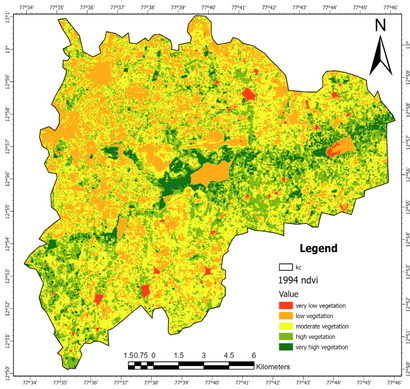
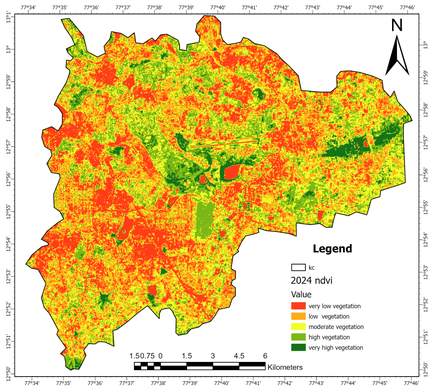
NDVI AND NDWI MAPS

Normalized Difference Vegetation Index

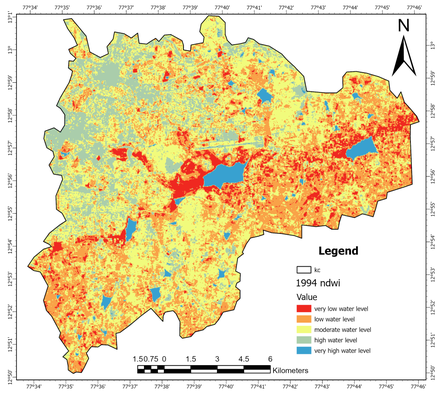


1994

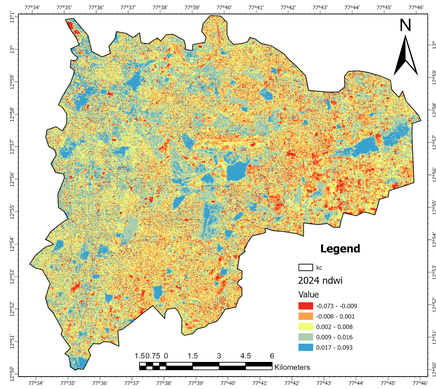


2024

Normalized Difference Water Index

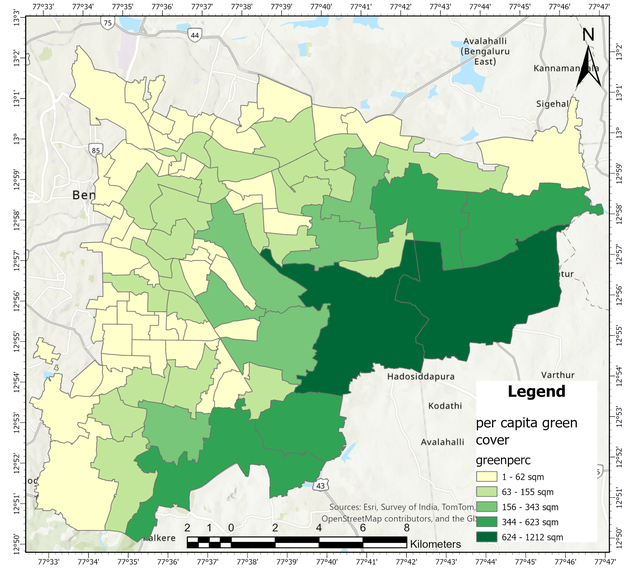


1994



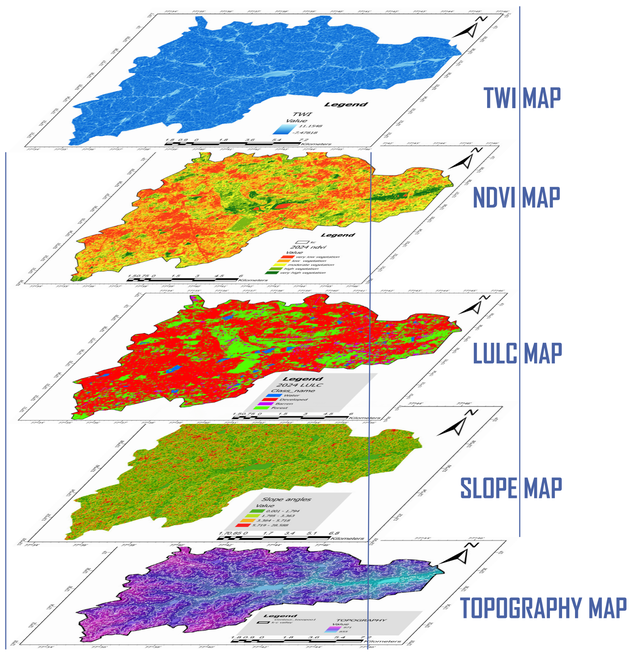
2024

PER CAPITA GREEN SPACE

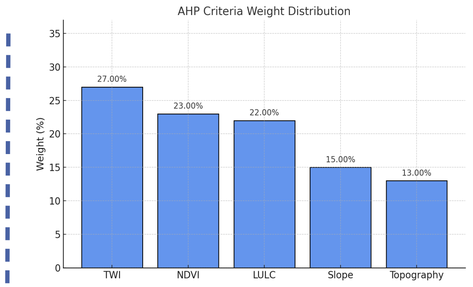


ANALYTICAL HIERARCHCY PROCESS

ANALYSIS INPUTS

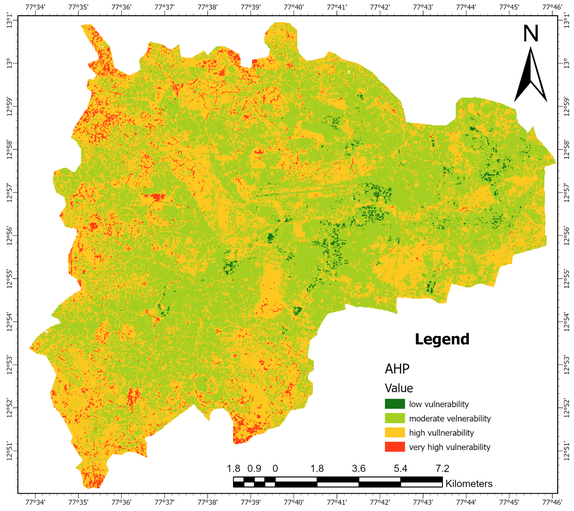


MATRIX ANALYSIS



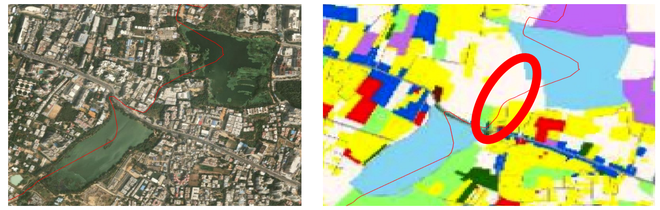
MATRIX						Normalized Principal Eigenvector (Weights)
	TWI	**NDVI**	**LULC**	**Slope**	**Topo**	
TWI	1	1.17	1.23	1.8	2.08	0.270 (27.0%)
NDVI	0.85	1	1.05	1.53	1.79	0.230 (23.0%)
LULC	0.81	0.95	1	1.46	1.72	0.220 (22.0%)
Slope	0.56	0.65	0.68	1	1.15	0.150 (15.0%)
Topography	0.48	0.56	0.58	0.87	1	0.130 (13.0%)

OUTPUT

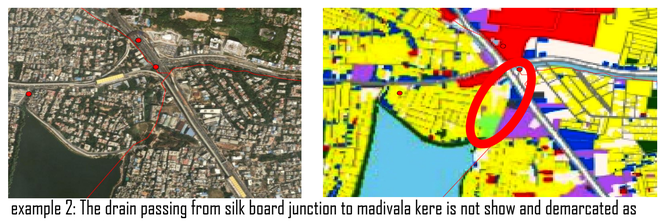


AHP analysis is a type of multi-criteria anlysis used to analyse various input factors, calculate its matrix weights and analyse the output. this ahp analysis for urban flooding including mainly five inputs, TWI (Topographic wetness index), NDVI (normalized difference vegetation index), lulc (land use land cover) , slope and topographgy og the study area. using these inputs a matrix is created to caculate the weigtages for different inputs and after the cacullation , a weighted overlay analysis is conducted. the genereated output infers the study ara in four zones based of vulnerability (low, moderate and high). this zones will help us understand the most vulnerable zones due to urban flooding in the

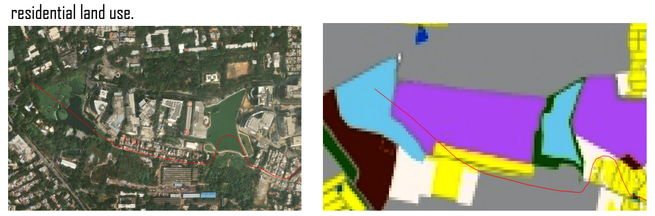
INCORRECT ZONING IN KC VALLEY



example I: primary drain between two lakes shown as residential zones and the marking of the drain is abscent.



example 2: The drain passing from silk board junction to madivala kere is not show and demarcated as residential land use.



example 3: primary drain between two lakes shown as residential zones and the marking of the drain is abscent.

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

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