

Case:

Managing a 'Operation & Maintenance Fund' for Water infrastructures

HYSAWA Approach and Experience in Bangladesh

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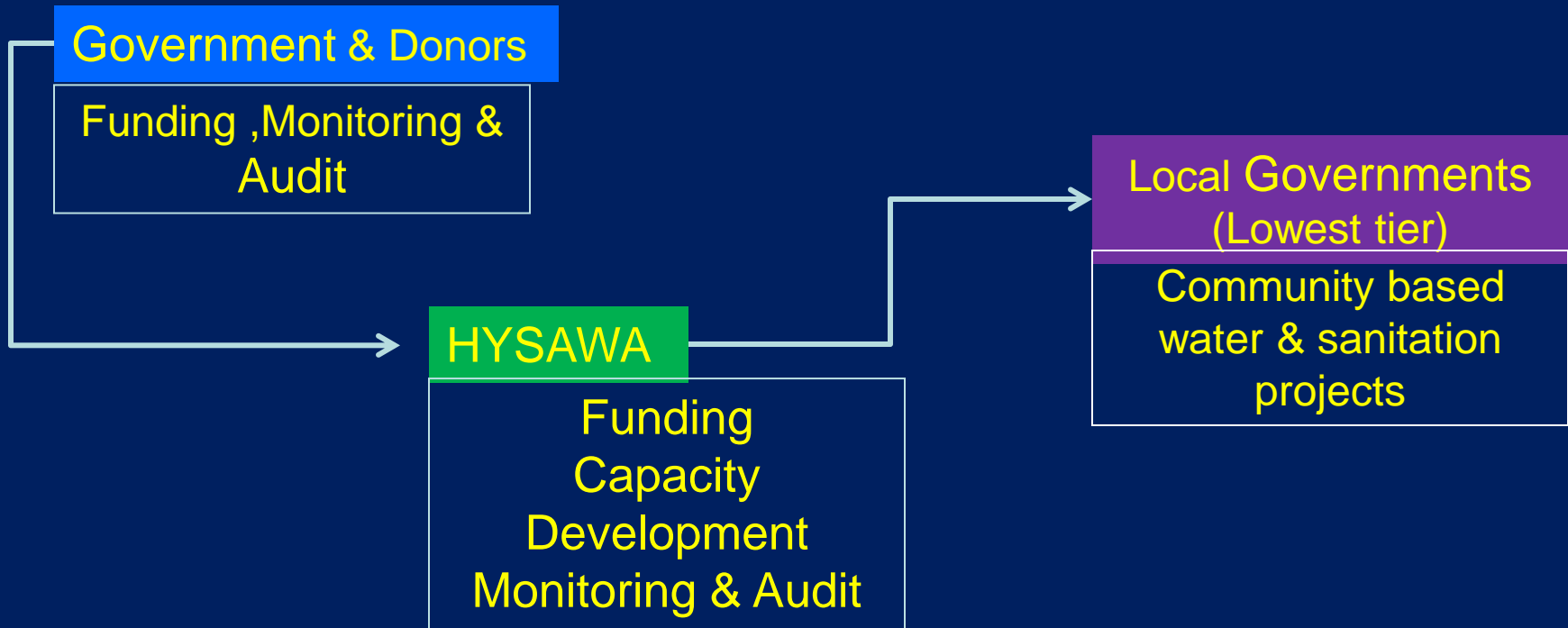
Managing Director,
HYSAWA



HYgiene, SAnitation and WAter Supply (HYSAWA)

- A non-profit financing organization working with Rural local government institutions in Bangladesh.
- Directed by a Trustee Board headed by top Official of the Local Government Ministry
- Receiving grants from Different donors including SDC
- Thematic area: **Wash, Climate Change**
- In operation since 2007
- Total beneficiary 9 million, budget US\$ 100 million
- US\$ 11 per beneficiary

Fund Flow & Roles



Union Councils
Pop 30-50K
about 15 SqKm



Case Facts

- Union Councils & HYSAWA has so far installed **80,000+** water points
- In 2012, **2%** water points found non-functional
- in 2016, it was nearly **3%**.
- In some of the areas, HYSAWA do not have any activities now
- There were no exit strategy before leaving a project area
- Only caretakers were given training on minor repairs
- Some local Mechanics got training on major repairs

Water technologies



**Hand pumps (95%)
Depth 250 m**



Water technologies



Surface water treatment



Rain Water Harvesting

Water technologies



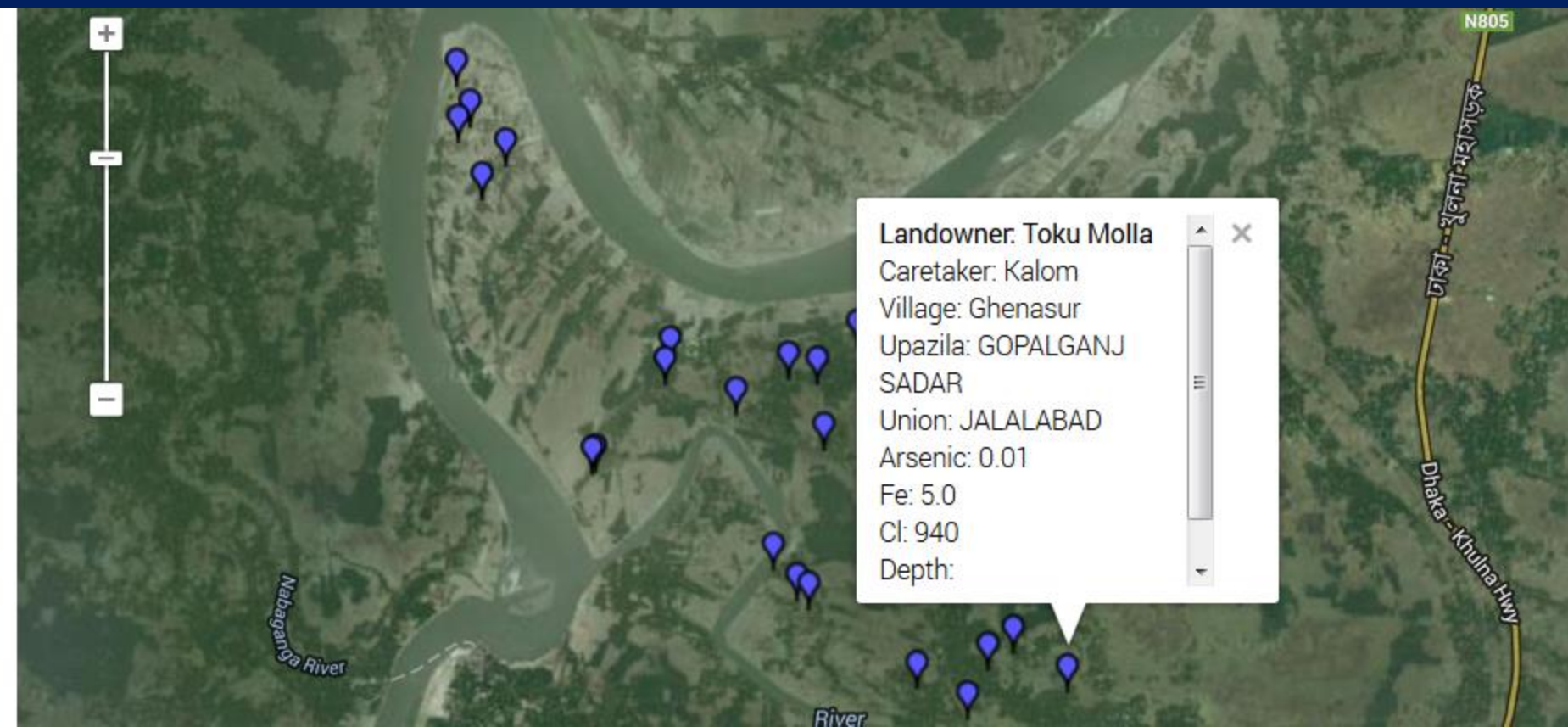
Reverse Osmosis



Pressure/magic pump

HYSAWA online water point database

Owner	Caretaker Male	Caretaker Female	HH_benefited	Hardcore HH_benefited	Beneficiary_male	Beneficiary Female	Beneficiary_hardcore	Beneficiary under safetynet	Arsenic	Fe	Mn	Cl	Ph	Pb	Zinc	Fc	Tds	Turbidity	X_coord	Y_coord	Re	
	o	o	0	0	0	0	0	0														
Shake	Sayed Shake	Salma Begum	8	3	20	21	15	1	0.01	1.5		690							089.75276	22.73551		
Shake	Easin Shake		6	1	10	8	2	0	0.01	1.0	0.0	575							089.74208	22.73031		
awlader	Rustom hawlader		5	1	12	9	9	1	0.01	1.5		460							089.74227	22.73347		
Shake	Moenuddin Shake	Monoara Begum	8	3	18	19	7	1	0.01	2.5		460							089.75194	22.73378		
Shake	Ali Shake		10	5	21	18	24	1	0.01	1.5	0.0	460							089.75172	22.73055		
Shake	Shagor Shake		8	4	14	18	18	0	0.01	0.5		460							089.75102	22.73371		
longir	Azad Molongir	Kadiza begum	5	2	14	10	9	0	0.01	2.0		575							089.74861	22.73630		
Shaba	Arabiindo Shaba	Uma rani Shaba	6	1	9	8	3	2	0.01	2.0		575							089.74715	22.73648		



Case Facts

- No funding sources for major repairs available/established
- Local Governments even Public health department do not have any particular activity or fund for regular Operation & maintenances.
- So the responsibilities goes on the user groups.
- They cannot afford major repairs, so their water system remain inactive/non functional.

Way out Concept

- HYSAWA thought of creating an “**Operation & Maintenance fund**” to reinstate/repair those non-functional water points that community cannot afford
- This would be a regular activity beyond the projects. All previous & future infrastructures will come under maintenance under this fund
- A fund sourcing mechanism has also been primarily established.

Scope: Resources for O&M

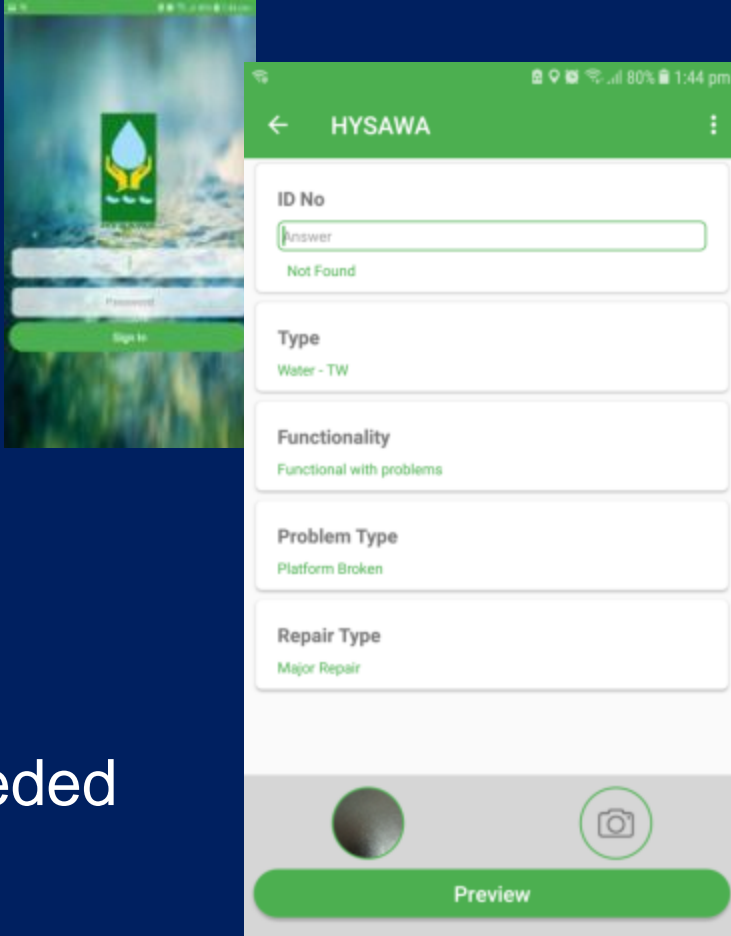
- In HYSAWA Projects, for water and sanitation schemes,
 - HYSAWA provides 80-90% of the cost
 - Community contributes 10-20%
- Now it is agreed with our Board, donors & Unions
 - To keep part of the Community contribution in a central account “HYSAWA O&M Fund”
 - HYSAWA will provide fund to Unions for reported and validated maintenance needs.

Implementation Process

Data Collection

From Present working areas

- Current staff working under project Unions are collecting data using an apps
- Out of the 129 reported so far
 - 3 Permanently non functional
 - 10 running with some problems
 - 4 needs major repairs
 - 9 needs minor repairs
 - Validation and cost estimation needed



The image shows two overlapping screenshots of a mobile application. The background screenshot shows the app's splash screen with a logo of a hand holding a water drop and the text 'HYSAWA' and 'Sign In'. The foreground screenshot shows a form titled 'HYSAWA' with the following fields:

- ID No**: A text input field containing the word 'Answer'.
- Type**: A dropdown menu with 'Water - TW' selected.
- Functionality**: A dropdown menu with 'Functional with problems' selected.
- Problem Type**: A dropdown menu with 'Platform Broken' selected.
- Repair Type**: A dropdown menu with 'Major Repair' selected.

At the bottom of the form, there is a 'Preview' button and a camera icon.

Data Collection from previous working areas (Challenge !!!)

- Primarily we have informed the Unions about the O&M fund
- No systematic data collection process established
- Some unions writing to us for some repair requests, not responded by us yet.
- Users are not aware yet
- An open mobile application is under consideration
- Validation and cost estimation process both for Union Councils and HYSAWA need to be identified

Data to Decisions

Data from app

- Location
- Functional/Non functional
- Running with problems
- Problem types
- Major/minor repair needed
- Tentative cost

Immediate decisions/steps

- Validation
- Cost Estimation
- Funding to Union
- Fixing
- Completion report

Data to Decisions

- long-term:
 - Most problem reporting areas,
 - Problems with particular technology,
 - Monitoring & quality control incapacities/gaps,
 - Problems with particular drillers
 - Caretaker & Mechanics training re-design
 - Technology research & improvement

A close-up photograph of a smiling woman with a bindi and a young child smiling together. The woman has a red bindi on her forehead and is wearing a red headscarf. The child is wearing a red shirt. The background is a plain, light-colored wall.

Enhancing Life

Everywhere, ever

Thank you