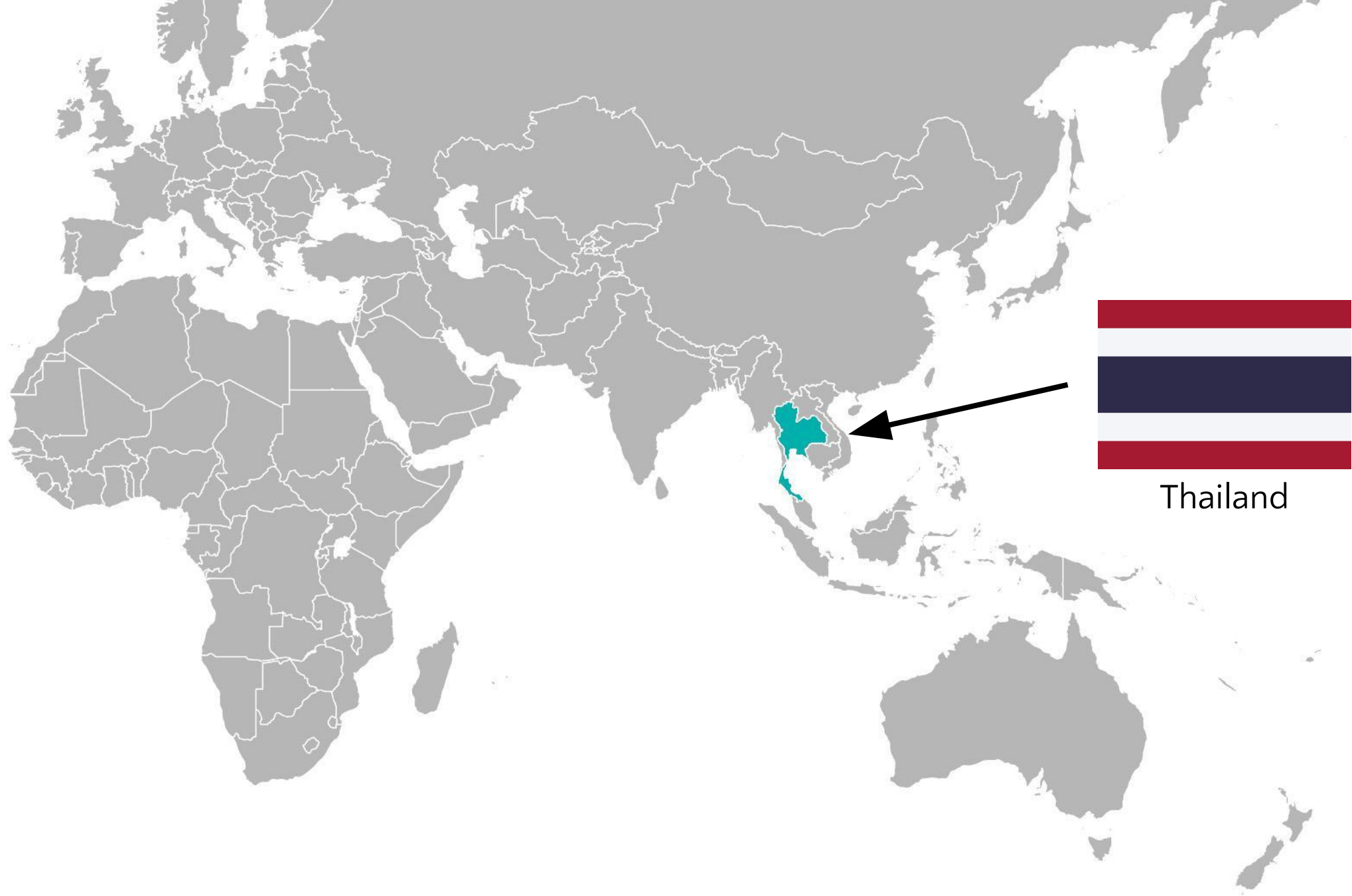




Technology Introduction



Thailand

Ko Sichang Island, Thailand



Ko Sichang Municipality

Thailand

Status: Operational since September 2024

Facility:

- Small island waste management centre

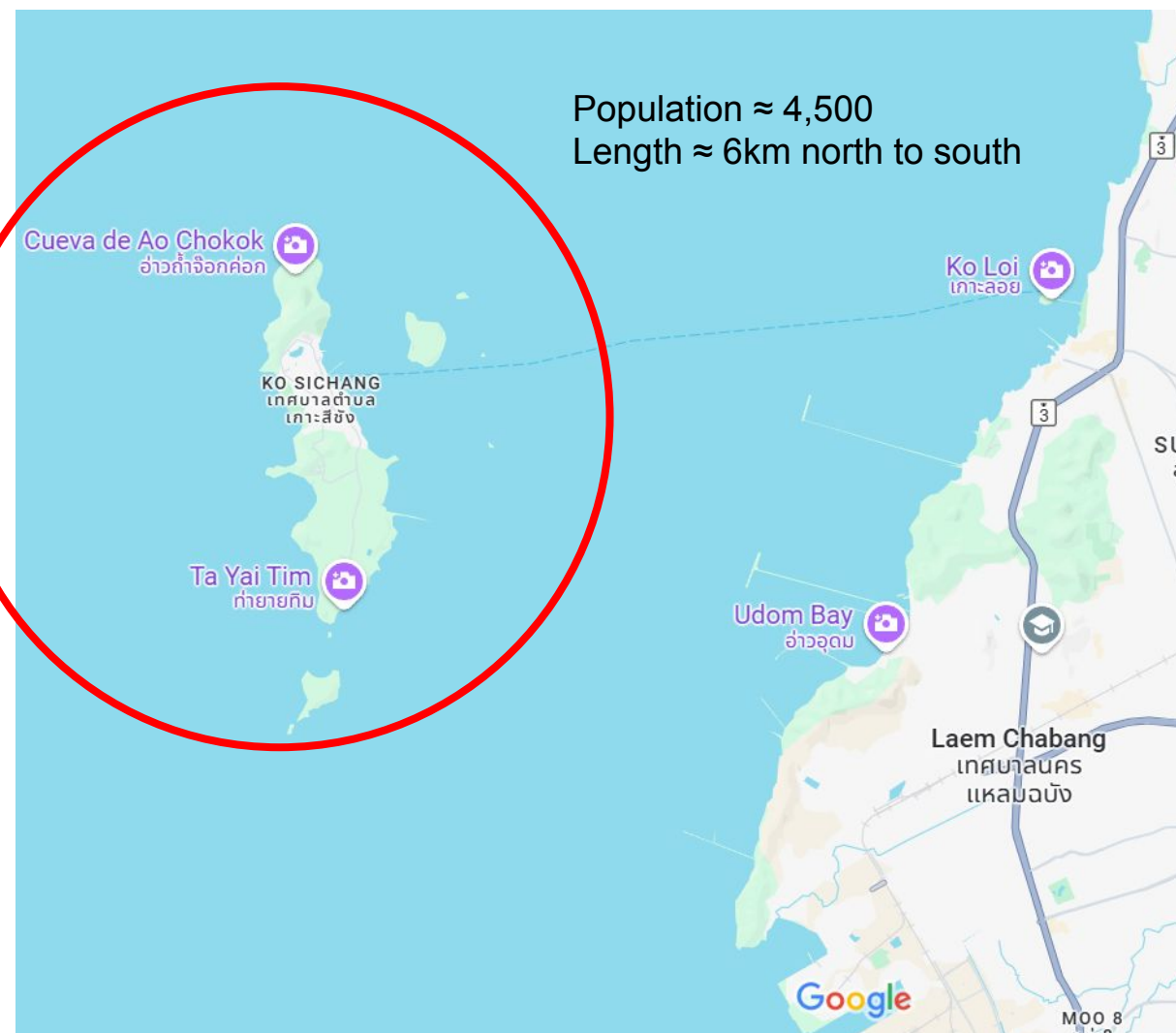
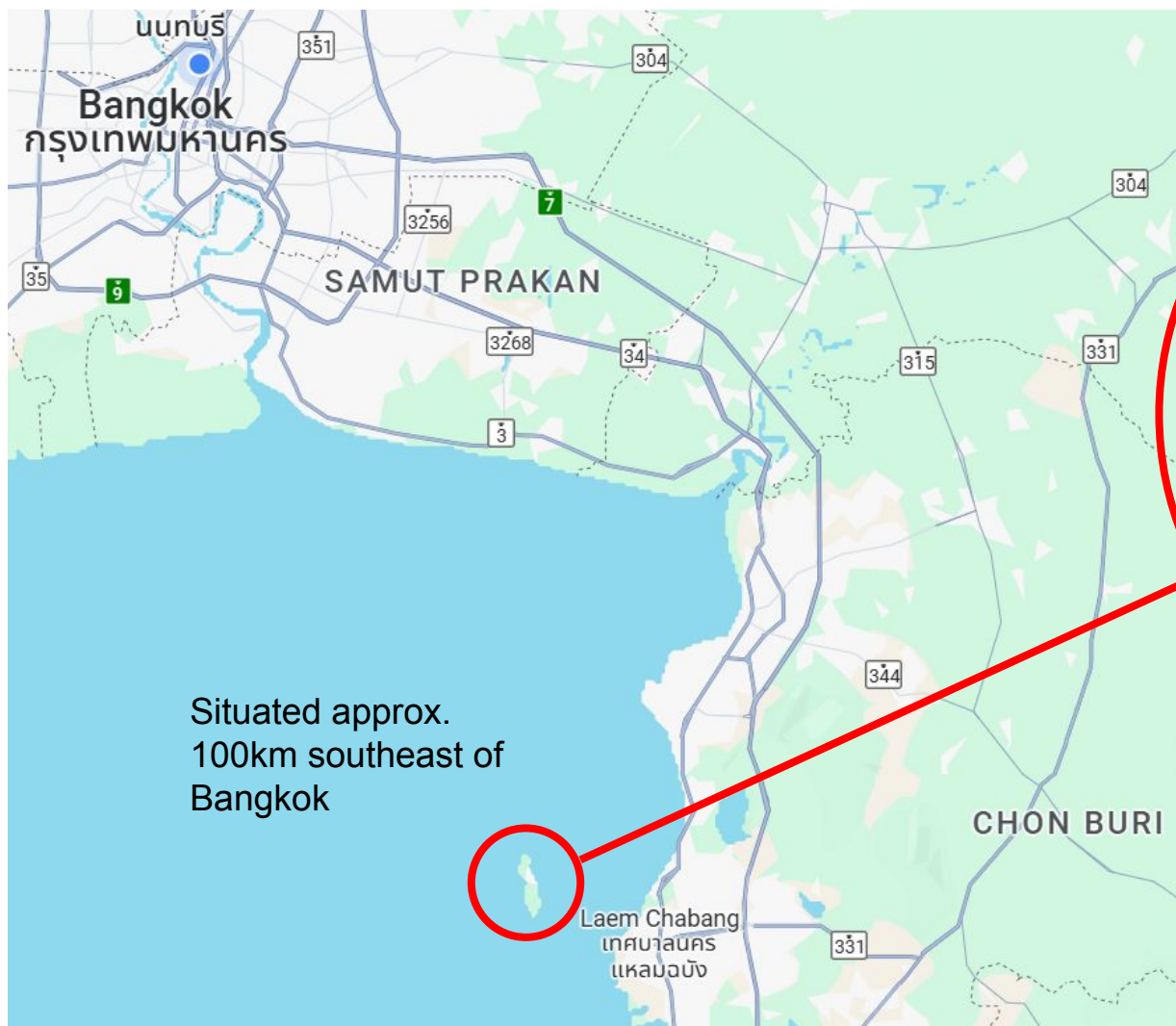
Treated Waste:

- Grey kitchen water collected by community truck
- Approx. 1000L p/day

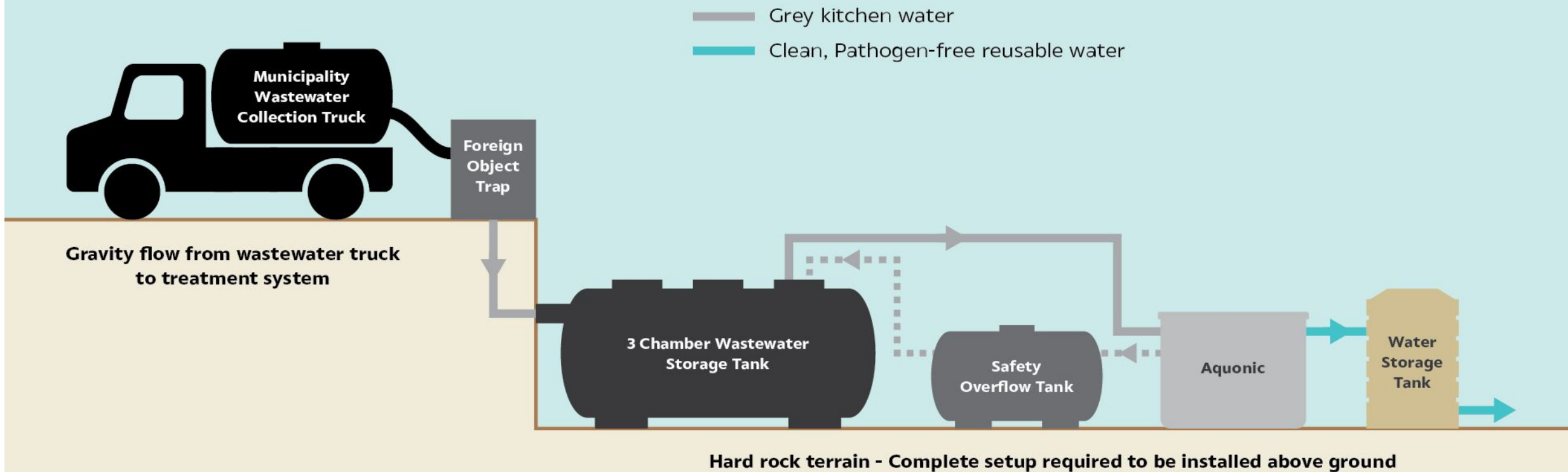
Technology setup:

- 1 x Aquonic 1000L tanks
- Uniquely designed for municipality waste management center on a small, rocky island with little infrastructure

Ko Sichang Island, Thailand



Ko Sichang Island, Thailand



Ko Sichang Island, Thailand



How to Calculate Number of Required Aquonic

Basic idea - Calculate for the maximum generation of wastewater per site

Info required

- 1) Number of toilet cubicle – e.g. 5
- 2) Volume of the toilet flush or pour – e.g. 6L
- 3) Number of hours per day the toilet is open for use – e.g. 8h
- 4) Number of days per week the toilet is open for use – e.g. 5 days

Assumptions

1. Use assumption that 1 person use toilet for 10min and flushes twice
2. Use assumption that 1 x Aquonic can treat 1000L per day, 7 days per week

Example calculation

Max wastewater per day for 1 toilet cubicle
 $= 6\text{L} \times 2 \times 6 \times 8 = 576\text{L}$

Max wastewater for toilet block per week
 $= 576\text{L} \times 5 \text{ cubicle} = 2,880\text{L} \times 5 \text{ days} = 14,400$

Required Aquonic tanks =
 $14,400 \div 7 \text{ days} = 2,057\text{L per day} \div 1000\text{L} = 2 \text{ Aquonic}$

Go Global
Act Local

