



# Optimising Decentralized Wastewater Infrastructure



<b>1. Project name</b>	Optimising Decentralized Low-cost Wastewater Infrastructure by Managing the Microbes
<b>2. AIT Lead Faculty</b>	Prof. Thammarat Koottatep
<b>3. Objective</b>	The project "Optimising decentralized low-cost wastewater infrastructure by managing the microbes" aims to enhance the design, reliability, and, ultimately, the marketability of AIT's innovative onsite wastewater treatment technologies. The findings of the project are expected to be important for mitigating the risk of failure by refining the AIT designs and offering rapid low-tech remediation strategies that can be deployed by customers should failure occur.
<b>4. Short Descriptions</b>	The Asian Institute of Technology (AIT) in Thailand is testing a suite of revolutionary market-driven decentralized biological wastewater treatment technologies funded by the Bill & Melinda Gates Foundation. The technologies function, but their performance varies. There is evidence that this is due to variations in the microbial populations at the heart of the technologies, which is currently unknown.
<b>5. Output/Social Impact</b>	Charities and government organizations have made major investments in researching novel wastewater treatment technologies, and many are currently close to market-ready.
<b>4. Partners</b>	University of Glasgow
<b>5. Donors</b>	Engineering and Physical Sciences Research Council (EPSRC GCRF)
<b>6. Project Duration</b>	1 May 2017 – 30 April 2022
<b>7. Total grant amount</b>	14,096,218.22 THB
<b>8. Please specify SDG s to which this project belongs</b>	SDG 6