



Looking back at the Belgian development cooperation in the water sector in Mali over the past 10 years

Last update: July 2020

Status of SDG6

A few charts on the status of water resources and on SDG6 in Mali are in Figure 1 to Figure 4. More detailed and updated information can be found on the [Mali's country snapshot](#) provided in the [UN-Water SDG6 data portal](#), and the WHO – UNICEF Join Monitoring Program's [Mali's country file](#).

Belgian and international ODA to water sector

Based on the database reporting the Belgian ODA, 29.600.000 EUR have been allocated to the water sector in Mali between 2008 and 2019, which corresponds to 4,1% of the total Belgian ODA to water sector through bilateral aids (Figure 5), and to 13% of the total Belgian ODA to the country (Figure 6). Main contractors have been Enabel, Join for Water and to a lesser extent Solidargo (Figure 7). Projects and programs have mainly been implemented in basic and large water infrastructures and agricultural water. The list of water program and projects are in Table 2. According to OECD's Credit Reporting System, DAC countries giving more than 1million US\$ to Mali for the Water and Sanitation sector between 2014 and 2018 are Germany (133M US\$), France (72M US\$), Denmark (49M US\$), the United States (28M US\$), Netherlands (23M US\$), Italy (14M US\$), Belgium (14M US\$), Canada (9M US\$), Spain (6M US\$), Luxembourg (4M US\$), Sweden (2M US\$) and Norway (2M US\$) (Table 1).

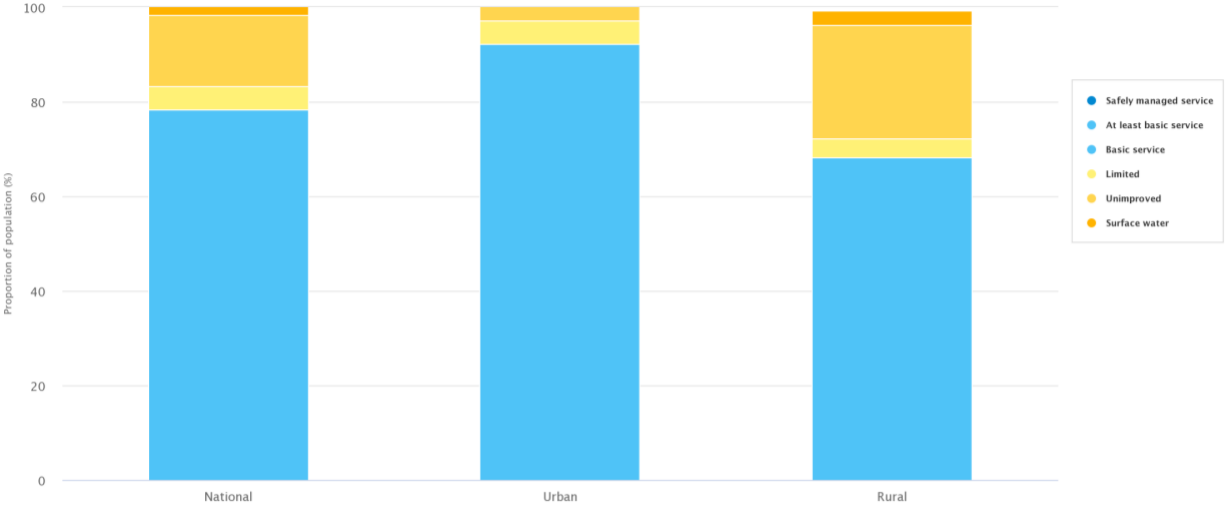
Belgian organisations with projects in Mali over the course of the past 10 years

Seventeen Belgian organisations having expertise in water have reported having been active in Mali between 2010 and 2019 (Table 3). Nine are NGOs, seven are from the private sector, and one is a research institution.

Academic water research in Mali over the course of the past 10 years

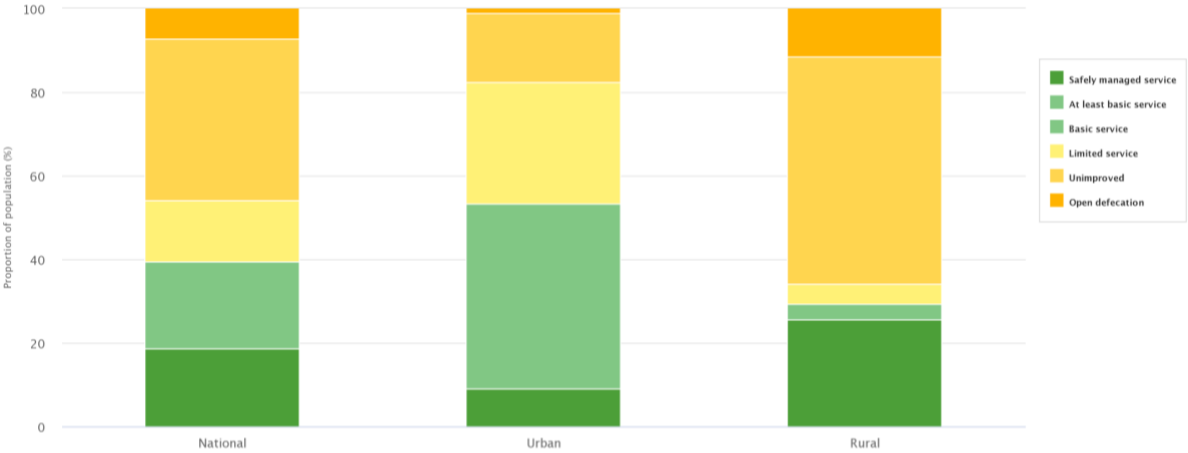
Five peer-reviewed papers have been published by research team including authors from Belgium and Mali. Research domains are in the fields of irrigation and drainage systems, water Resources and agricultural water management (Table 4).

Figure 1. Proportion of population using drinking water services in Mali, by service level and by location (SDG6.1.1, 2017).



Data source: WHO, UNICEF
Exported from UN-Water <https://sdg6data.org> on 11 July 2020

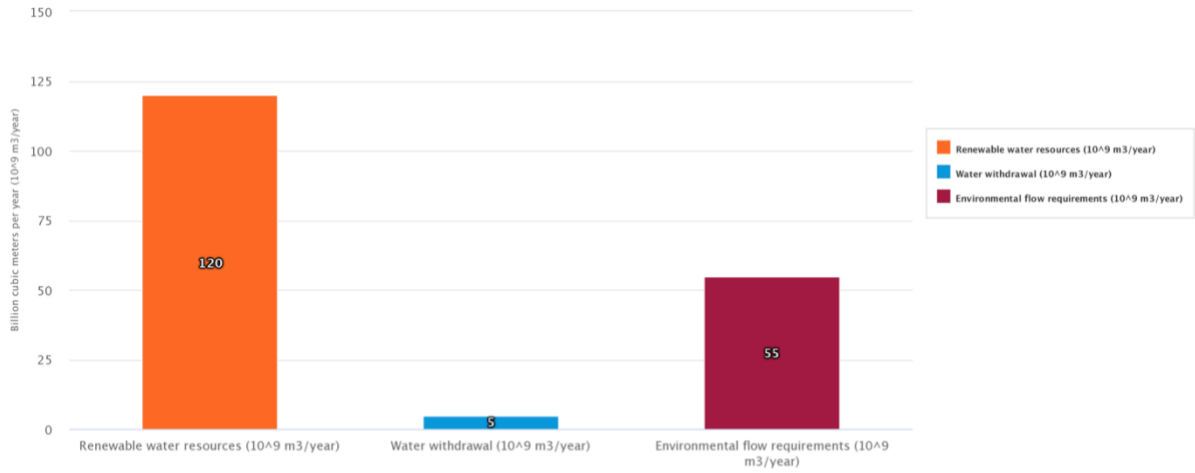
Figure 2. Proportion of population using sanitation services in Mali, by service level and by location (SDG6.2.1a.;2017).



Data source: WHO, UNICEF
Exported from UN-Water <https://sdg6data.org> on 11 July 2020

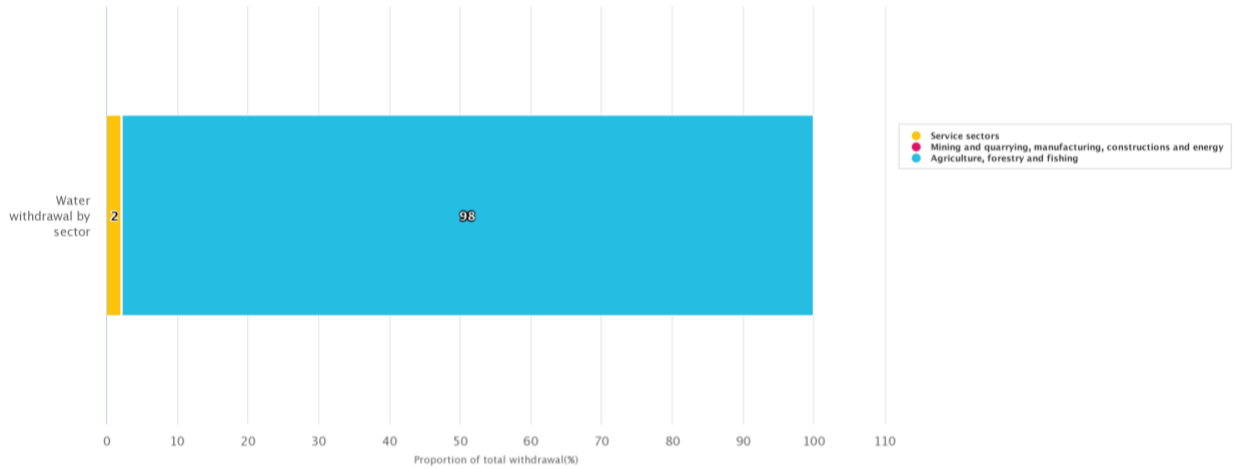
Figure 3. Water resources and withdrawal in Mali, per capita and by source.

- Long-term average annual precipitation in depth: 282 (mm/year) (2017)
- Renewable water resources: 6,472 m³ per capita (2017)
- Water withdrawal: 379 m³ per capita (2006)
- Environmental flow requirements: 46 % of the renewable water resources (2017)



Data source: FAO
Exported from UN-Water <https://sdg6data.org> on 11 July 2020

Figure 4. Water withdrawal by sector in Mali, as a percentage of total water withdrawal (2006).



Data source: FAO
Exported from UN-Water <https://sdg6data.org> on 11 July 2020

Figure 5. Total Belgian ODA to water per sub-sectors, with the ODA to Mali highlighted in blue.

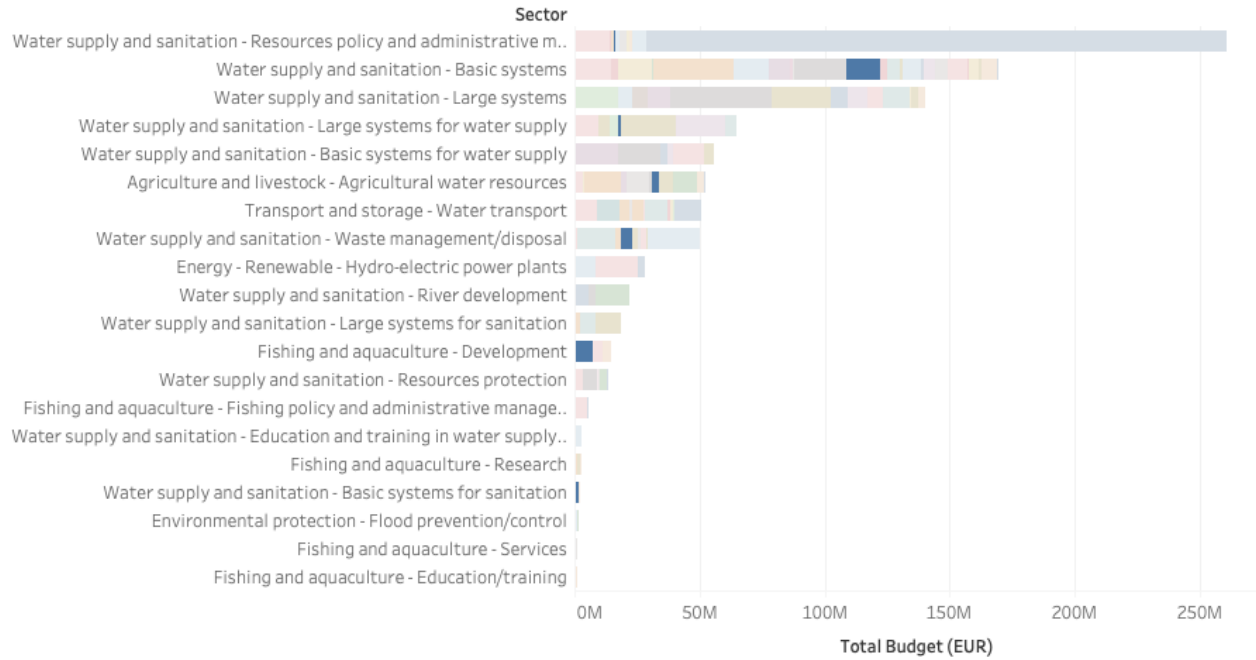


Figure 6. ODA to water (blue) in comparison to other sectors (grey) in Mali.
The size of the circle is proportional to the budget.

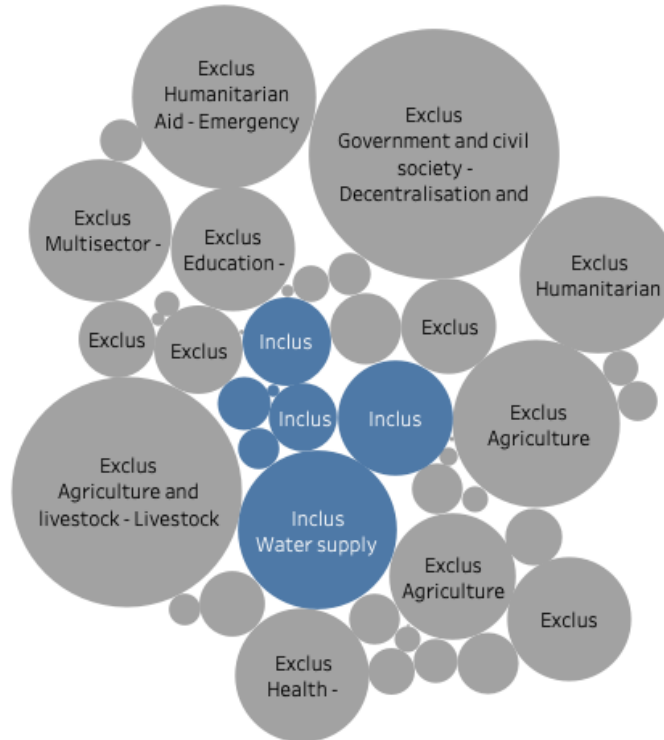


Figure 7. Contractors per water sector.



Table 1. ODA water supply and sanitation sector (ODA sector code 140) to Mali by DAC countries, cumulated between 2014 and 2018¹.

DAC Countries	2014 - 2018 Commitment (Millions 2018 US\$)
Germany	\$ 133,45
France	\$ 71,69
Denmark	\$ 48,54
United States	\$ 27,57
Netherlands	\$ 23,39
Italy	\$ 13,94
Belgium	\$ 13,63
Canada	\$ 8,61
Spain	\$ 6,23
Luxembourg	\$ 3,97
Sweden	\$ 2,36
Norway	\$ 1,93
Switzerland	\$ 1,03
Japan	\$ 0,12
Australia	\$ 0,03

¹ Source: OECD Credit Reporting System. <https://stats.oecd.org/>. Accessed June 2020. Belgian development cooperation in the water sector in Mali

Table 2. List of water projects funded by Belgian ODA.Typology: **B01**-Core support to NGOs, other private bodies, PPPs and research institutes; **C01**-Project-type interventions.

Contractor	Type	Title	Effective Start Dt	Effective End Dt	Budget (EUR)
Enabel - the Belgian development agency	C01	ASSAINISSEMENT DE 2 VILLES MALIENNES (CAN 2002)	29-04-2002	31-08-2007	2542236
	C01	Ontwikkeling van de visteelt in de regio Sikasso	24-12-2010	03-09-2018	7050000
	C01	Consolidation de la filière de transformation et de gestion des déchets solides de Sikasso	01-07-2014	11-06-2018	1580000
	C01	Gedecentraliseerd waterbeheer in de Gao-regio	15-01-2004	31-03-2008	6785339
	C01	Project ter verbetering van de toegang tot drinkwater en sanitatie in de regio Koulikoro	28-12-2018		
Government partner country: financial coop. - DGCD partner	C01	Drinkwaterproject voor Sénou, een buitenwijk van Bamako			
INDIRECT BELGIUM general/not specified	C01	Aide de la province d'Anvers: approvisionnement d'eau			
NGO Join For Water (ex-Protos)	B01	L'accès durable et la gestion de l'eau au Mali	01-01-2011	31-12-2013	736763
	C01	Gestion intégrée de l'eau dans le delta intérieur du Niger			50000
	B01	Protos - Programma 2014-2016 - Toegang tot en beheer van drinkwater en sanitatie in MALI.	01-01-2011	31-12-2016	897233
	C01	The access to water, hygiene and sanitation are improved in a participatory, sustainable and just way 3 municipalities in and around Bamako			
	C01	Programma voor de strijd tegen voedselonzekerheid en ondervoeding: component drinkbaar water	16-02-2012	30-06-2017	1500000
	C01	Gestion de l'eau Delta du Niger	01-01-2005		
	C01	Loterie Nationale -- MDG's La gestion intégrée de l'eau dans le delta du Niger au Mali			
	C01	De l'eau potable et sanitation dans les cités du District Bamako			150000
	C01	Ontwikkeling en versterking van de sanitatieketen voor latrines			75000
	B01	Thèmes stratégiques sur l'eau à travers l'échange international	01-01-2008	31-12-2010	84000

Contractor	Type	Title	Effective Start Dt	Effective End Dt	Budget (EUR)
	B01	Duurzame toegang tot drinkwater, basissanitatie en goed beheer	01-01-2008	31-12-2010	251000
	C01	Integraal waterbeheer in de Nigerdelta	09-10-2004	08-10-2009	1569693
	C01	Gestion intégrée des ressources en eau dans le delta intérieur du Niger			45000
	C01	Voedselzekerheid verbeteren door middel van een duurzaam beheer van de watervoorraden	01-01-2012	30-06-2015	899999
	B01	Amélioration de l'accès à l'eau potable et productive, à l'hygiène et à l'assainissement à Bamako et dans les régions de Koulikoro et Mopti, Mali	01-01-2017		2498732
	C01	Eau potable et assainissement dans le Badenyafo Nema, le Mali			150000
NGO Solidagro (ex Bevrijde Wereld - BW/Terre Nouvelle - TN)	C01	Initiatieven voor voedselzekerheid in Mali (PAISA II-Mali)	01-04-2012	31-12-2015	1272190
	C01	L'approvisionnement en eau de six villages de la région de Koulikoro, au Mali			65922
	C01	Initiatives pour la sécurité alimentaire	02-12-2003	02-12-2011	1201645
	C01	Repairing water pumps and supporting process reforms concerning local water management in the municipality of Koporona, Mopti region, Mali			
NGO Unicef - Belgium	C01	Accès durable à l'eau potable, sanitation et hygiène			144000

Table 3. Belgian organisations in the water sector that reported having had projects in Mali over the course of the past 10 years.

Source: [Water Nexus database of Water Actors](#). Might not be a comprehensive list.

Sector	Acronym	Name	Website	Keywords	Description
Government-recognised NGO	IDP	Iles de Paix	www.ilesdepaix.org	Agriculture- Farmers	Iles de Paix appuie le secteur de l'agriculture familiale au niveau duquel l'amélioration de la gestion des ressources hydriques disponibles est fondamental.
	Join For Water	Protos - Join For Water	www.joinforwater.ngo	Sanitation Chain- Water Provision- Water Resource Management- Lobby- Participation- Capacity Building	Join For Water reinforces an equitable, sustainable and participatory water management and water use: our mission explains what we understand by this and how we wish to put this into practice.
	BRC	Belgian Red Cross	www.croix-rouge.be	Nutrition-Water	/
	VSF / DZG	VSF Dierenartsen Zonder Grenzen Belgium	www.veterinairezansfrontiers.be	Animal Water Supply	/
	CRB	Croix-Rouge de Belgique	www.croix-rouge.be	WASH-Réduction Des Risques De Catastrophes-Nutrition (Wash In Nut	/
	ETM - KDW	Enfance Tiers Monde/Kinderen Derde Wereld	www.efancetiersmonde.be	Vulnerable Children And Youth-Empowerment- Re-Integration	/
		Autre Terre	www.autreterre.org	Agroecology- Waste	/
		Solidagro	www.solidagro.be	Agroecological Agriculture	/
		Oxfam Sol	Oxfam-solidarité	https://www.oxfamsol.be/	Action against inequalities-Actions Humanitaires-Développement- Sensibilisation
Private sector organisation	ATRASOL	ATRASOL sprl		Rehabilitation- Carbon Footprint- Sustainability- Multicriteria Analisis- Solid Waste	Sustainable consultancy
	Eloy	Eloy Water	www.elaywater.com	Prefabricated Solutions- Ready-To-Use Solutions- Water Treatment	/
		Sotrad Water	www.sotradwater.be	Treatment- Pumps- Ultra Filtering- Stockage- Solar	/
	Hydro-rdi	Hydro-R&D International	www.hydro-rdi.eu	/	/

Sector	Acronym	Name	Website	Keywords	Description
	Antea Group	Antea Belgium NV	www.anteagroup.be	Numeric Modelling- Integrated Water Resources Management- Ecosystem Based Approach- Climate Change Adaption	As an international engineering and environmental consulting firm, Antea Group specializes in full-service solutions in the fields of water, environment, infrastructure, and urban planning. We combine strategic thinking and multidisciplinary perspectives with technical expertise and pragmatic action to effectively solve client challenges while delivering sustainable results for a better future.
	SHER	SHER Ingéneurs- Conseils s.a.	www.sher.be	Impact Research- Water Treatment- Alimentation- Potable Water- Irrigation- Hydroelectricity	Water research office
	IzG	Ingenieurs zonder Grenzen	izg.be	Groundwater-Surface water- Borehole-Water treatment-Water quality control-Ultrafiltration	
Research institute or team; Knowledge center	UAntwerp	University of Antwerp	https://www.uantwerpen.be/en/centres/environment-sustainable-development/	River Basin Management-Ecosystem Services-Water Technology-Water Governance-Toxicology	NA

Table 4. Peer-reviewed, academic publications on water co-published with researchers from Belgium and Mali between 2010 and 2019.

Belgian authors are in bold font.

Authors	Belgian Insitutions	Title	Year	Journal	DOI
Vandersypen K. , Keita A.C.T., Lidon B., Raes D. , Jamin J.-Y.	Department of Land Management and Economics, Faculty of Bioscience	Didactic tools for supporting participatory water management in collective irrigation schemes	2008	Irrigation and Drainage Systems	https://doi.org/10.1007/s10795-007-9042-2
Vandersypen K. , Keita A.C.T., Coulibaly Y., Raes D. , Jamin J.-Y.	Engineering, K. U. Leuven, Leuven.	Formal and informal decision making on water management at the village level: A case study from the Office du Niger irrigation scheme (Mali)	2007	Water Resources Research	https://doi.org/10.1029/2006WR005132
Vandersypen K. , Keita A.C.T., Coulibaly B., Raes D. , Jamin J.-Y.		Drainage problems in the rice schemes of the Office du Niger (Mali) in relation to water management	2007	Agricultural Water Management	https://doi.org/10.1016/j.agwat.2006.12.006
Vandersypen K. , Bengaly K., Keita A.C.T., Sidibe S., Raes D. , Jamin J.-Y.		Irrigation performance at tertiary level in the rice schemes of the Office du Niger (Mali): Adequate water delivery through over-supply	2006	Agricultural Water Management	https://doi.org/10.1016/j.agwat.2005.11.003
Vandersypen K. , Keita A.C.T., Kaloga K., Coulibaly Y., Raes D. , Jamin J.-Y.		Sustainability of farmers' organization of water management in the Office du Niger irrigation scheme in Mali	2006	Irrigation and Drainage	https://doi.org/10.1002/ird.215