Logistics Tool to Improve Faecal Sludge Management Business Model
Nonthaburi Case Study

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Hands on

1. In your phone go to www.kahoot.it
2. Game PIN:
3. Answer the question:

Vote for the most recurrent problem during collection and transportation of faecal sludge?

Mechanical (vacuum trucks)
Objective

Identify FSM service aspects that can be improved by using a customized FSM logistic tool

- Pinpoint the C&T service aspects that can be improved
- What is the **FSM C&T service optimization tool**?
- Nonthaburi as a case study
- What's next?
Challenges on FSM service

Customer*

• Sanitation and dumping
• Lower price
• Clean
• Quick response
• Others

Service provider

• Cost O&M
• Monitoring:
  • Collection & disposal
  • FS generation
  • Customers

*Marketing study: 1620 households, Thailand
Logistics and optimization Tool
For FSM by AIT

ADD CUSTOMERS
Contact data
Address (map)
DEWAT size
Availability

ADD VEHICLE
Identification
Capacity

ADD ORDER
Vehicle availability
Customers

OPTIMIZATION
Best route
and order of
customers
Scheduling & Routing

GPS Location

Report

Database

Less fuel consumption
Nonthaburi FSM service

Service to 1800 people

Resources:
• 4 FS vaccum trucks
• treatment plant of 40m3/day

www.fsmonlinecourse-ait.com
Performance Test Chart (Nonthaburi)

Total Distance Travelled in 6 months

Assigned Number of Customer/ Trip
Business model for service provider

Key activities
- Semiautomatic customer and truck designation

Key resources
- Software
- Maps
- Trained personnel
- Tracking system

Customer relation
- Time

Value proposition
- Schedule - urgent

Cost structure
- Setup
- Database management
- Reduction in fuel consumption
Key Findings

• Extra stops
• Flexibility on resources
• Data input officer vs user
• Map accuracy
• Data based – potential customers – schedule emptying
• Priority
• Reduction of distance traveled
What is next?

• Mobile application
  • Data input
  • Monitoring real time, quality control
  • FS sensor (illegal discharge)
• Updated maps
• Real time monitoring

Let’s test Logistic Tool in your city!
For further information on the FSM Toolbox and the Innovative Sanitation Technologies

Visit us:  
NATS Exhibition Booth

Side Event:  
23rd February, 2017  
Sembian Annex
Thank you