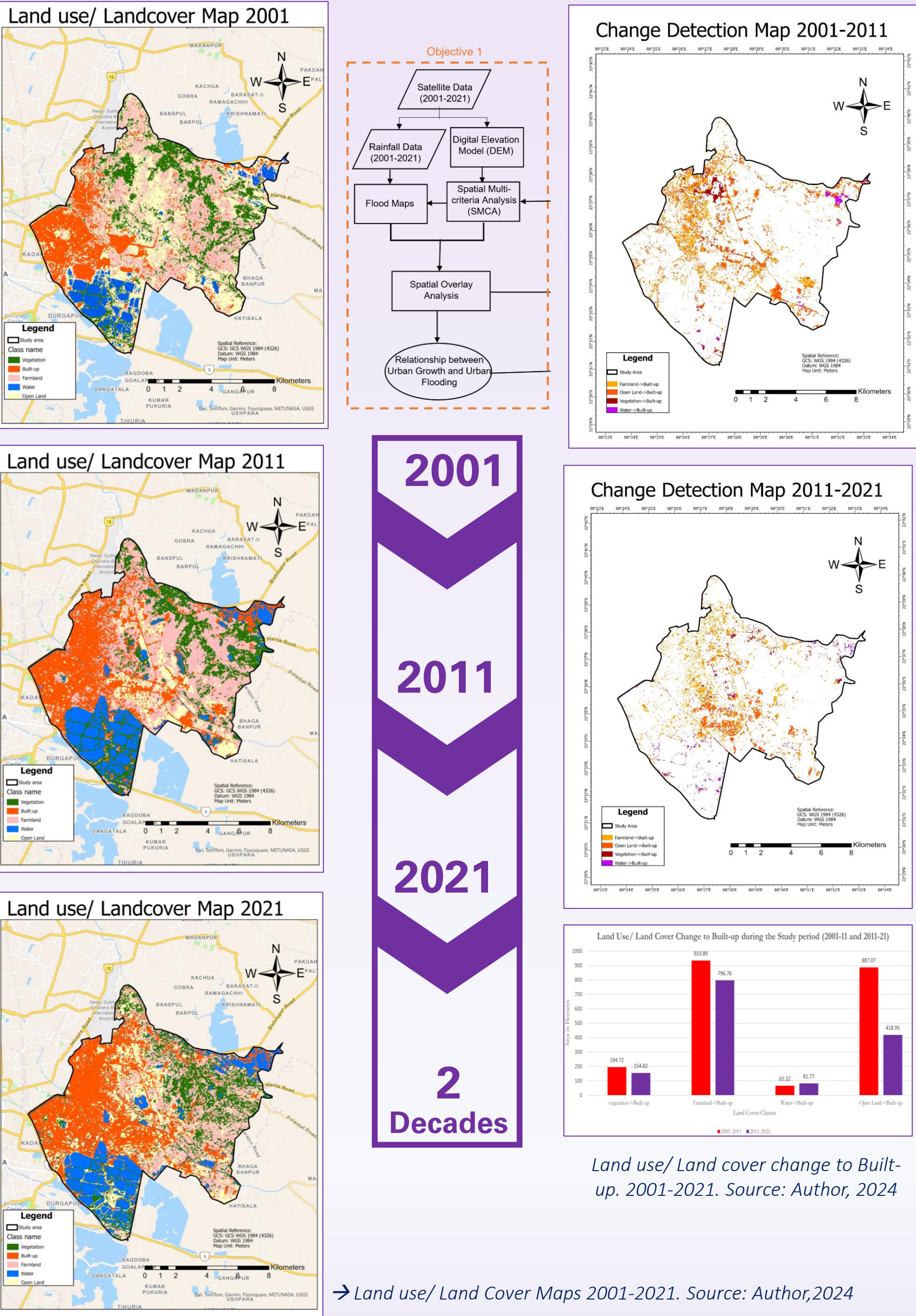
East Kolkata Wetlands, Salt Lake Sector-V. Source: Frontline- The Hindu, 2023



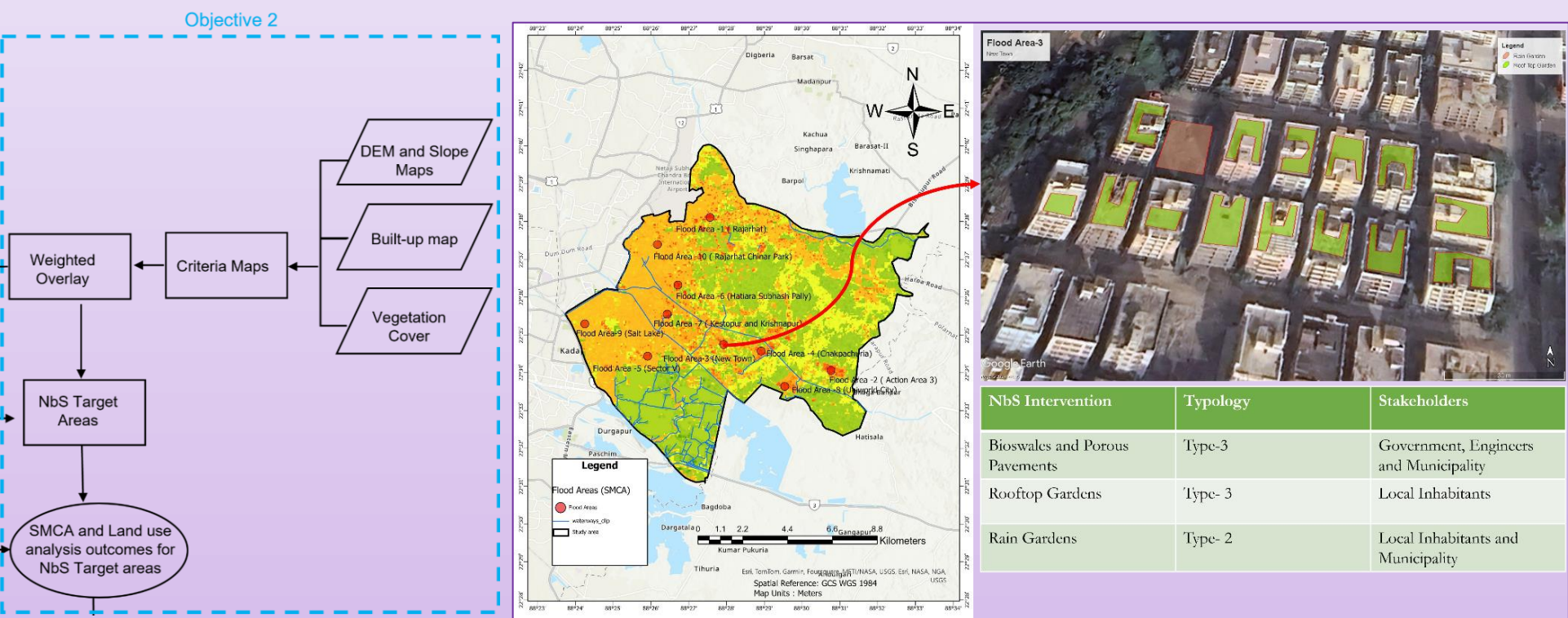
Waterlogging in Salt Lake, Kolkata. Source: The Telegraph, 2019

2. Results

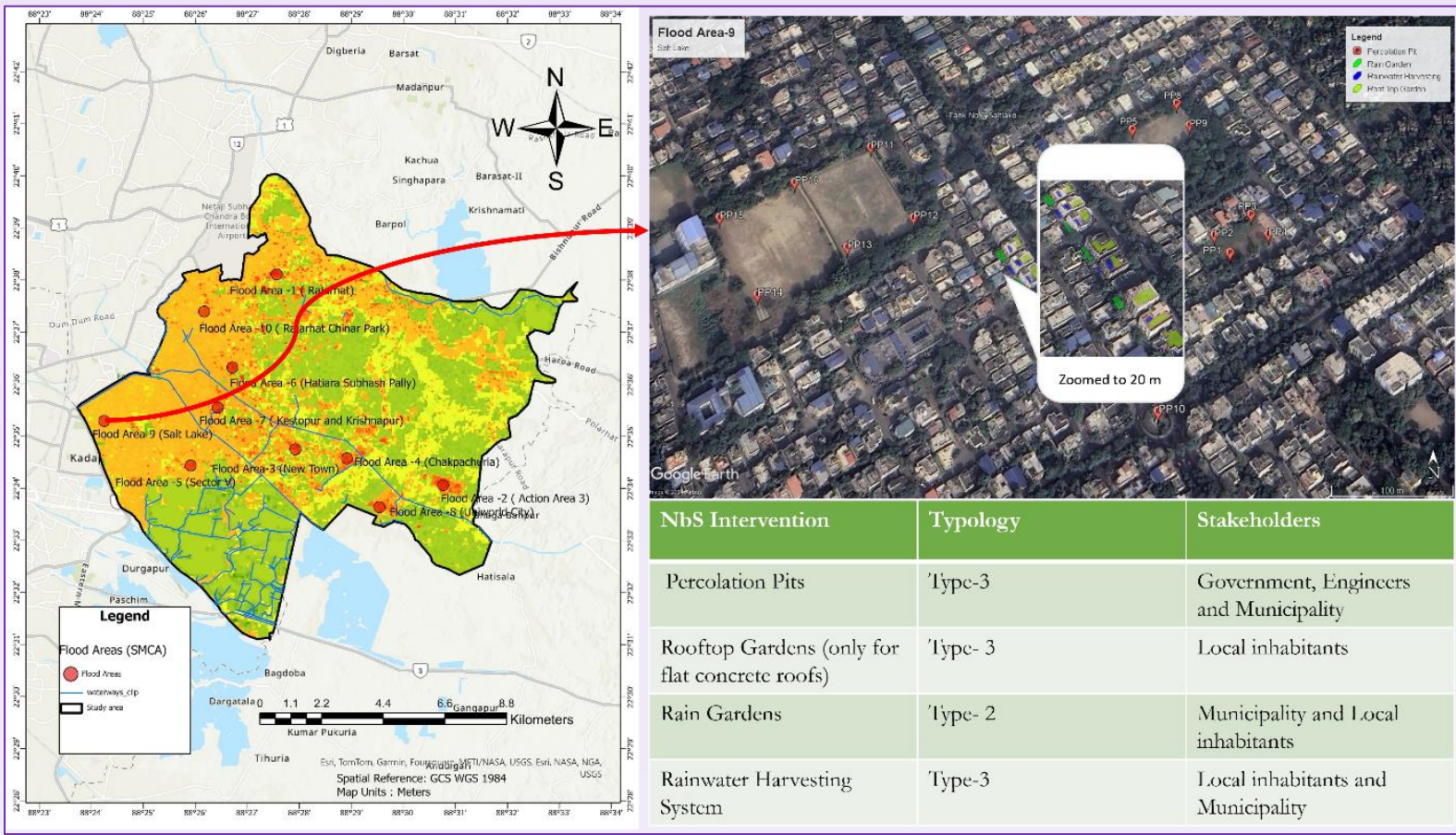
Objective 1: To Determine the relationship between urban expansion and urban flooding



Objective 2: To explore suitable NbS measures for the target areas based on their socio-physical characteristics



NbS interventions for Flood area-3. Source: Author, 2024

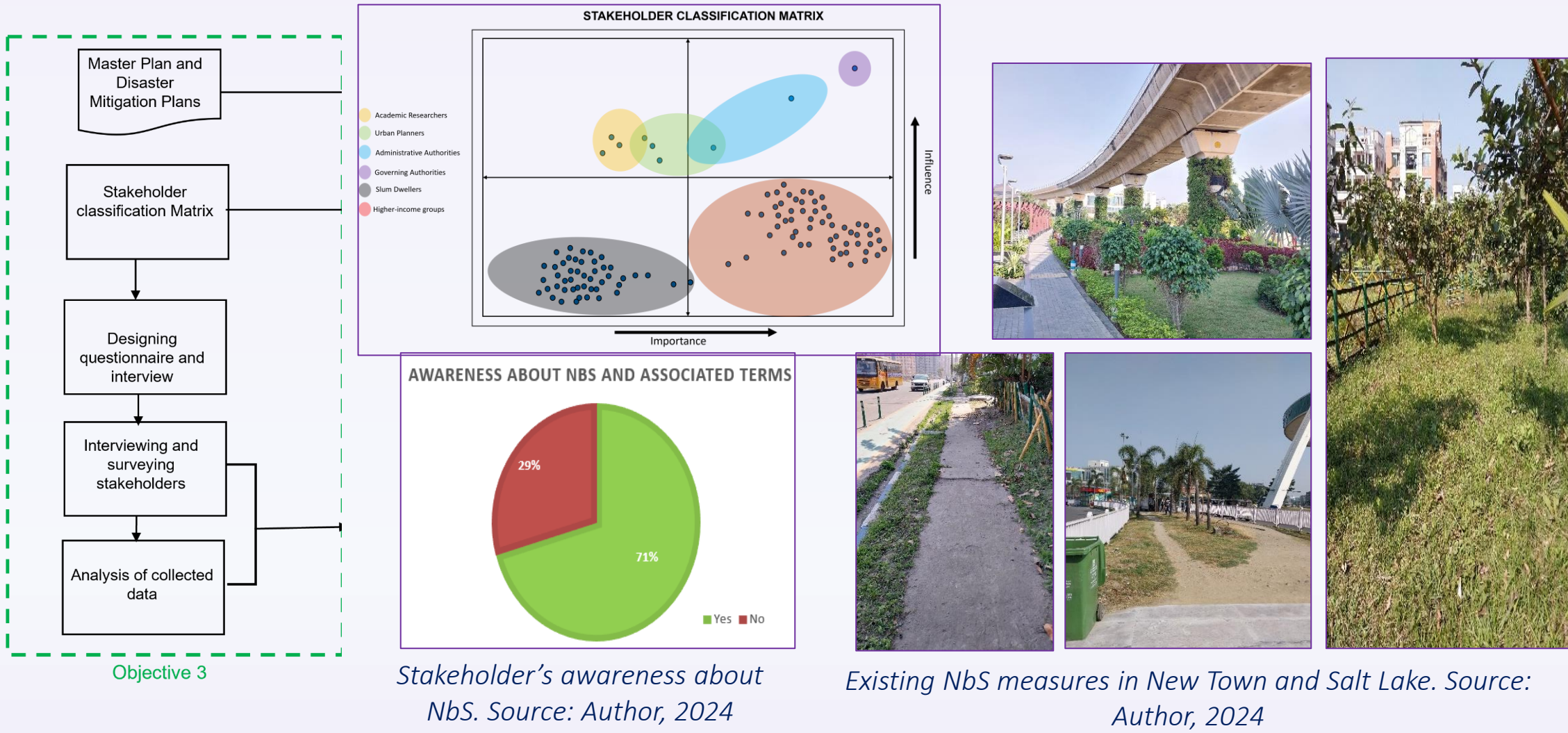


NbS interventions for Flood area-9. Source: Author, 2024



Photos from Flood area 9. Source: Author, 2024

Objective 3: To investigate the awareness of the stakeholders about NbS and their willingness to invest in it.



3. Conclusion

1. Increase in impervious surfaces is causing urban floods.
2. NbS measures for the flood-prone areas were suggested based on stakeholder inputs.
3. Stakeholders with higher socio-economic status had more awareness and willingness to invest on NbS.



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