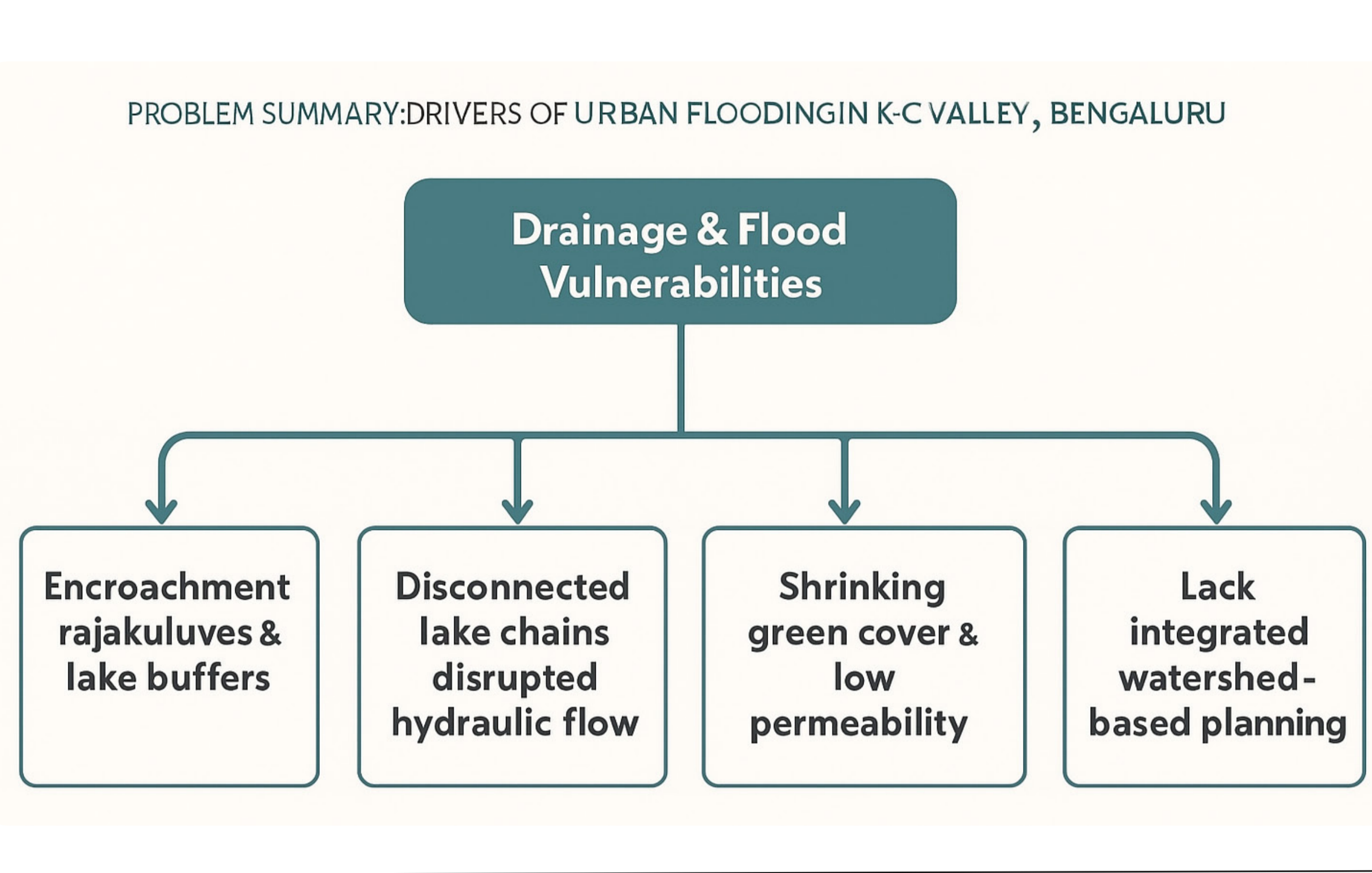


VISION, AIM & OBJECTIVES

VISION	"To create a flood-resilient and climate-adaptive K-C Valley through integrated blue-green network planning and ecologically responsive spatial development."
AIM	" To promote spatial development and climate resilient strategies to plan for blue-green network in Koramangala- challaghatta valley of Bengaluru city"
OBJECTIVES	<ul style="list-style-type: none"> To study the urban growth, spatial dynamics for urban floods in the K-C valley of Bengaluru city. To assess the driving factors of urban flooding in K-C valley in Bengaluru. To analyse various urban flooding issues on disruptions to natural drainage and it's connectivity. To propose planning strategies and recommendations for mitigating urban floods through Blue - Green network planning approach.

SUMMARIZED PROBLEM DIAGRAM



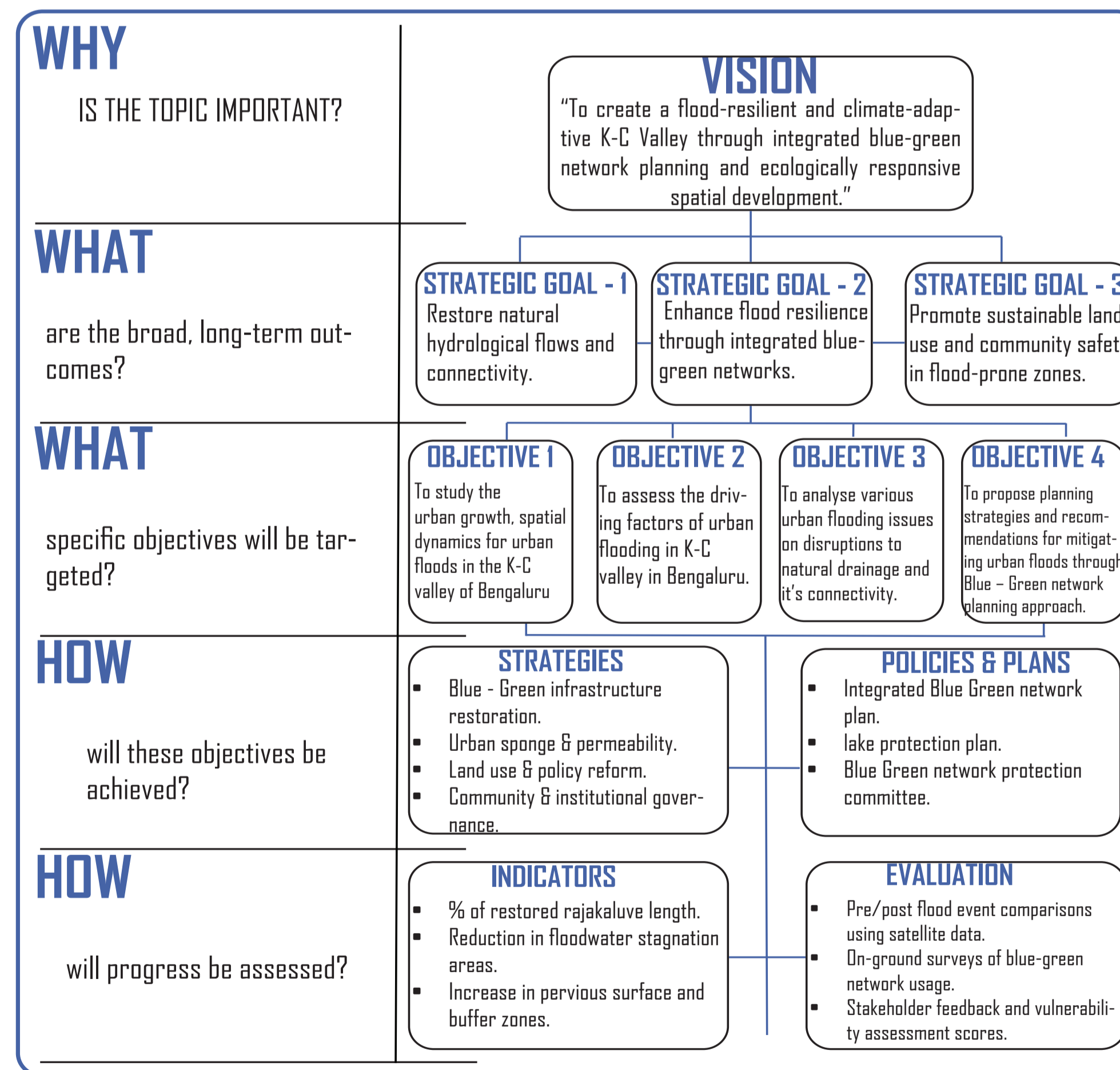
CASE STUDIES REFERRED

<p>Rotterdam Climate Adaptation Strategy, Netherlands</p> <ul style="list-style-type: none"> Local committees and public engagement in designing climate-resilient neighborhoods. Institutional framework ensures integration across city departments. 	<p>Mithi River Rejuvenation, Mumbai</p> <ul style="list-style-type: none"> Introduced pervious surfaces, tree trenches, and bioswales. Improved drainage and pedestrian experience.
<p>Singapore - ABC Waters Programme (Active, Beautiful, Clean)</p> <ul style="list-style-type: none"> Combined planning, hydrology, and landscape architecture for 100+ sites. Integrates drainage improvement with public recreation, ecology, and education. Residents help monitor and maintain facilities like rain gardens, retention ponds. 	<p>Wuhan Sponge City, China</p> <ul style="list-style-type: none"> Large-scale pilot with bioswales, green roofs, rain gardens, permeable pavements. Aim: absorb 70% of rainfall through natural infiltration.
<p>T-Nagar Smart Street Project, Chennai</p> <ul style="list-style-type: none"> Introduced pervious surfaces, tree trenches, and bioswales. Improved drainage and pedestrian experience. 	<p>East Kolkata Wetlands Management</p> <ul style="list-style-type: none"> Community and NGO-led governance of Ramsar site. Combines traditional fishery practices with flood buffering.
<p>Portland (USA) Green Infrastructure Zoning Code</p> <ul style="list-style-type: none"> Integrated green infrastructure requirements into zoning codes. Promoted LID (Low Impact Development) and water-sensitive planning. 	<p>Cheonggyecheon Stream Restoration, Seoul, South Korea</p> <ul style="list-style-type: none"> Covered urban stream uncovered and restored to create an ecological and flood buffer corridor. Led to improved microclimate and reduced flood risk.

FOUR PILLARS OF PROPOSALS

<p>BLUE-GREEN INFRASTRUCTURE RESTORATION</p> <p>Rejuvenated lakes/ponds Wetlands with biodiversity Riparian greenways</p>	<p>URBAN SPONGE & PERMEABILITY</p> <p>Porous pavements Tree pits and rain gardens</p>	<p>LAND USE & POLICY REFORM</p> <p>Development control near drains Incentives for rainwater harvesting</p>	<p>COMMUNITY & INSTITUTIONAL GOVERNANCE</p> <p>Ward-level disaster committees IEC campaigns on waste and water Community monitoring of drains</p>
--	--	---	--

STRATEGIC FRAMEWORK



MITIGATING URBAN FLOODS : A PLANNING STUDY ON CONNECTING BLUE-GREEN NETWORK IN KORAMANGALLA - CHALLAGHATTA VALLEY IN BENGALURU CITY

SCHOOL OF PLANNING AND ARCHITECTURE

NAME: P.A.CHARAN

REV / EXAM NO: U01ZZ21S0029

CLASS:8 th SEMESTER, B.PLANNING

DRAWING NO: 11