



## Who we are:

The Bremen Overseas Research & Development Association (BORDA) is a technical expert organisation in the field of sustainable environmental protection through integrated sanitation solutions.

BORDA's activities aim to make urban spaces more liveable by developing and implementing innovative decentralised sanitation solutions that increase climate resilience, strengthen social structures and promote the sustainable and careful use of natural resources locally.

## What we do:

- ▶ Develop **innovative** decentralised sanitation solutions that **strengthen climate resilience**, and **social structures**
- ▶ Support integrated approaches to **policy formulation**, participatory **urban planning** processes and **infrastructure development**
- ▶ Promote and facilitate **capacity development** to civil society organisations, communities, government agencies, the private sector, scientific institutions, and international organisations
- ▶ Develop tailor-made solutions to realize **water and sanitation for all**



**We design decentralised sanitation solutions in an integrated urban planning approach**

# The Project Outline (2023-2025)

Urban neighborhoods are facing tremendous challenges due to an increasing vulnerability to water-related issues and climate change.

The project develops locally adapted development plans through an *inclusive participatory approach and prepares detailed sector strategies.*

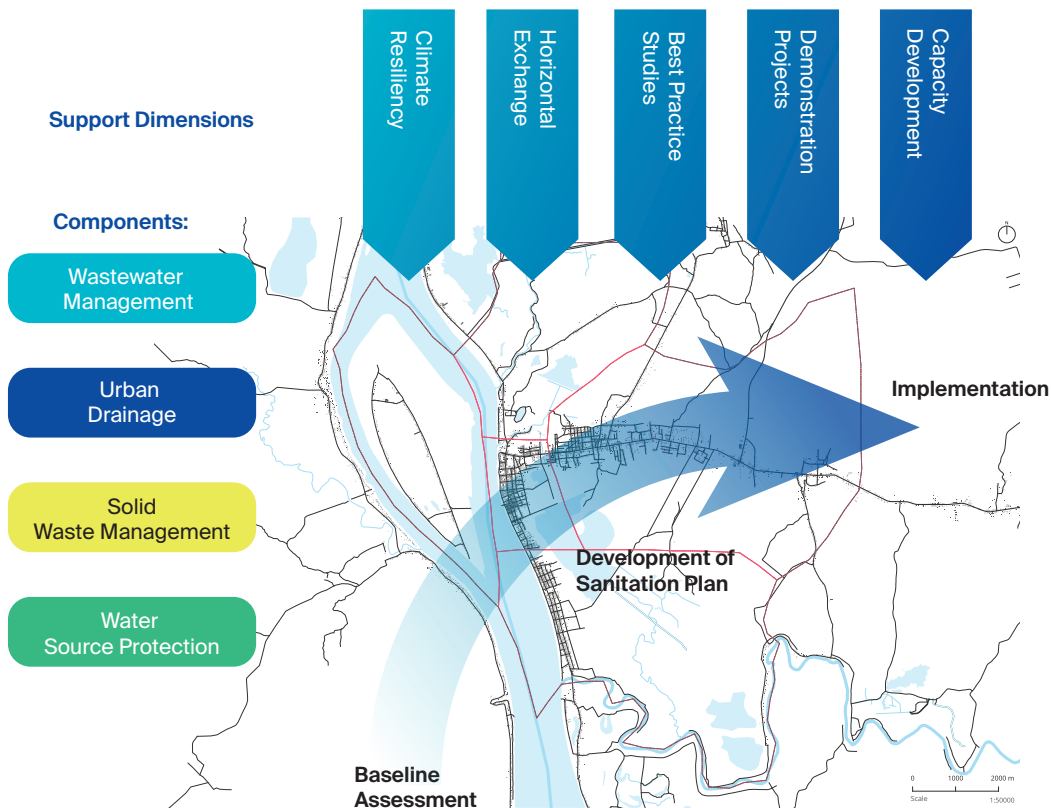
Practical implementation is being emphasized through demonstration projects. Institutional and municipal staff capacities of the target communities are strengthened.



Sam Neua, Lao PDR (BORDA, 2022)

## Project Goal

To kickstart the transformation of the target cities into models for water-sensitive and climate-resilient urban development.

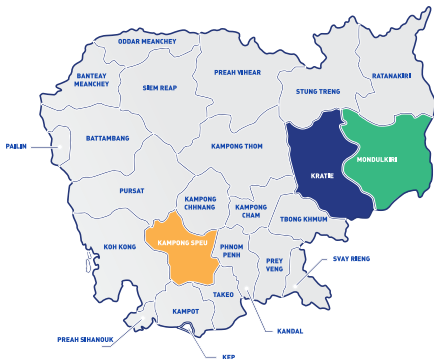


# Project Locations

BORDA is active in Southeast Asia since more than 15 years and currently operates out of *country offices in Lao PDR and Cambodia*. With a team of around 30 national staff members and 2 expatriate staffs, the BORDA project activities are implemented in *6 target cities*.



## Cambodia



### Kracheh

- ▶ Population (people): 32,980
- ▶ Area (km<sup>2</sup>): 88.89
- ▶ Topographic: Flat
- ▶ Main Environmental problems: Flood and inadequate wastewater management and solid waste management



### Senmonorom

- ▶ Population (people): 16,195
- ▶ Area (km<sup>2</sup>): 539.21
- ▶ Topographic: Mountainous
- ▶ Main Environmental problems: Inadequate wastewater management and solid waste management



### Chbar Mon

- ▶ Population (people): 53,105
- ▶ Area (km<sup>2</sup>): 90.10
- ▶ Topographic: Combination of flat and mountainous
- ▶ Main Environmental problems: Inadequate solid waste management



## Lao PDR



### Sam Neua

- ▶ Population (people): 62,229
- ▶ Area (km<sup>2</sup>): 2,658
- ▶ Topographic condition: Mountainous
- ▶ Main Environmental problems: Solid waste and wastewater management



### Vieng Xai

- ▶ Population (people): 31,964
- ▶ Area (km<sup>2</sup>): 1,536
- ▶ Topographic condition: Mountainous
- ▶ Main Environmental problems: Solid waste management and wastewater's impact on the town ponds



### Houameuang

- ▶ Population (people): 36,122
- ▶ Area (km<sup>2</sup>): 2,285.61
- ▶ Topographic condition: Mountainous
- ▶ Main Environmental problems: solid waste management and storm water drainage infrastructure

Cambodian data: Municipal Reports, 2023

The population of Laos: District Statistic Center, 2022

The area of Laos: Socio Economic Development Plan, 2020-2024

## Examples of Our Work



Fecal Sludge Treatment Plant (FSTP)  
Mai Village Landfill, Louang Namtha, Lao PDR



Constructed Wetlands for Wastewater Treatment  
Paoy Village, Houysaiy, Lao PDR



Decentralised Wastewater Treatment System (DEWATS)  
Kampong Speu Referral Hospital, Cambodia



School Based Sanitation (SBS)  
Tekhak Panh Nhor Primary School, Phnom Penh, Cambodia



Health Impact Evaluation (HIE)  
Mixai Village, Sanxai District, Attapue Province, Lao PDR



Operation and Maintenance (O&M) Campaign  
Srae Nhor Primary School, Dong Kor District, Phnom Penh, Cambodia



**german  
cooperation**

DEUTSCHE ZUSAMMENARBEIT

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