

Countryside Conservation Funding Scheme
Research Activities on Countryside Conservation and Revitalisation

Project Number	EP86/27/24/11-29
Project Proponent	World Wide Fund for Nature Hong Kong
Project Title	“Smart Wetland” – Where Traditional Management Meets Innovation & Technology
Target Site	Mai Po Nature Reserve
Project Description*	<p>For over 80 years, most remote wetlands in the Inner Deep Bay area have been managed in conventional and traditional manners, with minimal infrastructure support, which hinder management improvements. Today, natural and social phenomena such as extreme weather, labour shortage and more, have brought challenges to wetland stewardship. In order to tackle management challenges faced by wetland stakeholders in the Deep Bay area, novel solutions with innovation and technology (I&T) elements should be studied and demonstrated.</p> <p>This project will bring cutting edge technology for more efficient management of wetlands through:</p> <ol style="list-style-type: none"> 1. Research innovation and technology (I&T) solutions for wetland monitoring, especially by introduction of wireless Internet of Things (IoT) sensors that can contribute to management and conservation of wetland landscape in Mai Po Nature Reserve (MPNR); 2. Establishing a wetland pilot site to demonstrate proof of concept by deploying wireless IoT sensors and remotely collect wetland monitoring data; and 3. Analyzing collected data, evaluate effectiveness and settings of IoT sensors applications and share experience to local and regional stakeholders in the wetland stewardship communities.
Project Period	1 December 2022 to 30 November 2024
Grant Approved	\$2,999,668

*The project description is provided by the project proponent.