

# MYANMAR - NORWAY ENVIRONMENTAL PROGRAMME (2019 - 2023)

## Integrated Water Resources Management - Institutional Building and Training II - project



The project facilitates knowledge-based decision-making that builds on natural and social science expertise. The projects focuses on:

- providing data on environmental status of water bodies.
- coordinated, transparent decision-making with input from civil society.



*The project is a collaboration between Watershed Management Division, Forest Department (WMD, FD), and the Norwegian Institute for Water Research (NIVA) under the Myanmar Norway Environmental Programme.*

## Project outcome and objectives

The IWRM II project (2019-2023) is a continuation of and builds on the IWRM I project (2015-2018). In total there are five different, interlinked outcomes.

The project will provide:

- A theoretical baseline for practical and technical work
- Relevant infrastructure to enable outcomes
- Learning by doing, though practical work
- Master students and PhD students

The IWRM phase II will contribute to following objectives of the Myanmar National Water Framework Directive (NWRC, 2014): “*sustainable development; Integrated Water Resources Management practices*”, and “*Continuous Water Quality Monitoring*”.

### Outcome 1 - Ecological water quality status assessment



Sampling, method development and training in all steps of applying an efficient monitoring strategy and classification system are core parts.

The reference point for Myanmar is the National Water Framework Directive (NWFD); and the international reference point is the EU Water Framework Directive (WFD).

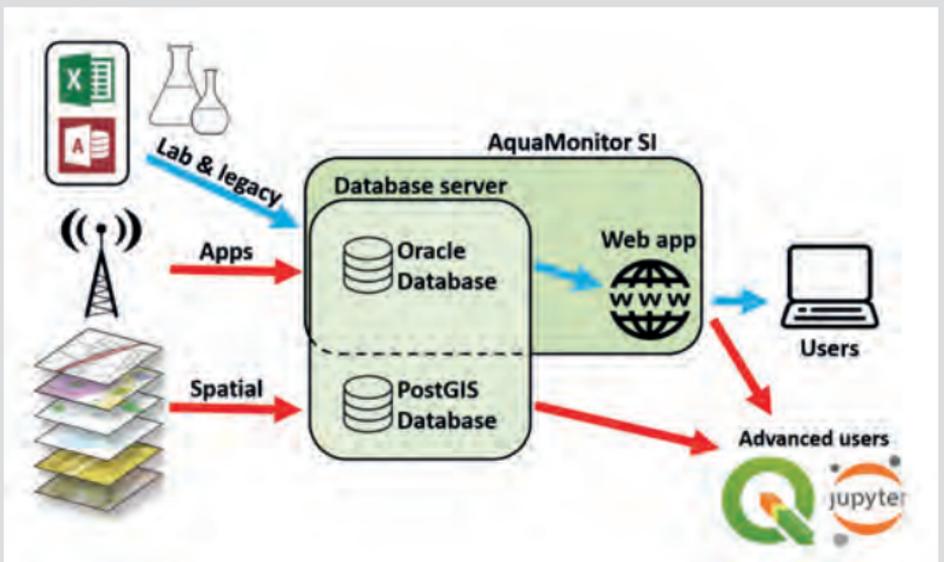
## Outcome 2 - National Water Quality Laboratory established



Establish a National Water Quality Laboratory for performing water quality measurements, ecological quality assessments, heavy metal analyses and selected organic contaminant analyses. The laboratory is placed at the Forest Research Institute, at Yezin.

It also aims to have national level ownership for servicing of relevant ministries in addition to private actors.

## Outcome 3 - Database and data user interface



For the FD to be able to query, combine and visualise water quality and spatial datasets from a variety of sources for communication in reports and presentations. Contribute to the sustainable operation of the FD data center.



## **Outcome 4 - Pilot the Myanmar National Water Framework Directive**

Pilot the river basin management approach in line with the National Water Framework Directive (NWFD) in selected Myanmar sub-basins. It is an aim to get a broad basis of experience from implementing the approach; based on such experiences, national operational rules and regulations for implementing the NWFD can be developed.

## **Outcome 5 - Monitoring plans and risk assessments developed for areas affected by mining industry**



Sampling, analysis and contamination levels assessed at different mining sites. Provide regional and governmental stakeholders in selected areas influenced by mining activities with tools for human health and ecological risk assessments of metals contamination.



Selected areas for piloting the river-basin management approach include the Bago Region (Bago Sub-basin and Shwegyin Sub-basin), with future exploration of sub-basins in Tanintharyi Region.

## **Integrated Water Resources Management Institutional building and training (IWRM II) project (2019-2023)**

Cross cutting issues represent important perspectives and approaches of the project:

- i. United Nation's Sustainable Development Goals (SDGs)
- ii. Gender and human rights
- iii. Integrated capacity building
- iv. Quality assurance and data security
- v. Dissemination

## Myanmar Norway Environmental Programme



Published project documents can be downloaded at [www.mnenvironment.com](http://www.mnenvironment.com); the webpage also serves as a reference for the entire Environmental Programme. A regularly updated IWRM project facebook page is also available: "Integrated Water Resources Management -IWRM".

A project management group that consists of representatives from WMD FD (MONREC), Irrigation and Water Utilization Management Department (IWUMD) (MOALI) and NIVA has been established.



**NIVA**

### **Funding agency:**

The Norwegian Ministry of Foreign Affairs/The Royal Norwegian Embassy in Myanmar.

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