UTS RAPIDO VIETNAM

Water Systems with Industry 4.0 Technology Implementation to Enable Sustainable Communities in Red River Delta and Phu Yen

Funding granted: AUD 997,000

RED RIVER DELTA

Increase treatment capabilities by removing multiple pollutants, customising systems to client requirement and providing autonomous control of the systems, delivering positive outcomes for over 4,000 people.

PHU YEN

Enhance water monitoring system to enable risk monitoring and the transmission of critical information to end users, and ultimately an ongoing system maintained by and accessible to the local community.

This initiative is funded under the competive grant work stream of Aus-4Innovation, a flagship four year, AUD 11 million partnership program designed to help strengthen the Vietnamese innovation system and prepare for Vietnams economic and digital future. The program provides funds to scale already tested activities to address emerging challenges or opportunities in any sector of Vietnam's innovation system.

OVERVIEW

Aquaculture is a major export industry for Vietnam, seriously threatned by mass stock mortality due to water pollution and consequent diseases. This problem is particularly serious in Phu Yen.

Water pollution is also a big health problem in the Red River Delta, where millions of people still do not have access to safe drinking water, often due to contamination by arsenic and ammonia.

UTS Rapido is a proven model of technology transfer that can be tailored to the Vietnamese context. It uses advanced engineering and IT approaches to solve technology challenges, leveraging UTS resources and knowledge.

The application of IoT platforms in water system management in these regional and remote communities will serve as a model for uptake across the country, with the support of local government.

KEY ACTIVITIES

1. Establish a Rapido model tailored to Vietnam, leveraging joint research centres UTS has established with partners in Vietnam, and engaging with industry partners to realise two pilot projects.
2. Equip rural and remote communities to access data about water quality in real time, as well as ways to use that data to operate systems on a day-to-day basis, which will improve quality of life and aquaculture practice.
3. New cost effective water filtration systems based on new technology and design will bring an opportunity to access safe water for all people, includng poor households in disadvantages communes. In addition, an advanced water filtration system is brand new technology for peri urban Hanoi.
4. Establish an authentic technology transfer model, where research and development outputs are more affordable to small and medium sized enerprises.

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PROJECT LED BY UTS UNIVERSITY OF TECHNOLOGY SYDNEY

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