## **Strengthening WASH Resilience: Toward Sustainable Development Goals through Flood Susceptibility Analysis and Decentralized Implementation Framework** Rajeev R, Saishree Naik, Harshini Gumudavelly, Nivedha N, Gunjan Maheshwary, Mani Mozhi, Pooja Krishna Prasad

### **AIMOFTHESTUDY**

To assess flood susceptibility and propose a comprehensive implementation framework for decentralized WASH services at the local level in South Goa district.

### **OBJECTIVE OF THE STUDY** Assess flood susc Calculate WASH Connect eptibility in South infrastructure SDG with strategies f or WASH services in Goa and identify needs in floodprone villages. at-risk villages. flood-prone areas.

# **CASE AREA**

Sindudurg North Goa South Goa Uttara Kannada

### **MANAGEMENT FRAMEWORK**



### **Global South Academic Conclave on WASH and Climate Linkages**

School

Offices



INFRASTRUCTURE ASSESSED

WATER SUPPLY & WATER SUPPLY &



|              | % with safe | % with<br>indiv. |
|--------------|-------------|------------------|
| Village name | water       | toilet           |
| Quelossim    | 82.1        | 0.0              |
| Borim        | 0.0         | 0.0              |
| Durbhat      | 37.2        | 0.0              |
| Marcaim      | 80.0        | 0.1              |
| Vadi         | 71.3        | 0.0              |
| Undorna      | 100.0       | 0.0              |
| Camurlim     | 99.9        | 0.0              |
| Curdi        | 55.6        | 22.2             |
| Porteem      | 55.3        | 19.6             |
| Salauli      | 0.0         | 0.0              |
| Xelpem       | 50.0        | 0.0              |
| Codli        | 93.7        | 28.8             |

Observation reveals the absence of public toilets in the susceptible villages.

| or Selected for SDG<br>India  | Value (%)  | Source and<br>formula                                  |
|---|------------|--|
| tage of population<br>safe and adequate<br>g water in rural                   | 57.1       | Mission<br>Antyodaya 2020                              |
| rcentage of rural<br>olds with individual<br>old toilets.                     | 96.2       | Mission<br>Antyodaya 2020                              |
| centage of districts<br>d to be open<br>tion-free.                            | 0          | Swachh Bharat<br>Mission<br>(Grameen) 2.0<br>Dashboard |
| Installed sewage<br>ent capacity as a<br>tion of sewage<br>ted in urban areas | Data not a | available at village<br>level                          |

Scoring Parameters

Assess WASH infrastructure

