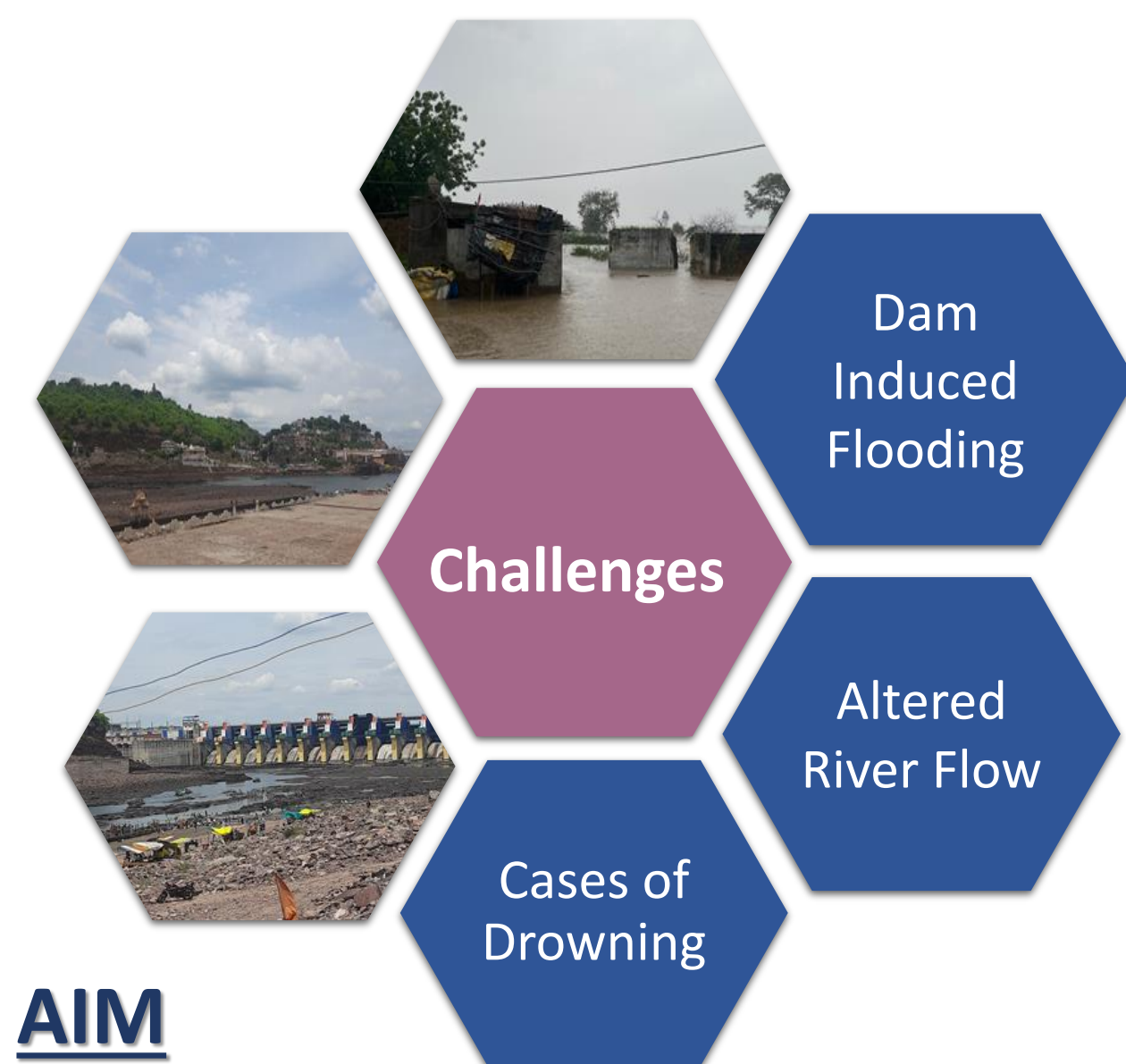
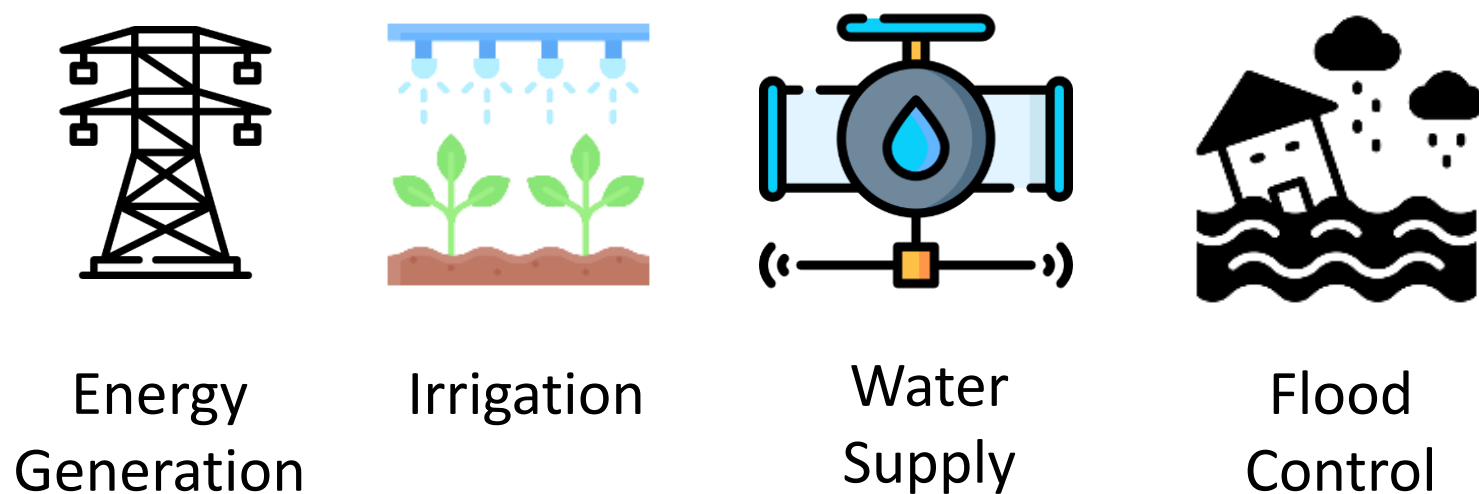


Sponsored Thesis Project Competition on "Re-imagining Urban Rivers"

Assessing Socio-Spatial Impacts of Dam Operation on Downstream Areas: A Case of Omkareshwar Dam

Student Name: Aastha Bhamoriya
Course Discipline: B. Planning

Functions of Multi-Purpose Dam



AIM

To provide mitigation measures for the negative impacts of dam operations in downstream areas

To study river dam and rainfall pattern.

1

To understand zoning regulation and landuse at the downstream areas of Omkareshwar Dam.

2

Assess socio-spatial impacts on Downstream areas

3

Develop tailored solutions addressing social, spatial & rainfall-related challenges in downstream dam operations

4

Study Area

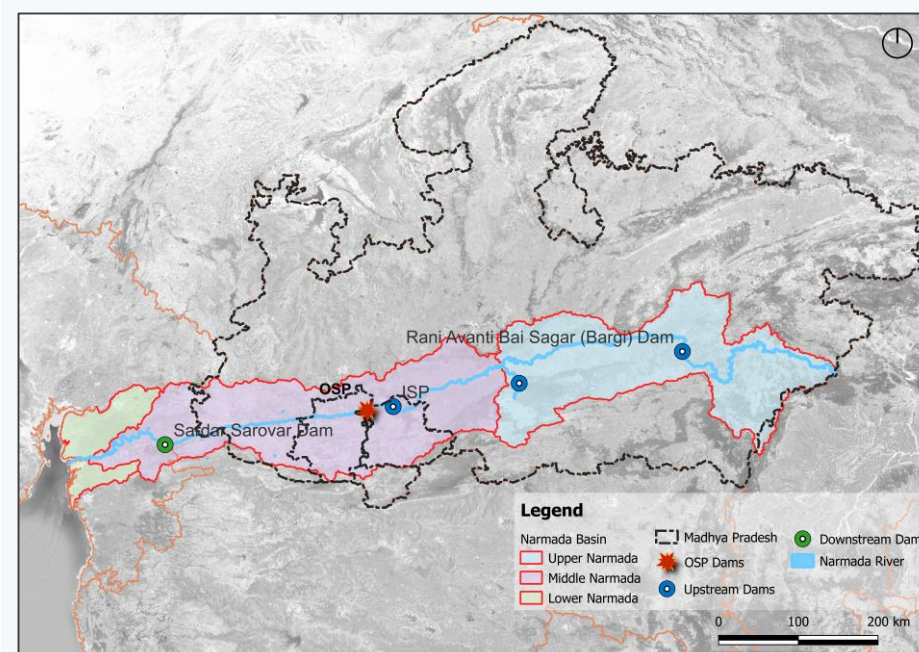


Fig.: Narmada Basin & Major Dams

Location:
State - M.P.
District - Khandwa
Population: 35000

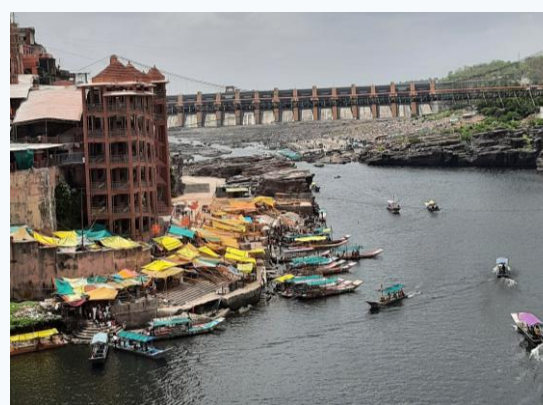
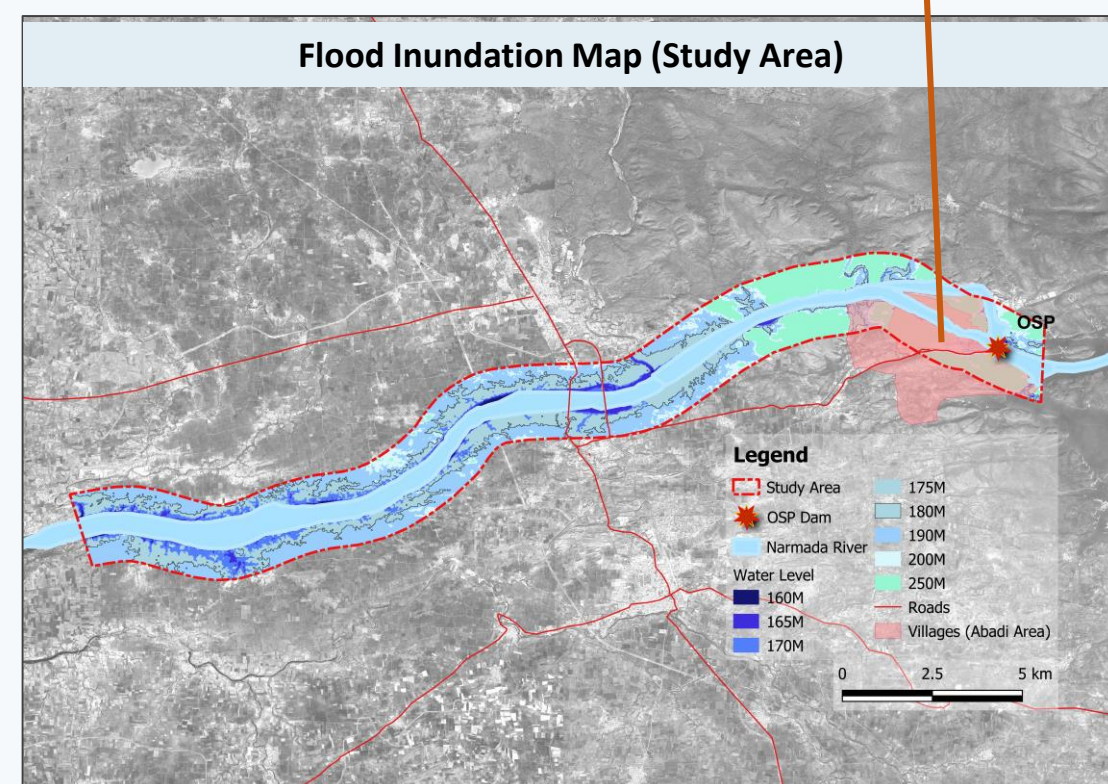


Fig.: Multipurpose Dam on the edge of major pilgrimage town

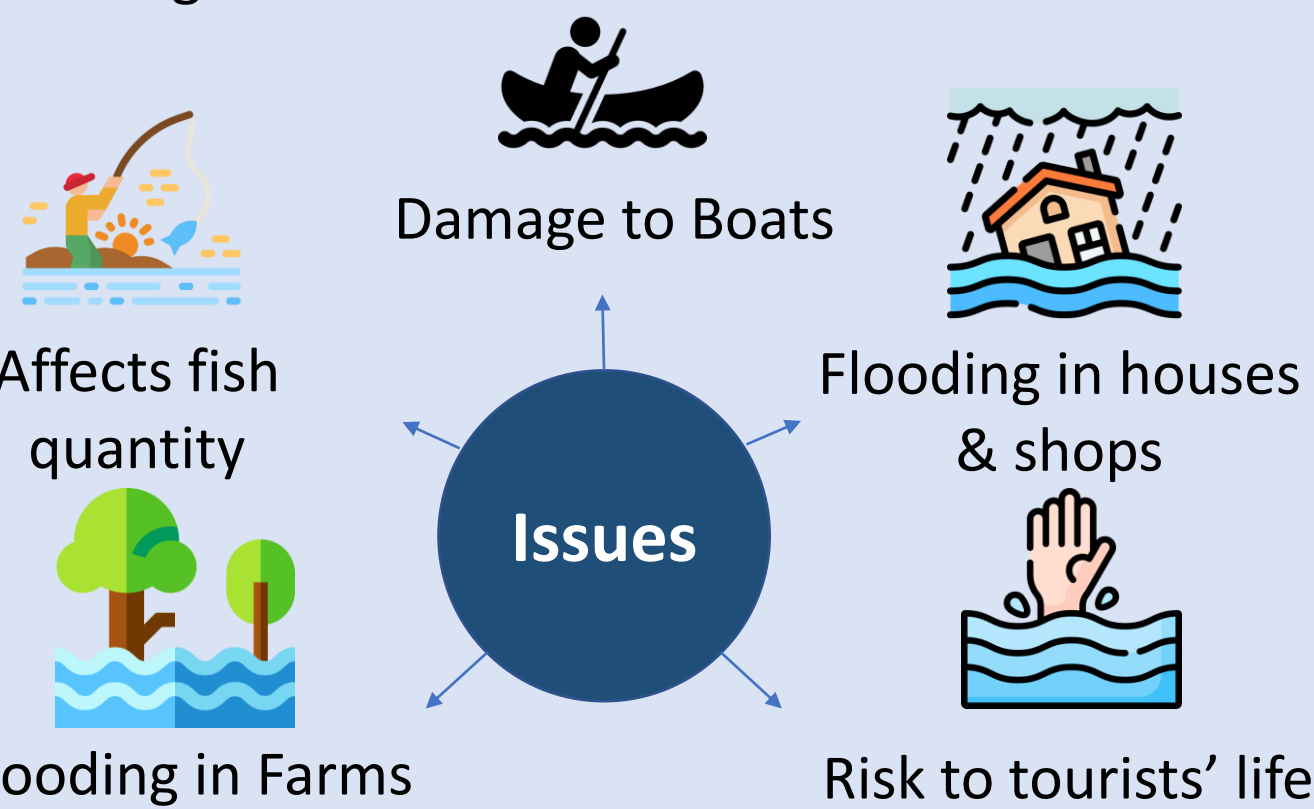


Omkareshwar

Flood Inundation Map (Study Area)



- No flood management regulations in Omkareshwar & villages in the downstream.



PROPOSAL/STRATEGIES



1. Maintaining Environmental flow in river

2. Mass Alert System



3. Crop Diversification

4. Regulation of Dam Water Discharge



5. Installation of Warning Signage



6. Relocation of Vulnerable Communities.

7. Strict Implementation of NGT Guidelines

8. Deployment of Floating Barriers.

