WASH Sustainability Index Tool





Webinar 20 November 2013





Structure of the Tool

Components:

1. PDF Guiding Document

- 374 MB "complete" version
- 37 MB "smaller" version
- 2. Videos (complete only)
- 3. Excel Frameworks (both)

Available at http://www.washplus.org/rotary-usaid







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PDF Guiding Document

Detailed step by step guidance of the process Embedded videos Excel framework spreadsheets



Videos



Downloads from PDF

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	 Protection of Interventions Catalogue of Interventions Household Sample Size Calculator Coding Examples 	

Excel Framework

Total of 7 framework files Each file is 1 indicator type Locked (Section 2.1) – ability to change values in pink cells Unlocked (Section 5) – modify all content

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WT-CHP-M-N1	Primary Investigation Method	Triangulation
WT-CHP-M-N1a	NL	
WT-CHP-M-N1b	NL	
WT-CHP-M-N1c	NL	
WT-CHP-M-N1d	NL	
WT-CHP-M-N2	Primary Investigation Method	Triangulation
WT-CHP-M-N2a	NL	DS
WT-CHP-M-N2b WT-CHP-M-N2c	NL NL	DS
WT-CHP-F-SP1	Primary Investigation Method	Triangulation
WT-CHP-F-SP1a	SP	
WT-CHP-F-SP1b	SP	DS
LATE CLUD E CDA		







Reference Code









Intervention Categories

- 1. Water supply (WT)
- 2. Sanitation (SN)
- 3. Hygiene (HY)









Intervention Types (developed to-date)

- 1. CRS- community reticulated systems
 - 2. CHP- community handpumps
 - 3. UWS- utility water systems
 - 4. WSP water source protection
 - 5. WPS- water pan systems
 - 6. RWH- rainwater harvesting
- 7. INS- Institutional sanitation
- 8. HHS- Household Sanitation
- **9. HWP-** Hygiene and handwashing promotion

10.HWT- Household water treatment







Sustainability Factors









Administrative Level: Tanzania

WASH SIT	Administrative
Code	Level
NI	Republic
IN	Region
	District
D	Division
	Local Ward
C	Village
3	Sub-Village/Hamlet







SIT Reference Code









Indicator: WT-CRS-E-S1









Nomenclature

Component	Description	Code
Factor	5 for each indicator type	I, M, F, T, E
Indicator	1-4 per factor14-23 per intervention type	1, 2, 3, 4
Sub-Indicator	Usually 4 per indicator	a, b, c, d
Question*	1-3 per sub-indicator	i, ii, iii**

*often the question is the same as the sub-indicator ** code isn't shown in framework







Sub-Indicators

Indicator

WT-CRS-F-S3	Primary Investigation Method	Triangulation	The water committee demonstrates effective financial management and accounting
WT-CRS-F-S3a	SP		 a) Does the water committee keep financial records? (verify)
WT-CRS-F-S3b	SP		b) Does the committee have a bank account? (verify)
WT-CRS-F-S3c	SP	HH	c) Does the committee share financial records with the community on a regular basis?
WT-CRS-F-S3d	SP		d) Are financial accounts audited? (verify)

Sub-Indicators

<u>Sources of Information or "stakeholders"</u> Service Providers and Households within Village or Sub-village

Questions

WT-CRS-F-S2	Primary Investigation Method	Tariff collection is regular and sufficient	
		a) Is the tariff collected on a regular schedule (e.g. on pay-as-you -fetch basi	is, or
WT-CRS-F-S2	la SP	monthly household levies, instead of collecting money when there is a brea	kdown)?
		b) What is the annual revenue? (verify) What is the annual operating expe	nditure?
WT-CRS-F-S2	2b SP	(verify) Is the annual revenue greater than the annual expenditure?	
WT-CRS-	c SP	c) Is there a national/local target for collection efficiency (i.e. percent who represent the representation of the second se	egularly pay)
		d) Do most (at least 80% <i>, or a proportion in line with national or locally set</i> s	standards)
WT-CRS-F-	d SP	households pay the tariff? (i.e. Are they achieving the specified collection ef	ficiency)
	Sub-Indic	cator Specific Quest	ions
	WT-CRS-F-S2b	(i) What is the annual revenue?	
		Tshs(verify)	
		(ii) What is the annual operating expenditure?	
		Tshs (verify)	







Scoring

- 1. Field scoring- mark "Yes" or "No" (majority)
- 2. Post collection scoring:
 - Numerical data (must be analyzed, calc statistic)
 - Benchmark unknown or doesn't exist
 - Capture valuable information







Application of the Sustainability Index Tool









Landscaping

- Range of intervention types
- Location of interventions (i.e. "community" or smallest administrative unit)
- Number of unique interventions







Statistical Design and Sampling









General Statistical Design

- Focus on service provider
- Primary unit of analysis dictates:
 - <u>HH interventions (e.g. household latrines) target sample size (# HHs)</u> statistically determined
 - <u>Community interventions-</u> (e.g.-community water systems) comprehensive inclusion (i.e. all water point management groups in community)
- Best practice minimum sample size
- Heterogeneity: inter-community is greater than intra-community
- To overcome resource constraints Less Is More: to improve heterogeneity of SP and district responses, include more communities, but less HH in each community.
- Stratification requires knowledge: geographic stratification captures regional differences, rural/urban stratification also important







Sampling Strategy

- Literature review of sampling strategies (16 different assessments)
- Key distinction this is not impact assessment

Impact Assessment	Sustainability Index Tool
Compare test to baseline/control	Understand context of intervention and risks/success factors
Focus on beneficiary/users	Focus on flow of services over time







Creating Questionnaires

- Each indicator question assigned a primary unit of analysis
- "Filter" tab in excel used to create questionnaires
- Some sub-indicators/questions are triangulated (multiple stakeholders)

Question Number	Primary Unit of Analyais	Triangulation	Indicator/Sub-Indicator
WT-CRS-I-SP1			There is a water committee which has been constituted in line with national norms and standards
WT-CRS-I-SP1e	SP	НН	e) Has the water committee been democratically elected with involvement of the entire community?
WT-CRS-M-SP1			Representative water committee actively manages water point with clearly defined roles and responsibilities
WT-CRS-M- SP1b	SP	НН	b) Does the water committee carry out all the roles required of it?
WT-CRS-M-SP2			Water committee members actively participate in Committee meetings and decision making process and reporting is transparent
WT-CRS-M- SP2d	SP	НН	d) Are technical, administrative and financial records kept and shared with the community on regular basis?
WT-CRS-F-SP3			The water committee demonstrates effective financial management and accounting
WT-CRS-F-SP3c	SP	HH	c) Does the committee share financial records with the community on a regular basis?

Contextualization

- 1. Important and time consuming
- 2. Multiple steps
 - General (sub-indicator separated into multiple specific question)
 - Adapt (insert local benchmarks/standards)
- 3. Engage local authorities and WASH experts







Pilot Test

- 1. Make sure to pre-test with survey team during training (questions flow)
- 2. Pilot test each tool
- 3. "Dry rehearsal"
- 4. Ensure that each question is interpreted the same
- 5. Sufficient time for feedback from survey team and modification of tools







Data Collection Methods

- Household surveys with observations
- System or facility observation and checks
- Key informant interviews: service providers, private sector suppliers, decentralised and national government
- Contract/bank account checks; document review of national policy, legislation and local by-laws









Data Collection Teams

- country coordinators and survey team leaders
- Teams of enumerators
- Two approaches to data collection:
 - i. Paper
 - ii. Digital handset









Data Analysis

- No=0 ; YES =1
- •Household responses aggregated to single response (66% YES)
- Question responses aggregated to sub-indicator, and sub-indicator to indicator for each community and intervention type
- Indicator scores aggregated by factor by community by intervention









Data Analysis and Results

Important to consider:

 \checkmark triangulation rules

✓ weighting factors (if and when)

✓ generating graphs (manually done)







Results by Community









Results by Intervention Type

Overall Sustainability Index Score Community Reticulated System



Lessons learned from first iteration of **Sustainability Index Tool**









Lessons Learned

- important to dedicate **sufficient time and resources** to contextualization
- qualitative information compliments quantitative outputs of the tool
- Sequencing matters critical first step is to survey at higher levels to enable further contextualisation of lower level surveys
- •Possible to collect **national level data as a "desk based"** exercise







Lessons Learned - Costs

- Excluding the cost of designing the tool, the assessment costs are ~ \$50,000 - \$60,000 per sample country
- Order of magnitude country cost sampling of 5 interventions types in Ghana and 4 in the Dominican Republic
- Total number of beneficiaries of about 100,000 in each country and sample confidence level of 7%







THANK YOU

For further information see: http://www.washplus.org/rotary-usaid OR Contact: Ryan Schweitzer r.schweitzer@aguaconsult.co.uk





