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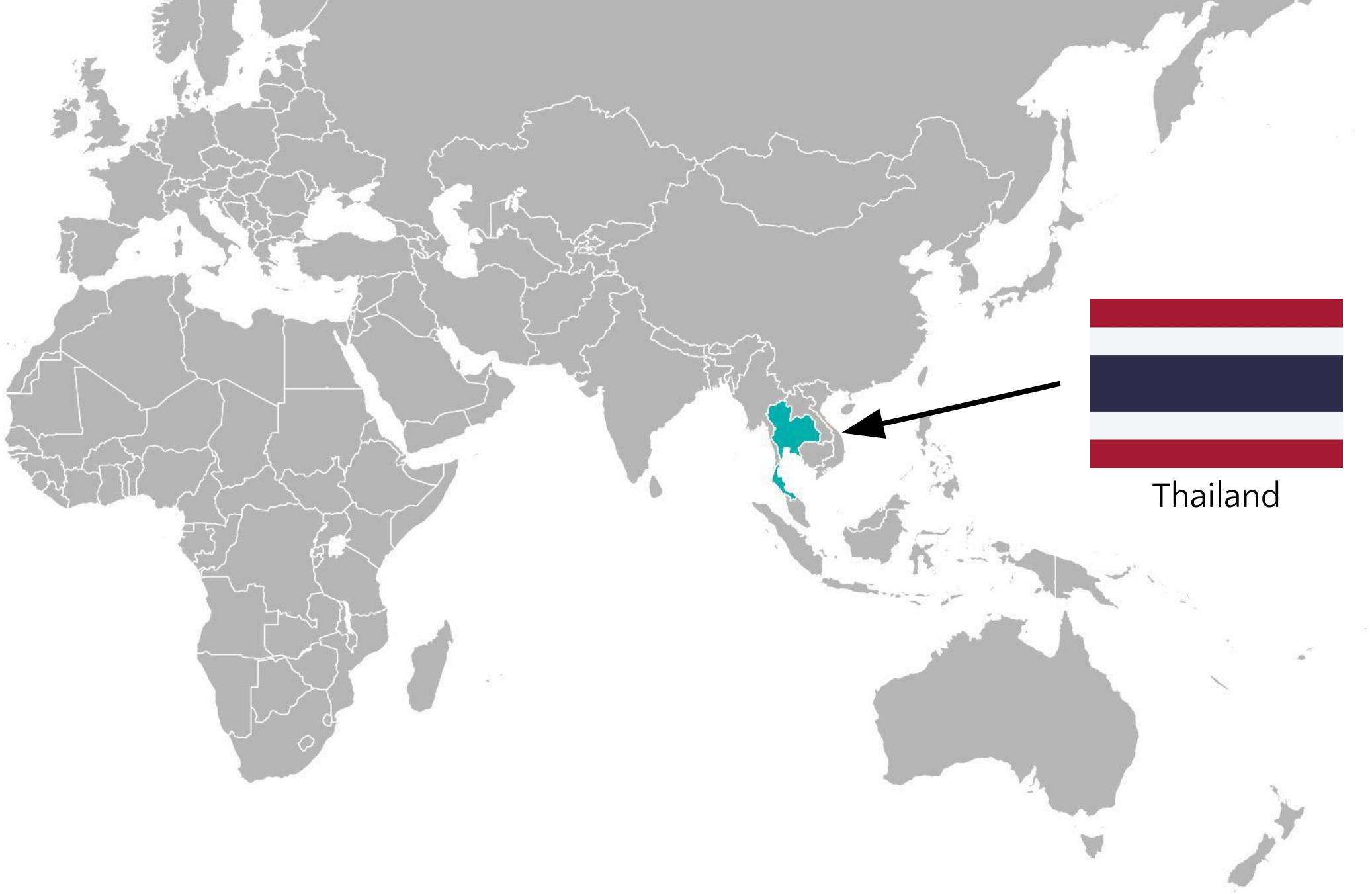
Technology Introduction


Thailand

Khlong Mae Kha, Chiang Mai, Thailand

Khlong Mae Kha
Thailand

Status: Operational since December 2024

Facility:
- Public toilet beside the famous touristic canal

Treated Waste:
- Blackwater from flushing toilets
- Approx. 1000L p/day

Technology setup:
- 1 x Aquonic 1000L tanks
- Blackwater treated and reused for flushing toilet.
- Overflow returned to canal as clean, pathogen-free treated water

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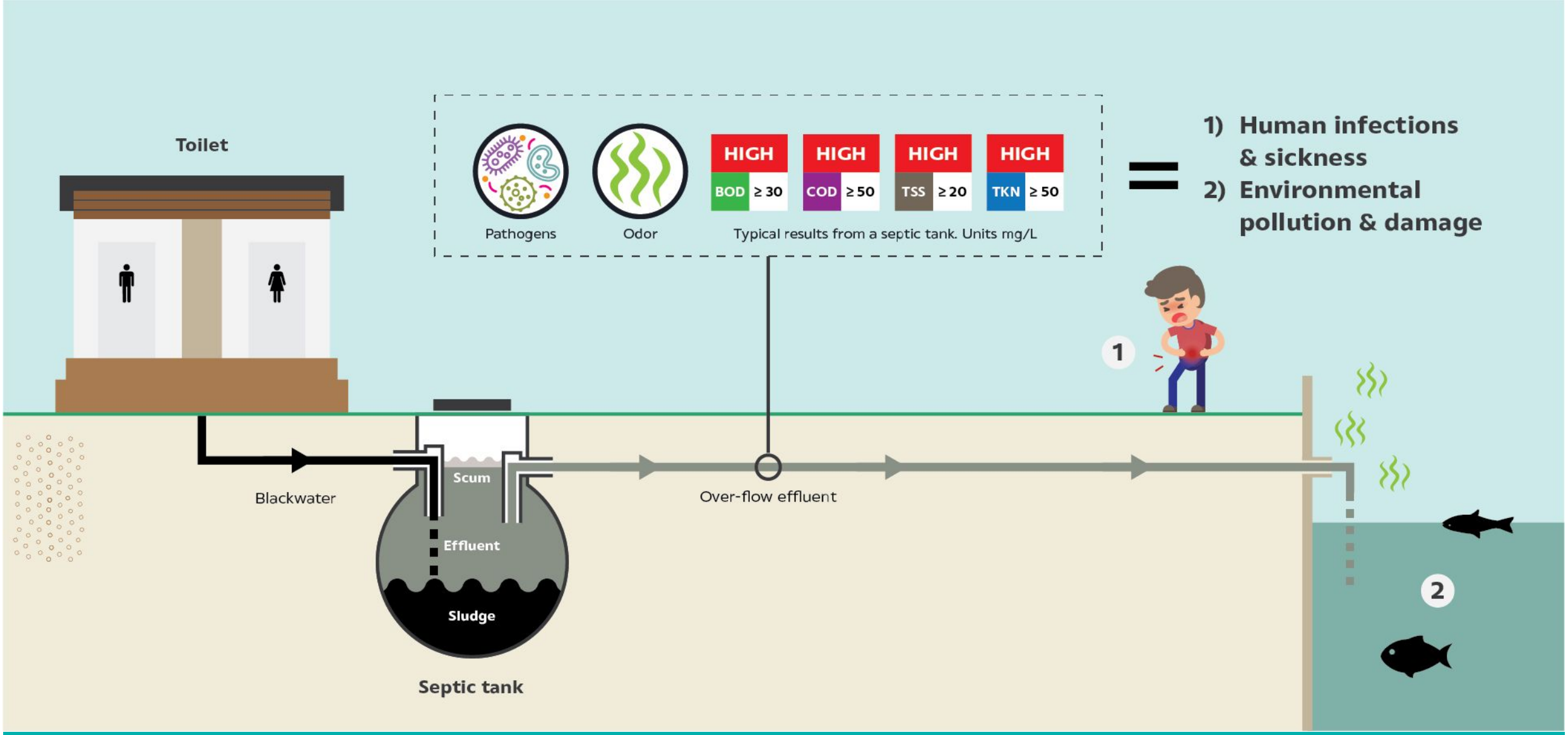

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How to Calculate Number of Required Aquonic

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
= 6L x 2 x 6 x 8 = 576L

Max wastewater for toilet block per week
= 576L x 5 cubicle = 2,880L x 5 days = 14,400

Required Aquonic tanks =
14,400 ÷ 7 days = 2,057L per day ÷ 1000L = 2 Aquonic

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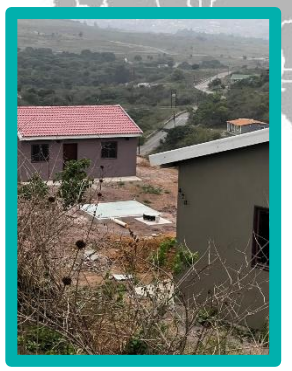

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Act Local

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