

# EVALUATION REPORT

October 2018

## ANNEXES

# Global Evaluation of UNICEF's Drinking Water Supply Programming in Rural Areas and Small Towns, 2006–2016



# ANNEXES

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# ANNEX A: INTRODUCTION

## Annex A1: List of 60 priority countries for UNICEF WASH programming 2006–2015

1	Afghanistan	31	Lesotho
2	Angola	32	Liberia
3	Azerbaijan	33	Madagascar
4	Bangladesh	34	Malawi
5	Benin	35	Mali
6	Brazil	36	Mauritania
7	Burkina Faso	37	Morocco
8	Burundi	38	Mozambique
9	Cambodia	39	Myanmar
10	Cameroon	40	Nepal
11	Central African Republic	41	Niger
12	Chad	42	Nigeria
13	China	43	Pakistan
14	Colombia	44	Papua New Guinea
15	Cote d'Ivoire	45	Philippines
16	Democratic Republic of the Congo	46	Rwanda
17	Egypt	47	Senegal
18	Eritrea	48	Sierra Leone
19	Ethiopia	49	Somalia
20	Ghana	50	Sudan
21	Guatemala	51	Syrian Arab Republic
22	Guinea	52	Tajikistan
23	Guinea-Bissau	53	Tanzania
24	Haiti	54	Togo
25	India	55	Uganda
26	Indonesia	56	Uzbekistan
27	Iraq	57	Viet Nam
28	Kazakhstan	58	Yemen
29	Kenya	59	Zambia
30	Lao P.D.R.	60	Zimbabwe

Source: UNICEF WASH Strategy 2006–2015



## Annex A2: Analysis of underlying assumptions for the simplified theory of change for UNICEF drinking water supply programming, 2006–2016

### Ultimate outcome level

Assumptions related to the ultimate outcome:

- Political support for addressing inequity remains strong;
- Availability of financial resources (and other inputs) at global, regional and country levels;
- Humanitarian crises do not overwhelm capacity to address long-term needs.

### Intermediate outcome level

Intermediate outcome 1	Intermediate outcome 2	Intermediate outcome 3
Increased access to equitable, safe/improved, sustainable water drinking water supplies	Improved and sustainable behavioural change and capacities at community, service provider and local government levels (design, planning, management, monitoring and evaluation)	Strengthened enabling environment at global and national levels as well as within UNICEF (policies, knowledge management and capacities)
<b><i>Related assumptions:</i></b>	<b><i>Related assumptions:</i></b>	<b><i>Related assumptions:</i></b>
Availability of financial resources to increase access  Capacity of (local) private sector to construct and maintain  Capacity of implementing agencies (incl. governments)  Political commitment to reaching the MDG WASH targets	Communities are open to receiving information and behaviour change messages  Expenditure is prioritized to disadvantaged populations  Consistent repetition of IEC campaigns/key messages on hygienic behaviour  Existence of minimum level of capacity that can be supported	Financial and human resources and tools to work on the upstream segment of the sector  Consensus among key sector partners (at all levels) on how to improve enabling environment  Sound national policies in relation to sustainability and equity in access to RWS services (or capacity to influence policies)



### Output level

Hardware dimension		
Safe and reliable infrastructure	Environmentally-adapted services	Adequate technologies
<b>Related assumptions:</b>	<b>Related assumptions:</b>	<b>Related assumptions:</b>
Supply chains are in place and working effectively	Good quality water resources available in sufficient quantity	Technological innovations are documented and promoted
Quality of construction	Water infrastructures use environmentally-friendly designs (catchment areas for instance)	Technologies are available at a reasonable cost
Quality of delivered services	Issues around wastewater are properly addressed	Technical standards adapted to willingness to pay/contribute promoted nationally

Software dimension	
Enhanced awareness / capacities of communities for water hygiene and safety	Strengthened capacities of national and local governments
<b>Related assumptions:</b>	<b>Related assumptions:</b>
Communities are open to receiving information and behaviour change messages	Willingness to decentralize responsibility for RWS policies and management to the national and local level
Existence of minimum level of capacity that can be supported at community level	Political willingness to improve RWS services at the level of the local governments
	Quantity and quality of national and local government staff working for LG and reduced staff turnover

Enabling environment dimension		
Improved policies	Strengthened capacities (planning, monitoring and regulation)	New evidence and knowledge
<b>Related assumptions:</b>	<b>Related assumptions:</b>	<b>Related assumptions:</b>
Willingness of governments to implement necessary reforms and adopt better policies	Existence of minimum level of capacity that can be supported	Capacity to generate evidence-based knowledge and properly disseminate this knowledge externally and internally
Partnership and consensus among other key sector players	Institutional framework clarifies responsibilities for regulating RWS services and monitoring and evaluation	Willingness of key sector players to engage in a learning and change process
Dialogue and coordination in the sector (global / country)	Political willingness to measure results/impact and promote sector accountability	Existing research capacities at country level

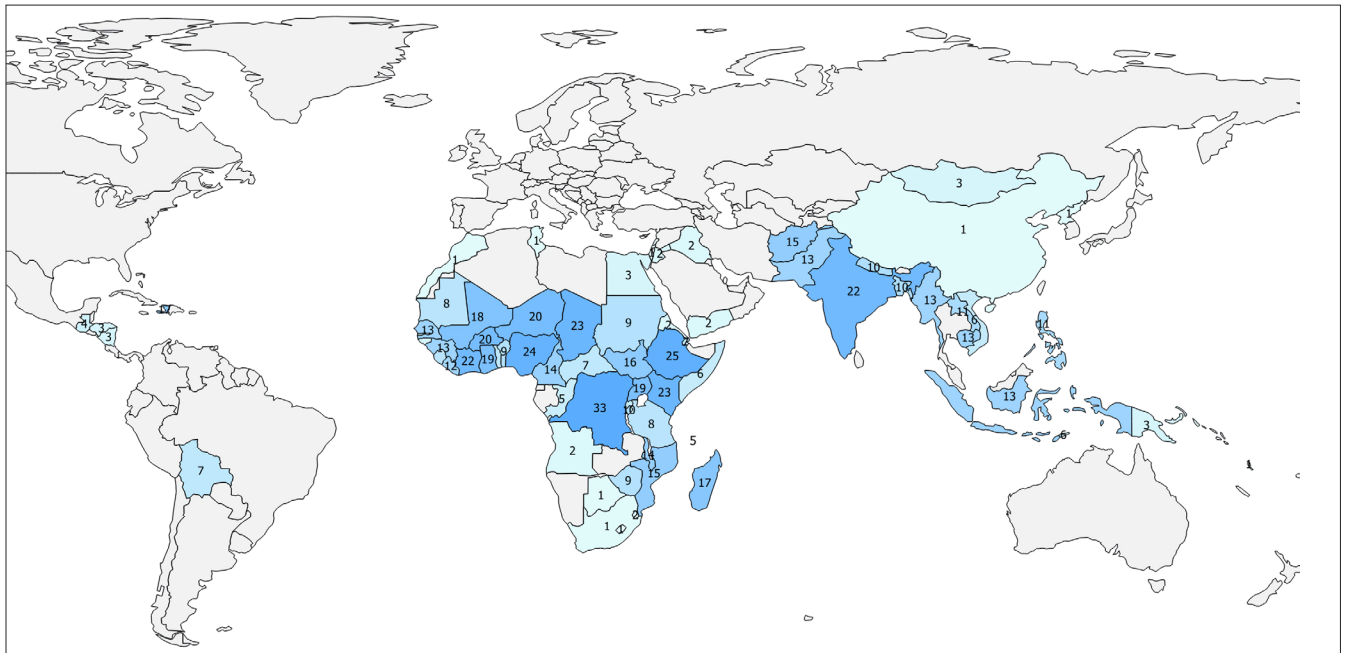
Source: Authors

# ANNEX B: EVALUATION APPROACH

## Annex B1: Terms of reference for the evaluation

The terms of reference for the evaluation are available at:  
[www.unicef.org/evaluation/index\\_90263.html](http://www.unicef.org/evaluation/index_90263.html).

## Annex B2: Coverage of RWS programme countries through the online survey and the distribution of online survey respondents by country



Source: Authors

## Annex B3: Process for selecting case study countries

Criteria for preliminary country filtering (eligibility criteria) – of all countries where UNICEF supported RWS interventions between 2006 and 2016, excluded the following:

1. Those without a WASH development programme (or mixed humanitarian / development programme, as in protracted crises) in place;

2. High-income and higher-middle-income countries (out of scope);
3. Countries presenting strong security constraints.

Of the remaining countries, the following purposive sampling criteria were applied to obtain the final list (based on scoring, typically yes/no, or low/medium/high):



ANNEX B3 (cont'd)

4. Size of the UNICEF country RWS programme, based on 2006–2016 expenditure data from VISION, with the view to ensure a representative mix of large and small programmes;
5. Type/focus of RWS programming, to ensure a variety of situations on the humanitarian-development spectrum; various levels of programme maturity; various mixes of downstream and upstream work, as reported by country offices in their annual reports; and various levels of programme maturity;
6. Opportunity for learning, due to the existence of documented successes and failures and/or a specific innovative approach to programming and relevant to the evaluation;
7. Regional and linguistic distribution, and diversity of programming contexts (hydrogeology, policy and institutional environment, and presence/number of other external support agencies) to ensure an appropriate mix;
8. Existence of recent quality RWS evaluations or other sources of evidence and lessons learned, based on the UNICEF evaluation and research database;
9. Country office availability and willingness to engage in the evaluation, considered critical to the success of the case study.

**Annex B4: Examples of application of the colour coding system and weighting in case of mixed findings**

**EXAMPLE 1: Evaluation criteria: sustainability. Area of inquiry: global level engagement.**

Global-level engagement	<ul style="list-style-type: none"> <li>• Sustainability emphasized in the WASH strategies for 2006–2015 and 2016–2030, the 2011 position paper on water and annual WASH reports</li> <li>• UNICEF advocacy for the inclusion of sustainability in the SDGs as well as in government policy commitments made at SWA’s high-level meetings</li> <li>• Guidance, tools and training produced to help country offices identify sustainability bottlenecks and mainstream sustainability into their programming and within the sector</li> <li>• Support to DGIS initiative on sustainability compacts and checks in sub-Saharan Africa; checks adopted as a major element of UNICEF’s approach to WASH/RWS sustainability</li> <li>• Evolution of focus from technical issues at the community level to environmental and institutional issues at service and sector/country levels</li> <li>• Lack of conceptualization, overarching framework and harmonization of the various guidance and tools, making them difficult to understand and for country offices to holistically adopt</li> <li>• Not all dimensions of the sustainability challenge covered by the guidance and tools (e.g. financial, social and institutional dimensions neglected)</li> </ul>	
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In this example, the large majority of key findings are positive (UNICEF’s compares favourably against the benchmark for 5 findings out of 7), leading to a positive performance scoring (green colour).





◀ **EXAMPLE 2:** Evaluation criteria: sustainability. Area of inquiry: financial sustainability.

Performance in UNICEF programming and in UNICEF-supported services	<ul style="list-style-type: none"> <li>• Lack of analysis of life cycle costs and users' willingness to pay</li> <li>• Tariffs found to be either aligned with government policy or decisions on tariffs left to communities</li> <li>• In more than half of communities, tariffs that were non-existent or not applied and revenues that did not sufficiently cover recurrent costs and ensure the medium-term viability of the service</li> <li>• Study or policy advocacy for increased public budget allocations in 15–20 countries, with varying levels of success</li> </ul>	
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In this example, the first two findings point to a general lack of compliance with a documented sector good practice; the third finding points to less than 50% of RWS programme countries having effectively or successfully promoted the application of a water tariff and achieved the minimum level of operation and maintenance cost recovery and financial sustainability intended in corporate strategy and guidance documents; the fourth and last finding points to a limited engagement and effectiveness in financial sustainability related advocacy (less than half of RWS programme countries). This results in a negative performance scoring (red colour).

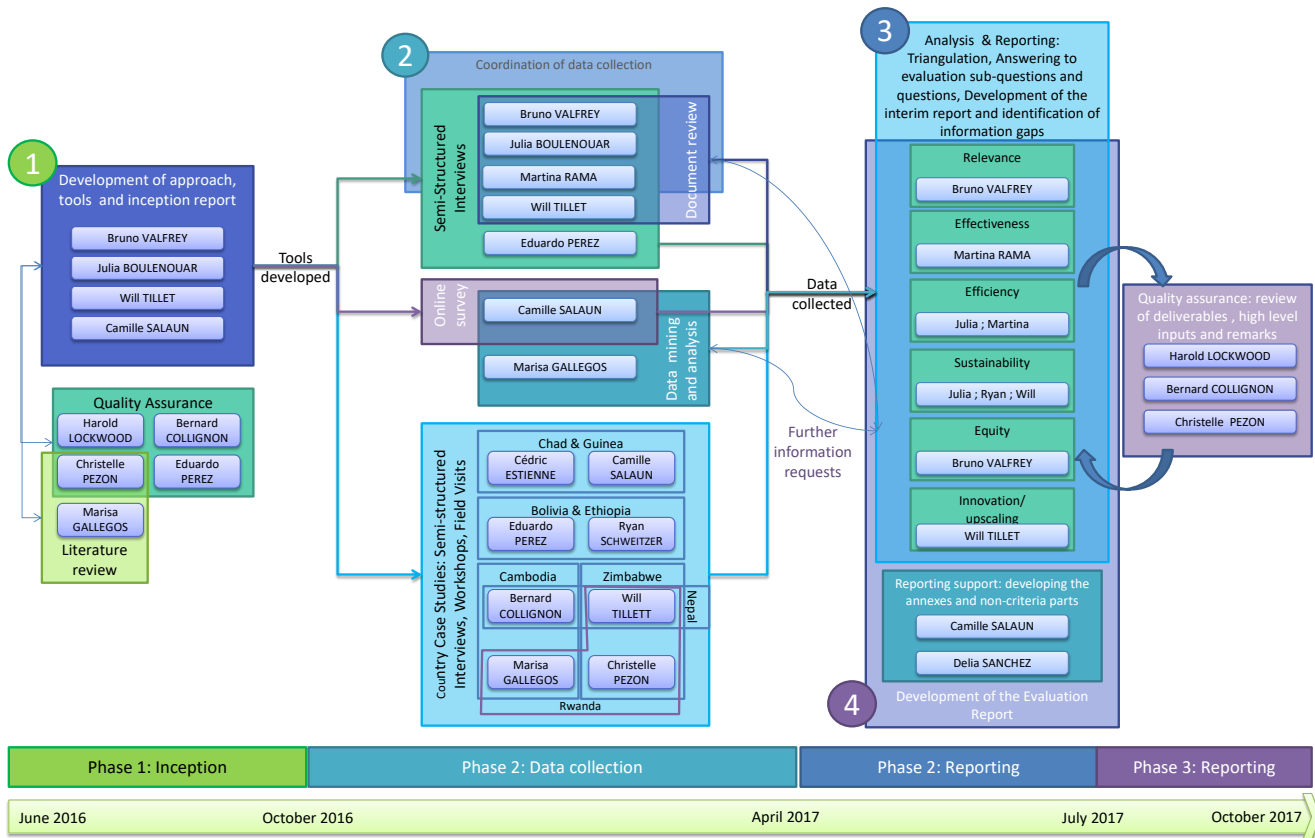
**EXAMPLE 3:** Evaluation criteria: equity. Area of inquiry: inclusion of equity considerations in programme design and implementation.

Programme design and implementation	<ul style="list-style-type: none"> <li>• Lack of systematic and holistic approach to equity in programming; corporate guidance/checklists not known or used</li> <li>• Involvement of women in water user committees mainstreamed in all country programmes</li> <li>• Participation of other vulnerable and marginalized groups in committees promoted in only four countries</li> <li>• Lack of special considerations for remote or pastoralist groups in water point siting and for technology designs adapted to children and disabled and elderly people in most evaluated country programmes</li> <li>• Promotion of manual drilling in numerous favourable contexts, making it possible to improving remote communities' access to drinking water</li> <li>• Approach to community contribution to investment costs and tariff setting benefiting the poorest households in the short term</li> </ul>	
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Two findings related to this area of inquiry are positive, three are negative and one is mixed, leading to 'yellow' performance scoring



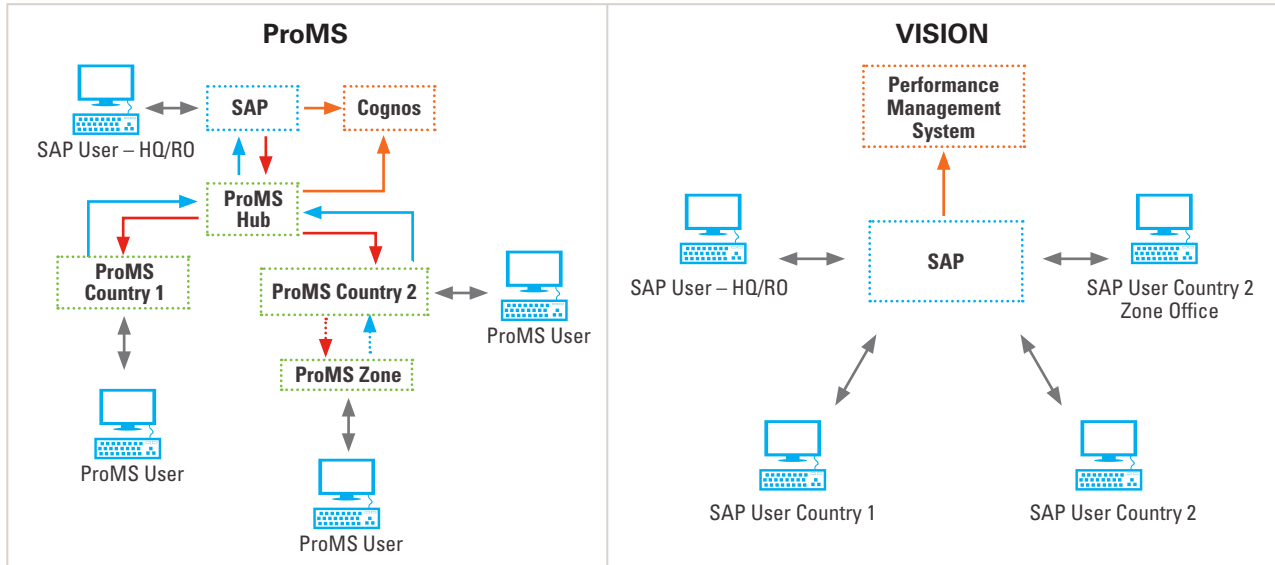
## Annex B5: Evaluation organization chart and timeline



Source: Authors

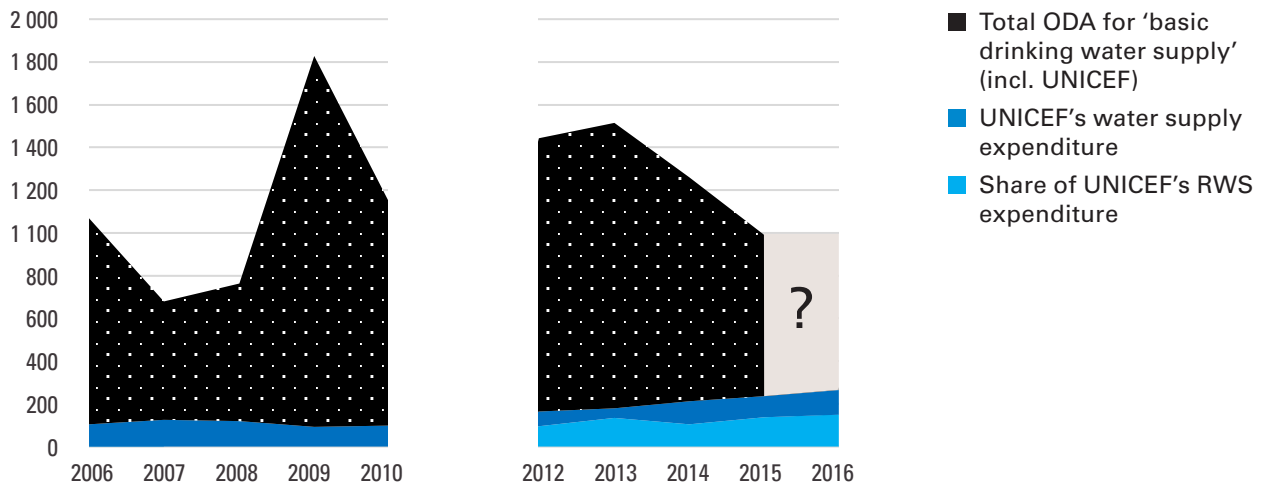
# ANNEX C: EFFECTIVENESS

## Annex C1: Simplified view of the financial system architecture under the Programme Management System (ProMS) and VISION



Source: UNICEF VISION training module, Basic SAP Navigational, August 2011

## Annex C2: Share of UNICEF water supply expenditure 2006–2016 in total sector ODA commitments (in million USD)



Source: UNICEF WASH annual reports 2006–2016 and OECD/DAC Creditor Reporting System, as of September 2017\*

\* UNICEF expenditure data for 2011 is not available. OECD/DAC ODA figures for 2016 are not yet available.

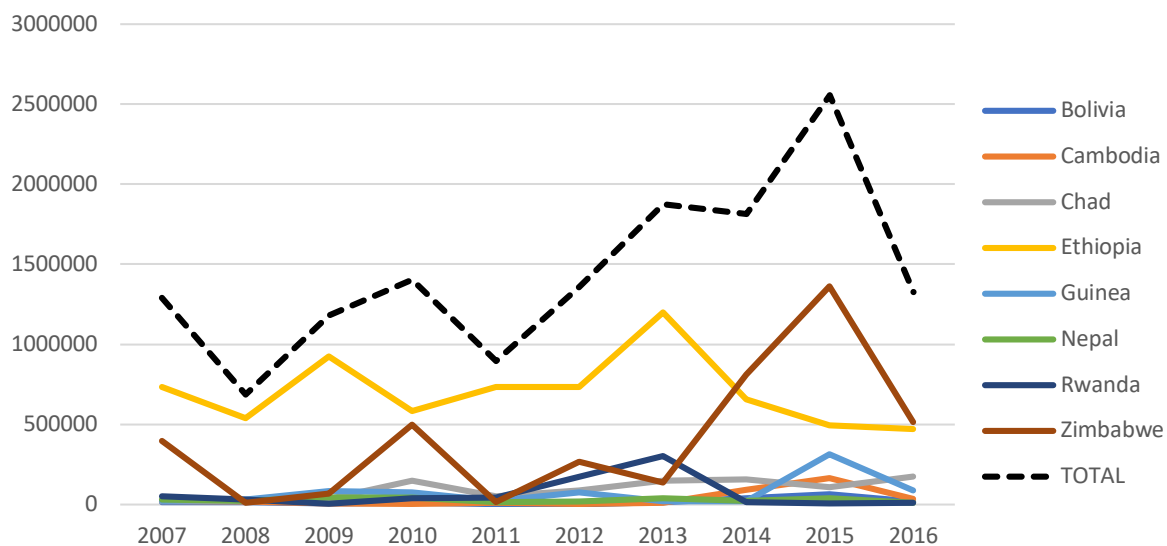


### Annex C3: UNICEF’s contribution to the water-related MDG, 2007–2015 (in million people)

		2007	2015	Total 2007-2015
UNICEF reported beneficiaries	A Development programming	5.5	14.1	79.8
	B Emergency programming	9.4	25.5	152.0
	C Total (all beneficiaries)	14.9	39.6	231.8
Number of people who gained access to improved water sources globally (JMP)	D Rural areas only	35.9	18.9	298.5
	E Total (rural and urban)	108.2	95.1	976.6
UNICEF contribution to the MDG	F UNICEF’s development beneficiaries / all people who gained access in rural areas (A/D)	5.1%	14.8%	8%
	G All UNICEF beneficiaries (development and emergencies) / all people who gained access (A/E)	13.8%	41.6%	24%

**Source:** UNICEF WASH annual reports, country office annual reports and SMQs 2007–2016; JMP data 2016. Note: beneficiary disaggregation by gender not available.

### Annex C4: Evolution of the number of water beneficiaries in the eight case study countries, 2007–2016

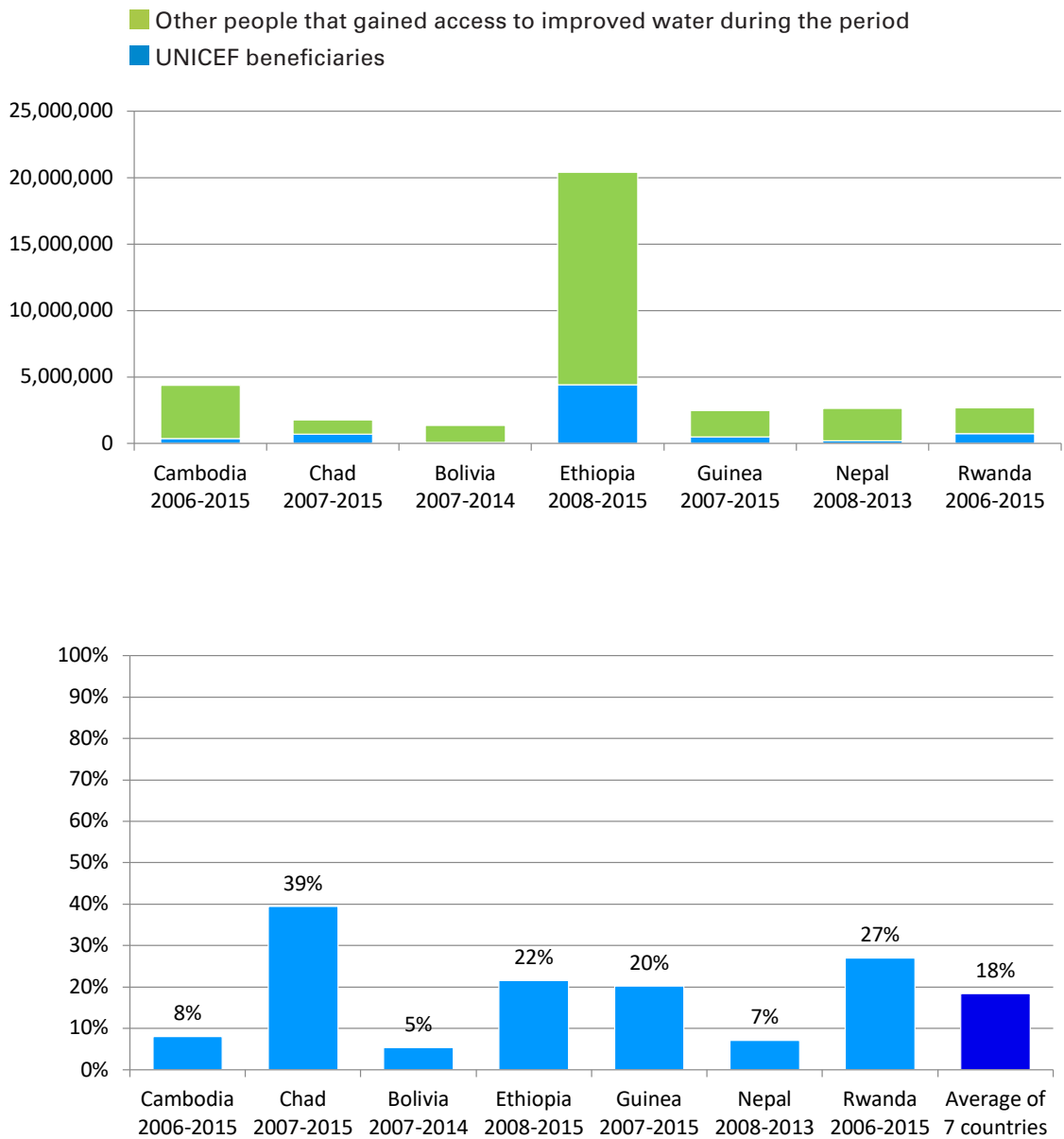


**Source:** Country office annual reports\*

\* Beneficiary data missing for some years have been estimated based on the average number of beneficiaries reported by UNICEF for the nearest (previous and next) years.



### Annex C5: UNICEF's estimated share in the number of new people using improved water sources in the seven case study countries, 2007–2015

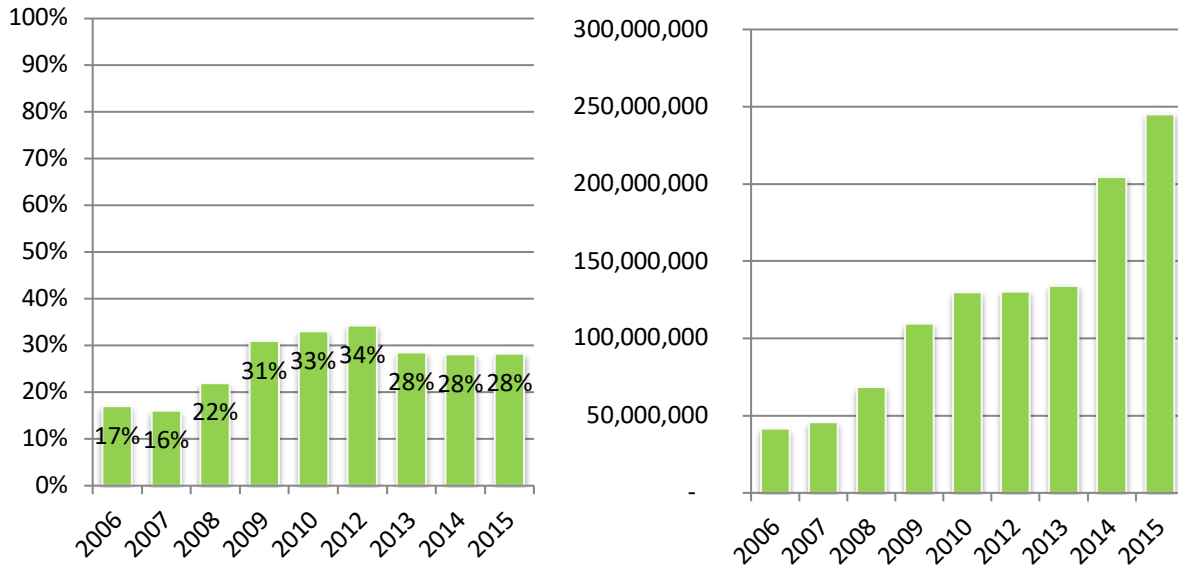


Source: Country office annual reports\* and JMP data 2016

\* Beneficiary data missing for some years have been estimated based on the average number of beneficiaries reported by UNICEF for the nearest (previous and next) years.

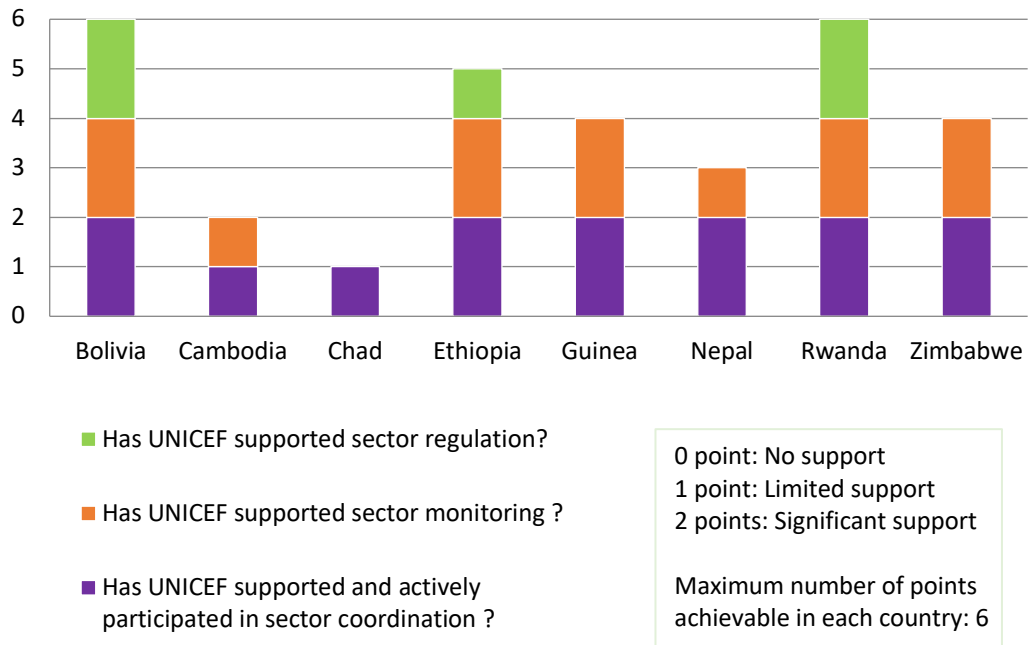


**Annex C6: Evolution of UNICEF expenditure in the WASH enabling environment, 2006–2015**



Source: UNICEF WASH global annual reports (2006–2010) and VISION (2012–2015)

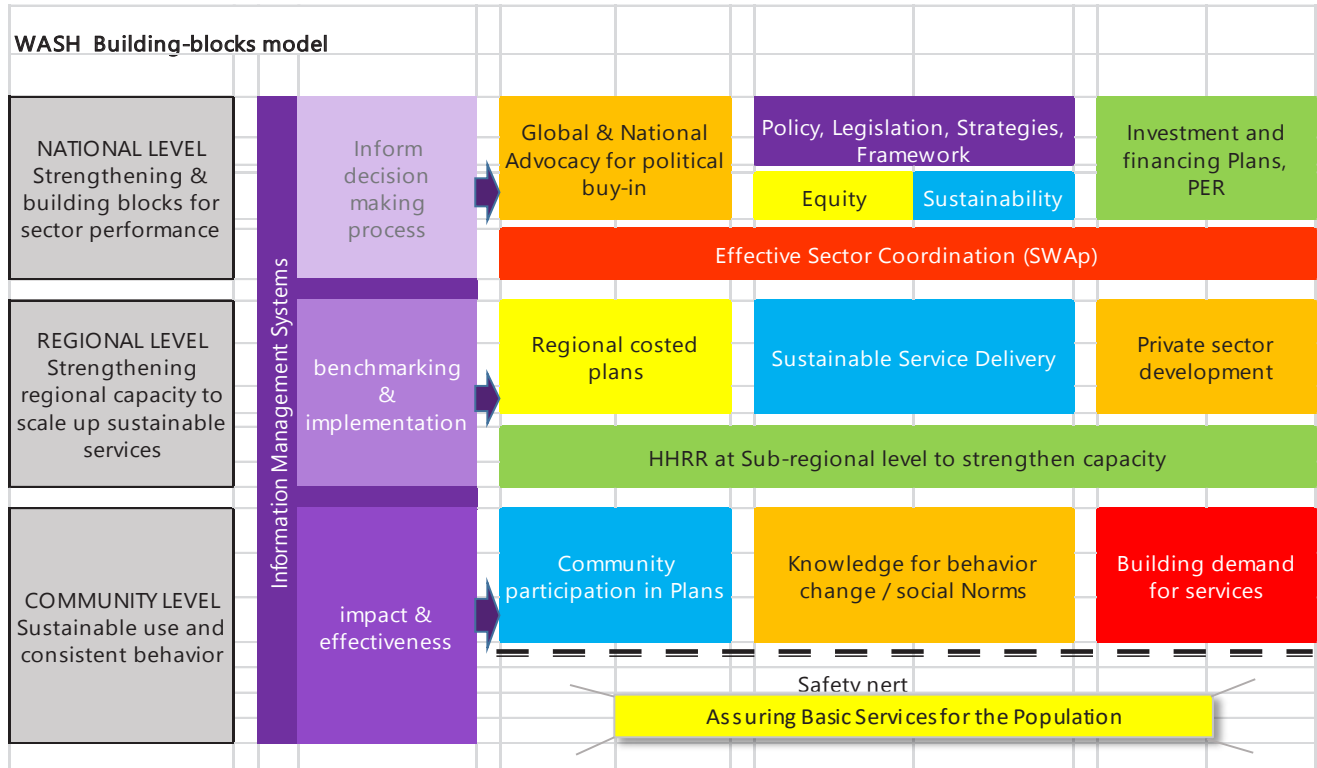
**Annex C7: UNICEF’s support to RWS sector reform in the eight case study countries, 2010–2015**



Source: Workshop participant survey in country case studies



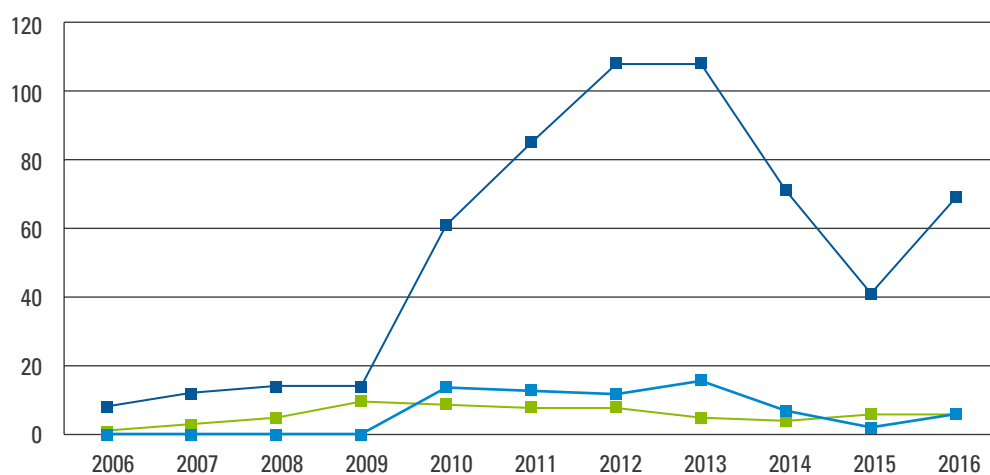
## Annex C8: Conceptual framework for UNICEF’s enabling environment strategy in Madagascar



Source: UNICEF Madagascar WASH Strategy, 2015–2019



## Annex C9: Number of WASH and RWS knowledge products, 2006–2016



	WASH knowledge products	RWS knowledge products	RWS evaluations
2006	8	0	1
2007	12	0	3
2008	14	0	5
2009	14	0	10
2010	61	14	9
2011	85	13	8
2012	108	12	8
2013	108	16	5
2014	71	7	4
2015	41	2	6
2016	69	6	6

**Source:** Inventory of WASH knowledge management products, UNICEF WASH section, New York Headquarters, 2017

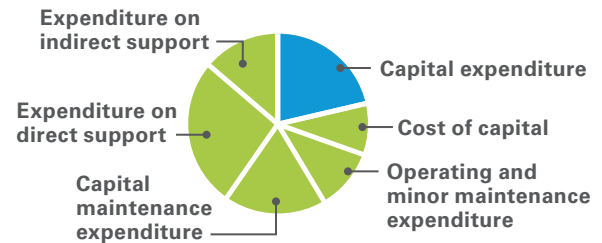




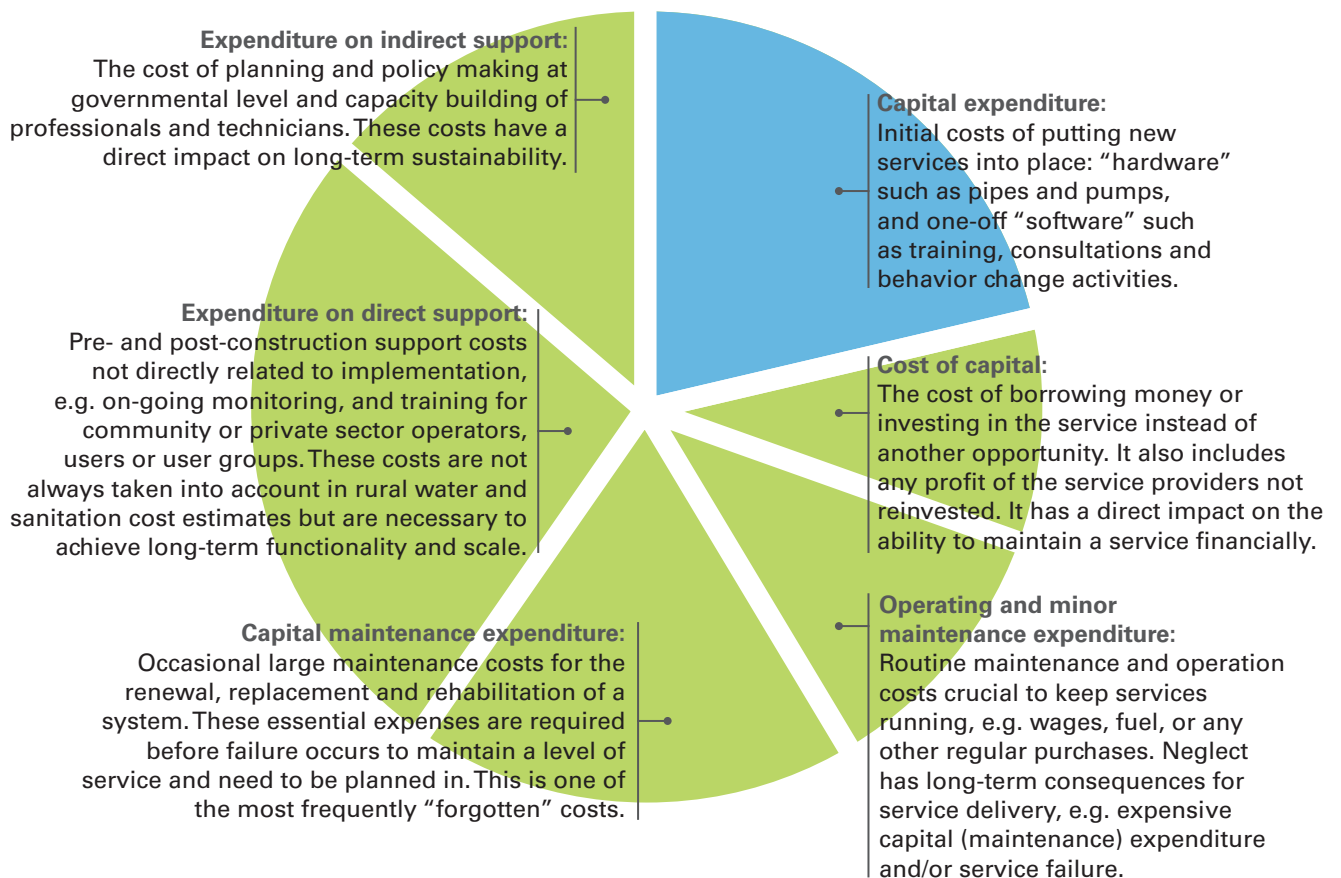
# ANNEX D: EFFICIENCY

## Annex D1: Life-cycle cost components for water services

- Recurrent expenditure on maintaining an existing service at its intended level
- One-time expenditure on providing, extending or upgrading a service



**Source:** Kaiser/Sustainable Sanitation and Water Management, 2012, adapted from IRC International Water and Sanitation Centre, 2011



**Source:** Kaiser, adapted from IRC, 2011



## Annex D2: UNICEF's costs per capita vs. sector benchmark / country comparator in 14 countries, 2006–2016 (in USD)

Date	Source of info UNICEF	Country	UNICEF	Comparator
2007–2013, 2014–2016	Average data from SHEWA-B programme evaluation and ASWA 1 evaluation	Bangladesh	43,83	21,0
2005–2013	Oxford Policy Management & Trémolet Consulting VFM report	Ethiopia	23,6	19,6
2009–2013	WASH programme evaluation	Kenya	19,0	24,0
2014–2016, 2013–2015	Average data from WYG/Toomey ASWA 1 evaluation, and EO VFM analysis for ASWA 1	Madagascar	12,3	21,4
2011–2015	UNICEF Mali rural water supply programme cost data	Mali	35	91,7
2013–2017	Evaluation of DGIS' support to UNICEF WASH	Mauritania	35,0	87,9
2007–2011, 2011–2013	Oxford Policy Management & Trémolet Consulting VFM report	Mozambique	38,1	28,3
2014–2016	Average data from WYG/Toomey ASWA 1 evaluation, and EO VFM analysis for ASWA 1	Myanmar	10	43,6
2013–2014, 2014–2016	Average data from WYG/Toomey ASWA 1 evaluation, and EO VFM analysis for ASWA 1	Nepal	59,09	53,1
2014–2015, 2014–2016	Average data from WYG/Toomey ASWA 1 evaluation, and EO VFM analysis for ASWA 1	Niger	13,9	15,0
2010–2013	Oxford Policy Management & Trémolet Consulting VFM report	Nigeria	27,5	20,4
2009–2013	WASH programme evaluation	Philippines	21,1	24,0
2014–2015, 2014–2016	Average data from WYG/Toomey ASWA 1 evaluation, and EO VFM analysis for ASWA 1	South Sudan	8,4	15,0
2014–2016	WYG/Toomey ASWA 1 evaluation	Yemen	10	43,8
<b>Average</b>			<b>25,5</b>	<b>36,3</b>


Source: Authors

Procurement modalities vary across countries, mainly depending on the country office general strategy, and the level of capacity of the various RWS implementing partners available in-country. Each modality has its own advantages and risks:

- Procurement from global/regional market/providers
- Country office or field office led
- Implementing partners: NGOs or the government
- Subnational authorities



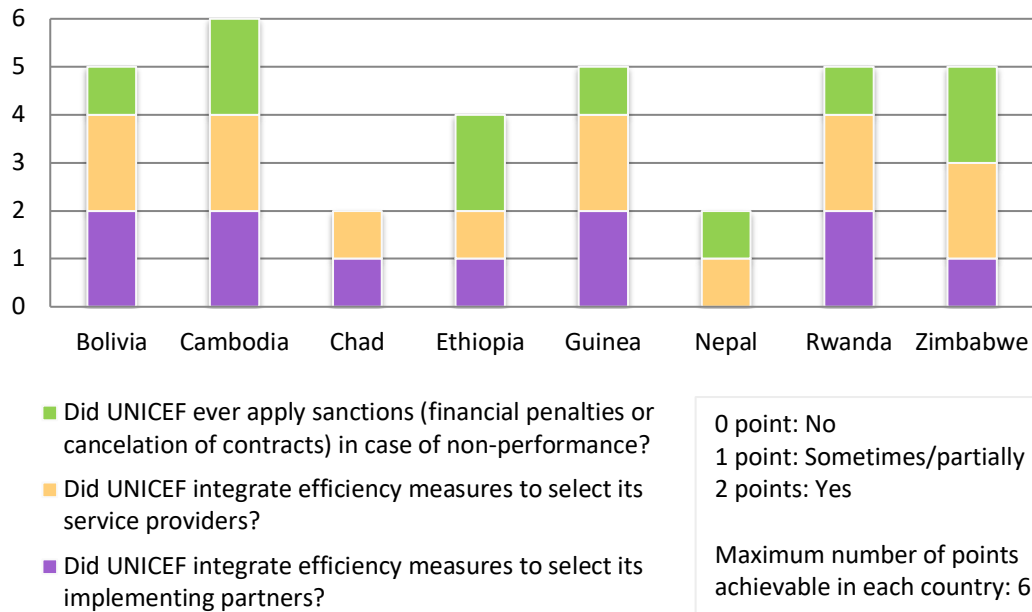
### Annex D3: Advantages and disadvantages of centralized vs. decentralized procurement and contract management arrangements

Level of decentralization	Type of procurement/ contract management	Context/ conditions	Advantages	Risks/ disadvantages
Centralized  ↓ Decentralized	Global/regional	Very big lots/ multi-country programmes  Fragile states  Absence of local market	Cheaper prices (economies of scale)  More control on quality	Fragile local market  Hinders ownership  Difficult operation and maintenance (spare parts not available locally)
	Country – UNICEF	‘normal’ situation	Control on processes  Control on quality	Big lots and entry barriers discourage small and medium enterprises  Slow process
	Country – Government	Strong leadership  Good/trust relationship	Empowers government  Legitimation/ ownership  Cheaper prices than UNICEF	Slow process  Dependent on government capacity  Lack of transparency
	Country – non-government implementing partner	Good capacity for procurement (international NGO) or small/ limited lots	Usually faster than UNICEF  Less administrative burden on UNICEF staff	Limited control of quality  Sometimes, reduces UNICEF’s visibility
	Subnational	Strong decentralization  Sub-national lots	Strengthens decentralization and ownership	Slow process  Dependent on capacity  Risk of political intrusion

Source: Authors

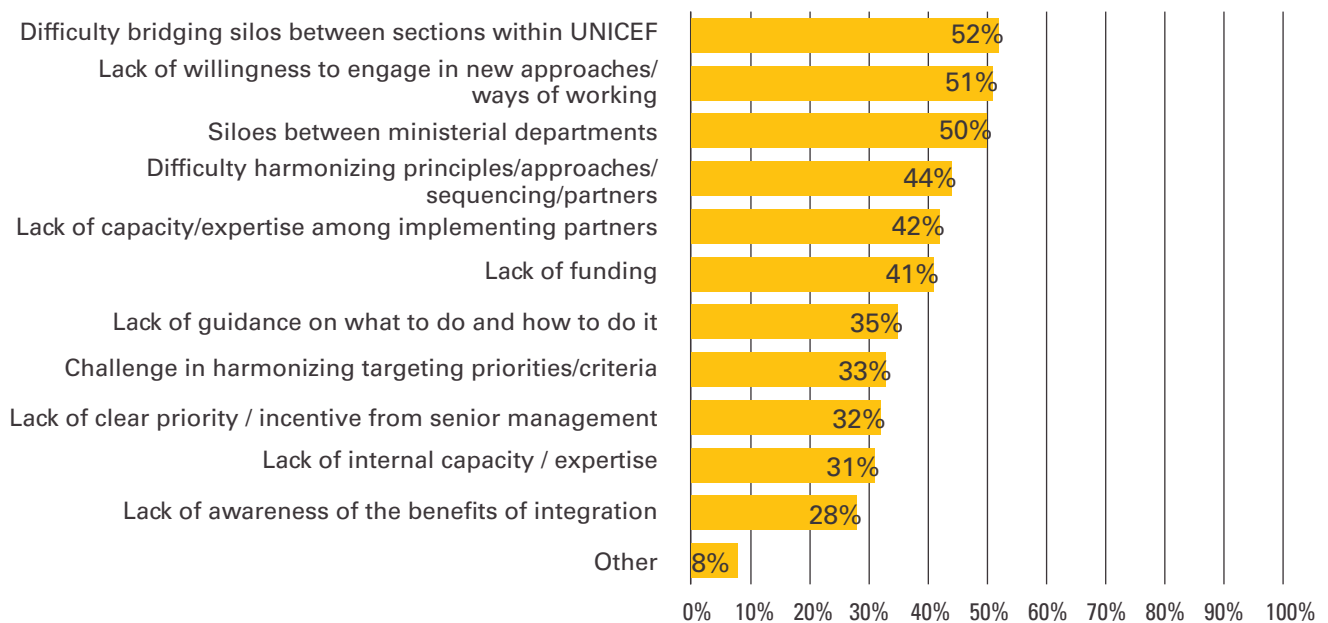


### Annex D4: Integration of selected efficiency measures in contract and partnership management in case study countries, 2011–2015



Source: Interviews with UNICEF staff in case study countries

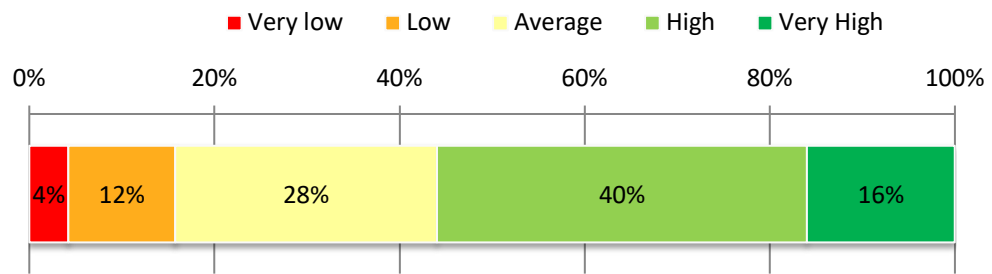
### Annex D5: Constraints to integrated RWS programming



Source: Online survey; number of respondents: 224, of which 140 were UNICEF staff



## Annex D6: Overall competence of UNICEF RWS staff



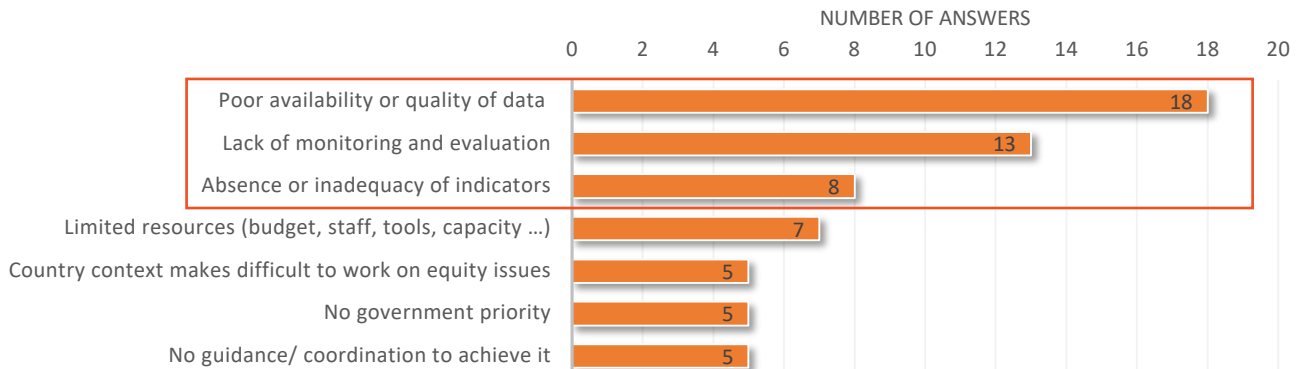
**Source:** Online survey; number of respondents 520 (including 240 UNICEF staff)

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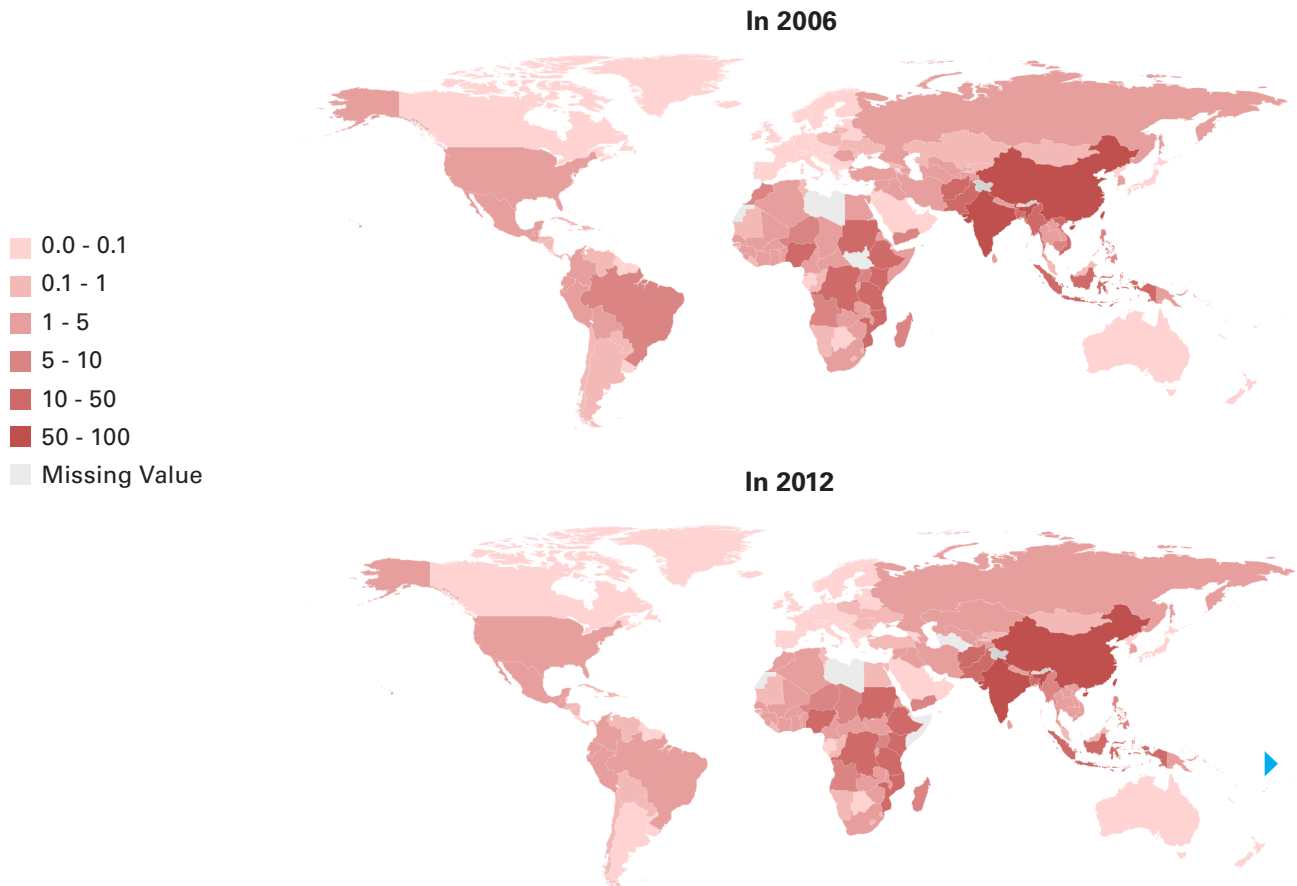
# ANNEX E: EQUITY

## Annex E1: Constraints to equity-focused monitoring and reporting in UNICEF



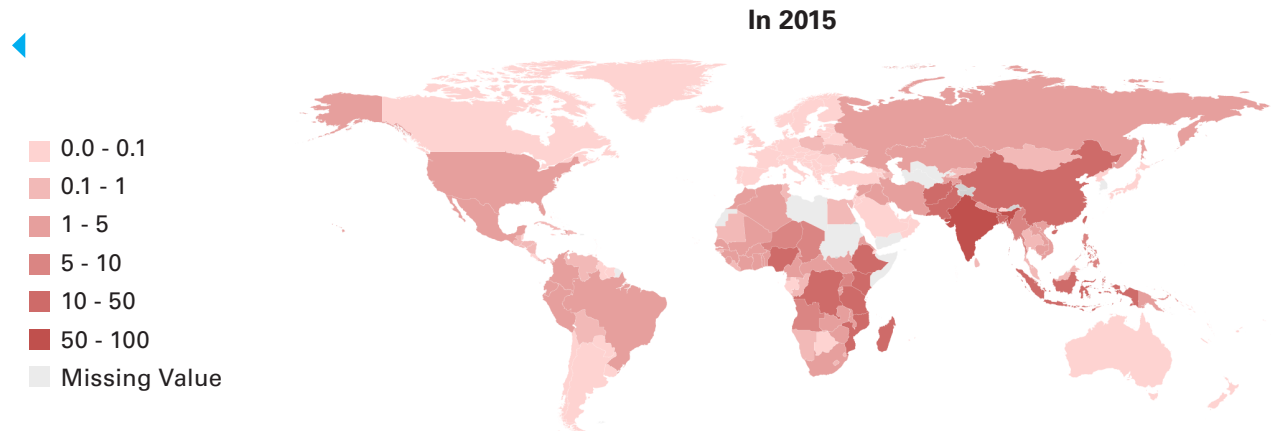
Source: Online survey; number of respondents: 60

## Annex E2: Rural population using unimproved water sources (in absolute number), by country



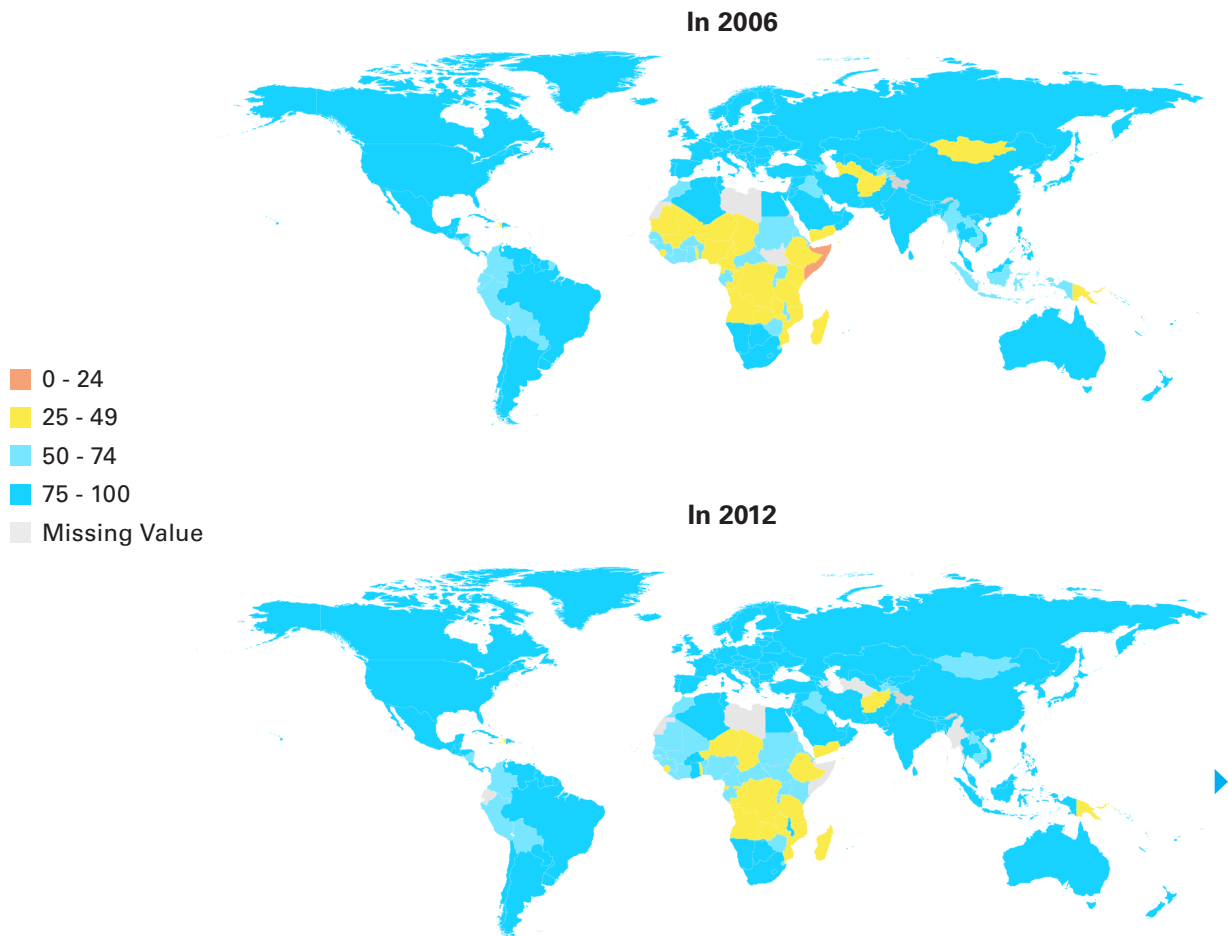


ANNEX E2 (cont'd)



Source: JMP 2015

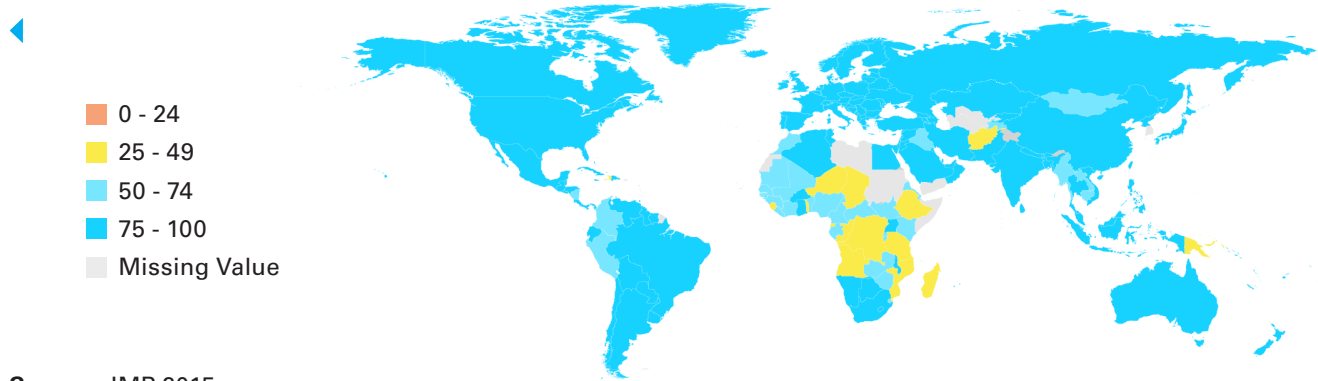
**Annex E3: Rural population using improved water sources (in percentage), by country**





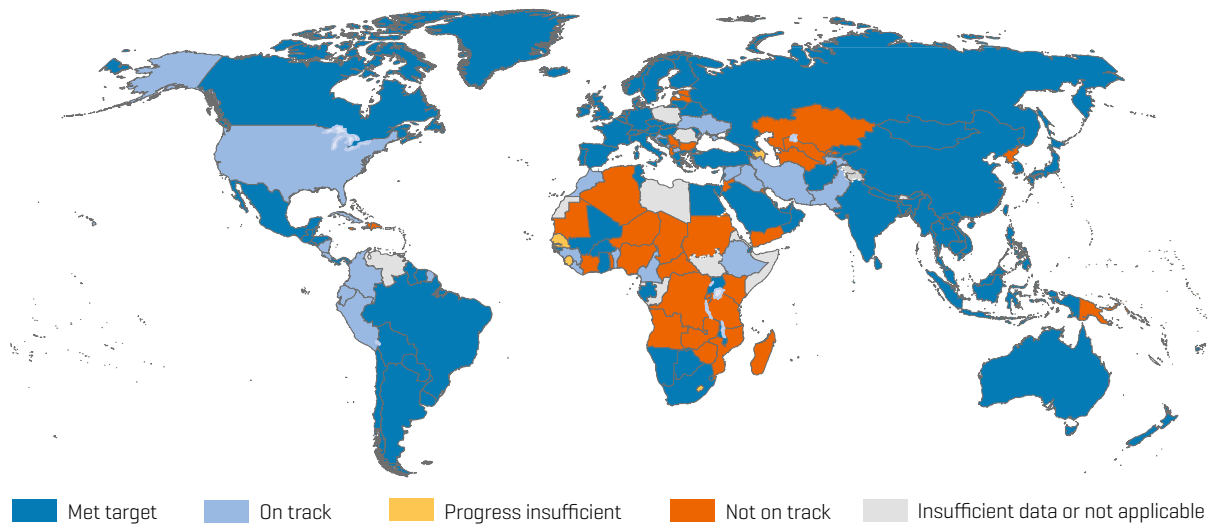
ANNEX E3 (cont'd)

In 2015



Source: JMP 2015

Annex E4: Progress towards the water MDG in 2012, by country

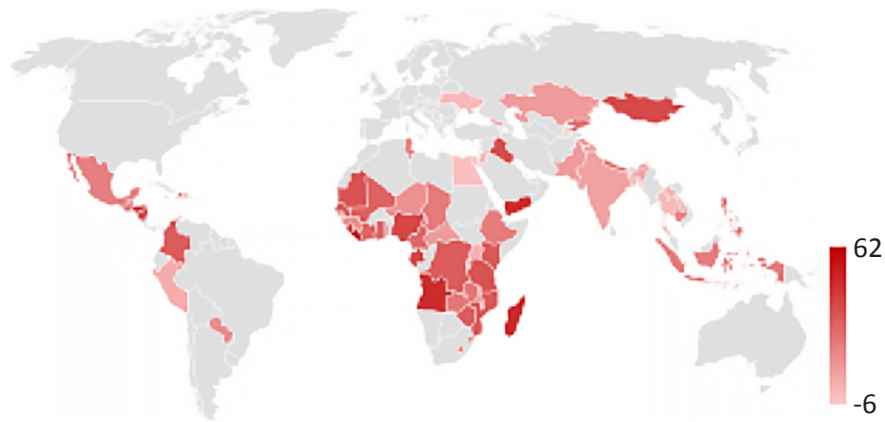


Source: JMP 2014



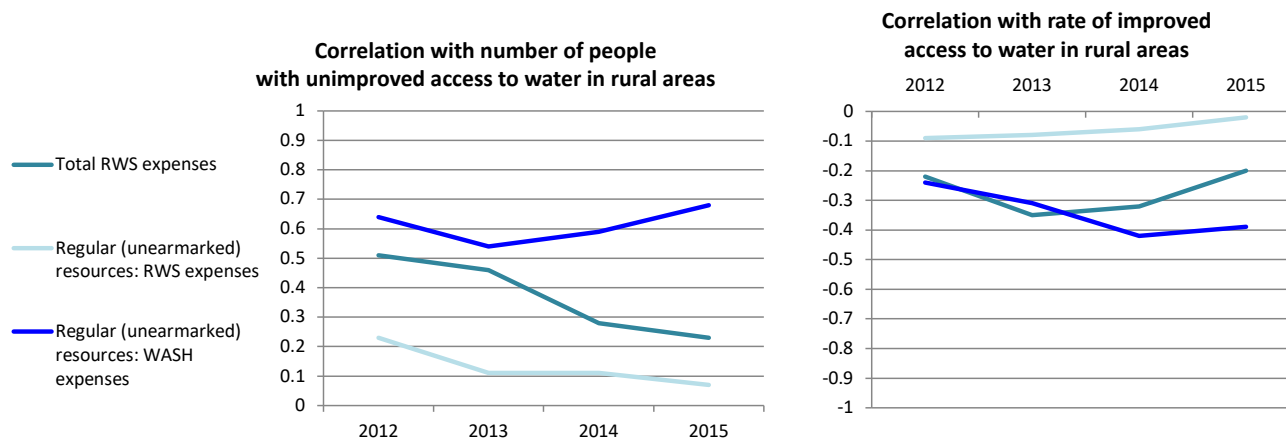


**Annex E5:** Gap in RWS coverage between highest and lowest quintile in 2012, by country (difference in percentage point)



Source: JMP 2012

**Annex E6:** Evolution of the correlation between expenditure and access to water in rural areas, 2012–2015

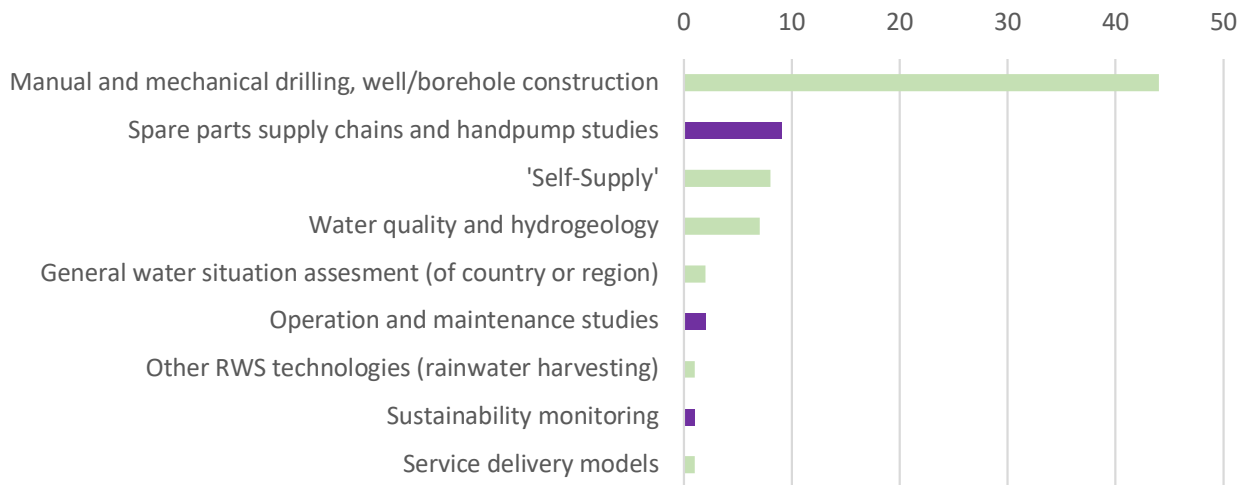


Source: JMP and VISION data, 2012–2015



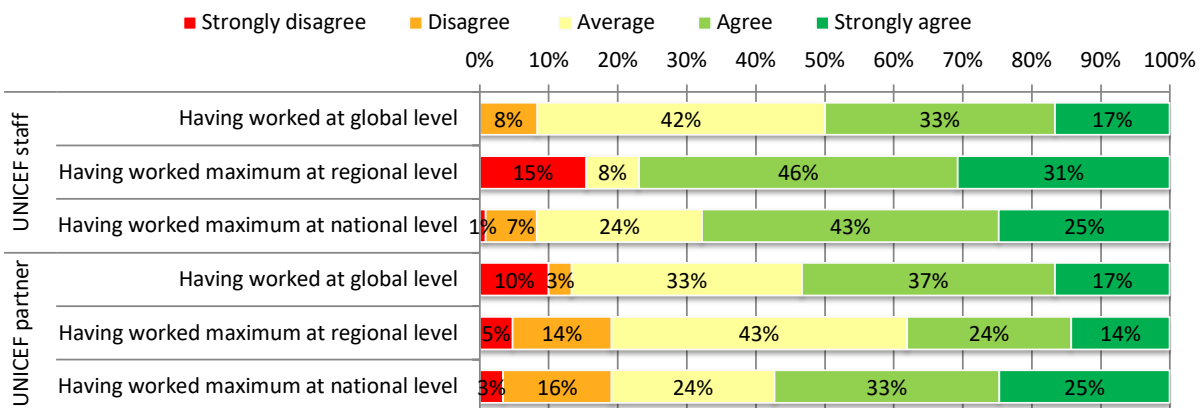
# ANNEX F: SUSTAINABILITY

## Annex F1: Distribution of RWS-related knowledge products by topic



Source: Inventory of WASH knowledge products 2000–2014, 2017 update

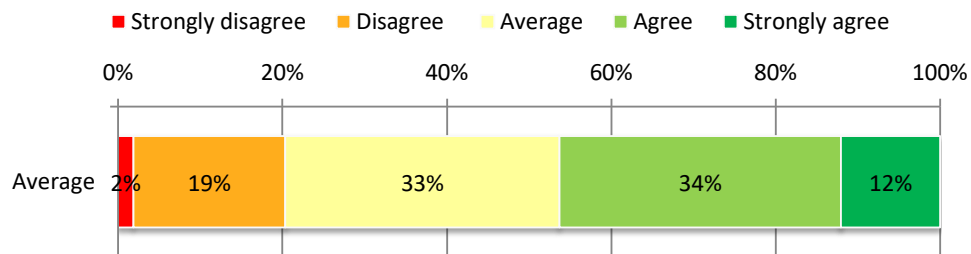
## Annex F2: Opinions about UNICEF having advocated for a greater sustainability focus in the sector



Source: Online survey; number of respondents: 326 (UNICEF staff and UNICEF partners)



### Annex F3: RWS sector stakeholders' opinions on the extent to which UNICEF has implemented measures in its RWS programming to strengthen sustainability



**Source:** Online survey; number of respondents: 108 (UNICEF staff and UNICEF partners)

### Annex F4: The community-based management model and the rationale behind it

This model takes the form of a small group of villagers designated or elected as a water point user committee\*, with responsibilities for maintaining and repairing the water point and collecting and saving community financial contributions. In theory, the committee benefits from the technical support and oversight of the local authority and/or the local department of the line ministry. This model came as a reaction to the centralized provision of water which was prevalent from the 1950s and 1960s onwards and faced a number of challenges as the service developed in rural areas. It was expected to support sustainability in various ways. Making the community in charge of the management, maintenance and payment of the service was assumed to lead to greater ownership. Giving them and locally-based technicians the responsibility and training to carry out (minor) repairs themselves locally was meant to lead to quicker response to breakdown. The community has a direct interest in ensuring that the conditions to sustain the service are in place. Based on this theory, the community-based management model has been widely implemented across the developing world since the 1980s.

**Source:** 'Is Community Management an Efficient and Effective Model of Public Service Delivery? Lessons from the rural water supply sector in Malawi', *Public Administration and Development*, vol. 35, no. 4, 8 December 2015, pp. 263–276. 'Detailed Review of a Recent publication: Rural water supply systems cannot succeed with community management alone', *WaSH Policy Research Digest*, no. 6, The UNC Water Institute, University of North Carolina at Chapel Hill, August 2017.

\* Various denominations exist such as water point committee, water users' association, WASHCO or WASHCOM, depending on the country, the level of formalization of the committee, and the scope of its mandate.

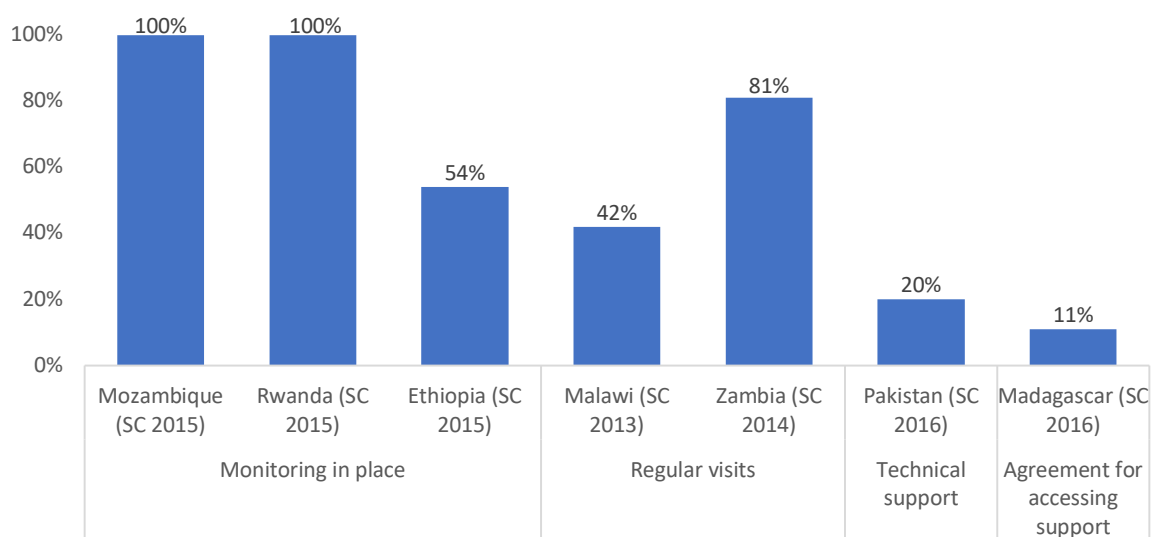


## Annex F5: RWS service providers' capacity in UNICEF-supported communities

Country	Existence of a service provider	Service provider understands their roles	Functionality of service providers
Burundi (Evaluation 2013)	95%	-	95%
Côte d'Ivoire sustainability check (SC) 2016	96.8%	-	73%
Democratic Republic of the Congo (SC 2014)	83%	72.6%	-
Ethiopia (SC 2015)	63%	48%	73%
Ghana (SC 2015)	-	89.5%	-
Kenya (SC 2015)	98%	-	85%
Madagascar (SC 2016)	85%	-	-
Malawi (SC 2013)	98%	-	79%
Mali (SC 2015)	63%	-	-
Mauritania (SC 2015)	100%	-	100%
Mozambique (SC 2015)	-	78%	92%
Myanmar (SC 2016)	100%	100%	62%
Pakistan (SC 2016)	24%	74%	25%
Rwanda (SC 2015)	-	80%	-
Zambia (SC 2014)	74%	-	-
<b>Average</b>	<b>82%</b>	<b>77%</b>	<b>76%</b>

Source: Evaluation and sustainability check reports (listed in the left column)

## Annex F6: Proportion of service providers being monitored and supported on an ongoing basis

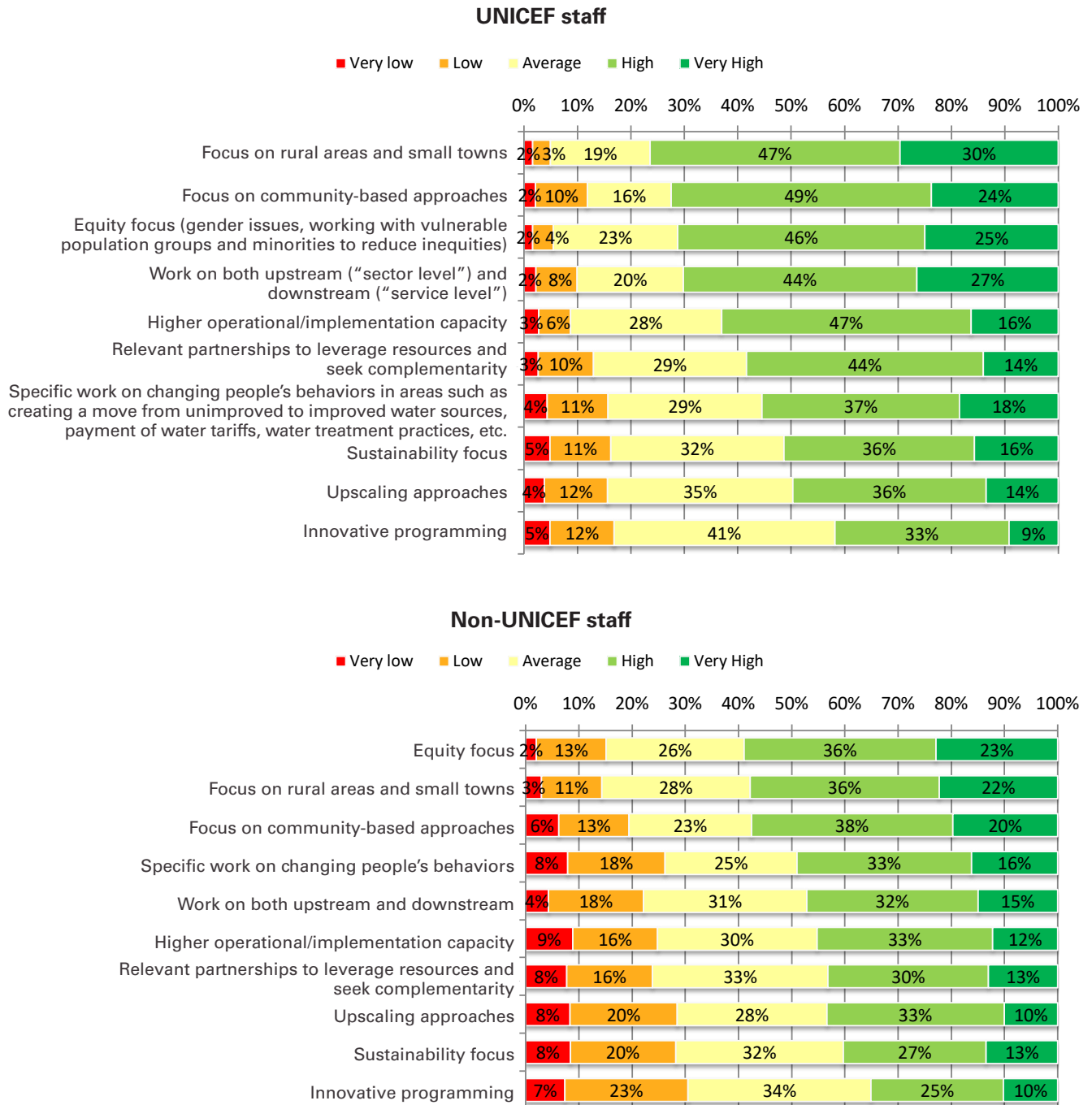


Source: Sustainability checks



# ANNEX G: INNOVATION

## Annex G1: Opinions on UNICEF’s added value in the water sector

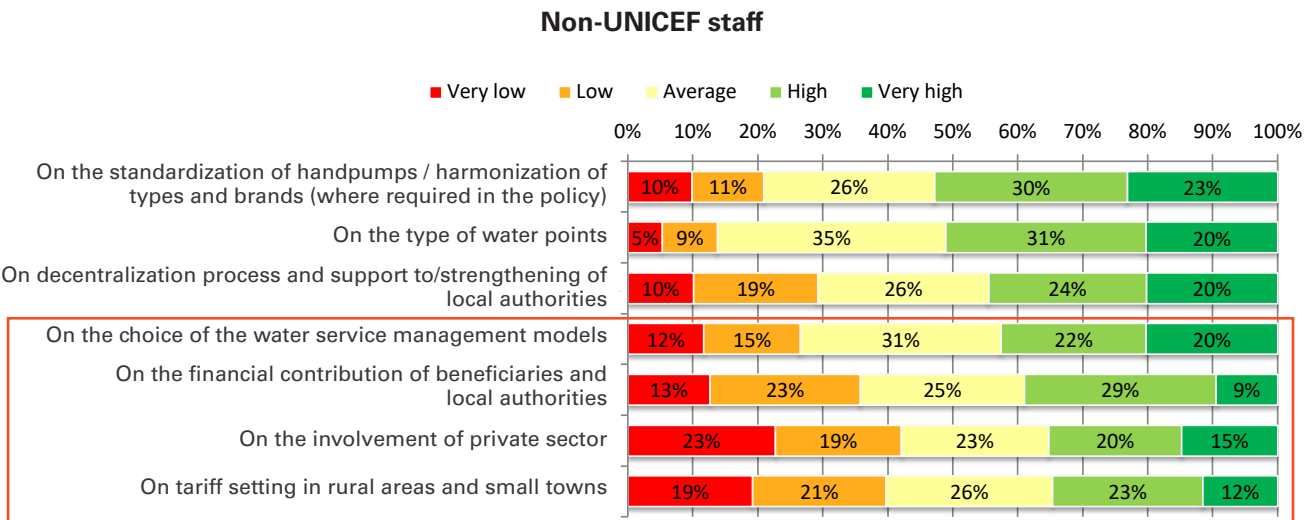
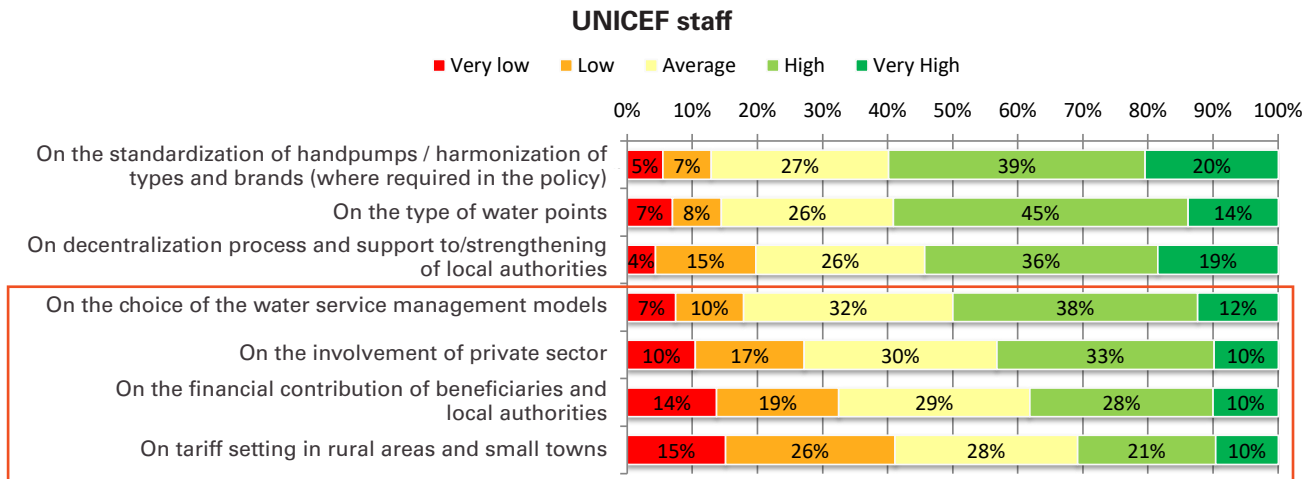


**Source:** Online survey; number of respondents: 185 UNICEF staff and 304 non-UNICEF staff



# ANNEX H: RELEVANCE

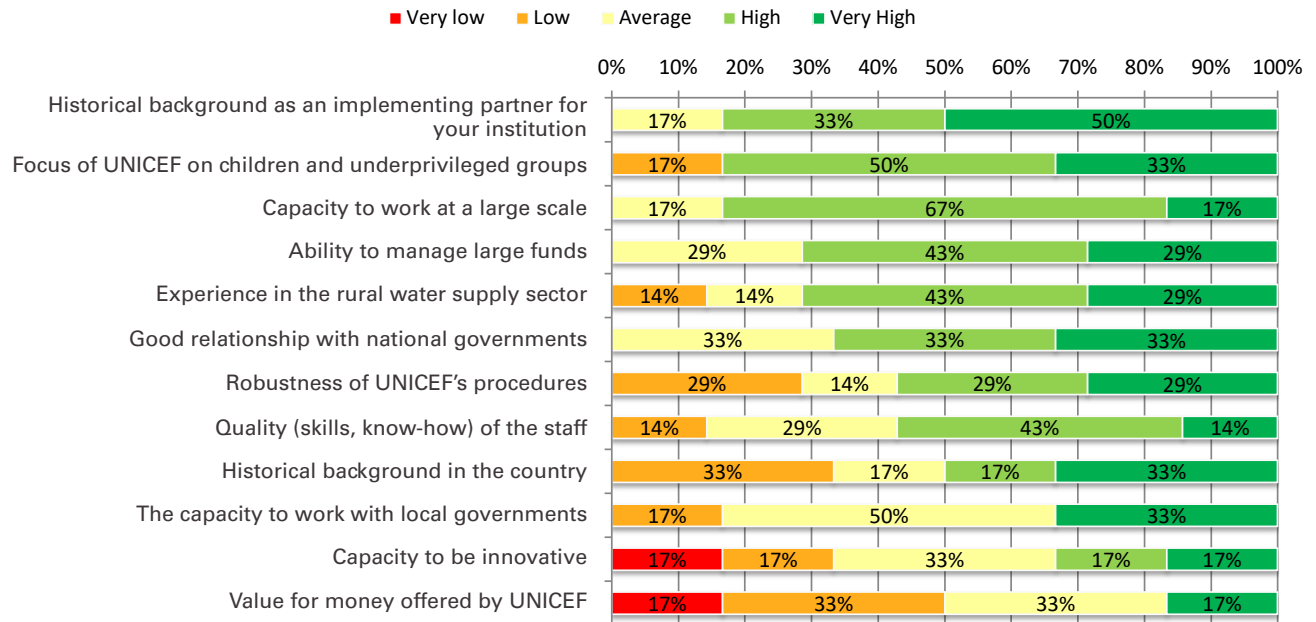
## Annex H1: Alignment to national policies: Breakdown by topics (UNICEF staff)



**Source:** Online survey, number of respondents (never involved as UNICEF staff): 95

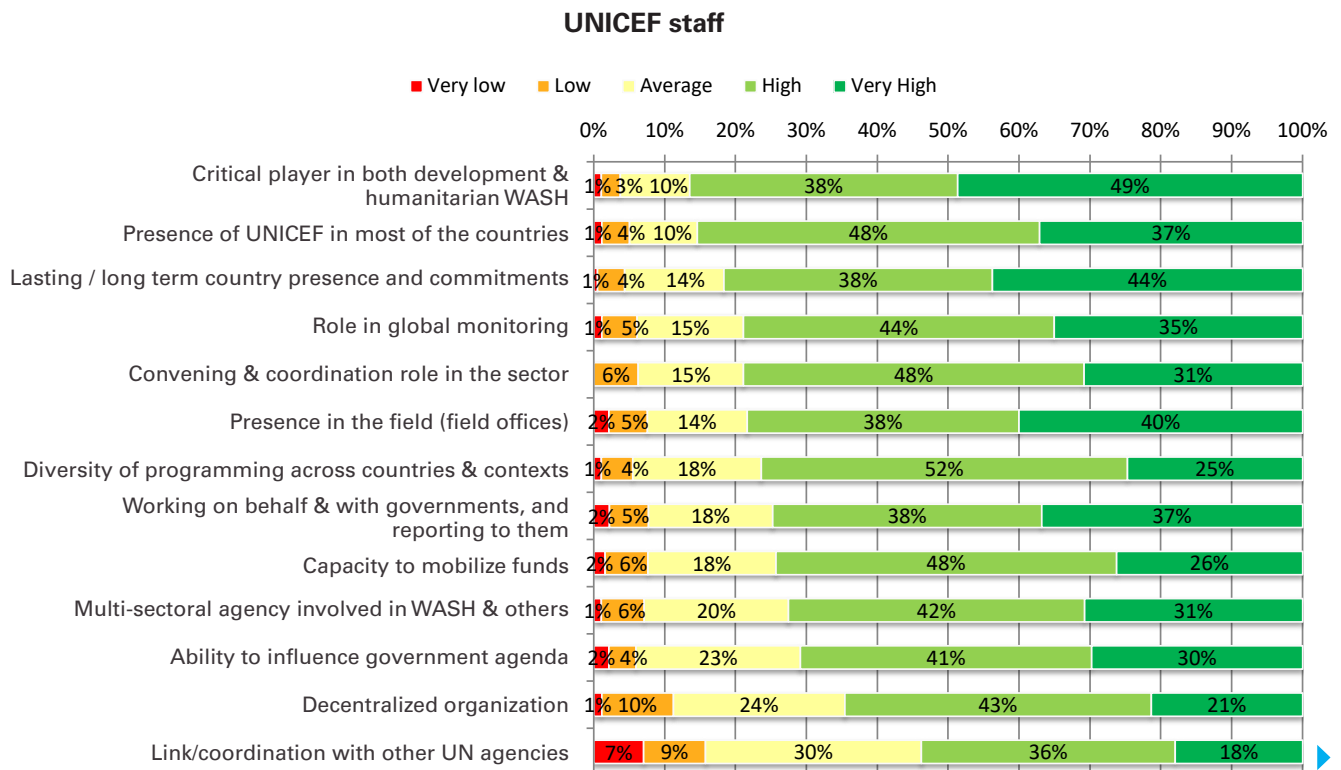


## Annex H2: Reasons why UNICEF’s main donors in RWS chose to fund UNICEF



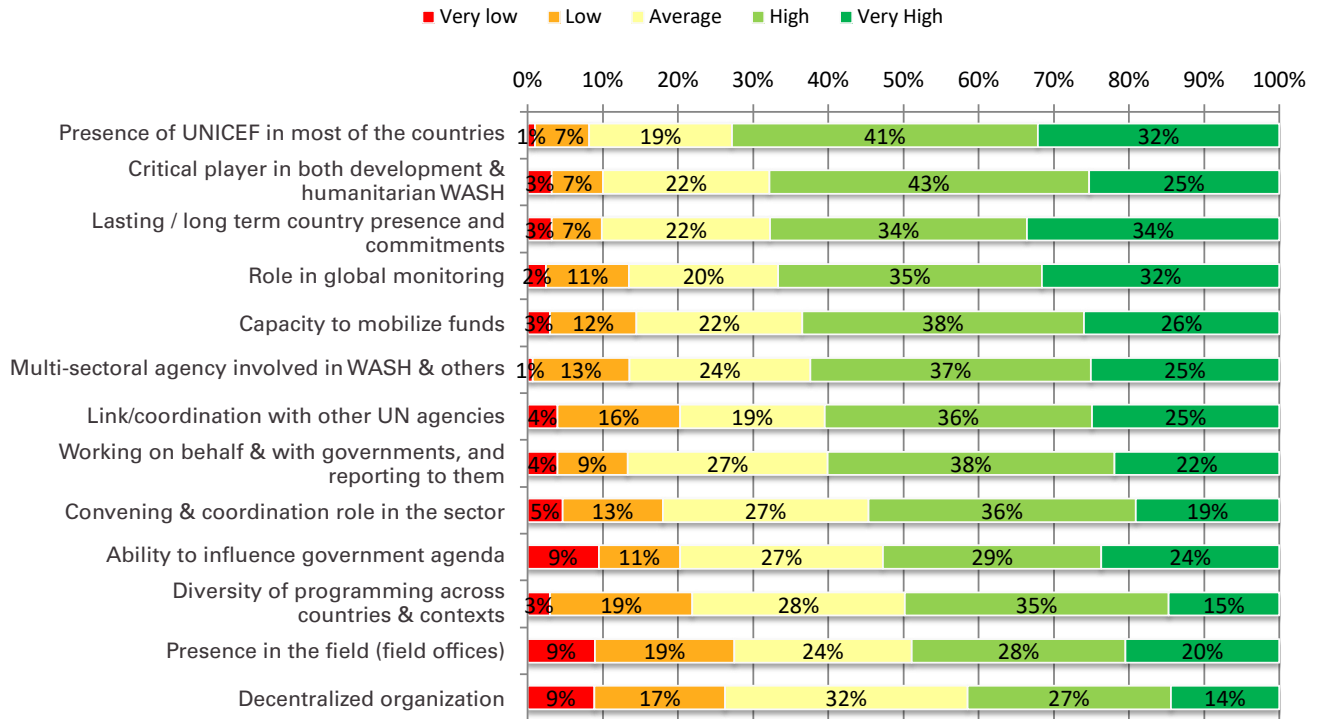
Source: Online survey; number of respondents: 7

## Annex H3: List of UNICEF’s comparative advantages in the RWS sector based on online survey responses





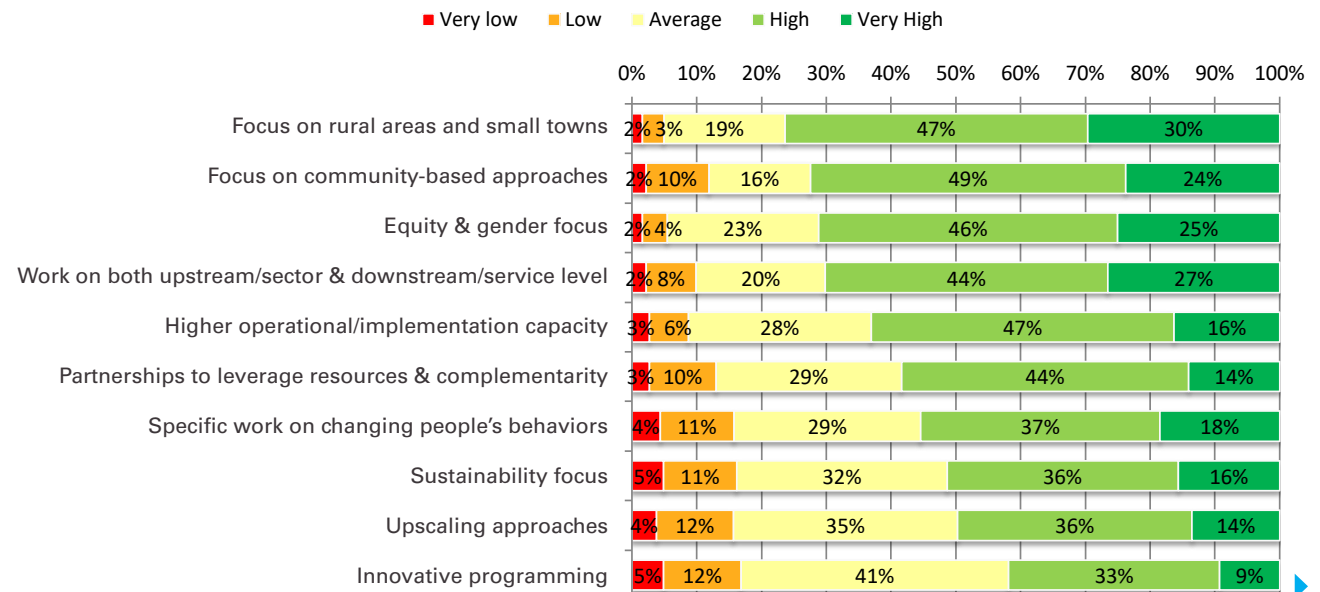
### Non-UNICEF staff



Source: Online survey; number of respondents: 185 UNICEF staff and 313 non-UNICEF staff

### Annex H4: Opinions on UNICEF’s added value in the water sector

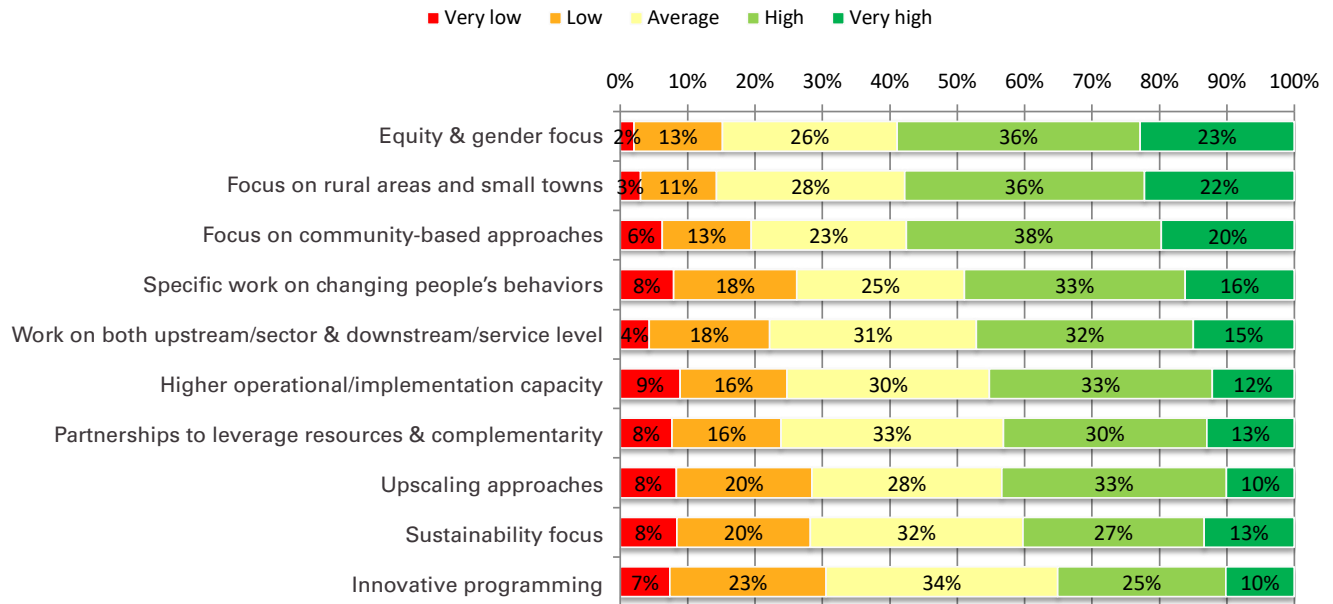
#### UNICEF staff





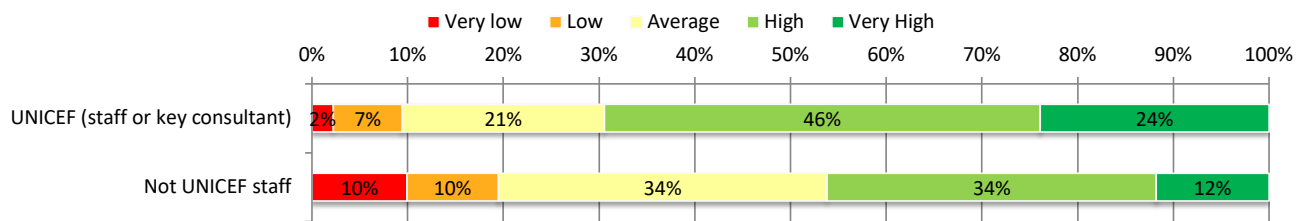


### Non-UNICEF staff



Source: Online survey; number of respondents: 185 UNICEF staff and 304 non-UNICEF staff

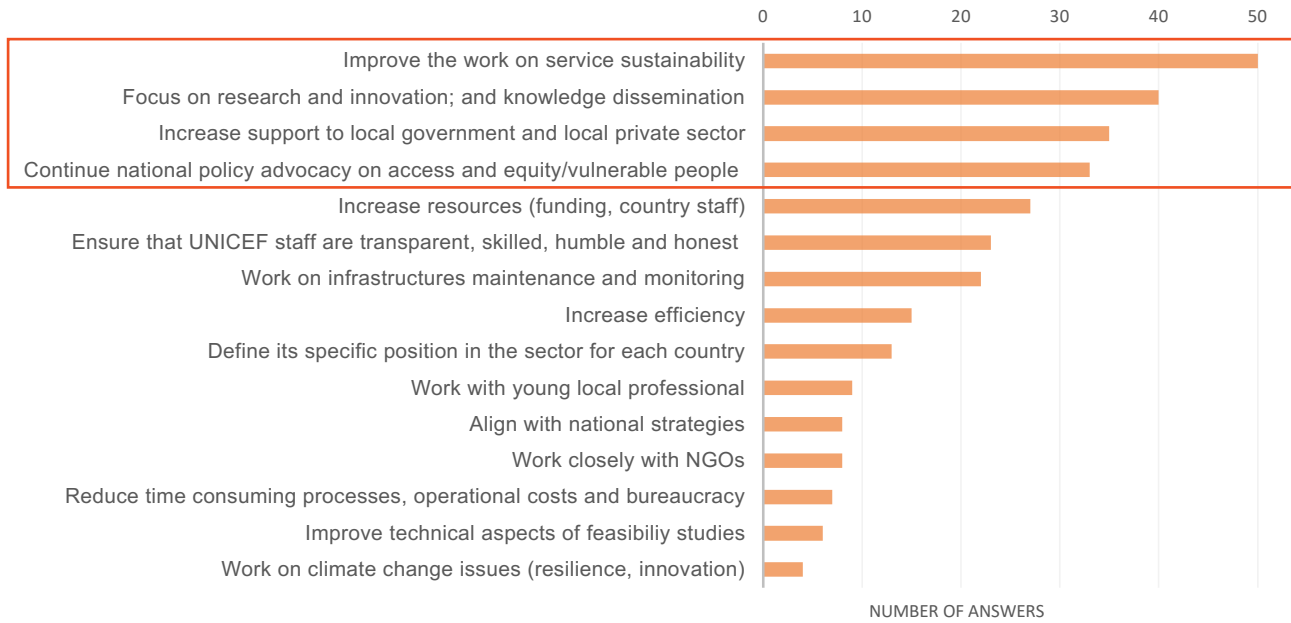
### Annex H5: Opinion on the extent to which UNICEF has coordinated with other stakeholders when choosing/targeting specific geographical areas



Source: Online survey; number of respondents: 180 UNICEF staff and 221 non-UNICEF staff



## Annex H6: Opinions about what would make UNICEF a stronger, more credible or better positioned actor in the RWS sector



**Source:** Analysis of additional suggestions made by online survey respondents complemented by key sector informant interviews at global and country levels, and case study country workshops; total number of respondents: 326



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## List of UNICEF WASH programme evaluation reports used for the evaluation

Country	Region	Year	Title	Quality rating
Bangladesh	SA	2014	Impact evaluation of the WASH SHEWA-B programme in Bangladesh	Highly satisfactory
Bolivia	Latin America and the Caribbean (LAC)	2011	Sistematización de más de 10 años (2000-2010) de trabajo del Programa de Agua y Ambiente Saludables de UNICEF en el área rural de Bolivia	No rating
Bosnia and Herzegovina	Central and Eastern Europe and the Commonwealth of Independent States (CEE/CIS)	2013	Final evaluation of the UN MDG Achievement Fund sponsored "Securing Access to Water through Institutional Development and Infrastructure" joint UNDP and UNICEF project in Bosnia and Herzegovina	Highly satisfactory
Burkina Faso	West and Central Africa (WCA)	2009	Evaluation des investissements en infrastructures réalisée par l'UNICEF au Burkina Faso (2006-2008)	Highly satisfactory
Burkina Faso	WCA	2012	Evaluation finale du projet « Approvisionnement en Eau Potable, Assainissement de base et Hygiène dans les provinces du Ganzourgou et de la Gnagna, Burkina Faso – 2007-2010»	Highly satisfactory
Burundi	Eastern and Southern Africa (ESA)	2013	Evaluation of the WASH project in the integrated rural villages of Rutana	Highly satisfactory
Djibouti	Middle East and North Africa (MENA)	2014	Evaluation du programme de Réhabilitation du quartier 4 de la ville de Djibouti, des systèmes d'approvisionnement en eau des villages ruraux et appui institutionnel pour la mise en oeuvre d'une politique sectorielle de l'eau 2007-2012	No rating
The Democratic Republic of the Congo	WCA	2009	Evaluation du programme "Village et Ecole Assainis" 2006-2008 en République Démocratique du Congo	No rating
The Democratic Republic of the Congo	WCA	2012	Evaluation du programme Ecole et Village Assainis 2009-2011	Mostly satisfactory
Democratic Republic of the Congo	WCA	2014	Etude de la Durabilité (Sustainability Study) de la Phase 1 Villages et Ecoles Assainis RD Congo	No rating



List of UNICEF WASH programme evaluation reports used for the evaluation (cont'd)

Country	Region	Year	Title	Quality rating
Egypt	MENA	2010	Assessment of revolving fund programme to improve hygiene and sanitation practice 2000-2010	No rating
Ethiopia	ESA	2010	Evaluation of the Netherlands-UNICEF Water Initiative	Mostly satisfactory
Ethiopia	ESA	2012	Final Evaluation of Government of Ethiopia/UNICEF-EU WASH Project	No rating
Ghana	WCA	2009	Evaluation of strategy for scaling up community led total sanitation in Ghana	Mostly satisfactory
Ghana	WCA	2012	Evaluation of the Government of Ghana - UNICEF Integrated Approach to Guinea Worm eradication through Water Supply, Sanitation and Hygiene in Northern Region, Ghana (I-WASH)	Highly satisfactory
Ghana	WCA	2009	Second Performance Monitoring Mission: An integrated Approach to Guinea Worm Eradication through Water Supply, Sanitation and Hygiene in the Northern Region of Ghana	Highly satisfactory
Guinea-Bissau	WCA	2009	Evaluation of the WASH activities undertaken to prevent and control cholera outbreak in Guinea Conakry and Guinea Bissau - A Systematic Review	Outstanding, best practice
Indonesia	EAP	2009	UNICEF Water and Environmental Sanitation Programme - Rapid Assessment	No rating
Indonesia	EAP	2013	Ex-post Evaluation of WASH programme	Mostly satisfactory
Kenya	ESA	2013	WASH Programme Review 2009–2013	No rating
Kenya	ESA	2016	End-of-Programme Evaluation - UNICEF Kenya WASH Programme 2008-2014	Fair
Lao PDR	EAP	2015	Evaluation of the Water, Sanitation and Hygiene (WASH) Programme of the UNICEF Country Programme 2012-2014	Satisfactory
Liberia	WCA	2013	An evaluation of ECHO- Funded Water, Sanitation and Hygiene (Urban WASH- II) Project in Monrovia, Liberia	Mostly satisfactory
Liberia	WCA	2012	Evaluation of WASH interventions in Urban Slums of Monrovia and Buchanan 2011-2012	Mostly satisfactory



List of UNICEF WASH programme evaluation reports used for the evaluation (cont'd)

Country	Region	Year	Title	Quality rating
Malawi	ESA	2008	Hygiene Promotion for Diarrhoeal Disease Prevention through the Government of Malawi Perinatal Care System	Mostly satisfactory
Malawi	ESA	2011	Mid-Term Review of UNICEF-Malawi implemented WASH Project	No rating
Malawi	ESA	2016	Evaluation of the Water and Sanitation (WASH) Programme in Malawi, 2007-2013	Satisfactory
Mali	WCA	2015	Evaluation Final du Programme du Cadre Commun pour l'eau, l'hygiène et l'assainissement reliant urgence, reconstruction et développement au Nord Mali 2014-2015	No rating
Mozambique	ESA	2011	Impact evaluation of drinking water supply and sanitation interventions in rural Mozambique: More than Water	Highly satisfactory
Nepal	SA	2009	Final Evaluation of the Hygiene Improvement Project: Hand Washing with Soap and Point-of-Use Water Treatment Initiative	No rating
Nigeria	WCA	2014	Impact Evaluation of Water, Sanitation, and Hygiene (WASH) within the UNICEF Country Programme of Cooperation, Government of Nigeria and UNICEF, 2009-2013	Mostly satisfactory
Philippines	EAP	2013	Final Evaluation of the Joint Programme: "Enhancing Access to and Provision of Water Services with the Active Participation of the Poor"	Mostly satisfactory
Somalia	ESA	2012	Final Evaluation of UNICEF's Programme "Making PPP Work for Rural Water Supply in Somalia"	Highly satisfactory
State of Palestine	MENA	2013	WASH Programme Evaluation	Mostly satisfactory
South Sudan	MENA	2009	Improvement of the Health and Livelihood of Rural Communities in Southern Sudan and the Three Transitional Areas- European Commission UNICEF Project	Mostly satisfactory
Sudan	MENA	2012	2012 Sudan: Programme Evaluation - UNICEF Assisted Water, Sanitation, and Hygiene Programme In Sudan (2002-2010)	Highly satisfactory



List of UNICEF WASH programme evaluation reports used for the evaluation (cont'd)

Country	Region	Year	Title	Quality rating
Tanzania	ESA	2007	A Review of PHAST (Participatory Hygiene and Sanitation Transformation)	Mostly satisfactory
Timor-Leste	EAP	2015	Improving Access to Water, Sanitation and Hygiene (WASH) in Rural School and Communities through Capacity Development - end of EU-funded programme evaluation in Timor Leste	No rating
-	UNICEF Headquarters	2014	Evaluation of the WASH Sector Strategy "Community Approaches to Total Sanitation" (CATS)	Highly satisfactory
Vietnam	EAP	2009	Evaluation of the Water Safety Model in Tha Thiên Hu	Mostly satisfactory
Zimbabwe	ESA	2011	ZIMWASH Project End-Term Evaluation Report: ACP EU Water Facility Project - 2006-2011 - Addressing water and sanitation needs of the rural poor in the context of HIV and AIDS in Zimbabwe	Highly satisfactory



## ANNEX J: LIST OF KEY INFORMANTS INTERVIEWED

This list includes all key informants interviewed at the global and country levels

Name and surname	Title and function	Institution	Type of exchange
Alejandro Lujan	WASH Officer	UNICEF Bolivia	Webinar Latin American and Caribbean Region - Inception phase
Andrew Trevett	WASH Chief	UNICEF Kenya	Semi-structured interview - Inception phase
Antoinette Kome	Global Sector Coordinator WASH	SNV (Netherlands Development Organisation)	Informal discussions during World Water Week - Inception phase
Bikul Tulachan	Evaluation Specialist	UNICEF ROSA	Webinar EAPRO, ESARO and ROSA - Inception phase
Brigitte Pedro	Chief WASH	UNICEF Chad	Webinar WCARO - Inception phase
Cecilia Scharp	WASH Senior Adviser	UNICEF	Inception meeting - Inception phase
Chander Badloe	WASH Adviser	UNICEF EAPRO	Webinar EAPRO, ESARO and ROSA - Inception phase
Chris Holmes	Deputy Assistant Administrator	United States Agency for International Development (USAID), Bureau for Economic Growth, Education and Environment	Informal discussions during World Water Week - Inception phase
Cindy Kushner	WASH Senior Adviser	UNICEF	Inception meeting - Inception phase
Clarissa Brockelhurst	Consultant	Independent	Informal discussions during World Water Week 2016 - Inception phase
Dalma Rivero	Evaluation Office	UNICEF	Inception meeting - Inception phase
Dick van Ghinoven	Senior Advisor Water and Sanitation	DGIS	Informal discussions during World Water Week - Inception phase
Elhadj Mamadou Barry	WASH Officer	UNICEF Guinea	Webinar WCARO - Inception phase
Emily Bamford	WASH Specialist	UNICEF	Inception meeting - Inception phase
Erica Mattellone	Evaluation Specialist (Cambodia, Malaysia, Myanmar)	UNICEF Cambodia	Webinar EAPRO, ESARO and ROSA - Inception phase
Evariste Kouassi-Komlan	WASH Senior Adviser	UNICEF	Interview during inception meeting - Inception phase



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Fiorella Polo	WASH Specialist	UNICEF	Inception meeting - Inception phase
Getrude Matsika	Planning Officer	UNICEF Zimbabwe	Webinar EAPRO, ESARO and ROSA - Inception phase
Greg Keast	UNICEF Consultant	UNICEF	SSI - Inception phase
Guy Hutton	Senior WASH adviser	UNICEF	Interview during inception meeting - Inception phase
Heather Skilling	Principal Global Practice Specialist, WASH	Development Alternatives, Inc. (DAI)	Informal discussions during World Water Week - Inception phase
Henry Northover	Global Head of Policy	WaterAid, United Kingdom	Informal discussions during World Water Week - Inception phase
Jan Willem Rosenboom	Senior Program Officer WASH	Bill & Melinda Gates Foundation	Informal discussions during World Water Week - Inception phase
Jean-Baptiste Sène	Chief Planning, Monitoring and Evaluation	UNICEF Guinea	Webinar WCARO - Inception phase
Jeff Goldberg	Water and Sanitation Advisor	USAID	Informal discussions during World Water Week - Inception phase
Jérémie Toubkiss	Evaluation Manager	UNICEF Evaluation Office	Inception meeting - Inception phase SSI at global or regional level
Jose Gesti Canuto	WASH Specialist	UNICEF	Inception meeting - Inception phase
Julianna Westerblom	WASH specialist	UNICEF Chad	Webinar WCARO - Inception phase
Kadjo Yao	WASH Specialist (Monitoring and Evaluation)	UNICEF WCARO	Webinar WCARO - Inception phase
Katarina Johansson	Deputy Representative	UNICEF Bolivia	Webinar Latin American and Caribbean Region- Inception phase
Kouassi Koffi Messou	Monitoring and Evaluation Specialist	UNICEF Guinea	Webinar WCARO - Inception phase
Lizette Burgers	WASH Senior Adviser	UNICEF	Inception meeting - Inception phase
Martha Kibur	Monitoring and Evaluation Specialist	UNICEF Ethiopia	Webinar EAPRO, ESARO and ROSA - Inception phase
Michael Forson	WASH Specialist	UNICEF	Inception meeting - Inception phase
Mirella Hernani	Monitoring and Evaluation Specialist	UNICEF Latin American and Caribbean Region	Webinar Latin American and Caribbean Region- Inception phase



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Murtaza Malik	Chief WASH	UNICEF Rwanda	Webinar EAPRO, ESARO and ROSA - Inception phase
Noe Reouebmel	WASH Specialist	UNICEF Chad	Webinar WCARO - Inception phase
Ousseini Mai Maigana	Chief WASH	UNICEF Guinea	Webinar WCARO - Inception phase
Patrick Moriarty	Chief Executive Officer	IRC International Water and Sanitation Centre	informal discussions during World Water Week - Inception phase
Pedro Pablo Palma	Chief Child Survival and Development	UNICEF Bolivia	Webinar Latin American and Caribbean Region - Inception phase
Peter Harvey	WASH Adviser (former)	UNICEF ESARO	SSI - Inception phase
Peter Lochery	Director of Water	CARE	informal discussions during World Water Week - Inception phase
Prashant Menon	Information Technology and System consultant	UNICEF Evaluation Office	Inception meeting and meeting on cube - Inception phase
Riccardo Polastro	Regional Evaluation Adviser	UNICEF	Inception meetings in NYHQ and Webinar - Inception phase
Richard Carter	External member of the evaluation technical reference group	Independent Consultant	Inception meeting - Inception phase
Robert Bain	JMP specialist	UNICEF	Inception meeting - Inception phase
Robert Hope	External member of the evaluation technical reference group	Oxford University	Inception meeting - Inception phase  Semi-structured interview (SSI) at global or regional level
Sam Treglown	Chief WASH	UNICEF Cambodia	Webinar EAPRO, ESARO and ROSA - Inception phase
Samuel Bickel	Evaluation Office Senior Adviser	UNICEF	Meetings - Inception phase
Samuel Godfrey	Chief WASH	UNICEF Ethiopia	Webinar EAPRO, ESARO and ROSA - Inception phase
Sanjay Wijesekera	Chief of WASH Section	UNICEF	Interview during inception meeting - Inception phase
Soma Konare	WASH Officer	UNICEF Mali	Inception meeting - Inception phase
Surendra Babu Dhakal	WASH Officer	UNICEF Nepal	Webinar EAPRO, ESARO and ROSA - Inception phase
Tameez Ahmad	Chief WASH	UNICEF Nepal	Webinar EAPRO, ESARO and ROSA - Inception phase



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Ted Chaiban	Director of Programmes	UNICEF	Interview during inception meeting - Inception phase
Therese Dooley	WASH Adviser	UNICEF ROSA	Webinar EAPRO, ESARO and ROSA - Inception phase
Tierno Cissé	WASH Officer	UNICEF Guinea	Webinar WCARO - Inception phase
Tom Slaymaker	JMP Data Analyst	UNICEF	Interview during inception meeting - Inception phase
Victor Kinyanjui	Chief WASH	UNICEF Zimbabwe	Webinar EAPRO, ESARO and ROSA - Inception phase
Xavier R. Sire	Knowledge Management Specialist	UNICEF Bolivia	Webinar Latin American and Caribbean Region - Inception phase
Yiming Qu	Field Result Group Program officer	UNICEF	Inception meeting - Inception phase
Vinney Casey	Technical support manager	WaterAid	SSI at global or regional level
Luisa Gostling	Manager quality of programmes	WaterAid	
Therese Dooley	WASH Adviser	UNICEF ROSA	SSI at global or regional level
Kelly Ann Naylor	WASH Adviser	UNICEF WCARO	SSI at global or regional level
Jeroen van der Sommen		AKVO	SSI at global or regional level
Peter Harvey	WASH Adviser	UNICEF ESARO	SSI at global or regional level
Fiorella Polo	Water and Environment Specialist	NYHQ	SSI at global or regional level
Ihab Abdelaziz		UNICEF Egypt	SSI at global or regional level
Thierry Barbotte	WASH Officer	Vergnet	SSI at global or regional level
Heather Skilling		USAID	SSI at global or regional level
Pierre Fourcassier	WASH Adviser	UNICEF Middle East and North Africa Regional Office	SSI at global or regional level
Alban Nouvellon	WASH Adviser	UNICEF Latin American and Caribbean Region	SSI at global or regional level
Stephen Abric		PRACTICA	SSI at global or regional level
Sanjay Wijesekera	Chief of WASH	UNICEF NYHQ	SSI at global or regional level
Jochen Rudolph		African Development Bank (Rural Water Supply and Sanitation Initiative)	SSI at global or regional level
Marcus Howard		Australia	SSI at global or regional level
Guy Howard		DFID	SSI at global or regional level
Paul Deverill		DFID	SSI at global or regional level
Dick van Ginhoven		DGIS	SSI at global or regional level





## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Chander Badloe	WASH Adviser	UNICEF EAPRO	SSI at global or regional level
Nancy Balfour	WASH Adviser	UNICEF ESARO	SSI at global or regional level
Antoine Saintraint		European Union water team / European Commission	SSI at global or regional level
Chris Dunston		Hilton Foundation	SSI at global or regional level
David Toomey	Individual consultant	Independent	SSI at global or regional level
Jeremy Colin	WASH individual consultant	Independent	SSI at global or regional level
Piers Cross		Independent	SSI at global or regional level
Richard Carter		Independent	SSI at global or regional level
Sophie Trémolet	Individual consultant	Independent (now with World Bank)	SSI at global or regional level
Patrick Moriarty		IRC International Water and Sanitation Centre	SSI at global or regional level
Cecilia Scharp	WASH Adviser	NYHQ	SSI at global or regional level
Cindy Kushner	WASH Adviser	NYHQ	SSI at global or regional level
Clarissa Brocklehurst	Former Chief of WASH	NYHQ	SSI at global or regional level
Drew Parker	WASH Adviser	NYHQ	SSI at global or regional level
Guy Hutton	WASH Adviser	NYHQ	SSI at global or regional level
Jose Gestí Canuto	WASH Adviser	NYHQ	SSI at global or regional level
Paul Edwards	Former WASH Adviser	NYHQ	SSI at global or regional level
Ted Chaiban	Director of Programmes	NYHQ	SSI at global or regional level
Tom Slaymaker	WASH Adviser	NYHQ	SSI at global or regional level
Kerstin Danert		RWSN	SSI at global or regional level
Johan Sundberg		Swedish International Development Cooperation Agency	SSI at global or regional level
Alejandro Jimenez		SIWI	SSI at global or regional level
Ruud Glotzbach (instead of Antoinette Kome)		SNV (Netherlands Development Organisation)	SSI at global or regional level
Eva Dalekant		Swedish National Committee	SSI at global or regional level
Marianne Kjellen		UNDP	SSI at global or regional level
Joakim Harlin		United Nations Environment	SSI at global or regional level
Graham Alabaster		United Nations Human Settlements Programme	SSI at global or regional level
Mark Henderson		UNICEF-retired	SSI at global or regional level



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Federico Properzi		United Nations Water	SSI at global or regional level
Jefferey Goldberg		USAID/Washington	SSI at global or regional level
Nick Burn		Water for People	SSI at global or regional level
Claire Battle		WaterAid	SSI at global or regional level
Bruce Gordon		WHO	SSI at global or regional level
Rupert Albot		UNICEF (retired)	SSI at global or regional level
Sun Ah Kim Suh	UNICEF Country Representative	UNICEF Bolivia	CCS Bolivia
Katarina Johansson	UNICEF Deputy Representative	UNICEF Bolivia	CCS Bolivia
Pedro Pablo Palma	Chief of Child Survival & Development	UNICEF Bolivia	CCS Bolivia
Carlos Gutierrez	Monitoring & Evaluation Specialist	UNICEF Bolivia	CCS Bolivia
Irma Paredo	WASH Specialist	UNICEF Bolivia	Country case study (CCS) Bolivia
Alejandro Lujan	WASH Officer	UNICEF Bolivia	CCS Bolivia
Virginia Chumacero	Consultant	UNICEF Latin American and Caribbean Region	CCS Bolivia
Andres Reynaga	Consultant	UNICEF Latin American and Caribbean Region	CCS Bolivia
Jose Luis Barrera	Engineer	Plan International	CCS Bolivia
Roman Garcia	Senior Engineer	Chuquisaca Department Government	CCS Bolivia
Giovana Morón Chavarria Joyana	Junior Engineer	Chuquisaca Department Government	CCS Bolivia
Juan Carlos Miranda	Senior Social Technician	Chuquisaca Department Government	CCS Bolivia
Jose Guincha Rivera	Junior Social Technician	Chuquisaca Department Government	CCS Bolivia
Vladimir Espada	Director of Public Works	Presto Municipality	CCS Bolivia
Carmelo Bonifaz	Technician	Icla Municipality	CCS Bolivia
Oscar Vergara	Technician	Sopechuy Municipality	CCS Bolivia
Thomas Alveteg	Primer Secretario	Embajada de Suecia	CCS Bolivia
Luis Sivila	Principal	Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH - Periagua	CCS Bolivia



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Oscar Suntura	Manager	Sumaj Huasi	CCS Bolivia
Betty Soto	Consultant	Inter-American Development Bank	CCS Bolivia
Guido Meruvia	WASH expert	Universidad Nur	CCS Bolivia
James Avila	Executive Director	Emagua	CCS Bolivia
Karina Ordoñez	Técnico	Autoridad de Fiscalización y Control Social de Agua Potable y Saneamiento Básico	CCS Bolivia
Willy Shoaie	Rector	Universidad Nur	CCS Bolivia CCS Bolivia
Lidia Sensano	Responsible for the Special Project	Universidad Nur	CCS Bolivia CCS Bolivia
Enrique Torrico	Jefe Unidad de Normas	Viceministerio de Agua Potable y Saneamiento Básico	CCS Bolivia
Ruben Mendez	Viceministro de Agua Potable y Saneamiento Básico	Viceministerio de Agua Potable y Saneamiento Básico	CCS Bolivia
Pamela Flores	Directora de Agua Potable y Alcantarillado Sanitario	Viceministerio de Agua Potable y Saneamiento Básico	CCS Bolivia
Nestor Meneses	Técnico	Unidad Coordinadora de Programa – Programa de Agua y Alcantarillado Urbano	CCS Bolivia
Ramiro Ríos	Técnico	Servicio Nacional para la Sostenibilidad del Saneamiento Básico	CCS Bolivia
Debora Comini	Representative	UNICEF Cambodia	CCS Cambodia
Natascha Paddison	Deputy Representative	UNICEF Cambodia	CCS Cambodia
Sam Treglown	WASH Manager	UNICEF Cambodia	CCS Cambodia
Erica Mattellone	Evaluation Specialist	UNICEF Cambodia	CCS Cambodia
Kong Phaloeuk	Planning, Monitoring and Evaluation	UNICEF Cambodia	CCS Cambodia
Heng Santepheap	WASH Specialist	UNICEF Cambodia	CCS Cambodia
Chaing Chanthea	WASH Officer	UNICEF Cambodia	CCS Cambodia
Thun Soriya	WASH Specialist	UNICEF Cambodia	CCS Cambodia
Etienne Poirot	Chief of Child Survival and Development	UNICEF Cambodia	CCS Cambodia
Keo Sovannary	Community Development Specialist	UNICEF Cambodia	CCS Cambodia



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Maki Kato	Chief of Social Policy	UNICEF Cambodia	CCS Cambodia
Seng Kuysorn	Consultant	Independent	CCS Cambodia
H E. Try Meng	Secretary of State	Ministry of Rural Development	CCS Cambodia
Dr. Mao Saray	Director of RWS Department	Ministry of Rural Development	CCS Cambodia
Cheng Visal	Program Manager	GRET	CCS Cambodia
Clement Frenoux	Team Lead/WASH Specialist	GRET	CCS Cambodia
Armel Golomer	Technical Assistant	GRET	CCS Cambodia
Chay Lo	Executive Director	Teuk Saat 1001	CCS Cambodia
Kruey Channth	Communication, Monitoring and Evaluation Manager	Teuk Saat 1001	CCS Cambodia
Pen Samnang	Project Manager	Teuk Saat 1001	CCS Cambodia
Chieng Youpheng	Program Manager	Lien AID	CCS Cambodia
Hoeurn Try	Deputy Director	Provincial Department of Rural Development Kandal	CCS Cambodia
Chum Sophearith	Chief of RWS Office	Ministry of Rural Development	CCS Cambodia
Sok Samoeurn	Chief of Koh Thom Rural Development	Koh Thom Distnct	CCS Cambodia
Khenh Taiyveng	Piped Water Supply Owner	Porthiban Piped Water Supply	CCS Cambodia
Sim Kimhour	Son of Mr. Taiyveng	Porthiban Piped Water Supply	CCS Cambodia
Ming Yun	Villager	N/A	CCS Cambodia
6 members	Co-Piped Water Supply Owner, etc	Kampong Kong W. System	CCS Cambodia
6 memberss	Deputy Director, etc	Provincial Department of Rural Development Svay Rieng	CCS Cambodia
Turn Pheakdey	Chief of Chantrea Rural Development	Provincial Department of Rural Development Svay Rieng	CCS Cambodia
Sor Vanna	Director	Cambodian Red Cross	CCS Cambodia
Pov Saren	Deputy Director	Cambodian Red Cross	CCS Cambodia
Mom Ket	Volunteer	Cambodian Red Cross	CCS Cambodia
Ork Am	Group Leader (husband)	Water supply user group	CCS Cambodia



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Chin Sokha	Group Leader (wife)	Water supply user group	CCS Cambodia
Nou Vannak	Volunteer in Commune	Cambodian Red Cross	CCS Cambodia
Khiev Win	Volunteer Team Leader	Cambodian Red Cross	CCS Cambodia
Sok Kady	Group Leader (husband)	Water supply user group	CCS Cambodia
Lek Khen	Group Leader (wife)	Water supply user group	CCS Cambodia
Kong Sakoeurn	Villager	Water supply user group	CCS Cambodia
Five members	Deputy Chief of Rural Water Supply Office	Provincial Department of Rural Development Prey Veng	CCS Cambodia
Seven members	Manager, etc	Private Water Supply Operator	CCS Cambodia
Uy Kim	School Director	Babong Pnmary School	CCS Cambodia
Ok Socheat	Entrepreneur	Teuk Saat 1001 Water Kio:	CCS Cambodia
Sou Sopheap	Head of Community	Babong Commune	CCS Cambodia
Phal Sophat	Commune Clerk	Babong Commune	CCS Cambodia
Five members	Deputy Director, etc.	Provincial Department of Rural Development Kampong Cham	CCS Cambodia
El Slaiyman	Entrepreneur	Lien AID	CCS Cambodia
Matt El	Entrepreneur (father)	Lien AID	CCS Cambodia
Man Sos	Chief of Commune	Kampong Treas Commun*	CCS Cambodia
Hong Chamres	Entrepreneur	Teuk Saat 1001	CCS Cambodia
Phally Yea	Advisor of Social Entrepreneur	Teuk Saat 1001	CCS Cambodia
Tin Mola	Assistant Managing Director	Investment in Infrastructure	CCS Cambodia
Phyrum Kov	Cambodia Country Coordinator	Water and Sanitation Programme	CCS Cambodia
Chan Virak	Water and Sanitation Specialist	Water and Sanitation Programme	CCS Cambodia
Hor Khykeng	Executive Director	Association of water supply operators	CCS Cambodia
Dek Vimean Pheakc	Project Coordinator	Association of water supply operators	CCS Cambodia



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Glenn Andre	Project Officer	Agence Française de Développement	CCS Cambodia
Dr. Chea Samnang	Director of Cabinet	Office of the Council of Mir	CCS Cambodia
Moustapha Ahmat Abdelmohsin	Coordinateur Eau Assainissement Hygiene	Ministère de l'Eau et de l'Assainissement	CCS Chad
Vaimbi Gaou	Chef de division/ DSEOH	Ministère de l'Eau et de l'Assainissement	CCS Chad
Mahamat Saleh Adoum	Chef de service sensibilisation	Ministère de l'Eau et de l'Assainissement	CCS Chad
Afoumbi Youskou	Chargé de suivi CAM	Ministère de l'Eau et de l'Assainissement	CCS Chad
Mahamat Hamdan	Coordinateur de la CAM	Ministère de l'Eau et de l'Assainissement	CCS Chad
Brahim Nangasdai	Chef de service BD/ CDIG	Ministère de l'Eau et de l'Assainissement	CCS Chad
Charles SERELE	Assistant technique	Projet ResEau	CCS Chad
Oumar Barry	Représentant résident	EAA, Eau et Assainissement pour l'Afrique	CCS Chad
Alexis Ahmet Seini	Chargé de WASH	EAA, Eau et Assainissement pour l'Afrique	CCS Chad
Joana Olier	Chargée de Projets Développement Urbain et ONG	Agence Française de Développement	CCS Chad
Ylenia Rosso	Chef de Mission	Secours Islamique France	CCS Chad
Christian OLODO	Coordinateur Programmes	Secours Islamique France	CCS Chad
Lasndroma Kabdana Dieudonné	Directeur National	ADRA – Tchad	CCS Chad
Lenan Ganguinon Sidoine	Officier de Programme	ADRA – Tchad	CCS Chad
Michèle Marin	Responsable de Programmes	Direction du développement et de la coopération DDC	CCS Chad
Olivier Kouollo Ndéna	Chargé de WASH	Direction du développement et de la coopération DDC	CCS Chad
Ahmat Mahamat Saleh	DG et vice-président	Entreprise HYDROFOR, Association des entreprises des forages manuels à faible coût	CCS Chad



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Assane Abdelkadre	Directeur Général	Entreprise Etoile de ville	CCS Chad
Diondouba Laoundoumaye	Ingénieur Géophysicien	Entreprise HYDROTECH	CCS Chad
Peter MARIËN	Chargé des infrastructures	Délégation de l'Union Européenne	CCS Chad
Hassane Abakar	Chargé de WASH	Délégation de l'Union Européenne	CCS Chad
Alladoum Djarma Baltazar	Directeur Général	Entreprise BIC "Business Initiative Chad"	CCS Chad
Eve HACKIUS	Représentante Pays	ACTED	CCS Chad
Charlotte BINET	Responsable Programme	ACTED	CCS Chad
Noé Reouebmel	WASH Officer	UNICEF Chad	CCS Chad
David Deubalbé	WASH Cluster	UNICEF Chad	CCS Chad
Mahamat Alifa Moussa	Secrétaire Général	Ministère de l'Eau et de l'Assainissement	CCS Chad
Georges Yawodjin Agbemadon	Responsable du Département Eau, Assainissement, Hygiène	Action Contre la Faim	CCS Chad
Aman Starman	Directrice adjointe	ONG IAS	CCS Chad
Ndekedim Ervé	Chargé de Programme	ONG IAS	CCS Chad
Mbaïram Urbain	Administrateur	ONG IAS	CCS Chad
Nuredin Mohamed	Director, Water supply and sewerage directorate	MoWIE - National	CCS Ethiopia
Tamene Hailu	Manager, NWI project	MoWIE- National	CCS Ethiopia
Belay Seyoum	UNICEF focal point at MoWIE/coordinator of National Fluorosis Mitigation Project Office	MoWIE- National	CCS Ethiopia
Mesfin Mulugeta	Coordinator	Water Sector Working Group Secretariat - National	CCS Ethiopia
Dr. Zufan Abera	Director, Health Extension and Primary Health Service Directorate	National Ministry of Health	CCS Ethiopia
Wolday Zewde	Hygiene and Environmental Health Expert (Sanitation Market and CLTS)	National Ministry of Health	CCS Ethiopia



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Abayew Mussei	Hygiene and Environmental Health Expert	National Ministry of Health	CCS Ethiopia
Abreham Misganaw	Environmental Health Case Team	National Ministry of Health	CCS Ethiopia
Ababu Tadesse	WASH Focal Person	MoFEC- National	CCS Ethiopia
Martha Solomon	WASH Advisor	DFID- National	CCS Ethiopia
Teferi Menker	Program Manager	African Development Bank- National	CCS Ethiopia
John Butterworth	Country Director	IRC International Water and Sanitation Centre	CCS Ethiopia
Tesfaye Bekalu	Senior Water and Sanitation Specialist	WSP/World Bank- National	CCS Ethiopia
Gulilat Berhane	Senior Water and Sanitation Specialist	WSP/World Bank- National	CCS Ethiopia
Arto Suominen	Program Manager	Community-Led Accelerated WASH in Ethiopia-Finland-National	CCS Ethiopia
Getachew Fekadu	Bureau/Water Supply Core Process Successor	Tigray Water Bureau-Sub -National	CCS Ethiopia
Tamene Mengistu	Office Head or Deputy	Kilite Awlalo woreda Water office, Tigray Region - Local	CCS Ethiopia
Hayelom Hadehom	Engineer and Water Supply Head	Raya-Azebo woreda Water office, Tigray Region - Local	CCS Ethiopia
Aberha Berhanu	Electromechanical Technician	Raya-Azebo woreda Water office, Tigray Region - Local	CCS Ethiopia
Mola Haddis	Plan Expert	Raya- Azabo woreda Education office, Tigray Region - Local	CCS Ethiopia
Tsehay Seid -	Accountant	Raya-Azebo Woreda finance office, Tigray Region- Local	CCS Ethiopia
Godif Aklom	Office Head	Amba Alaje woreda Water office, Tigray Region - Local	CCS Ethiopia
Frew Sisay -	Engineer and Water Supply Head	Amba Alaje woreda Water office, Tigray Region - Local	CCS Ethiopia
Meri Kebede	Head	Amba Alaje woreda Water Education office, Tigray Region - Local	CCS Ethiopia





## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Nure Hussein	Accountant	Amba Alaje woreda Water Finance office, Tigray Region - Local	CCS Ethiopia
Samuel Godfrey	WASH Section Chief	UNICEF Ethiopia	CCS Ethiopia
Jane Bevan	Rural WASH Manager	UNICEF Ethiopia	CCS Ethiopia
Ali Regah	WASH Specialist-Rural	UNICEF Ethiopia	CCS Ethiopia
Michele Paba	Urban WASH Manager	UNICEF Ethiopia	CCS Ethiopia
Kalkidan Gugsa	WASH Specialist-Communication for Development	UNICEF Ethiopia	CCS Ethiopia
Clara Dube	Manager, Field Office	UNICEF Ethiopia-Tigray	CCS Ethiopia
Getachew Asmare	WASH Specialist	UNICEF Ethiopia-Tigray	CCS Ethiopia
Leul Fesseha	WASH Officer	UNICEF Ethiopia-Tigray	CCS Ethiopia
Lansana Fadil Sylla	Directeur	ACEA	CCS Guinea
Hassimiou Diallo	Chef de Base Kindia	SNAPE	CCS Guinea
Hamidou Baldé	Division Animation et Maintenance	SNAPE	CCS Guinea
Mamadou Sylla	Conseiller Eau	Commune de Kindia	CCS Guinea
Ly Abdoul	Hydrogéologue	SNAPE	CCS Guinea
Ousseini Mai Maïgana	Chef WASH	UNICEF Guinea	CCS Guinea
Kouassi Koffi Messou	Chargé Suivi et Évaluation	UNICEF Guinea	CCS Guinea
Sadiga Camara	Chef de la Division Animation et Maintenance	SNAPE	CCS Guinea
Ousmane Diallo	Chargé assainissement	ACEA	CCS Guinea
Émile Touré	Chargé eau potable	ACEA	CCS Guinea
Margaux Arsac	Coordinatrice Eau	CMC	CCS Guinea
Emmanuel Bormans	Coordinateur Adjoint	CMC	CCS Guinea
François Fougère	Coordinateur	CMC	CCS Guinea
Ibrahima Keita	Chargé de l'eau	CMC/mairie de Boffa	CCS Guinea
Jean-Baptiste Sène	Chef Politique Sociale, Planning, Suivi et Évaluation.	UNICEF Guinea	CCS Guinea
Lana Pipé Patria	DGA	SEG	CCS Guinea
Guy Hoko	Représentant Adjoint	UNICEF Guinea	CCS Guinea
Mamadou Malick Dem	DGA	SNAPE	CCS Guinea
	Maire	Mairie de Boffa	CCS Guinea
Mamadou Diouldé Diallo	Directeur Général	SEG	CCS Guinea



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Sherif	DGA des infrastructures	SEG	CCS Guinea
Madina Bah	Chef de Bureau de Zone Ouest	UNICEF Guinea	CCS Guinea
Alexandre Serres	Responsable infrastructures	Délégation de l'Union Européenne	CCS Guinea
Mamadou BahTelly	Chargé de l'agriculture de l'eau et de l'assainissement	Délégation de l'Union Européenne	CCS Guinea
El Hadj Barry	Spécialiste WASH	UNICEF Guinea	CCS Guinea
Jacques Tounkara	Directeur des subventions	Plan	CCS Guinea
Souleymane Diallo	Conseiller WASH	Plan	CCS Guinea
Mamadou Sarr	Chef de projet	Terre des Hommes	CCS Guinea
Franck	Représentant pays, Guinée	Terre des Hommes	CCS Guinea
Anu Gautam	WASH Specialist	UNICEF Nepal	CCS Nepal
Gyanu Bhujel	Nutrition Program Officer	UNICEF Nepal	CCS Nepal
Bodh Narayan Shrestha	WASH Officer (Bharatpur Field Office)	UNICEF Nepal	CCS Nepal
Rownak Khan	Deputy Representative	UNICEF Nepal	CCS Nepal
Kabindra Bikram Karki	Chief, Sector Efficiency Improvement Unit	Ministry of Water Supply and Sanitation	CCS Nepal
Community members and users	Kapilvastu District (Motipur and Imiliya Villages)	Water and Sanitation User Committees and Village Maintenance Workers in three systems	CCS Nepal
Bishwa Bhatta	WASH Officer	UNICEF Nepal (Nepalgunj Field Office)	CCS Nepal
Community members and users	Dang District (Purandhara, Shantinagar, Pawannagar, Dudhras Villages and Tulsipur Municipality)	Water and Sanitation User Committees and Village Maintenance Workers in five Water Supply systems	CCS Nepal
Harka Raj Joshi	Sub-Engineer	DTO, Salyan	CCS Nepal
Khem Raj Oli	Chairperson	WSUC, Tulsipur Municipality	CCS Nepal
Niranjan Poudel	Officer	Kapilvastu DDC	CCS Nepal
Tilak Neupane	Engineer	WSSDO/DWSS, Dang	CCS Nepal
Dhruba Thakur	Chairperson	FEDWASUN Dang	CCS Nepal



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Suresh KC	Chief, WASH Section	DOLIDAR	CCS Nepal
Rajendra Aryal (with his three additional members)	Chairperson	FEDWASUN, Central office, KTM	CCS Nepal
Kapil Gyawali	Chief, Technical Division	RWSSFDB, Kathmandu	CCS Nepal
Mr. Barry	Chief, OPS	UNICEF Nepal	CCS Nepal
Mr. Jukka	Representative	Embassy of Finland in KTM	CCS Nepal
Sunil Das	DDG	DWSS, Government of Nepal	CCS Nepal
Arun Simkhada	Chief, Planning Section	DWSS, Government of Nepal	CCS Nepal
Narayan Khanal	Chief, Water Quality Section	DWSS, Government of Nepal	CCS Nepal
Govinda Neupane	Local Governance Coordinator	DFID Nepal	CCS Nepal
Sanjaya Adhikari	WASH Expert	ADB	CCS Nepal
Himalaya Panthi	WASH Specialist	NEWAH (NGO)	CCS Nepal
Surendra Babu Dhakal	WASH Officer	UNICEF Nepal	CCS Nepal
Siddhi Shrestha	WASH Specialist	UNICEF Nepal	CCS Nepal
Tameez Ahmed	WASH Chief	UNICEF Nepal	CCS Nepal
Guna Raj Shrestha	WASH Expert	World Bank Nepal	CCS Nepal
Madhav Pahari	WASH Specialist (previously worked in UNICEF Nepal for several years)	UNICEF Syrian Arab Republic	CCS Nepal
Lambert Karangwa,	WASH Projects Coordinator	WASAC	CCS Rwanda
James Sano	Chief Executive Officer	WASAC	CCS Rwanda
Marie Josée Mukanyamwasa	Director of Rural Water	WASAC	CCS Rwanda
Aime Muzola,	Acting Director General of Planning	Ministry of Infrastructure	CCS Rwanda
Marcelline Kayitesi	Acting Division Manager, WatSan	Ministry of Infrastructure	CCS Rwanda
Fidele NTEZIYAREMYE,	WatSan Secretariat Coordinator	Ministry of Infrastructure	CCS Rwanda
Ephrem Rutaboba,	Water and Sanitation Specialist	African Development Bank	CCS Rwanda
Aya Kagota,	WASH Sector Lead	Japan International Cooperation Agency	CCS Rwanda
Jacques Nzitonda,	Director of Water and Sanitation	Rwanda Utilities Regulatory Authority	CCS Rwanda



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
Phocus Ntayonbwa	Former staff	UNICEF Rwanda	CCS Rwanda
Joseph Usabimana,	Executive Director	Aquva Virunga	CCS Rwanda
Bruno Mwanafunzi	Former staff	World Bank / Ministry of Infrastructure	CCS Rwanda
Richard Nyirishema		SNV (Netherlands Development Organisation)	CCS Rwanda CCS Rwanda
Monique Zwiers,	WASH Sector Team Leader	SNV (Netherlands Development Organisation)	CCS Rwanda
Kabalisa Vincent de Paul	Head of IWRM Department	Ministry of Natural Resources	CCS Rwanda
Simon Ndutiye		Former staff of Ministry of Infrastructure	CCS Rwanda
Maurice Kwizera,	Country Manager	WaterAid	CCS Rwanda
Perpetue Kamuyumbu	Country Director	Water for People	CCS Rwanda
NDABEREYE Augustin	Mayor, etc.	Musanze District	CCS Rwanda
4 representatives	Vice Mayor	Nyabihu District	CCS Rwanda
Murenzi Janvier	Vice Mayor	Rubavu District	CCS Rwanda
4 representatives	Mayor, etc.	Burera District	CCS Rwanda
Emmanuek Hategeka		Mininfra	CCS Rwanda
Bahame Hassan	Former Mayor,	Rubavu	CCS Rwanda
Ntembagare Samuel	Former Mayor	Burera	CCS Rwanda
Murtaza Malik	WASH Manager	UNICEF Rwanda	CCS Rwanda
Mahrajan Muthu	Chief Child Survival and Development	UNICEF Rwanda	CCS Rwanda
Oliver Peteovic	Deputy Representative	UNICEF Rwanda	CCS Rwanda
Yumi Matsuda	Chief, Planning, Monitoring and Evaluation	UNICEF Rwanda	CCS Rwanda
Jean Marie Rutaganda	WASH Specialist	UNICEF Rwanda	CCS Rwanda
Gedeon Musabyimana	WASH Officer	UNICEF Rwanda	CCS Rwanda
Nidhi Joshi,	Donor Relations	UNICEF Rwanda	CCS Rwanda
Zeinep Baimetova,	DIC Representative	UNICEF Rwanda	CCS Rwanda
Sara Mcginty,	Chief, Education	UNICEF Rwanda	CCS Rwanda
Mukamunana Alphonsine		Ministry of Health	CCS Rwanda
Joseph Katarwa	Former Head	EHD/Africa-Applied Health Education and Development	CCS Rwanda
Clement Ndungutse,	Water Supply Monitoring Officer	RURA	CCS Rwanda



## ANNEX J (cont'd)

Name and surname	Title and function	Institution	Type of exchange
H Mashingaidze		National Coordination Unit	CCS Zimbabwe CCS Zimbabwe
P Mudzingo	Director	Urban Local Authorities	CCS Zimbabwe
E.Jones	Principal Director	Ministry of Local Government, Public works and National Housing	CCS Zimbabwe
Victor Nyamandi	Deputy Director	Environment Health, Ministry of Health and Child Care	CCS Zimbabwe CCS Zimbabwe
David Bailey		DFID	CCS Zimbabwe
Christina Landsberg		Australian Aid	CCS Zimbabwe
Sharon Murinda		SDC	CCS Zimbabwe
M Chidavaenzi		World Vision	CCS Zimbabwe
Naa- Aku Acquaye- Baddoo		SNV (Netherlands Development Organisation)	CCS Zimbabwe CCS Zimbabwe
L Mujati		RDHV	CCS Zimbabwe
Vino and Solanki	Engineering	World Vision	CCS Zimbabwe
Tichaona Muriro and N Sibanda		Blue Gold	CCS Zimbabwe
Ben Henson	Consultant		CCS Zimbabwe
Peter Morgan	WASH Expert		CCS Zimbabwe
Simba Musonza		Integral Edge Systems Design	CCS Zimbabwe
M Jonga		UNICEF Zimbabwe	CCS Zimbabwe
Arnold Cole		UNICEF Zimbabwe	CCS Zimbabwe
Victor Kinyanjui		UNICEF Zimbabwe	CCS Zimbabwe
Patson Kaendesha		UNICEF Zimbabwe	CCS Zimbabwe
Getrude Matsika		UNICEF Zimbabwe	CCS Zimbabwe
Abednego Chigumbu		UNICEF Zimbabwe	CCS Zimbabwe
Vikas Singh		UNICEF Zimbabwe	CCS Zimbabwe
17 members	PWSSC and DWSSC Members	Makonde Rural District Councils	CCS Zimbabwe
9 members		Chegututu District Water and Sanitation Committee	CCS Zimbabwe
11 members		Gweru District Water and Sanitation Committee	CCS Zimbabwe



## ANNEX K: LIST OF SITES SURVEYED IN CASE STUDY COUNTRIES

### Bolivia

Department	Municipality	Village
Chuquisaca	Icla	Soroma village (soroma section - "Churu" sector)
Chuquisaca	Icla	Tacko Pampa
Chuquisaca	Presto	Pasopayita
Chuquisaca	Presto	Aramasi
Chuquisaca	Sopechuy	Villa Candalaria

### Cambodia

Site name or key informants	Location	Technology
Kampong Kong	Chrung Romeas Village, Kampong Kong	Piped system
Porthiban Piped Water Supply	Thmey Village, Porthiban Commune, Koh Thom Dist., Kandal	Piped system
Water and Sanitation User's Group	Chantrea Village, Chantrea Commune, Chantrea Dist., Svay Rieng. 15 families	Hand pump
Water and Sanitation User's Group	Chantrea Village, Chantrea Commune, Chantrea Dist., Svay Rieng. 15 families	Hand pump
Water and Sanitation User's Group	Chantrea Village, Chantrea Commune, Chantrea Dist., Svay Rieng. 17 families	Hand pump
Water and Sanitation User's Group	Chantrea Village, Chantrea Commune, Chantrea Dist., Svay Rieng. 17 families	Hand pump
Teuk Saat 1001 Water Kiosks	Chokchey Village, Babong Commune, Pemror Dist., Prey Veng	Bottling kiosks



## Chad

Region	Name of village	Type of water supply
Guéra	Zerly	Borehole
	Bola Chari	Borehole
	Zoni	Borehole
	Koffilo	Borehole
	Mormo	Borehole
	Sissi	Borehole
	Badago CS	Borehole
	Badago Ecole	Borehole
	Delep	Borehole
	Douziat	Borehole
	Tchoffio	Borehole
	Banda	Borehole
	Bagoua	Small piped network
	Hilé korto	Borehole
	Djoukoulkouli	Borehole
	Gamé	Borehole
	Djogolo	Borehole
Bola Doungous	Borehole	
Hilélé	Borehole	
Mongo	Small piped network	
Chari-Barguimi	Fadjé	Borehole
	Issabouli Borno	Borehole
	Batalaye	Borehole
	Madjiri	Borehole
	Gassi Massa 2	Borehole
	Gassi Massa 1	Borehole
	Ali Garga	Borehole
	Ousmanari	Borehole

## Ethiopia

Woreda	Kebele	Site/Village
Wukro	Wukro Town	n/a
Tahtay Maychew	Tahatay	n/a
Embaalji Woreda	Ayba Kebele	Kresher Adihabi village
Embaalji Woreda	Betemera Ketema /town	n/a
Raya Azebo Woreda	Hurta Kebele	Melheeso village
Raya Azebo Woreda	Ebo Kebele	Sheshehro village



## Guinea

Préfecture	Nom du site	Technology
Boffa	Gare routière de Boffa	BOREHOLE
	Kossingssing	BOREHOLE
	Dary 1	Impluvium
	Dary 2	Impluvium
	Dondé	BOREHOLE
Kindia	NMéhouré	BOREHOLE
	Yelisorya	BOREHOLE
	Yessila	BOREHOLE
	Koba Kilonothé	BOREHOLE
	Tanfily	BOREHOLE

## Nepal

District	Village/ community	Technology
Kapilvastu District	Motipur	Motorized water systems
Kapilvastu District	Emilia	Motorized water systems
Dang	Khavipur	Gravity water systems
Dang	Purandhara	Gravity water systems
Nepalgunj	Tulsipur	water system

## Rwanda

District	Village / community	Technology
Rubavu	Rukonso	Hand pump
Nyabihu	Mugera-Rwerere	Pumped piped
	RugaRabara	Protected spring
	Gatduu - Karserbayi, Gatagara	Pumped piped
	Nyabihu Gatouu	Pumped piped
Musanse	Munindi	Protected spring
	Munindi	Gravity piped
	Mukungwa	Hand pump
	Gacaca sector, Rurambo	Pumped piped
Burera	Mugera-rewere	Pumped piped

## Zimbabwe

Location	Technology
Mvurwi town	Residential areas and water works
Glynamel - Makonde RDC	Spring water piped water scheme
Tongogara village - Chegutu	New borehole
Hanisi village - Vhungu RDC	New borehole
Mutodza village - Vhungu RDC	New borehole
Shurugwi	Water works, pre-paid meter connection and communal water tap





# ANNEX L: DATA COLLECTION TOOLS

Available upon request

