



# AIT – SINTEF Phase I



<b>1. Project name</b>	Investigation of Leachability and Migration of Plastics from a Dumpsite
<b>2. AIT Lead Faculty</b>	Prof. C. Visvanathan
<b>3. Objective</b>	This study aims to classify and quantify the types of plastics among the remaining solid waste fractions present at different sampling locations in a dumpsite in Thailand and quantify leaching microplastics from the dumpsite to the nearby waterbody.
<b>4. Short Descriptions</b>	The project involves aerial mapping of the dumpsite using drone technology. Drone flights are conducted to identify and quantify the plastics in the dumpsites by using different drones and altitude levels.
<b>5. Output/Social Impact</b>	Research outputs involve quantification of plastics from dumpsites for RDF co-fueling applications in cement kilns, increasing domestic energy sufficiency.
<b>4. Partners</b>	-
<b>5. Donors</b>	SINTEF AS, represented by its Institute SINTEF community, Norway
<b>6. Project Duration</b>	1 August 2020 – 31 August 2022
<b>7. Total grant amount</b>	177,865 NOK (632,748.47 THB)
<b>8. Please specify SDGs to which this project belongs</b>	SDG 3, 6, 7, 9, 12, 15, 17