Control Card System for FSM Improvement in Indonesia

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Generic FSM practice in Indonesia*

- Non-standard construction
- Desludging: mostly when blockage
- Payment: high & directly to driver

- On call basis service
- Lack of operation supervision
- Number of trucks ≠ requirement

- Incoming sludge ≠ collected sludge
- Under utilized
- Discharge fee: paid directly at STP

*) Valid for on-site system. Communal system has different set-up
The consequences:

- Ground water pollution; sludge production < design for STP; low effluent quality
- Household suspends the desludging
- Sludge collector: passive – not proactive
- Illegal discharge to water body
- STP is under-utilized and constrained due to limited budget for O&M
Targets for improvement

Septic Tank
- Improved septic tank technical quality
- Customer obligation: monthly fee
- Desludging: customer right to receive the service

Sludge Truck
- Regular desludging: initiated by sludge collector operator
- Interesting business for the private sector
- Prevent illegal discharge → shift the responsibility to sludge collector management

S T P
- Fully utilized
- Incoming sludge = collected sludge
- Aim for sufficient budget for O&M
What are the schemes?

Scheme-1:
- Use 4 cards

Scheme-2:
- Web-based system
Diagram of scheme-1

Local Government Institution

1. Monthly fee
2. 4 cards
3. Desludging (regular)
4. 3 signed cards
5. Discharge at STP
6. 2 verified cards
7. 1 card attachment to invoice
8. Payment to the service

Household

Private / public institution

Public institution

O & M
Diagram of scheme-2

1. Monthly fee

2. Desludging (regular)

3. Discharge at STP

4. Invoice

5. Payment to the service

Local Government Institution

Household

Private / public institution

Public institution

O & M

Data via internet

Payment to the service

Data via internet

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Resume

- Regulation for regular desludging;
- Clear responsible institution for sludge management;
- Database of septic tanks → improve customer administration;
- Proactive sludge collector operator;
- Prevent illegal discharge → shift the responsibility to the management of the sludge collector operator;
- Customer should feel regular desludging is their *right* instead of *obligation*, after they pay monthly fee;
- Simultaneously: step-by-step improve septic tank condition;
- Also important: campaign & advocacy
Thank you for your attention

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