

Water management for sustainable use and protection of peatlands

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Peatland management requires careful land and water management to reduce a range of negative impacts on water resources and their ecosystem services. However, **lack of knowledge** on land and water management is a key issue in peatland management, which hampers sound decision-making.

This project will **improve** our knowledge on **peatland hydrological and geochemical process**, develop and test methods to **reduce leaching** and other negative impacts that occur after peatland drainage, and **disseminate** the **knowledge** gained to **stakeholders**.

Analysis

.... of peatland use impacts on hydrology and water quality



Field-based experiments



Leaching experiments and rainfall simulation experiments



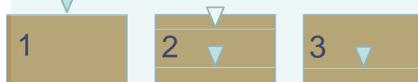
Catchment data analysis

Solutions

.... for efficient water management and water quality control



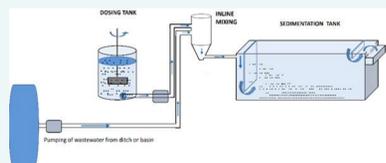
Restoration and rehabilitation



Controlled drainage

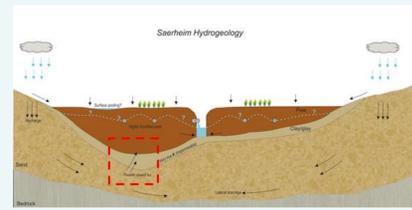
Other options including:

- Drainage water treatment
- Chemical water treatment
- Engineered interventions



Tools

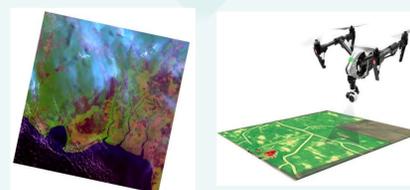
.... for integrated land and water management



Visualization with conceptual models



Numerical modelling



Monitoring and remote sensing

Stakeholders

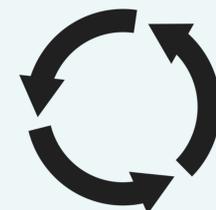
.... to inform project scope and to benefit from project results



Stakeholder meetings



Stakeholders



WATERPEAT Team

WATERPEAT Outputs:

- ✓ Training courses
- ✓ Policy briefs
- ✓ Journal papers
- ✓ Conferences