









Student Thesis Competition (STC) Season 5 on "Re-imagining Urban Rivers"

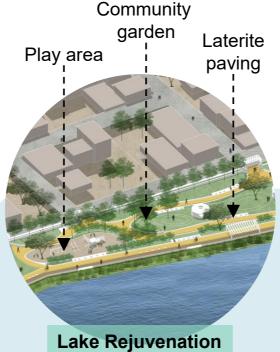
Urban River Management Strategies for Gurupura River in the Coastal City of Mangaluru Ananya K S Master of Planning (Environmental Planning)

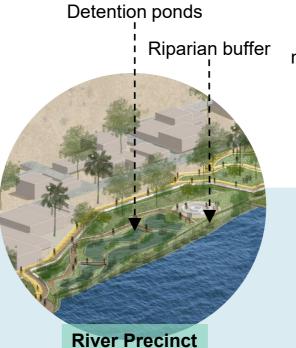
Coastal Regulation Zone Project brief Addresses pollution, flooding & ecological degradation in Mangaluru's coastal ecosystem Implements multi-scalar strategies, blends nature-based, regulatory, & infrastructure gaps Aims to restore river health & foster resilient, river centric urban development **Mangaluru Planning Area** Coastal Ecosystem of Gurupura River in Mangaluru **Dakshin Kannada** Area: 306 Sq.km District **2011**: 7,43,689 Estimated 2025: 9,39,341 **Planning Area** Avicennia Rhizophora Kandelia Sonneratia Bruguiera gymnorrhiza **Mangaluru Municipal Corporation** officinalis mucronata candel caseolaris Area: 132.45 Sq.km Clogged storm Baikampady Agriculture land water drains **Industrial Area 2011**: 4,99,487 Estimated **2025**: 6,43,852 nduse at A Inadequate Infrastructure **Arabian Sea** Flood Susceptibility Coastal flood effluent **Pollution** Flooding ... Sources Fluvial flood Untreated Flood Risk sewage Agriculture field run-off Pluvial flood **Urban River Resilience Framework Impacts** Loss of Mangrove loss & Fish livelihood destruction deaths



Analyzing floods & building resilience









Flood reduction & resilience-based strategies