



Operation & Maintenance for WinS

Moderator: Jan Schlenk, GIZ

Session Objectives

1. Provide understanding on the paradigm shift: focus on infrastructure to focus on O&M
2. Provide basic understanding on the different budget categories for WinS O&M
3. Provide understanding on cost calculation
4. Provide direction for participants on how to use the O&M App in order to calculate their O&M costs



Introduction – O&M for WinS

Dr Bella Monse, GIZ

SDG target for WinS

DRINKING WATER	SANITATION	HYGIENE
ADVANCED SERVICE Additional criteria may include quality, quantity, continuity, and accessibility to all users (to be defined at national level)	ADVANCED SERVICE Additional criteria may include student per toilet ratios, menstrual hygiene facilities, cleanliness, accessibility to all users, and excreta management systems (to be defined at national level)	ADVANCED SERVICE Additional criteria may include hygiene education, group handwashing, menstrual hygiene materials, and accessibility to all users (to be defined at national level)
BASIC SERVICE Drinking water from an improved source and water is available at the school at the time of the survey	BASIC SERVICE Improved sanitation facilities at the school that are single-sex and usable (available, functional and private) at the time of the survey	BASIC SERVICE Handwashing facilities with water and soap available at the school at the time of the survey
LIMITED SERVICE Drinking water from an improved source but water is unavailable at the school at the time of the survey	LIMITED SERVICE Improved sanitation facilities at the school that are either not single-sex or not usable at the time of the survey	LIMITED SERVICE Handwashing facilities with water but no soap available at the school at the time of the survey
NO SERVICE Drinking water from an unimproved source or no water source at the school	NO SERVICE Unimproved sanitation facilities or no sanitation facilities at the school	NO SERVICE No handwashing facilities available or no water available at the school
NEW WHO/UNICEF JMP SERVICE LADDERS FOR MONITORING WASH in SCHOOLS		

O&M Cost for Basic drinking water

Water	Pond	Borehole with electric Pump	Piped
O&M Costs	\$	\$\$	\$\$\$

- The source of drinking water has a significant cost implication on O&M
- While ponds/open water sources are having the least impact on the budget, aspect such as water quality and accessibility are key to consider

O&M Cost for basic sanitation

SANITATION	Pit latrine	Pour Flush	Cistern Flush
O&M Costs	\$	\$\$	\$\$\$

- Basic sanitation facilities standards: single-sex and usable
- Usability entails: Availability, Functionality and Privacy
- O&M expenses needed to maintain Functionality



O&M Cost for basic hygiene

HYGIENE	Tippy tap	WASHaLOT	Basin and faucet
O&M Costs	\$	\$\$	\$\$\$

- Different options have been developed that provide hand washing facilities
- When addressing financial implications, the cost of installation and O&M should be weighed up



Resource Mapping within School community



Possible Resource Mapping

WATER	Resource Mapping
For drinking	Depending context
For Cleaning and hygiene	Water bill is paid by local Government
SANITATION	
Materials	Community supports with cleaning materials
Labor	Parents clean free of charge Local plumber supports schools
HYGIENE	
Consumables	Students bring supplies from home

Cleaning following Standard Procedure



Transparent responsibility for supervision

Toilet Checklist

Supervising Teacher: Maria de Guzman

Week: 25

Toilet Cleaned			
	Time	Name and Signature	Remarks
Monday	3:13 pm	Edward Dy	Faucet cannot be fully closed and leaking
Tuesday	3:05 pm	Lovely Reyes	Some toilets were not flushed
Wednesday	3:34 pm	Ryan Dinlayan	OK
Thursday	3:10 pm	Lani Grace Chavez	No water. Faucet under repair. Need fetch.
Friday	3:19 pm	Edwin Crusio	OK

Hygiene Patrol (yes/ no)								
		Water available	Soap available	Trash bin available	Toilet brush available	Dipper / bucket available	Name and Signature	Remarks
Monday	AM	Yes	No	Yes	Yes	Yes	Mac Escudero	New soap made available
	PM	Yes	Yes	Yes	Yes	no Dipper	Mac Escudero	Dipper missing.
Tuesday	AM	Yes	Yes	Yes	Yes	Yes	Ellen Nobi	Water leaking

- Regular visual inspection by school head and teachers
- Assignment of supervision areas
- Routine checklist and SOP for Cleaning and Maintenance

Management of O&M – take home message

- Type of infrastructure determines O&M cost
- Cleaning and Maintenance is at least of same importance as innovation and new construction
- Transparent assignment or areas of supervision / responsibility is of utmost importance
- For immediate 'problem solving', resource mapping within school community (not sustainable)
- Strong advocacy needed for long term solution: Allocation of sufficient budget for O&M within government systems

Thank you



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Concepts of O&M Cost Categories

Jan Schlenk & Ubo Pakes, GIZ



What are the cost to keep WinS running?

- The presented costing tool is intended to define the need and calculate the cost for O&M.
- The calculations are based on the assumption that the infrastructure is functional, one toilet / 50 students and access to water is given. **Major, unpredictable repairs are not part of this planning tool.**
- Cost depend on local setting with huge variety even within countries
- Government funds for O&M are allocated per school based on number of children and vary between countries

Calculating Costs for O&M

What does count in?

- This costing framework calculates the cost for a **desired O&M status**.
- The tool helps to calculate and plan for cost
- Cost estimation is the base for **budget allocation and resource mobilization**.



WinS O&M Cost Calculation - in response to SDGs and National Guidelines

Categories	Needs / Input
WATER	
For drinking	1 Liter drinking Water per Day / Student
For Cleaning and hygiene	5 Liter per Day / Student
SANITATION	
Cleaning	Materials & Labor
Simple Maintenance	
HYGIENE	
Consumables	200g Soap / Student / per year

WinS O&M Cost Calculation - in response to SDGs and National Guidelines

Categories	Needs / Input
WATER	
For drinking	1 Liter drinking Water per Day / Student
For Cleaning and hygiene	5 Liter per Day / Student
SANITATION	
User Kit	Materials
Cleaning kit	
HYGIENE	
Consumables	180 g Soap / Student / per year

User kit and Cleaning kit

Interviews, observation and focus group discussion resulted to identification of these kits:

- **User kit**: 1 trash bin, 1 toilet brush, 1 dipper/mug
 - sufficient for the usage of 1 toilet cubicle for one year
- **Cleaning kit**: 1 floor brush, 2 brooms, 1 bucket, 10 sponges, 5 hand gloves and 50 face mask
 - sufficient to regularly clean 3 toilet cubicles for one year



App “O&M – Calculate the Cost” by F4S



