



Sponsored Project



1. Project name	Investigating the use of nanobubble technology in aquaculture
2. AIT Lead Faculty	Ha Thanh Dong
3. Objective	<p>The objectives of this project were to investigate the application of Nano bubble technology to</p> <ol style="list-style-type: none">1) reduce exposure to pathogens on aquaculture farms,2) improve animal immunity and vaccine efficacy,3) enhance growth without the use of antimicrobials, and4) remove antimicrobials that leach out of medicated feed during therapeutic treatments.
4. Short Descriptions	<p>In Asia, small and medium-sized aquaculture farms face challenges in reducing infectious diseases. These challenges result in antimicrobial overuse and the development of antimicrobial resistance. Finding low-cost alternatives to antimicrobials is critical to the long-term viability of small aquaculture farms in developing countries. Nano bubble technology, a nonchemical disinfection method, is transforming wastewater treatment industries worldwide. This project will look into new ways that this cutting-edge technology can be used in aquaculture to reduce the use of antibiotics, stop them from getting into the environment, and help fish and shellfish grow and get stronger.</p>
5. Output/Social Impact	<p>This project investigated a novel aquaculture technology. This project's knowledge has been disseminated through peer-reviewed scientific publications and conferences. Also, this project gives farmers scientific proof that they can use new technology instead of antibiotics to keep the health of their aquaculture fish.</p>
4. Partners	City University of Hong Kong, Research Institute for Aquaculture (Vietnam) and Suan Sunandha Rajabhat University (Thailand)
5. Donors	The UK government - Department of Health and Social Care (DHSC), Global AMR Innovation Fund (GAMRIF), and the International Development Research Center (IDRC), Canada
6. Project Duration	1 April 2019 to 30 December 2021 (extended to 31 May 2023)
7. Total grant amount	CA\$ 2,751,400
8. Please specify SDG s to which this project belongs	SDG3, 5, 14