

Governance of local scale sanitation: How to design governance for lasting service? Visual resource for workshop, guided stakeholder discussion and group/individual reflection

GUIDANCE MATERIAL: PRESENTATION





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Disclaimer:

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This guidance was developed from a synthesis of a three-year transdisciplinary action research project (see communitysanitationgovernance.info).

To monitor the impact of this guidance material, we are keen to gather feedback on what resonates and what is missing. If you have comments or suggestions, please contact us (see the last slide).











OVERVIEW

Structure of Guidance

1. INTRODUCTION

- a. What is Governance?
- b. Why should we improve Governance of local scale systems?
- c. How do we improve Governance of local scale systems?

2. WHAT TO GOVERN?

- a. Introduction of Governance Dimensions (technology, finance, users, management)
- b. Activity: Exploring 'What' is and isn't governed

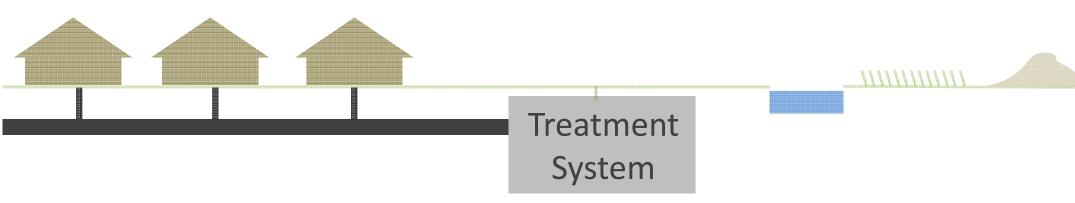
3. WHO SHOULD GOVERN? AND HOW?

- a. Activity: Exploring 'Who' governs now
- b. Strategies for strengthening *CBO-led approach*
- c. Drivers for increasing Local Government's Role
- d. Activity: Exploring co-management
- e. Strategies for *Co-management approach*
- f. Strategies for *Institution-led approach*
- g. Activity: Exploring Institution-led

The focus of this guidance is on 'local scale' systems, which have many names.

- ☐ Community-based (SANIMAS)
- DEWATS
- ☐ Simple Sewer System/MCK

- Services < 200 households (hh)</p>
- Decentralised
- ✓ Local scale



This guidance uses the term 'local scale' as it recognises that other groups can Operate and Manage this scale of service along with, or instead of, community.

Expectations for using these materials

- The guidance is designed to be participatory jump in with colleagues and have fun!
- The guidance strives to develop new and strengthen existing partnerships
- Be curious and discover new ideas
- The guidance tests assumptions it could be a little bit uncomfortable, which means it is good for learning

1. INTRODUCTION

1. INTRODUCTION

What is Governance?

Governance is the:

Day to day activities that ensure system functionality +

Formal and informal institutional arrangements that help or hinder the day to day

Improving governance means paying attention to:

- 1. What needs attention
- 2. Who has what responsibilities and how those responsibilities happen in practice

1. INTRODUCTION

Why improve Governance of local scale systems?

The goal of sanitation (sewage management) is to separate people from pathogens (harmful microorganisms) in our excreta, and to protect the environment.

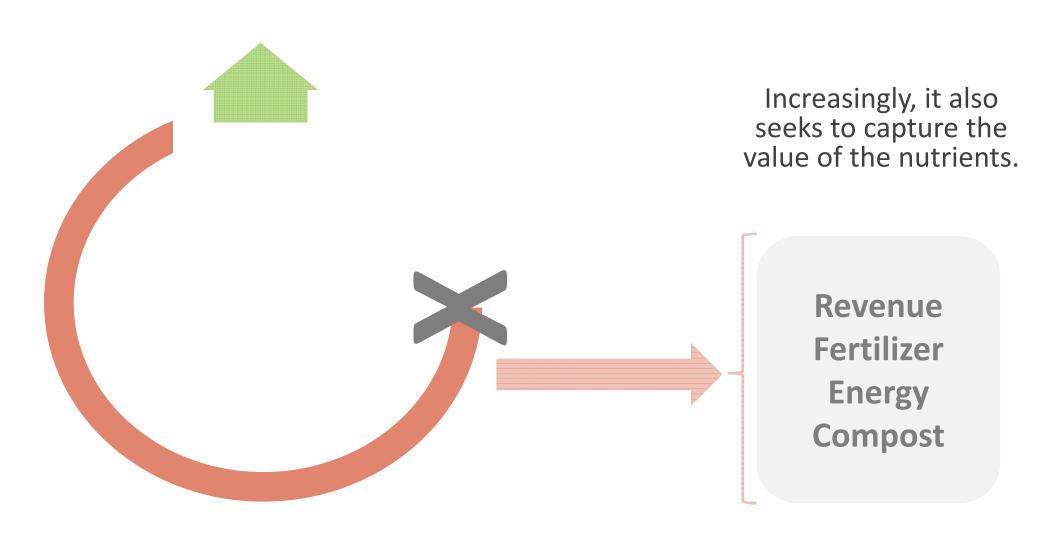
But, for the local scale systems in Indonesia:

- Actual use is about half of what was designed.
- Most CBOs cannot manage hard tasks. Many fail financially.

This means many local scale systems may not achieve separation outcomes.

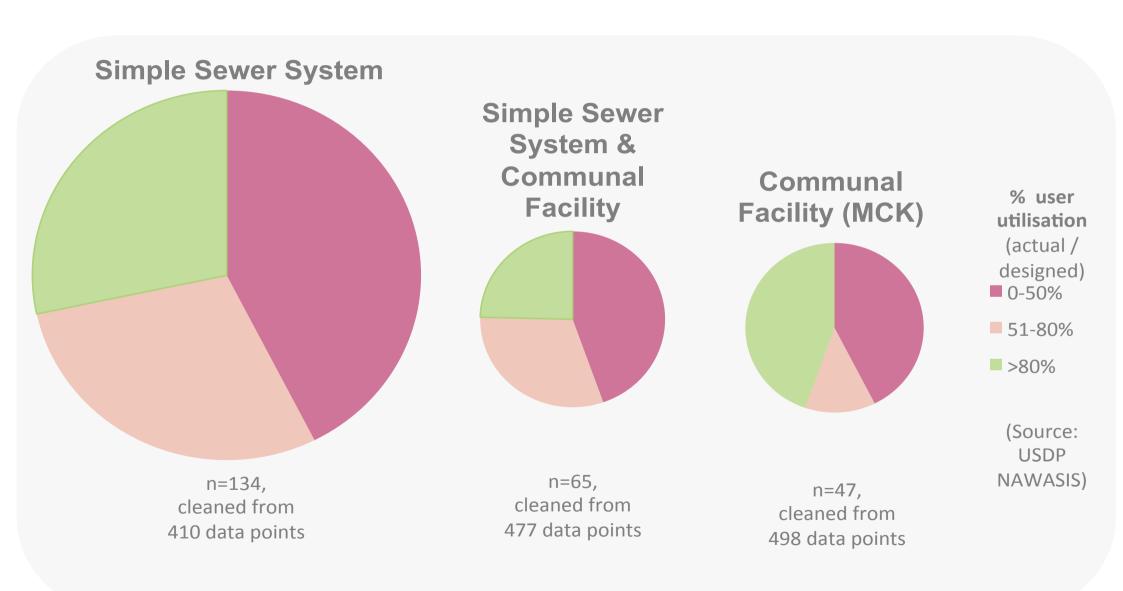
However, local scale systems can be a core part of sanitation services, if managed well.

The fundamental outcome of sewage management is to separate people from excreta, and protect the environment.



To achieve separation we need to help systems operate successfully in the long-term.

The actual average use of local scale systems could be about half of system design.



CBOs have difficulty managing many important tasks.

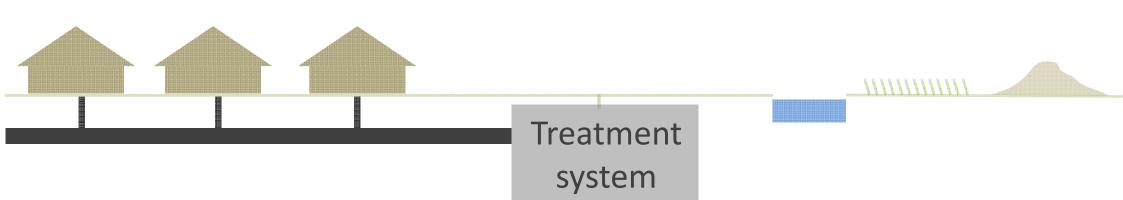
	Challenging tasks
Successful operation	☐ Monitor effluent quality☐ Major repairs and rehabilitation☐ De-sludge every 2-4 years
Sustainable financing	☐Collect user fees and sufficient income ☐Budget for major expenses, emergencies
Sustaining demand	☐ Educate about benefits of service to maintain motivation of users
Effective management	☐ Fund / pay operator ☐ Ensure operator legitimacy in community

(Source: AKSANSI)

As governance improves, the benefits of local scale systems increase.

Local scale has many benefits compared to centralised:

- ✓ Easier to install in existing areas
- ✓ Easier to finance
- ✓ Simpler to operate
- ✓ Less consequences when things go wrong
- ✓ Can be connected up as financial and institutional capacity improves



1. INTRODUCTION

How do we improve Governance of local scale systems?

How do we improve Governance of local scale systems?

1 - Pay attention to "WHAT" needs to be governed:

Functioning technology

Sustainable financing

Effective management

Sustaining demand

2 – Clarify "WHO" should govern and "HOW":

CBO-led

Co-management

Institution-led

To help local scale systems operate successfully for decades, governance (the way we look after them) needs to improve.

There is a range of ways to do this – we can think of these **approaches** as a **spectrum** of governance models. They are not mutually exclusive.

In this guidance, we will explore each of the approaches within the spectrum and various strategies within each approach.

CBO-led

Co-management

Institution-led

It's like a toolbox....

CBO-led

Co-management

Institution-led

Authority in tariff setting and fee collection

Matching innovative financing to need

Building innovation entrepreneurs

Strengthening CBOs

Building a network of support

Comanagement with LG Formalising PPPs

Assigning riskbased responsibilities

It's like a **toolbox**....One **Local Government** might try these strategies based on their needs and strengths.

CBO-led

Co-management

Institution-led

Authority in tariff setting and fee collection

innovative financing to need

Building innovation entrepreneurs

Strengthening CBOs

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It's like a **toolbox**....Another **Local Government** might try these strategies based on their needs and strengths.

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Institution-led

Authority in tariff setting and fee

Matching innovative financing to need

Building innovation entrepreneurs

Strengthening CBOs

Building a network of support

Comanagement with LG Formalising PPPs

Assigning riskbased responsibilities

Where one Local Government sits on the spectrum,

this year and in the coming years, depends on their particular strengths, needs, and opportunities.

CBO-led

Co-management

Institution-led

The purpose of this guidance is to help **Local Governments** explore what **tools** might help them improve the management of these systems based on their unique context.

CBO-led

Co-management

Institution-led

Authority in tariff setting and fee collection

Matching innovative financing to need

Building innovation entrepreneurs

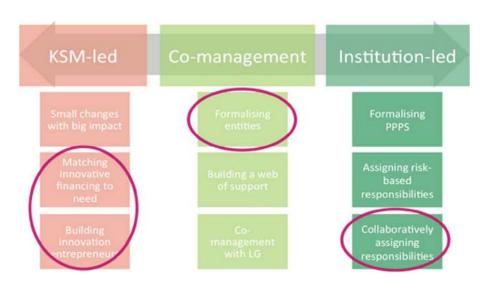
Strengthening CBOs

Building a network of support

Comanagement with LG Formalising PPPs

Assigning riskbased responsibilities

The best approach is working out what fits in your context.



2. WHAT TO GOVERN?

2. WHAT TO GOVERN?

Introduction of the Governance Dimensions

What to govern?

Functioning technology:

Ensuring the physical system delivers the service

Effective management:

Accountable and equitable administration and decision making system

Sustainable financing:

Sufficient ongoing revenue to cover all short and long-term operational cost elements

Sustaining demand:

Maintaining effective community demand for the service over time

Each of these areas needs to be considered during the Operation Phase to achieve successful service delivery.

These dimensions (1) remind us what to monitor and manage and (2) help diagnose issues of local scale service.





Functioning technology:

Ensuring the physical system delivers the service

Sustainable financing:

Sufficient ongoing revenue to cover all short and long-term operational cost elements

Effective management:

Accountable and equitable administration and decision making system

Sustaining demand:

Maintaining effective community demand for the service over time

The dimensions provide helpful guidance on what to monitor.

Functioning technology	Systems operating as designed within acceptable loading range
	Systems operating as designed - effluent quality meets standards
	Regular & periodic maintenance (e.g. sludge & scum) occurs as required
Sustaining demand	Accessibility: Planned vs actual users/connections (long term)
	Availability: System always/sufficiently available.
	Acceptability: Users satisfied with system
Effective management	Functional management structure
	Scheduling, implementing, and monitoring operations (Systems in place for dealing with major repairs)
	Sufficiently skilled and active operator
	Structures for accountability to stakeholders
Sustainable financing	Sufficient income to cover monthly expenditure
	Finance available for major repairs

2. WHAT TO GOVERN?

Activity: Exploring 'What' types of governance challenges exist

Activity: Exploring the Operation phase in your context

Thinking about the local scale sanitation systems in your Local Government, or local scale systems generally:

Step 1. Using a black pen:

 Draw or write down everyone who can control or influence the operation of the local scale systems in your context. Think broadly, beyond just 'operator', and be specific e.g., the tofu factory that connected last year, the local health inspector, etc **Activity:** Exploring the Operation phase in your context

Step 1. Who has **control or influence** in the operation of the DEWATS systems in your context?

Step 2. Using a **red** pen, draw or write out the problems that are commonly experienced in your model/scenario after construction:

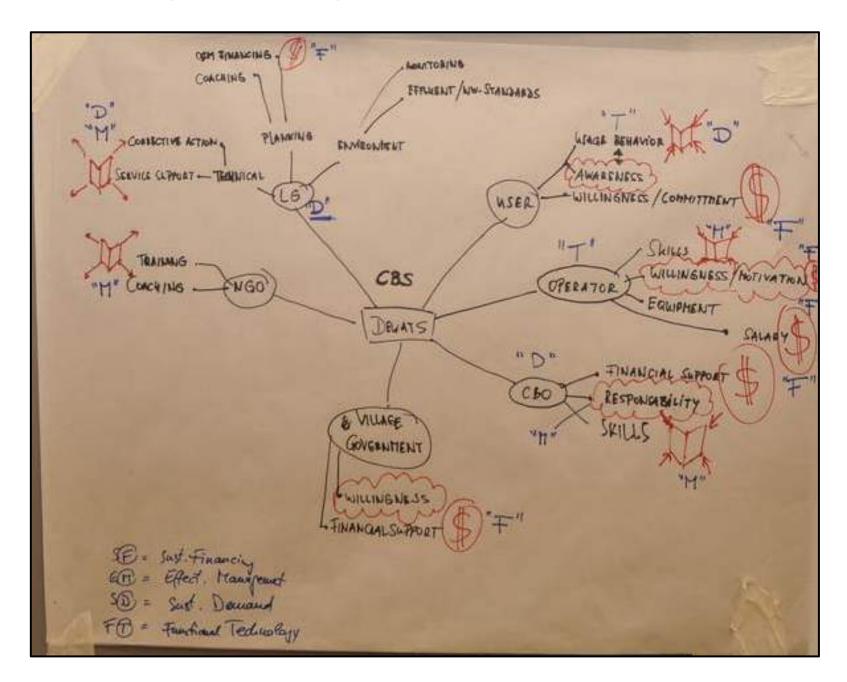
- What are the biggest barriers after construction?
- What hinders ongoing operation in your part of the world?

Activity: Exploring the Operation phase in your context

- Step 1. Who has **control or influence** in the operation of the DEWATS systems in your context?
- Step 2. What problems are commonly experienced?
- **Step 3**. Using a **blue** pen and thinking about the Governance Dimensions (technology, finances, demand, management):
- How would you categorise these types of problems according to the Governance Dimensions?
- Also, when thinking about these dimensions, do they prompt you to think of other types of issues? Do these categories identify other gaps?

Example: This is one way to draw the local situation

- there are many other ways.



Reflection: Exploring the Operation phase in your context

- Discussion/reflection questions:
 - Was anything surprising about this activity?
 - What types of governance issues were most frequent? Least frequent?
 - Did thinking about the Governance Dimensions help to identify other issues?
 - What do you think the benefits are of the Governance Dimensions as a tool?

3. WHO SHOULD GOVERN? AND HOW?

3. WHO SHOULD GOVERN? AND HOW?

Activity: How is governance currently arranged?

For this activity, you will need the gameboard of stakeholders and the game pieces of activities necessary for the Operation phase.

Local government:	Clean grease traps and dispose of material	_	Set user fee	_	Receive and address	Extend household connections
Dept. of planning	Small maintenance		Set user nee		complaints	connections
Dept. of infrastructure	(e.g. descumming or flushing)	_	Collect user fees	30	KSM monitoring	Ongoing socialisation
Dept. of environment	Large maintenance (e.g. broken manhole)	-	Pay operator salary	-	KSM award	Conduct health campaigns
Dept. of health	Unblock pipes	-		_	KSW award	
Technical unit	Asset replacement (e.g. broken pump)	_	Manage finances (accounting, forecasting, saving)	97 —— 7	Provide technical support	Clean MCK
Village leader	Desludging	_	Budget planning	_	KSM capacity development	
Neighbourhood leader	System rehabilitation	_	Manage bank account	_	Ensure knowledge sharing among KSMs	
сво	Effluent quality					
Private sector	monitoring	 -	Pay electricity bill	_	Record keeping	
NGO	System quality monitoring (checking for cracks, leakage)	-		_		
Other?						

And you will place the activities next to the stakeholders based on how you think governance currently works - that is based on who is currently responsible for which activities.



Activity: Exploring what happens now in your Local Government (or in Local Governments generally)

- Look at the stakeholders rename them so they represent your experience.
- Look at all of the activities.
- Put each activity next to the stakeholder who is responsible for doing it.
- Are any activities missing? Add them.
- How different does the distribution of activities look if they are placed according to what should happen in theory versus what actually happens in practice?

Reflection: Exploring what happens now in your Local Government (or in Local Governments generally)

- Discussion/reflection questions:
 - Was anything surprising about this activity?
 - Who has most responsibilities placed next to them?
 - Who, besides CBOs, has responsibilities? What do they do?
- Take pictures of your gameboard

3. WHO SHOULD GOVERN? AND HOW?

Strategies for strengthening the CBO-led approach

Next we'll focus on why and how to improve the CBO-led approach to governance of local scale systems.

CBO-led Co-management Institution-led

CBO-led

Authority in tariff setting and fee collection

Matching innovative financing to need

Building innovation entrepreneurs

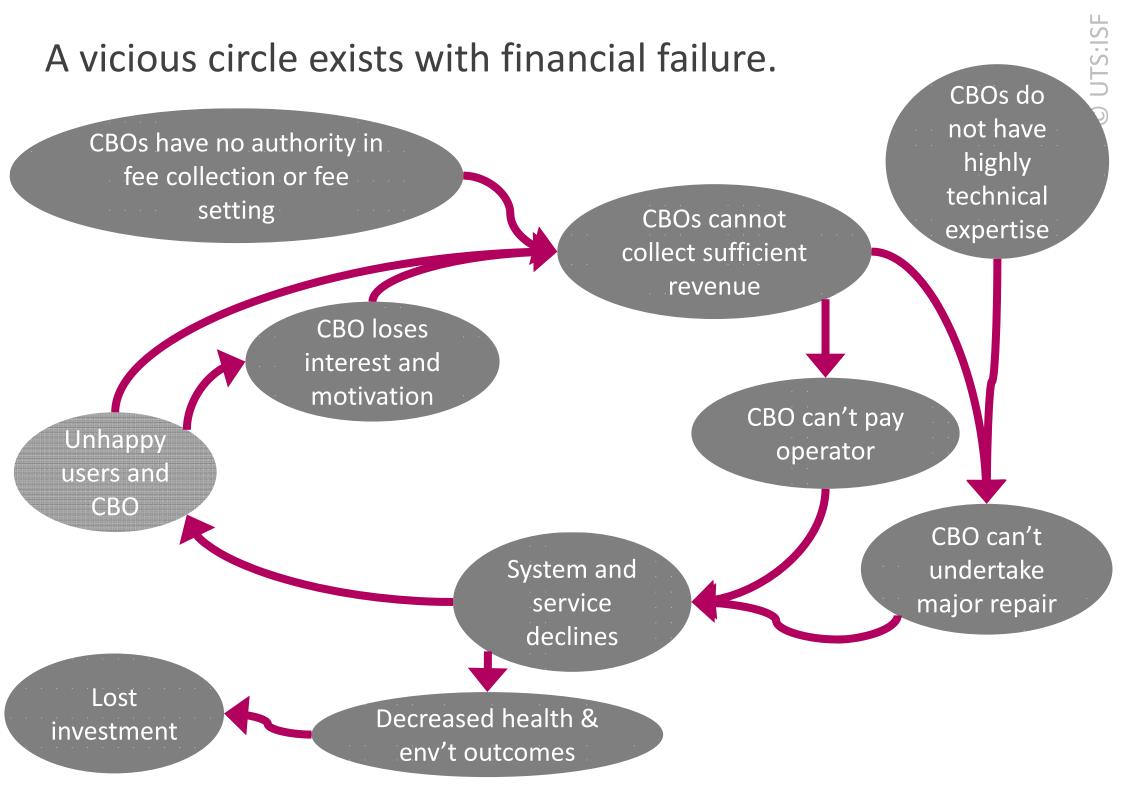
Authority in tariff setting and fee collection

Formalise fee levels:

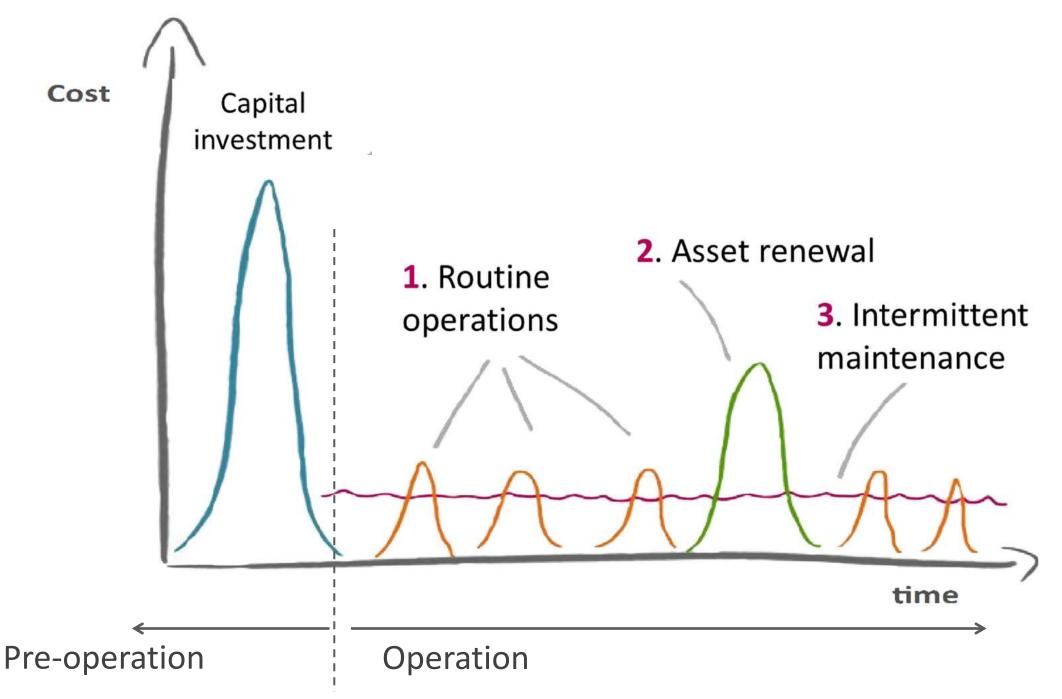
- Who currently sets fees and how much authority do they have?
- Who has enough authority to set higher fees and incentivise users to pay?

Fee collection:

- Who currently collects fees?
- If a community member, what if someone else, with authority, collected the fee?
 What could that look like? Who could that be?



There are three types of costs to pay during Operation.



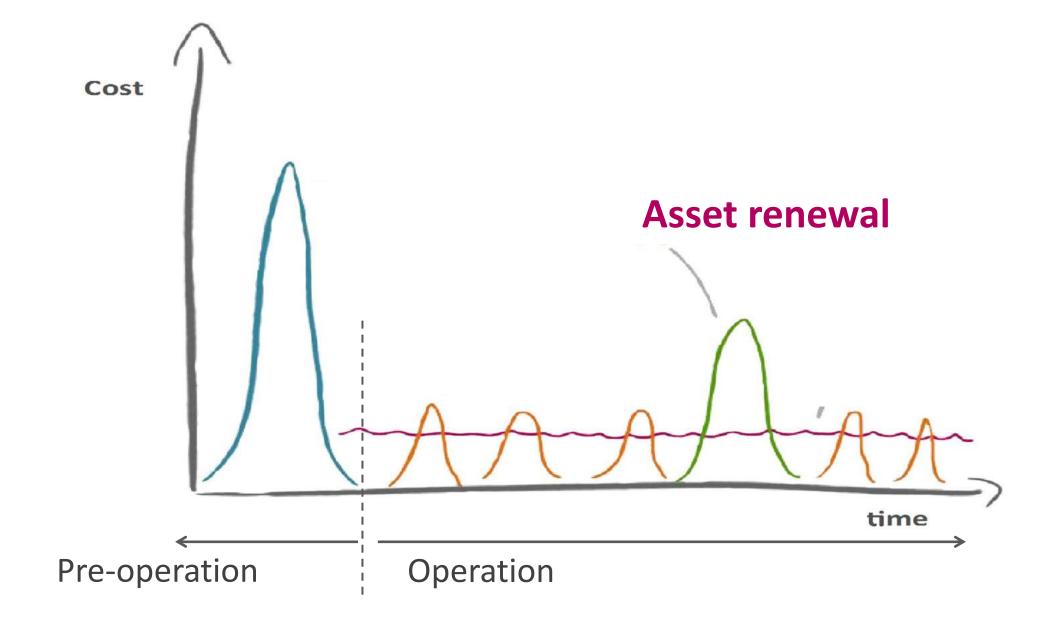
Typical user fees are insufficient to meet routine costs, or CBO voluntary time.

ROUTINE COSTS	IDR/month	Voluntary time (days/month)
Administration		10
Operator	IDR 200,000	9
Electricity	IDR 120,000	
Goods	IDR 40,000	
Total	IDR 370,000	19
Total per hh	IDR 6,000 / hh	
USER FEE	IDR 5,000 / hh	

Intermittent costs can be as high as IDR 3M and are generally beyond CBO revenue / finances.

	Cash (IDR)
Pump repairs	100,000 - 500,000
Pump replacement	500,000 - 3,000,000
Pipe repairs	100,000 - 600,000
Desludging	100,000 — 1,000,000

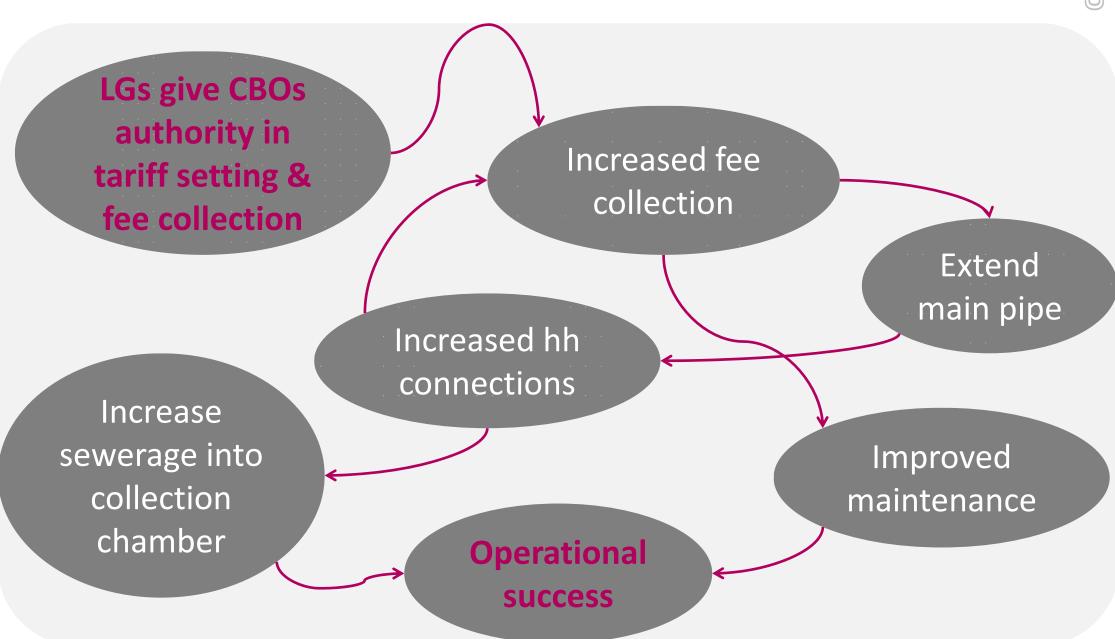
Asset renewal costs are the largest, and also beyond CBO revenue.



Increasing the **tariff** and **collection rate** from users can help CBOs meet routine and intermittent costs.

Costs (IDR)		Income per month (IDR)	
Operator	200,000/mo	A) Lower rate (IDR 2,000) & 80% collection	
Desludging	1 M/yr	TOTAL	160,000
Effluent testing	300,000/yr	OR	
Other (eg gloves)	50,000/mo	B) Higher rate (IDR 5,000) & 100% collection	
TOTAL	400,000 /mo	TOTAL	500,000

One suggestion is to give CBOs authority in tariff setting and fee collection. It can improve operational success in several ways.



CBO-led

Most CBOs in our research found income and revenue the biggest

They could not regularly pay the operator and the CBO members were volunteers.

O&M costs often could not be covered in full.

challenge.

Intermittent costs and Asset Renewal costs were generally either not met or paid by CBO members.

IMAGINE IF THE OPERATOR AND THE CBO WERE PROPERLY PAID FOR ALL THEIR TIME AND EFFORT - HOW GOOD WOULD THAT BE?

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DISCUSSION

For CBOs who experience financial problems, which options do you think could best help them increase revenue and why?

AU I	HORITY IN FEE COLLECTION
	Collection by person of authority in uniform – who?
	Fee combined with other bill (e.g. electricity or water
	Fee sent and received electronically (e.g by app)
	Pay through phone credits
	Pay at pay points
	Other? (What's your idea?)

AUTHORITY IN SETTING LEVEL OF FEE

- Heads of the neighbourhood, village, or local government parliament, or mayor setting the fee in local regulations?
- Other? (What's your idea?)

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REPORT BACK

Which option do you think could best help CBOs increase revenue and why?

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	Heads of the neighbourhood, village, or local government
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	Other? (What's your idea?)

CBO-led

Matching innovative financing to need

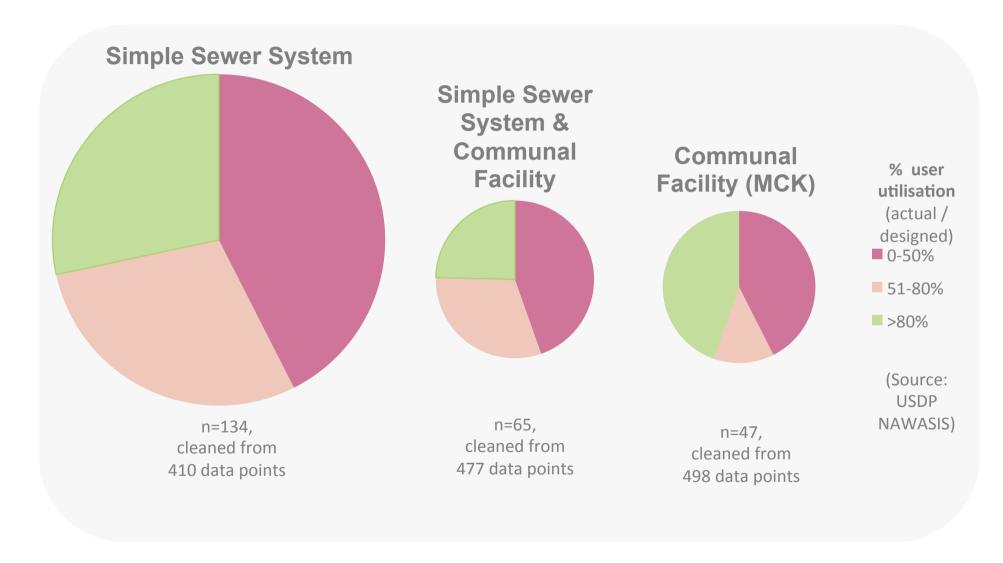
Identify funding required

- Additional household connections connections
- Major repair
- Retrofitting communal to hybrid
- Revenue generation

Raise funds in innovative ways

- Micro-finance
- Credit cooperative
- Arisan (shared local lottery)
- Corporate social responsibility

The actual use of local scale sanitation systems could be about half of design capacity for many systems



After systems are constructed, most CBOs do not have finances to extend to new households.

Our research collected examples of innovative financing.

- Micro-finance
- Credit cooperative
- Arisan
- Corporate social responsibility

Micro-finance

- Kandiri has "programmatised" micro-credit. As part of an election commitment, the mayor has promised that every RT will get IDR 50M per year to support basic needs, including sanitation. This is allocated from APBD for community empowerment. This is a possible source of funds for household connections and to optimize connections. On average there are less than 10 household connections per system, but there should be about 40.
- Bandung and Jombang provide funds to the local bank (~IDR 5B/yr). The Java Bank then provides the microfinance scheme for sanitation.
- Water.org collaborate with local micro finance institutions (e.g., banks) to conduct market research and design new financial products to enable households to invest in accessing water.

Tangerang has a credit cooperative.

- People have to pay in for the first year before they get credit from the cooperative.
- The first credit provided to a member must be for an activity that generates money.
- They are building about 25,000 septic tanks, funded through the credit cooperative.
- Is is possible to do the same for local scale sewerage systems?

Arisan (lottery)

- A mechanism for financing through the community
- Case study in East Java for septic tanks
- A group of people contributed IDR 10,000 every month into a pool of funds and then draw to see who gets to use the total pool of funds first
- The families were drawing for a place in line to have a septic tank built
- This type of pooling of funds allows work/construction to begin immediately and people do not have to pay interest

DISCUSSION

CBOs need funds for repairs, connecting additional households, retro-fitting communal to combined systems

For CBOs who experience this, what form of innovative financing could work well and why?

- Micro-finance
- Credit cooperative
- Arisan
- ☐ CSR
- Other (What's your idea)?

REPORT BACK

For CBOs who experience this, what form of innovative financing could work well and why?

- Micro-finance
- Credit cooperative
- Arisan
- Corporate Social Responsibility
- Other (What's your idea)?

Building innovation entrepreneurs

- Renting additional stalls
- Micro-loans for fisherman
- Catfish ponds
- Fertiliser
- Services for others (desludging)
- Cassava and banana fields
- Biogas

Fruit and catfish ponds, South Sulawesi



Coordinated flushing to casava and bananas, Slemen, Java





Micro-credit, fish pond, soft loans, donors to community, Bogor Java





Women farmers, Slemen, Java



Other examples

- Renting space for additional stalls e.g., food
- Micro-loans for fisherman
- Services for others (desludging)
- Bottling and selling biogas
- Childhood office and classes, kitchen, social hub

DISCUSSION

Many CBOs have developed entrepreneurial activities in order to attract users and/or increase income, social acceptability and local economy.

Which of these options might be most interesting to CBOs you are familiar with and why?

- Renting additional stalls
- Micro-loans for community needs
- Catfish ponds
- ☐ Fertiliser
- Services for others (desludging)
- ☐ Agriculture, e.g. cassava and banana fields
- ☐ Childhood office and classes, kitchen, social hub
- ☐ Other??

REPORT BACK

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Which of these options might be most interesting to CBOs you are familiar with and why?

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- ☐ Fertiliser
- Services for others (desludging)
- ☐ Agriculture, e.g. cassava and banana fields
- Childhood office and classes, kitchen, social hub
- □ Other??

Are these 'CBO-led' strategies and tools helpful for Local Governments?

CBO-led

Co-management

Institution-led

It depends on the needs and strengths in each area!

Reflection questions for determining relevance to LGs:

How many CBOs struggle to pay operators and routine operations?



Authority in tariff setting and fee collection

How many CBOs would benefit from additional household connections, communal retrofit, etc?



Matching innovative financing to need

How many CBOs are enthusiastic and looking for other methods to 'grow' their services?



Building innovation entrepreneurs

3. WHO SHOULD GOVERN? AND HOW?

Drivers for increasing Local Government's role

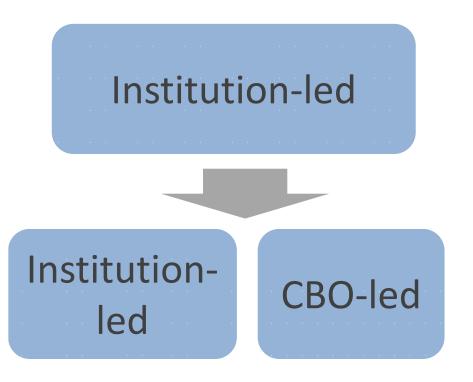
There are many different reasons for increased local government participation in Indonesia:

- Legal responsibility
- Institutional pressures
- Equity considerations
- Continued existence of effluent hazard during Operation
- CBO ability reasons
- Efficiency reasons
- Community-empowerment justification is changing

Legal reasons for increasing LG's role

Before 2003, Local Government was responsible.

The 2003 community-based water supply and environmental sanitation policy created a duality in national regulation.



This duality created challenges, for example:

- The legal framework favours institution-based systems
- Ownership is legally unclear for community scale systems
- Enforcing service standards for CBOs is challenging and perhaps unreasonable
- CBO management is a significant burden and different from other scales of technology

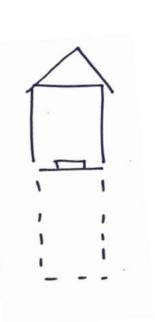
Across service scales, governance is often described as...

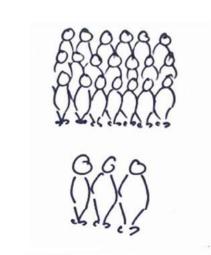
On site = householder

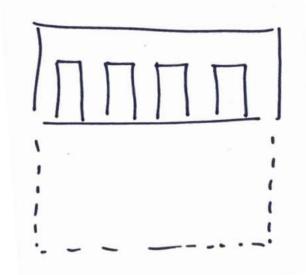
Local scale = CBO on behalf of community

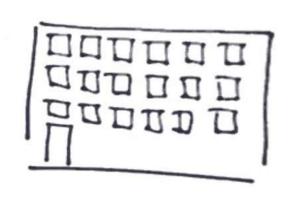
Centralised = Local Government

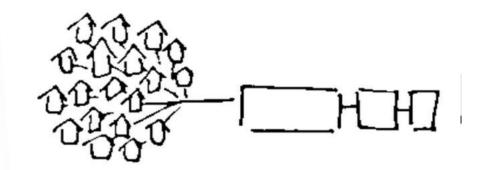








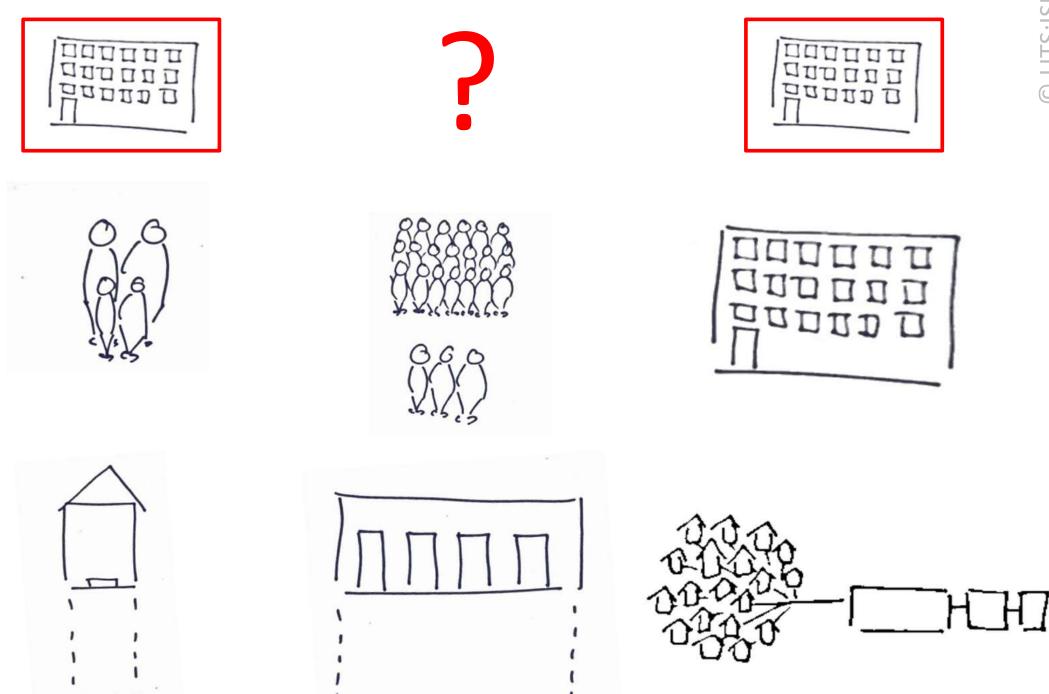




But, legally, local government is responsible.

Sanitation is described as a:

- Basic service (must be provided by local government)
- Mandatory (every region must carry it out)
- Concurrent affair (carried out by central + local government)



(Figure: T. Rosenqvist)

Governance should move beyond CBO-led because Local Government is legally responsible.

Therefore Local Government should be the "backstop", making sure services happen. This should not be left only to the community. At a minimum, all Local Governments should:

- 1. Map the status of existing local scale systems' technical, financial, management and user satisfaction performance
- 2. Ensure **support** (**financial**, **technical**, **physical**) is delivered to local scale systems for optimisation (e.g. 100% capacity, communal retrofit, effluent monitoring, desluding, major repairs, etc)
- 3. Formalise fee setting and fee collection in line with cost-recovery principles
- 4. Develop a **priority list** of new investments and corrective actions for systems/areas that have a high Pathogen Hazard (see Mitchell et al 2016, Waterlines)

Institutional reasons for increasing LG's role

In the medium-term, institutional arrangements put Local Government in a pinch for supporting local scale services

Political drive for sustainable sanitation from national, provincial and regional leaders

Expectations that LG is guarantor of service delivery

LG

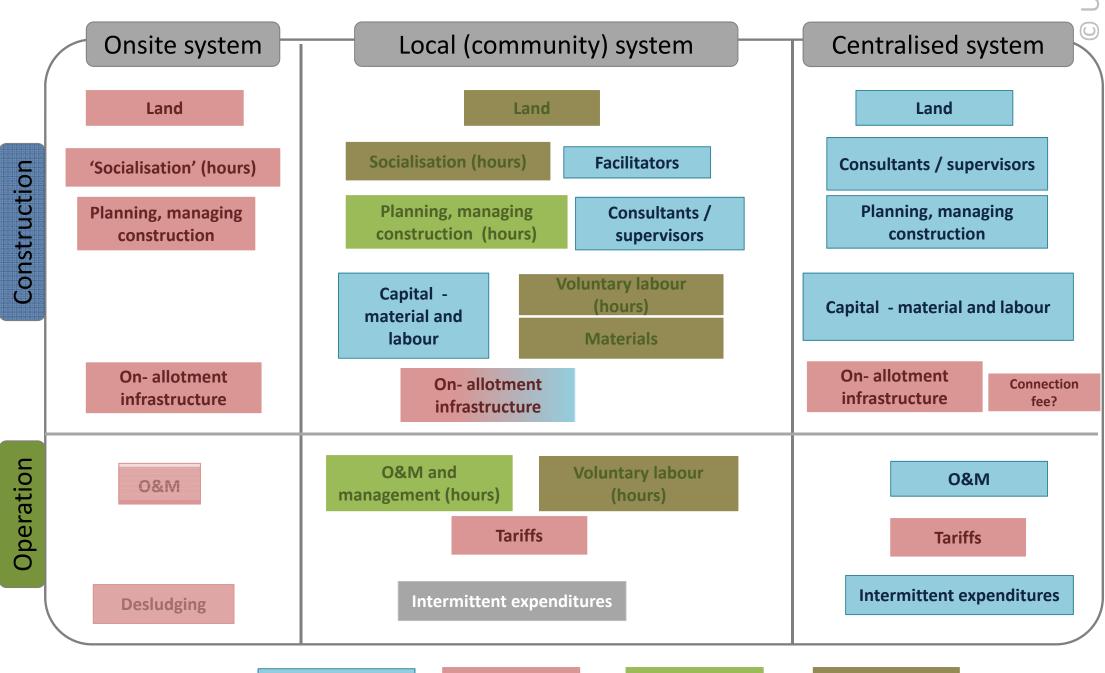
Expectations as a result of LG involvement in scheme construction

Ability of CBOs to sustain quality local scale services in the long term

Mason et al

Equity reasons for increasing LG's role

Poorer communities are typically asked to contribute more.



User

CBO

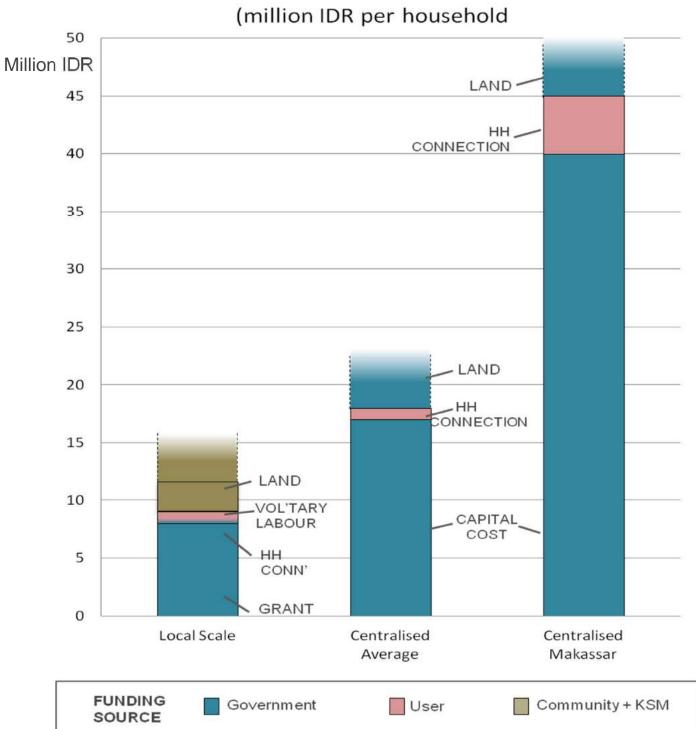
Community

Colour code:

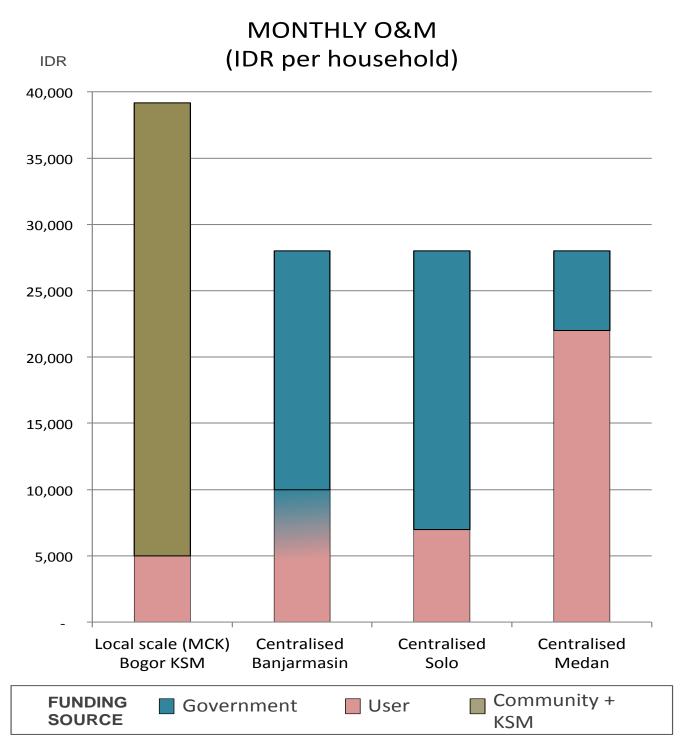
Government

CAPITAL COSTS

Poorer communities may receive less capital support and be asked to provide more.



Operation and Maintenance (O+M) costs are similar for MCK and centralised systems, but poorer communities are expected to fill the revenue-cost gap.

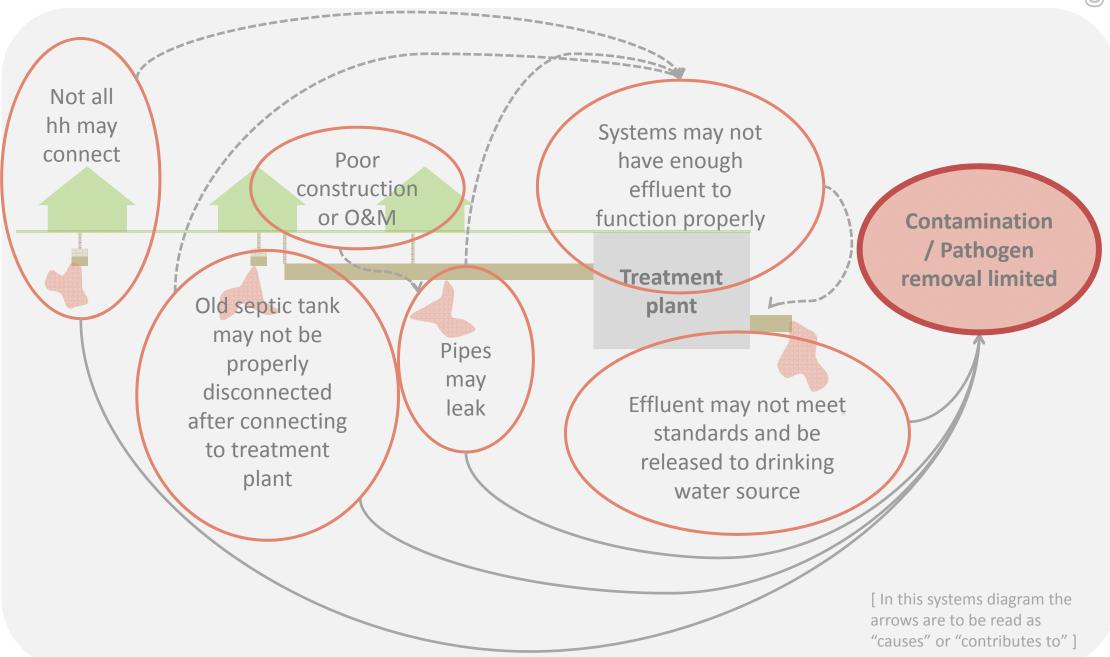


"...the people who are involved [in the operation and management of community-based sanitation] are not always people who are fully concerned about this issue. They cannot be focused on this, they have children, life, if they take care of this then they cannot eat."

Community Empowerment Officer, Bulukumba, Aug 2015

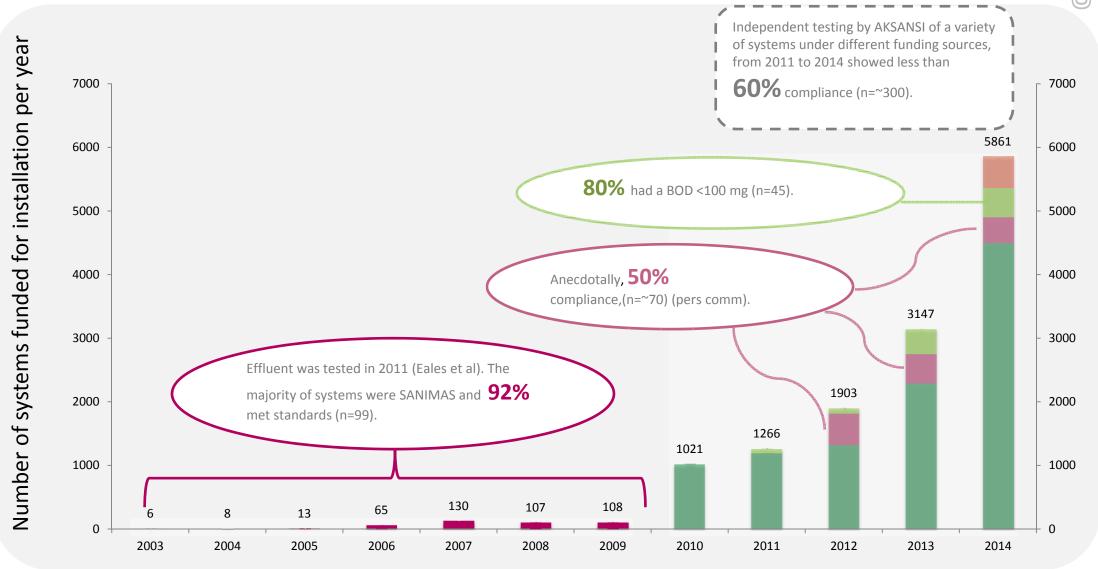
Effluent hazard reasons for increasing LG's role

Contamination can still occur after system construction.



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The available data indicates that technical performance is decreasing with increasing scale of implementation.



Stakeholders suspect this decreased performance is because of the decreased time communities have with facilitators and for their capacity building.

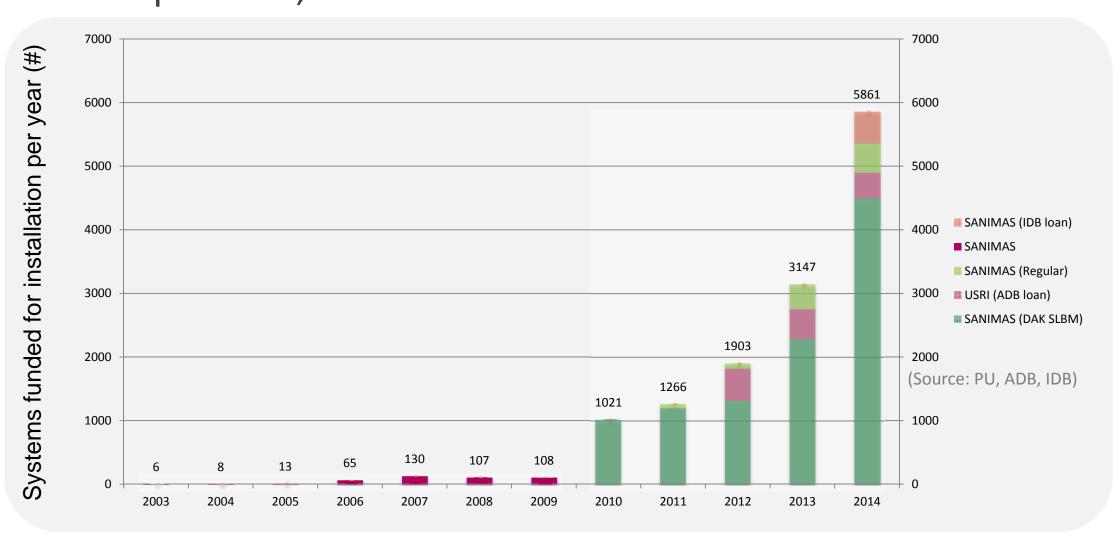
CBO ability reasons for increasing LG's role

CBOs has difficulty managing many important tasks, which can compromise on-going system performance.

	Manageable tasks	Challenging tasks
Successful operation	 ✓ Flush the system ✓ Check pipes for cracks ✓ Plan and track completed O+M tasks ✓ Fix blockages 	 Major repairs De-sludge every 2-4 years Rehabilitate unused facilities and systems Monitor effluent De-scum monthly Conduct biogas maintenance Deodorise the methane
Sustainable financing	✓ Keep records of group assets	 Collect user fees Plan & budget for major expenses, uncertainty, emergencies Source supplementary income streams Manage the treasury book & bank account Prepare financial accountability report Forecast recurrent costs
Sustaining demand	 ✓ Conduct health campaign ✓ Remind users of their responsibilities & provide support ✓ Conduct monthly users meetings ✓ Clean the MCK 	□ Educate about the benefits of the system
Effective management	✓ Keep complaint recording mechanism✓ Host regular meetings	□ Pay operator□ Ensure operator legitimacy in community(Source: AKSANSI)

Efficiencies to be gained by increasing LG's role

Might it be more sustainable and efficient for Local Government to work in partnerships rather than separately train up to 100,000 CBOs?



Community empowerment justification is changing

Initially community empowerment was a key outcome of community-based sanitation. However, two key features of 'community empowerment' have little relevance in practice

1. Behaviour change

SANIMAS original intent: discourage open defecation behavior and encourage use of toilets and improved hygiene through Communal (MCK) systems.

Now, only simple sewer systems (SSS) or mixed (communal/SSS) systems are built. Communal only in exceptional situations.

Where SSS built, people already have toilets, therefore the original intent of changing behaviour from OD is not necessary.

For people with toilets and onsite treatment or disposal, the next step is sewerage. For these people, comparing SSS with centralised, SSS costs them more in time and money, and provides them lower level of service.

2. Community provides land

Because most system are now SSS, where all the infrastructure can be underground, from 2016, having land is no longer a GoI (Ministry of Public Works) pre-requisite for a community to receive a system.

Local government is now able to provide public land (e.g., under roads or other public lands) which creates both a need and an opportunity for strengthening LG engagement and capacity.

KEY MESSAGE

Summary of reasons for increased Local Government participation:

- Legal responsibility
- Institutional pressures
- Equity considerations
- Continued existence of effluent hazard during Operation
- CBO ability reasons
- Efficiency reasons
- Community-empowerment justification is changing

These reasons for an increased Local Government role reveal opportunities for co-management and institution-led governance.

CBO-led Co-management Institution-led

3. WHO SHOULD GOVERN? AND HOW?

Activity: Under a Comanagement approach, how do you think responsibilities could be arranged? Activity: Exploring what co-management could look like in your Local Government (or for Local Governments generally) using the Governance Game again

- Look at all of the activities and stakeholders. Add or change activities and stakeholders to suit your situation.
- Put each activity next to the stakeholder who could be responsible for doing it, under a co-management scenario.

Reflection: Exploring what co-management could look like in your Local Government (or for Local Governments generally)

- Discussion/reflection questions:
 - Was anything surprising about this activity?
 - Who has most responsibilities placed next to them?
 - How is this mapping different from your previous mapping of who has what responsibilities?
- Take pictures of your gameboard

3. WHO SHOULD GOVERN? AND HOW?

Strategies for Co-management approach

Strengthening CBOs

Building networks

Comanagement

Co-management Sissing

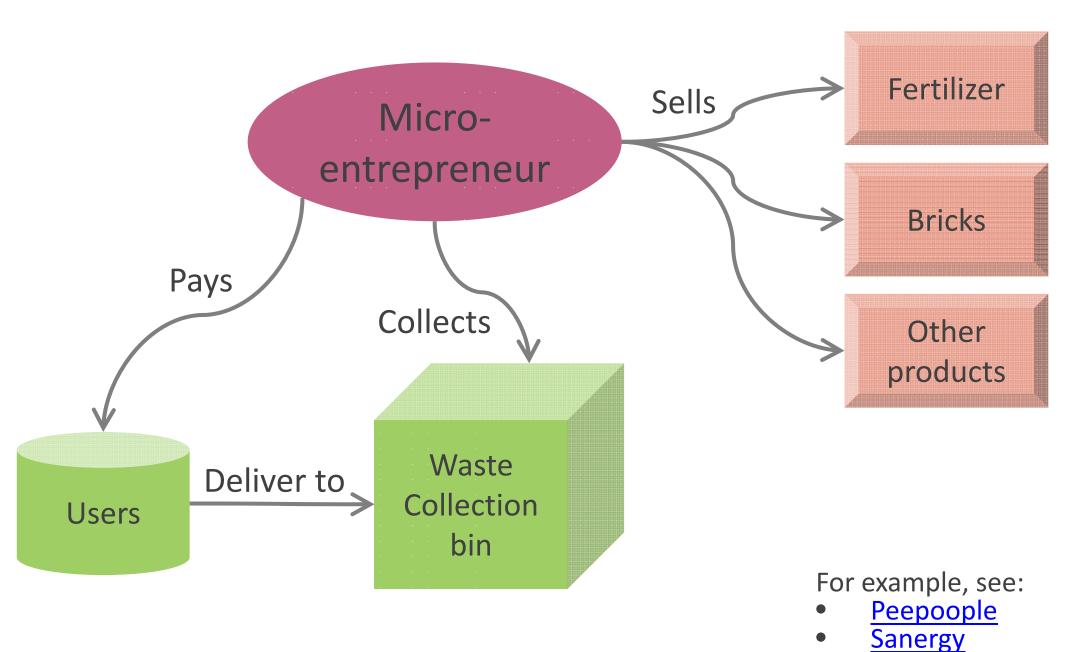
Strengthening CBOs

- Formalise entities (cooperative, association, village-owned enterprise) (see <u>Al Afghani 2015</u>)
- Provide template and training for business model / work plan, as opposed to a volunteer plan (see <u>Business Model Canvas</u>)

CBOs could legally incorporate as (see Al Afghani 2015):

- Association
- Limited liability company
- Village business entity (BUM Desa)
- Foundation
- Cooperative
- No legal entity is perfect
- Cooperatives and associations would be easiest
- Multiple CBOs could be amalgamated into a single legal entity at District or City level to simplify paper and procedure (but this also increases complexity)

Example: Flipping the incentives – micro entrepreneurs



Co-management

Building regional and national networks

Why:

- Coordinate across districts
- Achieve benefits of aggregating

Examples:

- AKSANSI national organisation
 (organisation supporting CBOs for sanitation)
- Brantas Watershed partnership
 (agreement among 16 LGs to address sanitation to improve the watershed)
- East Java association
 (regional community of practice for CBOs)

Co-management

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Co-management with LG

How could LG provide support for supporting activities or activities challenging for CBOs, such as:

- Major repair
- Monitoring
- Training
- Incentives (awards)
- Legally securing the land
- Regulation

In 2014, at least 19 LGs were providing financial support, mainly for meetings and awards.

A few supported local system operations with intermittent and asset renewal costs e.g., site repairs (IDR 170 M / USD 12,500); extending communal systems to new house connections (IDR 150 M / USD 11,000).



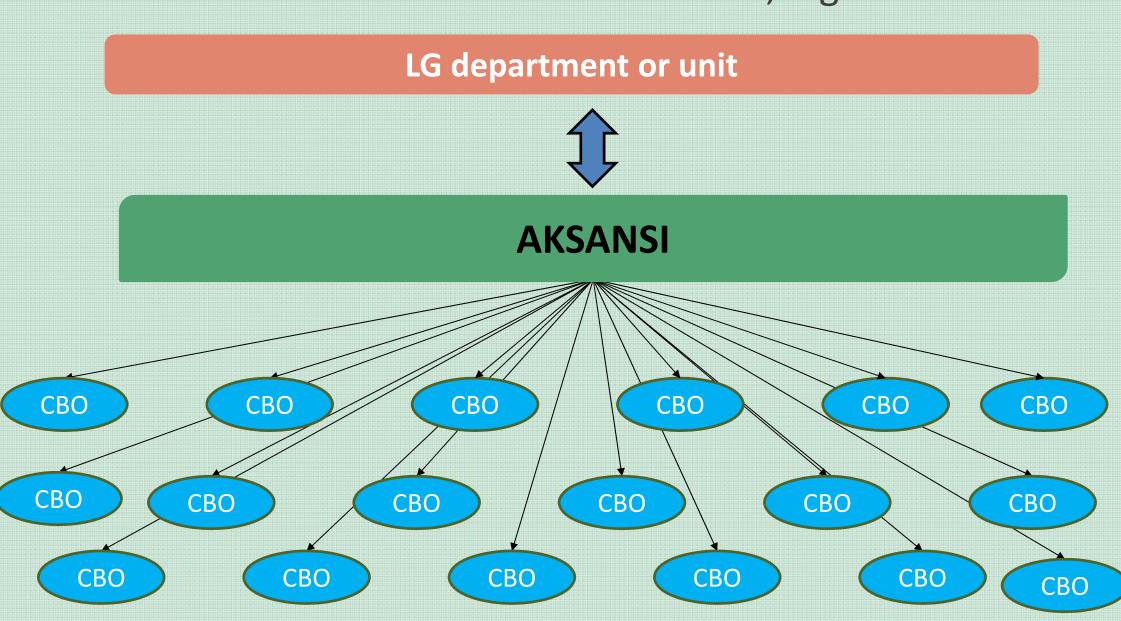


Small desludging vehicles and tanks purchased by LG for KSMs

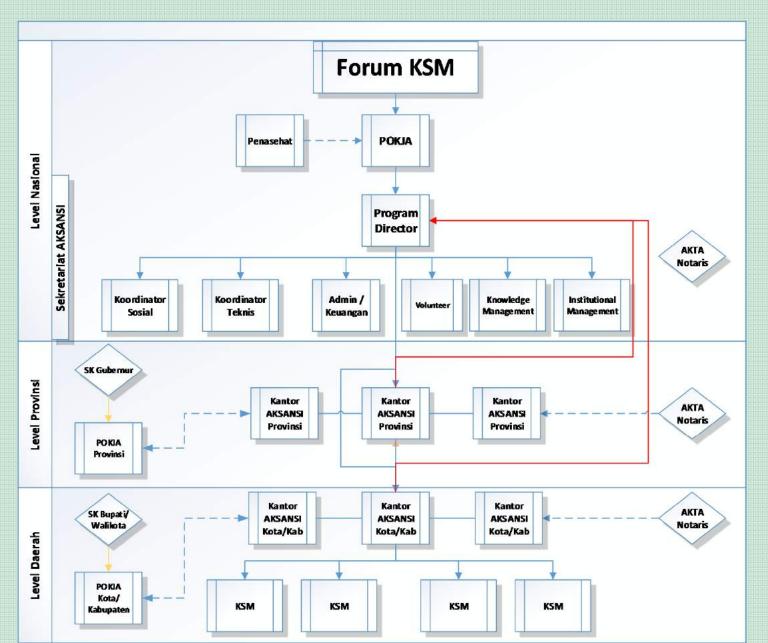
Co-management case study:

AKSANSI: Association for Community-based sanitation CBOs

Co-management can involve partnering with an external service provider (NGO, private sector) to act as a coordinator between the CBOs and Local Government, e.g.



AKSANSI Organizational Structure and Operating Model mirrors Indonesian government structure and budget flow



Funding from government and donors

AKSANSI in 28 Cities (Kota)/Regencies (Kab)

Kota Mojokerto

Kota Surakarta

Temanggung Kab

Kota Pekalongan

Kulonprogo Kab

Sukoharjo Kab

Kota Kediri

Sleman Kab

Barru Kab

Kota Pare Pare

Pinrang Kab

Soppeng Kab

Takalar Kab

Kota Bogor

Tangerang Kab

Bandung Kab

Jeneponto Kab

Bantaeng Kab

Bulukumba Kab

Kota Makassar

Sidrap Kab

Blitar Kab

Serang Kab

Lebak Kab

Malang Kab

Kota Malang

Kota Batu

Magelang Kab

Key objectives of AKSANSI

- 1. Create momentum and enthusiasm for Operation stage
- 2. Build capacity of CBOs and Local Government
- 3. Collaboratively monitor sites with Local Government
- 4. Operation phase socialisation and facilitation with CBOs
- 5. Advocate to LG and Government of Indonesia

Key AKSANSI tasks

- Branch Office + equipment
- Stakeholder meeting
- CBO Meeting 3x/year
- Premonitoring + monitoring
- Kab/Kota Awards
- CBO Refresher Workshops
- Incentives for Aksansi Branches
- CBO Operation assistance/facilitation
- Regular sludge check

- Regular National Coordination
- Marketing material distribution
- Identify innovations for high achieving CBOs
- Develop strategies for less optimum CBOs
- Increase household connections
- Joint fundraising for events

AKSANSI designs and delivers technical and management capacity building for 400-600 community leaders/year



AKSANSI facilitates, contributes to and tracks system rehabilitation and extension activities

- Rehabilitation Biogas 10 cities/regencies, 53 HH Biogas
- Rehabilitation Proposal of 8 CBO approved and financed
- Approved Pilot Project on Additional system improvement from existing Communal -> Mixed (add simple sewer)
- Piloting Smell trap installation in 2 CBO

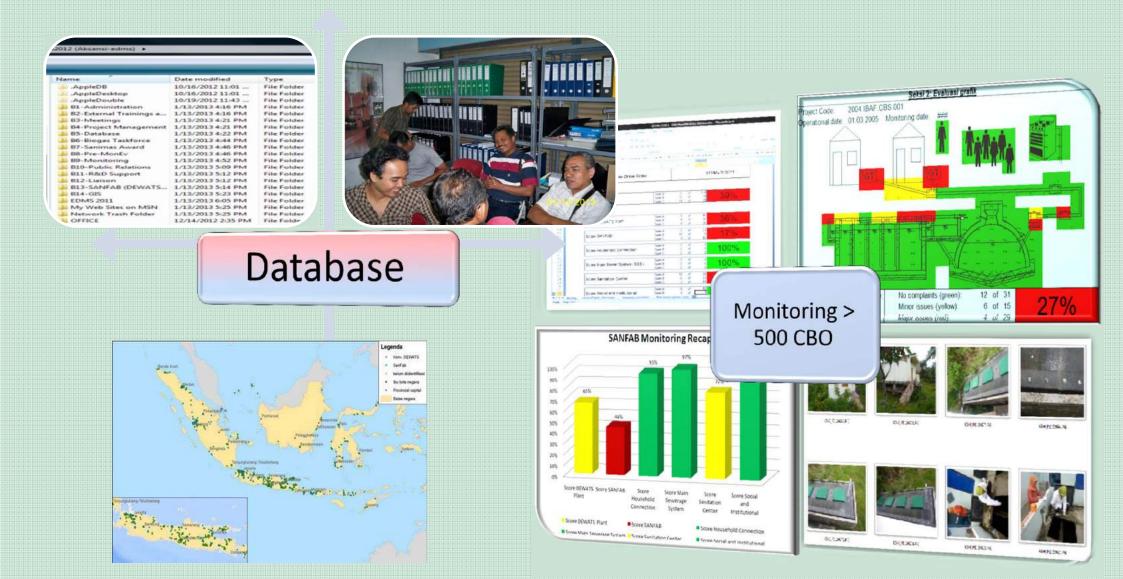
	Propinsi	Jumlah Biogas	Satgas	Qty Biogas	Biogas Dikunjungi Satgas	Problem Biogas			Biogas	Optimalisasi	Total SR hasil
			Biogas (Org)	wt Biogas TF		Teknis	Sosial	Lain	Dipakai	Biogas	Optimalisasi
Ji	awa Tengah	44	5	29	16	10	2	1	3	12	25
	DIY	21	2	17	3	3	-	-	-	3	3
Ji	awa Timur	121	9	87	15	8	6	-	1	8	16
Ji	awa Barat	50	8	34	50	41	1	2	6	6	9
В	BANTEN	19	3	16	-	-	-	-	-	-	
R	Region Jawa	255	27	183	84	62	9	3	10	29	53
					46%				12%	35%	

AKSANSI's rapid assessment program provides best available data on system status

- AKSANSI trains branches to undertake and report on rapid assessment of local system functioning
- Data collected through on-site interviews and calls
- As branch numbers grow, capacity for rapid assessment grows

Pre-monitoring Form	2011	2012	2013	2014	2014 + 2015
Send & via Calls	70	184	300	600	600
Target returned	70	125	250	400	400
Actual returned	35	67	297	380	380
Percentage	50%	54%	120%		95%

Monitoring and evaluation data is stored centrally; entered into bespoke GIS Database for analysis



Performance scoring from rapid assessment shows where action is needed: a powerful advocacy tool for engaging LG and directing their activities

No Nama KSM/KPP	Sistem	Tahun Proyek	Total	SR	SSS	MCK	Effluent	Biodigester	Kelembagaan
1 Bina Sejahtera	Kombinasi	2009	75%	75%	100%	71%	90%		63%
2 Al-Futuuhaat	MCK	2013	94%			97%	90%	97%	67%
3 Al-Muttagien	Kombinasi	2013	90%	83%	100%	100%	80%	82%	88%
4Amanah	Kombinasi	2013	95%	100%		97%	80%	94%	100%
5 Amanah 4	Kombinasi	2013	88%			88%	80%	89%	88%
6 Baiturrohman	Kombinasi	2013	96%	100%	100%	97%	90%	97%	88%
7 Bojong Kidul	Kombinasi	2013	89%	83%	100%	100%	90%	81%	63%
8 Cemper Asri	Kombinasi	2013	88%	92%	100%	94%	100%	81%	50%
9 Flamboyan	Kombinasi	2013	85%	83%	100%	100%	90%	68%	63%
10 Kali Baru Timur I	Kombinasi	2013	81%	100%	100%	97%	100%	46%	63%
11 Kali Baru Timur II	Kombinasi	2013	58%			56%	90%	44%	50%
12 Kali Baru Timur III	Kombinasi	2013	88%	100%	100%	94%	100%	70%	88%
13 Mawar Bodas	MCK	2013	88%			97%	90%	73%	88%
14 Pabuaran	MCK	2013	73%			69%	100%	67%	63%
15 Pancuran	Kombinasi	2013	91%	100%	100%	100%	100%	81%	63%
16 Putra Karamat	MCK	2013	76%			83%	80%	58%	88%
17 Sejahtera	Kombinasi	2013	89%	100%	100%	91%	70%		100%
18 Sindang Sari	Kombinasi	2013	88%	100%	100%	81%	75%	89%	100%
19 Babakan Pasar	Komunal	2012	59%	33%	100%		70%		63%
20 Kemuning	Kombinasi	2012	80%	67%	100%	100%	90%	57%	63%
21 Mutiara	Komunal	2012	68%	100%	100%		70%		33%
22 Nurus Salam	Kombinasi	2012	91%	100%	100%	100%	100%	81%	63%
23 Sindangsari	Kombinasi	2012	83%	100%	100%		70%		75%
24 Alam Lestari	Kombinasi	2014	90%	100%	100%	94%	100%	73%	88%
25 Mekar	Kombinasi	2014	78%	88%		71%	88%		88%

CBO Award Event is actually an opportunity to engage and educate LG: LG must participate in site visits and monitoring to assess applicants



In Denpasar, Mojokerto, Surakarta, Bogor, Bekasi, Sleman, Temanggung.



Why Co-Management?

Benefit for LGs & CBO

- Helping LGs managing and ensuring sustainability of local scale
- Maximizing local scale investment
- Gaining tehnical, institutional
 & financing support and
 assistance
- Gaining M&E result as reference for future local scale post implementation planning

Benefits for AKSANSI & DONOR

- Extended O&M service packages coverage
- Active CBO, be able to improve and make innovation
- Gaining LGs budget allocation on managing local scale

Are these 'Co-management' tools helpful for Local Governments?

CBO-led

Co-management

Institution-led

It depends on the needs and strengths in each area!

Reflection questions for determining relevance to LGs:

How many CBOs have the ambition and capacity to formalise, e.g. become legal entities or businesses to expand their service?



Strengthening CBOs

What networks exist in your area? Or who in your region is also interested in joining together to support the Operation Phase?



Building networks

Does LG accept their ultimate responsibility for sanitation service delivery and what types of support are they able to provide?



Co-management

3. WHO SHOULD GOVERN? AND HOW?

Strategies for Institution-led approach

Next we'll explore institution-led governance.

CBO-led Co-management Institution-led

To provide some context for this approach, the key recommendation from the research is:

Local government takes ultimate responsibility for ensuring successful local scale sanitation service delivery.

This should be achieved through:

- National government setting clear minimum requirements for local government in this role.
- Each local government discerns its own path beyond these minimum requirements.

At a minimum, National Government should require all Local Governments to undertake the following to ensure all systems achieve intended outcomes:

- Maintain post-construction and longitudinal records of system location, as well as technical and management performance
- 2. Fund major costs e.g. effluent monitoring, desludging, rehabilitation, extension and retrofitting
- 1. Formalise tariff setting and fee collection, e.g. through regulation or decrees in line with cost-recovery principles

Formalising public / private partnerships

Collaboratively assigning responsibilities

Assigning riskbased responsibilities

Institution-led

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Formalising public / private partnerships

How can duty-bearers formalise O&M entity from the beginning?

- Build own operate (Blitar City)
- Build-operate-transfer
- Build own operate transfer
- Lease / purchase

Engage private or **public postconstruction service providers**:

- LG service delivery agency, BLUD
- LG-owned company, BUMD

Case Study – Japan Johkasou system

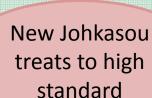
- On-site treatment approach serving about 10% of Japan's population.
- Medium-scale Johkasou can serve 50-500 people.
- Johkasu Law (1985) was revised several times to improve environmental outcomes

Government support for technology standardization, phasing out older systems

Financing for installation (up to 90% subsidy)

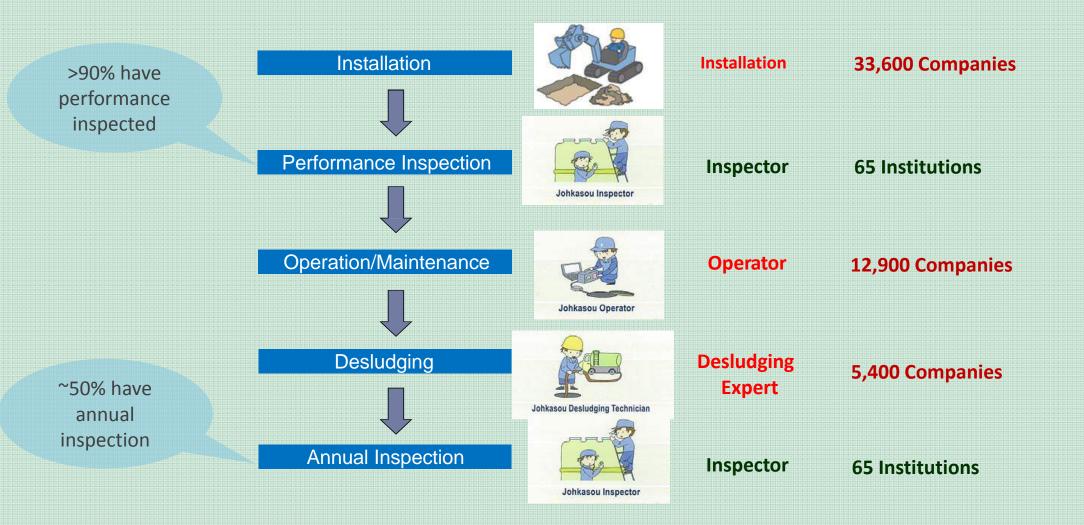
Outsourcing system for installation & operation

Monitoring system





Outsourcing System for Installation and Management of ~8 million Johkasou systems involves thousands of licenced companies



Source: Yasuda, M. (2013) Ministry of Environment, Japan. Presentation at WEPA Workshop on Decentralised Domestic Wastewater Treatment in Asia. November 14, 2013. Jakarta.

Institution-led

Assigning riskbased responsibilities If the goal is to reduce risk, who would do what? How would risk be defined?

"If I were mayor, the only thing that would move me would be risk [to public health]"

Ministry of Planning representative

Three questions for exploring the hazard

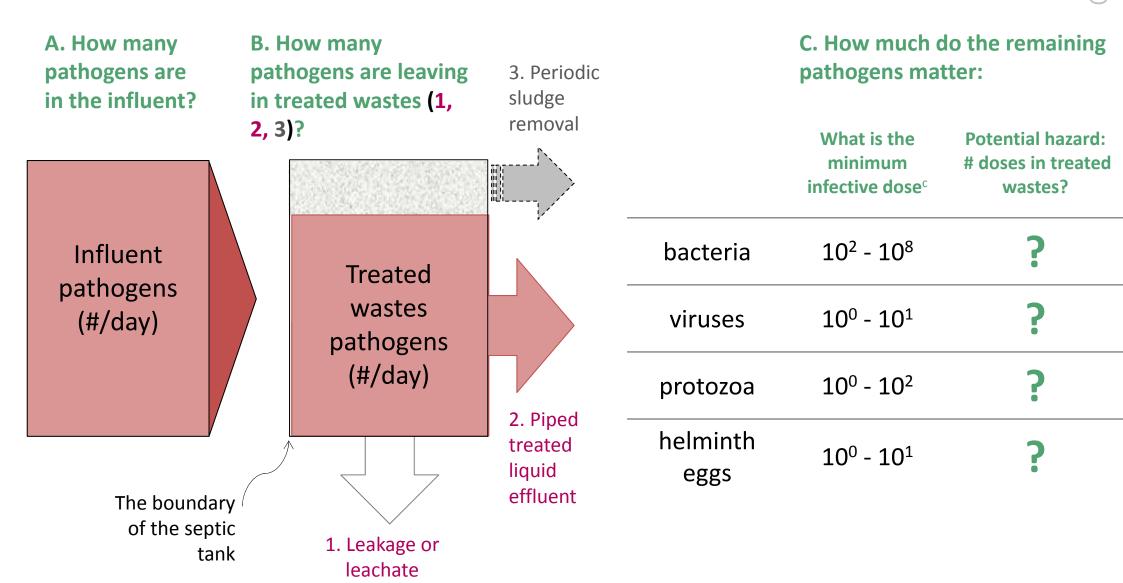
A. How many pathogens are in the influent?

B. How many pathogens are leaving in treated wastes?

C. How much do the remaining pathogens matter?



Where does it go?



Case study of management based on risk – US EPA

Responsible Management **Entity framework assigns** responsibility based on the risk a decentralised sewage system poses to the local public health and environment

Management models

- 1. Homeowner awareness
- 2. Maintenance contracts
- 3. Operating permits
- 4. RME 0&M
- 5. RME Ownership

Institution-led

Collaboratively assigning responsibilities

Stakeholders?

- LG
- Mayor
- NGOs
- Users
- etc

Responsibilities?

- Desludging
- Fee collection
- Monitoring & corrective action
- Major repairs
- etc

How can these be linked appropriately based on the unique context in each space?

This will be explored in the next activity.

Are these 'Institution-led' tools helpful for Local Governments?

CBO-led

Co-management

Institution-led

It depends on the needs and strengths in each area!

Reflection questions for determining relevance to LGs:

Does the desire exist to partner with private sector, or to develop CBOs to become private sector?



Formalising public / private partnerships

How willing are all stakeholders to come to the table to discuss who should do what based on their strengths?



Collaboratively assigning responsibilities

Is there a high potential health risk in the local area from harmful pathogens passing through the system?



Assigning risk-based responsibilities

3. WHO SHOULD GOVERN? AND HOW?

Activity: Under an Institution-led approach, how do you think responsibilities could be arranged?

Activity: Exploring what an Institution-led approach could look like in your Local Government (or for Local Governments generally)

- Look at all of the activities and stakeholders. Add or change activities and stakeholders to suit your situation.
- Put each activity next to the stakeholder who could be responsible for doing it, under an institution-led scenario
- Stretch you boundaries:
 - Try giving CBOs only small tasks
 - Try giving CBOs less than 3 tasks

Reflection: Exploring what an Institution-led approach could be in your Local Government (or for Local Governments generally)

- Discussion/reflection questions:
 - Was anything surprising about this activity?
 - Who has most responsibilities placed next to them?
 - How is this different from your previous mappings of responsibilities?
- Take pictures of your gameboard

WRAP-UP: Take home messages

- 14,000 installations and growing fast
- To achieve the public and environmental health outcomes that Indonesia needs, we need to strengthen governance arrangements.
- This means Local Government should take ultimate responsibility to ensure local scale sanitation services are delivered and sustained (see previous slide)
- Beyond this, LG should collaboratively explore with KSMs how to improve governance based on local strengths & opportunities using the Governance Spectrum

WRAP-UP: Making commitments

Think about what you have learned during this process

- Based on this, what actions can you commit to?
 - Who would need to help?
 - What are the next steps?

Report back

This guidance material was developed based on the project: Effective governance for the successful long-term operation of local scale sanitation systems

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Gol Partners BAPPENAS (Partnership Agreement)

Methodology Transdisciplinary Participatory Action Research

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