RoSPRO

Anastasia Deligianni

Title of project: **Roads for landscape improvement**

MetaMeta Research, FutureWater and the International Centre for Integrated Mountain Development will collaborate to address the declining and irregular flow of water springs in Nepal's mountainous Dhankuta municipality. The project aims to protect and enhance natural springs while ensuring reliable water supplies and maintaining road infrastructure quality by reimagining roads as tools for landscape improvement. The Department of Local Infrastructure will oversee the projects implementation.

PARTNERS FOR WATER
CO-CREATING IMPACT

Hydrologic

Ralf Linneman

Title of project: **The Glow project**

The GLOW project aims to provide timely and easy access to current and forecasted water resources information. This includes water availability and demand across an entire water resources system, with a focus on water stored in reservoirs, soils and groundwater bodies.

Additionally, the GLOW project aims to support sustainable development and improving water security in the Maputo and Black Umbuluzi river catchments and delta's which is the major water supply source for the Delta city of Maputo. This is achieved by implementing the GLOW services which include forecasts on water availability and demand, alert notifications and water distribution advisories for two catchments which are critical for the water security of water users upstream (mostly irrigation), downstream (urban) and environmental use (downstream delta).

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MetaMeta

Reinier Veldman

Title of project: **Portable Solar Pumps for Small-Scale Farmers**

Zambia, like many Sub-Saharan countries, experiences long, dry seasons and increasingly unreliable rain patterns, leading to crop losses and food insecurity. Many small-scale farmers have fields near streams or shallow groundwater and have the potential to double their production with efficient water distribution. New technology offers a solution: a locally assembled, portable solar pump, light enough for daily storage and affordable within one harvest. Jacana will redesign this pump for mass production and develop a sustainable supply chain involving small retailers, large importers, distributors and NGOs to support small-scale farmers.

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Eleaf

Corné van der Sande

Title of project: **Accessible open data on agricultural water consumption monitoring**

The Eleaf project addresses the issue of water shortages in Morocco's Tensift Basin which hinders local agricultural development. The project aims to empower local authorities and professionals without prior GIS experience with better tools for law enforcement, planning, monitoring and advising on water management. By converting complex high-resolution geographical data on agricultural water consumption into user-friendly dashboards, this initiative will result in enhanced decision-making and planning for agricultural water management.

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Cavitech

Yulia Belova

Title of project: **Energy saving wastewater purifier**

"Cavitech Aeration" is a next-generation wastewater aeration system developed as the best solution for dairy plant wastewater aeration. The main advantage is that the technology prevents sludge accumulation calcification.

The system integrates volumetric aeration, like bubble aeration and requires lower maintenance than surface aerators. The energy efficiency is 2-5 times higher is efficient for all types of WWTPs and provides high quality water purification with energy saving of 30-60%. Already installed and tested in Serbia and Spain, the system is scalable for a wider application.

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Akvo Foundation

Franky Li

Title of project: **Integrated Water and Sewerage Information Management System**

Fiji's Department of Water and Sewerage (DWS) faces significant water management challenges due to fragmented data systems, resulting in operational challenges and low compliance with regulatory mandates.

AKVO Foundation will pilot IWSIMS (Integrated Water and Sewerage Information Management System), a cost-effective and technically sustainable data management system. The solution offers multiple data entry options including web forms, mobile apps and SMS-based reporting, making data collection more accessible. This comprehensive system will improve water quality monitoring, reduce non-revenue water losses and minimise environmental risks while enhancing DWS's ability to effectively manage water resources and meet regulatory requirements.

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Solaq

Reuben Moore

Title of project: **Sustainable water from the air**

The goal of the Solaq B.V. consortium is to further develop ‘WaterWin’, their ground-breaking air-to-water technology. Powered by solar energy the technology extracts drinking water from the air in semi-arid regions of Brazil. Thanks to its cost-effectiveness, WaterWin enables more affordable water access.

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WWF Ortigara

Angela Cordeiro Ortigara

Title of project: **Erosion prevention along river shores**

Along the Paraguay River, increased navigation traffic generates waves that cause severe riverbank erosion, threatening both local ecosystems and the livelihoods of nearby communities. This pilot project introduces an innovative Nature-based Solution using wave-damping mats constructed from locally available trees. Unlike conventional grey infrastructure, these mats offer a sustainable, cost-effective and adaptable approach to erosion prevention while improving river ecosystems. Designed to be easily replicated and maintained by local communities, the solution ensures long-term sustainability and community empowerment.

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Aqua aid

Pieter Houting

Title of project: **Conserving water in the banana industry**

Using a biodegradable wetting agent, Aqua Aid Europe and Innotechma Holding are exploring an innovative solution that could reduce agricultural water consumption by up to 39%. Following successful laboratory tests in the Netherlands, this feasibility study will evaluate the agent's effectiveness in real-world conditions at a controlled banana plantation in the Philippines. Consortium partners: Aqua Aid Europe, Innotechma Holding.

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SOSIA+

Martijn de Klerk

Title of project: Climate-smart irrigation system

The Technical University of Delft in collaboration with Future Water, Holland Greentech and TAHMO, will pilot a new, advanced water saving irrigation service for smallholder farmers. Many available irrigation services only make use of satellite data and/or global forecast data. The SOSIA+ tool will include real-time local ground data offered by TAHMO weather stations and soil moisture sensors. For farmers located further away from weather stations, satellite-derived weather will be used. This will significantly reduce water consumption from over-irrigation (along with associated energy use) resulting in enhanced water security.

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