

Cooperation AIT – BORDA on the application of FSM Toolbox in Project Cities (Baseline Assessment)

Marina Brueckner-Supriyono; Isha Basyal

Thammarat Koottatep, Yuttachai Sarathai, Atitaya Panuvatvanich, Nitasha Arora, Bounchan Khamphilayvong, Yengher Vacha

BORDA, AIT





AIT-BORDA Cooperation:

"Regenerative Sanitation Knowledge Hub"

- Testing site for Decentralized Wastewater
 Treatment Systems
- Demo / training site for Decentralized
 Wastewater Treatment Systems
- Quality Management for on site / decentralized systems in Southeast Asia
- Setup liaison of Good Practices and standards to donor community
- Joint application and dissemination of Best Practices on tools, modules and service packages (e. g. FSM Toolbox)











FSM Toolbox:

<u>Demand-driven "One-stop database"</u>

Necessity to enhance the capacity of FSM Practitioners



A common platform for easy accessibility to FSM Resources



www.fsmtoolbox.com

Fill in the existing **gaps**





Program Workflow & Tools

FSM Program Workflow

Exploratory Study

FSM Media

Capacity Building

Advocacy

2 Country Strategy Programming

- 3 Defining the Need & Scope of Strategies
- 4 Strategy Design Options
- 5 Appraisal & Approval
- 6 Implementing the Strategy
- Operation & Maintenance
- 8 Monitoring
- 9 Review & Correct

Tools and document resources laid out along the workflow















8 Interactive Tools and over 200 Resource Documents



Situational Assessment Tool

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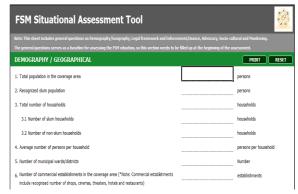


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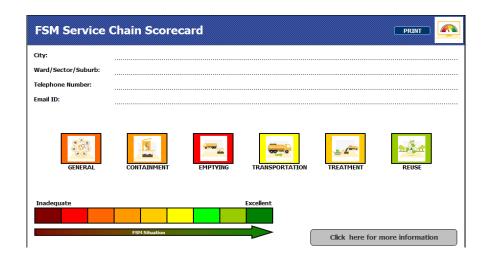


Situational Assessment Tool

- Diagnostic tool to assess various aspects along the service chain (containment, emptying, transport, treatment, reuse), e.g.:
 - Demographic and geographical
 - Legal Framework and enforcement
 - Finance
 - Socio-cultural aspects



FSM Service Chain Scorecard + Service Chain Report





Financial and Technical Assessment Tool

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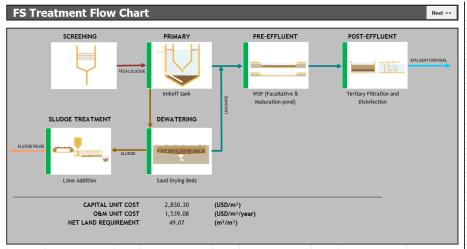


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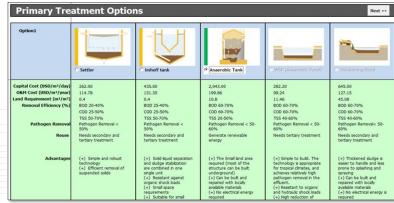


Financial and Technical Assessment Tool

- Diagnostic tool to identify technical and financial viability, regarding e. g.:
 - FS Volume
 - Number of trucks
 - Treatment technology
 - Cost & financing, debt, revenue
- Dashboard display of selected technologies and financial projections





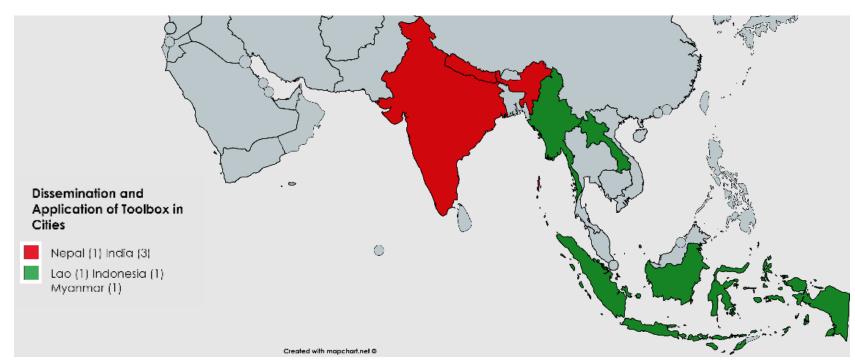




FSM Toolbox:

Dissemination and application

- 1 city each in Laos, Indonesia, Myanmar in collaboration with BORDA
- 33 Indian and 1 Nepalese cities in collaboration with CDD Society (Bangalore)





Application of baseline assessment tools

Sanitation situation in cooperation cities

Luang Prabang (Laos)

- Ca. 60.000 inhabitants
- Most households equipped with septic tank
- Desludging services provided under Local governmental setup
- Sludge disposal into facultative aerobic lagoons
- Master Plan for Drainage and Sewerage Systems

Sleman (Indonesia)

- Ca. 1.135.000 inhabitants
- Septic tank coverage: 78%
- Desludging services provided on on-call basis
- Sludge partially treated in regional treatment plant (30km distant)
- City Sanitation Strategy (1 FSM plant to be constructed in 2017; more to follow)

Application of baseline assessment tools General Findings

FSM Toolbox

- Compiles Local Governments' needs for comprehensive FSM planning tools
- Demonstrates of the complexity of FSM
- Provides comprehensive orientation for FSM baseline assessment as basis for planning
- Supports completion and verification of existing data
- Triggers Local Governments' needs for interventions or improvements as it indicates gaps and deficiencies

Application of baseline assessment tools General Findings

FSM Toolbox

- Requires and fosters participatory application
- Enhances Local Governments' capacities
- Allows for flexibility in terms of progressive implementation (technical / budget-wise)
- Provides academia with experiences from practitioners for further development of the tool



Application of baseline assessment tools Challenges

- Perception on the purpose of the FSM Toolbox
- Availability, completeliness, accuracy and validity of data
- Existing targets (scope of interventions, priorities), set of actions, planning, design and/or implementation
- Language barriers



Application of baseline assessment tools Lessons Learnt

- Early application of baseline component
- Participation of all relevant stakeholders
- Application of advocacy and awareness raising media
- Couching by 3rd parties is a supporting factor
 - Support with development of data collection and validation approaches
 - Guidance for further interventions



Outlook

- Further development of FSM Toolbox
 - AIT to further cooperate with BORDA and other organizations to improve the FSM Toolbox
 - Guidelines for data collection methodology and validation
 - Set up regional expert pool to facilitate FSM toolbox application
- Further application in several cooperation cities in Southeast Asia as essential module to manage urban waters in an integrated manner





Conclusion

Food for thoughts:

"A tool is a tool, it is not the solution!

Empower those in charge of FSM to apply a comprehensive tool in a smart way."





Thank You!

BORDA Southeast Asia / Indonesia

Jl. Kaliurang km 6.6, Kayen

No. 176, Yogyakarta, Indonesia

Email: borda@idola.net.id

Phone: +62 (0) 274 888 273

www.borda-sea.org

BORDA Global TV:

https://www.youtube.com/channel/

UC6t uU1 fxVQwC286b0DxA

Asian Institute for Technology (AIT)

58 Moo 9, Km. 42, Paholyothin Highway, Klong Luang, Pathumthani 12120 Thailand

Phone: +66 (0) 524 5000

http://www.ait.ac.th



