



Expected Outcomes

- Decision-support tool for integrating EbA into urban planning
- Replicable methodology for climate risk–nature response mapping
- Enhanced institutional capacity for nature-based adaptation
- Improved understanding of spatial suitability for EbA in cities

Contact Us

Center for Study of Science, Technology & Policy
(CSTEP)

www.cstep.in | Phone No.: +91-8066902500

Project Lead

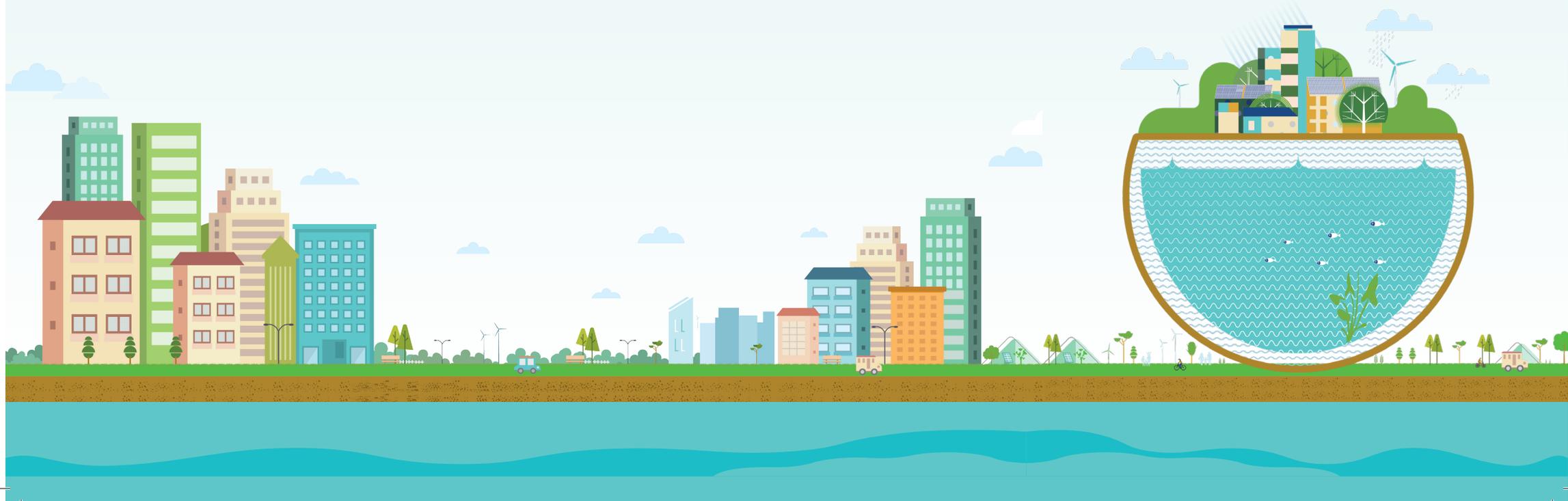
Dr Manish Kumar

Email: manish.kumar@cstep.in



Developing an Ecosystem-based Adaptation (EbA) Feasibility Tool (DEFT)

Mainstreaming
Interventions for Climate-Resilient
Indian Cities





Project Overview

The DEFT project aims to operationalise ecosystem-based adaptation (EbA) in urban planning through a scalable decision-support tool. Funded by the Global EbA Fund, DEFT tests how nature-based solutions can help cities adapt to climate risks such as floods, heat, and ecosystem degradation.

The project brings together spatial analysis, risk mapping, and community engagement to co-design adaptation pathways that prioritise both ecosystems and equity.



Key Objectives

Integrate EbA into local urban planning and decision-making



Identify urban flooding and heat hotspots for spatially viable zones for nature-based interventions

Enable urban practitioners to balance grey and green infrastructure



Build capacity across city institutions and civil society organisations



Key Activities

Blue-Green Systems Mapping



Map existing water bodies and green assets to identify gaps, fragmentation, and restoration opportunities

Climate Risk and Exposure Mapping



Identify climate hotspots using historical climate, land use, and flood data

Ecosystem Feasibility Analysis



Assess ecological characteristics to guide restoration or protection

Field Validation and Community Feedback



Co-validate with local residents, urban agencies, and experts

Tool Development



Develop a dashboard and visualisation toolkit to guide planners and agencies

