Faecal Sludge Management
Malaysia

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1970s & 1980s: RURAL SANITATION PROGRAM
- relocation of wells/toilets
- upgrade to proper septic tanks
- subsidised through supply of materials

Credits: MoE, Philippines
1970s & 1980s: BASIC SANITATION PROGRAM
- Awareness programme
- Revolving fund
- Legal measures
- Incentives / disincentives

- Open defecation
- Direct discharges
- Insanitary systems

Improved pits
Septic tanks
MALAYSIA: SANITATION SYSTEMS

- Centralised: 35%
- Decentralised: 35%
- Septic tank: 14%
- Others: 16%
1994 SANITATION / SEWERAGE GOVERNANCE

MINISTRY OF WATER

Regulate Services, technical, economic

MINISTRY OF ENVIRONMENT

Regulate Effluent Discharges

Permit holder

Desludging, Construction

Operator Sewerage (Public Sewerage Systems)
Septic tank services

- local to central governance
- policy, regulation, institutional
- co-management
- private sector involvement
DESLUDGING:
1994 SHIFT

FROM (Local Authority)
• Demand emptying
• Payment on service
• No treatment

CONCESSION (Utility company)
• 100% scheduled emptying (2 year intervals)
• Monthly Tariff
• Treatment of all sludge

ISSUES
• Database
• Tankers
• Treatment facility
• Refusal

Success rate 30%
DESLUDGING

PRIOR TO 1994
- Local bodies
- Demand Emptying
- No treatment

1994 TO 2008
- Scheduled Emptying: by utility
- Monthly tariff
- Sludge treated

POST 2008
- Liberalisation
- Owner may call any permit holder
- One off charges
- Sludge treated by utility

NEW REGULATION
- Utility to schedule
- Outsource emptying / transport to permit holders
- Sludge treated by utility
- Monthly tariff
DEDICATED SLUDGE FACILITIES

TREATMENT FACILITIES WITHIN SHORT DISTANCE OF ALL AREAS
INCREMENTAL INTRODUCTION OF TECHNOLOGIES
ENSURING QUALITY & COMPLIANCE OF NEW INFRASTRUCTURE
development control system, planning system coordination

✓ Approval: planning, design, inspection, commissioning and handover
✓ Guidelines, monitoring and oversight
✓ “Qualified person”, licensed contractor, approved products
COST RECOVERY CONSIDERATIONS

- Very low, but resistance from users
- Difference for demand vs scheduled
- Decouple charge & service
- Joint billing
WHAT WORKED

- Governance, regulations, institutional
- Private sector involvement
- Incremental technologies
- Stakeholder engagement
- Ensuring quality of containments
- SOPs, procedures
WHAT DID NOT WORK

- Big bang approach
- Lack of awareness programmes before the start
- Charging schemes
- Institutional inequity
thank you