



Terre Solidali

WASH PROFILE
SOMALILAND and SOMALIA





Background

Terre Solidali (TS) was established in 2002 in Italy as a non-for-profit non-governmental organisation by a group of professionals with consolidated working experience in the humanitarian aid and development sectors with the common objective of enhancing local resources by reinforcing the Public Institutions, private sector and the Civil Society.

Since most of somalis live in areas stressed by water shortage or lack of access to potable water, WASH has become the main sector of intervention for TS in Somaliland and Somalia since its foundation.

TS Vision

TS WASH Vision is to enhance **long-term sustainable, accessible and inclusive access to water services delivery** through better water sources planning, design and management.

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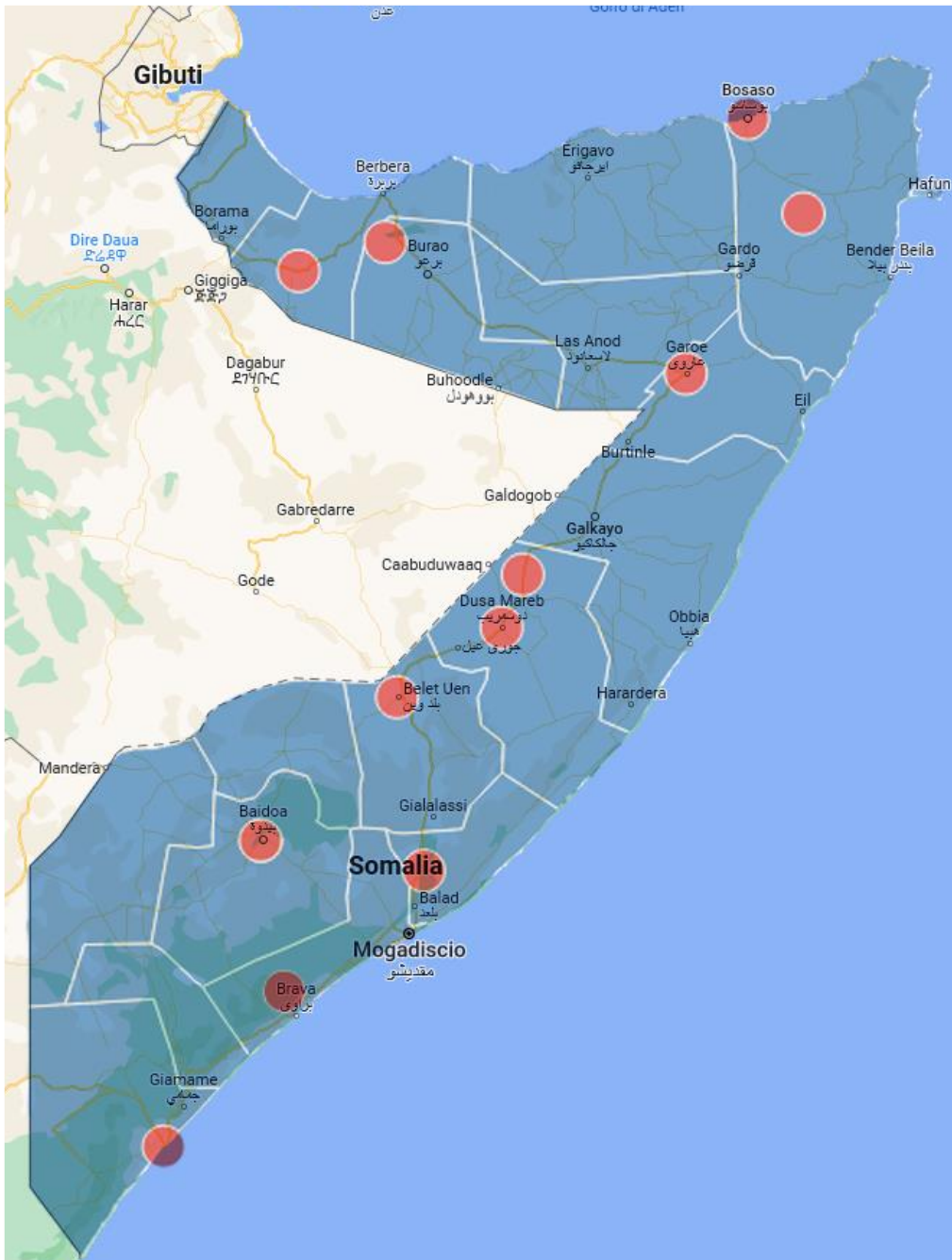
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Areas of intervention in the water sector

Terre Solidali covers almost the entire spectrum of activities in the WASH sector in Somalia. To mitigate the effects of water scarcity, Terre Solidali focuses its intervention on the **study, planning and development** of underground and surface water resources, adopting an internal development strategy of skills and long-term collaboration with highly qualified consultants in order to ensure efficiency and a high level of services.

In **Somaliland** and in **Puntland** Terre Solidali has an unmatched experience and operational capacity in the water sector matured in the last **16 years** implementing complex water research and infrastructure projects in both urban and in rural contexts.

TS local senior experts have the capacity to work in all the regions in Somalia ensuring timely production and collection of field data, working closely with public institutions and water companies and public agencies. TS is carrying out water studies, engineering and work supervision also in **Galmudug**, in **Hirshabelle**, **Jubaland** and in **South-West State of Somalia**.



Major areas of expertises in WASH

Water research

Water master plans

Water Infrastructures

Borehole drillings

Water governance

**Information
management system**

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Water research

Terre Solidali has an excellent ability in the water research thanks to its team of local and international experts, with long working experience in Somalia and to the availability of a different surveying equipment, which allow TS to perform a wide range of water research methodologies such as:

- Remote sensing, Geological, hydrogeological, hydrological surveys
- Geophysical surveys (VES, refraction/reflection seismic, TEM, VLF, resistivity profiling)
- GIS mapping, topographical mapping with drone and total station
- Pumping tests and water monitoring
- Design of water monitoring plan
- Borehole electrical conductivity logs
- Geotechnical studies and exploration boreholes
- Exploratory drillings

In some regions in Somalia TS has discovered and studied large aquifers that are now being developed or are part of future plans.

Terre Solidali in 2021 has initiated an invested program to enable the organisation to drill directly exploratory drillings to calibrate the geophysical survey and to verify the findings of the water studies.

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Water master plans

The design of Water Master Plans is part of Terre Solidali approach for the development of the water sector in Somalia. The Water Master Plan examines and deepens, among others, the following aspects:

- Water demand
- Water resource study
- Infrastructures design (Drawings, BoQs, Specification)
- Financial plans design
- Consultative Stakeholder Workshop and consensus building
- Management options and PPP design
- Training needs assessment
- Procurement plan, tender documents and work supervision

Terre Solidali designed so far 13 urban water master plans in major towns in Somaliland, Puntland, South West State and Hirshabele.



SCALE 1 : 16.000



Puntland State of Somalia		Actions	Date	Name
Puntland Water Development Agency (PWDA)		Drawn		
Garowe Water Agency (NUWACO)		Checked		
GAROWE WATER SUPPLY PROJECT		Approved		
Garowe Water Supply System			Drawing No: 3	
in the Year 2015				
Funded by The Netherlands EnterpriseAgency (RVO)		Implementing Agency Consortium Witteveen+Bos - Terre Solidali - NIRAS AS		

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Water infrastructures

Water resources development and **water supply systems** construction are part of Terre Solidali core competencies in Somaliland and in Somalia. This achievement was possible also thanks to important investments in earth moving machinery, equipment and qualified personnel and to the **partnership** with local water agencies, Government institutions and PPP companies. To support the infrastructure sector TS has developed an efficient supply chain for water materials directly from reputable manufactures ensuring both **quality and value for money**.

Terre Solidali is also involved in the design of water harvesting infrastructures such sand dams, subsurface dams, infiltration galleries and hafir dams introducing innovative and sustainable solutions and in the development of springs.

Terre Solidali has also expanded its competences in the **irrigation systems** and **boreholes drilling**.

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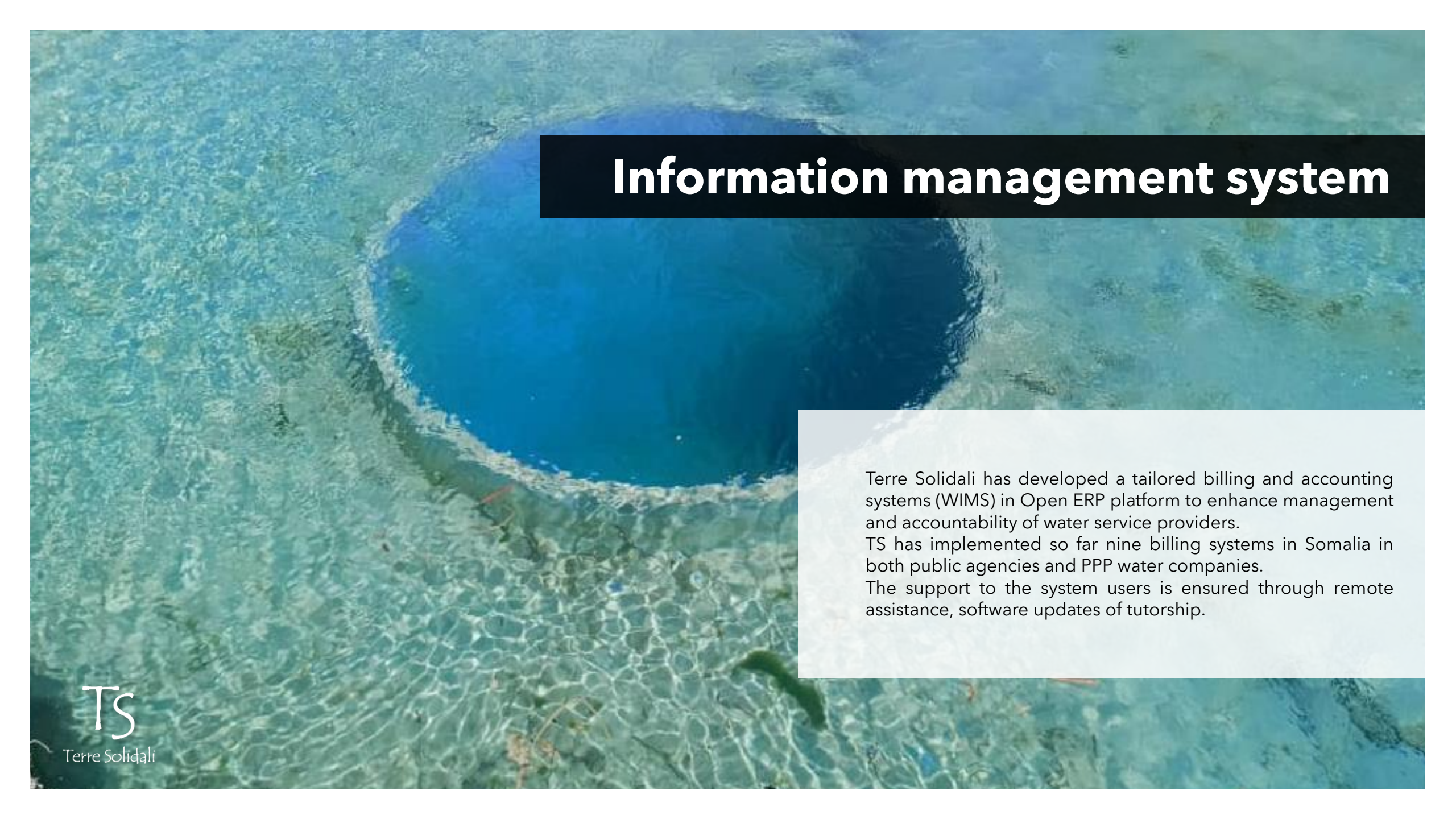


Water Governance

TS water governance approach focuses on building the capacities of **public institutions**, water agencies and PPP water companies to improve water service delivery, the planning, the management and the monitoring of water sources. Technical assistance to design PPP road maps, draft PPP agreements, design water tariff structures and design of financial plans are also part of TS competencies and experience in the water sector in Somalia.

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An aerial photograph of a circular water reservoir in a dry, cracked landscape. The water is a deep blue color, contrasting with the surrounding light brown, cracked earth. The reservoir is surrounded by a low, earthen wall. The overall scene suggests a water scarcity environment.

Information management system

Terre Solidali has developed a tailored billing and accounting systems (WIMS) in Open ERP platform to enhance management and accountability of water service providers. TS has implemented so far nine billing systems in Somalia in both public agencies and PPP water companies. The support to the system users is ensured through remote assistance, software updates of tutorship.

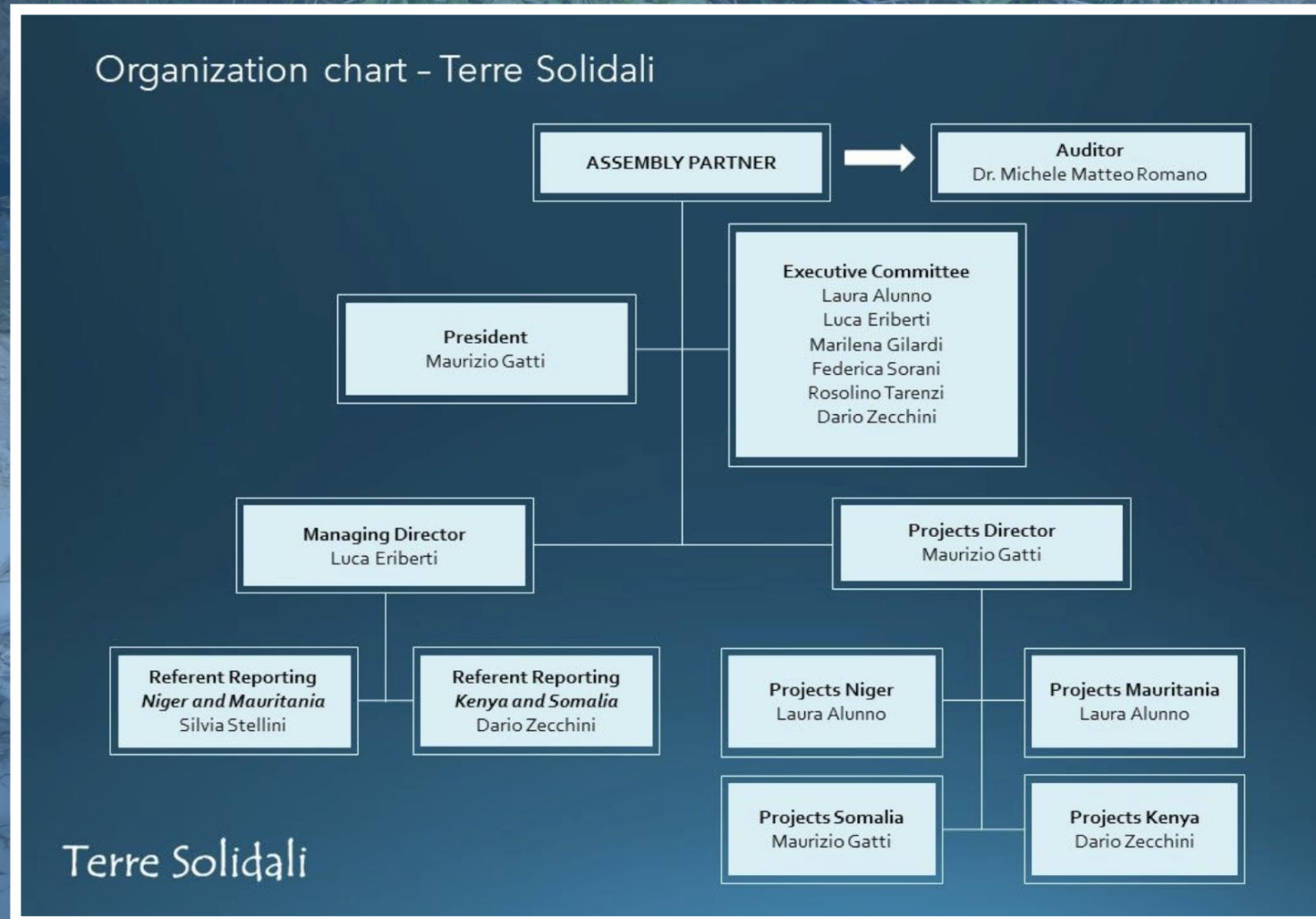


Drillings

Due to the high rate of well failures, the high costs of drilling and the need to improve the **effectiveness of investigations** of groundwater resources, Terre Solidali has expanded its operational capacity through an investment plan in exploratory drilling equipment and production of wells and geotechnical investigations.

Organisation Chart

The following tables describe the overall structure of Terre Solidali:



Main Donors in Somaliland and in Somalia

TS has also a strong track record of working directly with governments and cooperates with several international donors such as: EU, AICS, UNICEF, UNFPA, WB, RVO, SDF currently. In the past TS worked with TCCF, FAO, UNOPS, UNDP, IFAD, UN-HABITAT, ILO, IOM, PHARO Foundation, WVI.





Audited Financial report

Terre Solidali's Audit Financial Reports are available at the following link:

<http://www.terresolidali.org/financial-statements-2/>

The table below shows the last three years audited budget summary:

Financial Data	Terre Solidali Onlus (€)			Average
	2020	2021	2022	
Annual turnover	3,945,427	3,449,657	6,647,455	4,680,846
Current assets	1,617,459	1,496,099	1,286,983	1,466,847
Current liabilities	439,057	224,066	993,273	552,132
Current ratio (current assets / current liabilities)	3,7:1	6,7:1	1,3:1	4:1

Offices

The Consultants are supported by Terre Solidali permanent base in Hargeisa (Somaliland) and in Nairobi (Kenya) Regional Office. Other project based offices or personnel are present in Bosaso and Garowe (Puntland), Baidoa (South West State), Jowhar (Hirshabelle) and Mogadishu (Benadir).

WASH STAFF CONTACTS

Abdirisak Mohamoud Muse, Coordinator Puntland

abdirisak.mohamoud@terresolidali-som.org

Bashir Edow, Coordinator Central South Somalia

bashir.edow@terresolidali-som.org

Rashid Mohamed Abdi, Coordinator Somaliland

rashid.mabdi@terresolidali-som.org

Maurizio Gatti (TS Projects Director)

maurizio.gatti@terresolidali-som.org

Info WASH

wash@terresolidali-som.org

TS Somalia web site: www.terresolidali-som.so



Contacts

Duration	Assignment Name	Name of Client	Value contract USD	Role on the assignment
February 2024 - January 2026	Technical backstopping services for water point development, enhance, capacity and methodology evaluation	Ministry of Water Resources Development (Somaliland)	223,987.50 \$	In JV with HydroNova, study and design 21 water infrastructures: shallow wells, dams, boreholes
December 2023 - June 2025	Bosaso spring water sources development - Phase II Upscale of scope	AICS	1,674,000.00 \$	Sole Consultant
November 2023 - October 2026	Somalia Water for Rural Resilience Project 'Barwaaqo', in Somaliland	"Somaliland MoWR / WB"	508,183.00 \$	Carry out topographical, geotechnical, hydrogeological and geophysical survey for the design of 35 water harvesting infrastructures, (subsurface dams, sand dams Hafir dam, boreholes, etc.)"
April 2023 - March 2025	Somalia Water for Rural Resilience Project 'Barwaaqo'	MoEWR/World Bank. Partnership with HydraNova (Leading Agency)	869,386.00 \$	Carry out topographical, geotechnical, hydrogeological and geophysical survey for the design of 70 water harvesting infrastructures, work supervision, (subsurface dams, sand dams Hafir dam) across South West State, Puntland, Jubaland, Hirshabelle and Galmadug

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Terre Solidali Experience in Wash

SUMMARY WORK EXPERIENCE IN SOMALILAND AND SOMALIA

Duration	Assignment Name	Name of Client	Value contract USD	Role on the assignment
January 2022 - June 2024	Bosaso Spring project Phase II	EU	3,398,400 \$	Leading agency. Design, supply and construct trunk line and spring development
July 2018 / February 2024	Bosaso water spring project spring	EU / AICS	5,325,000 €	Water Study, engineering and connection of Dhuud Shabeel springs (29 km trunk line sBosaso).
June 2021 - May 2023	Beled Wayne Water Master Plan	UNICEF (AICS)	499,932 \$	Design of Beled Wayne 25-year water master Plan and executive engineering
June 2021 - November 2023	Barawe Water Master Plan	UNICEF	339,639 \$	Design of Barawe 25-year water master Plan and executive engineering
April 2022- September 2023	P101-110 Supply and Installation of Pipes Fittings, Valves and Accessories - Lot 1	SDF	1,400,272 \$	Sole Consultant: review engineering, supply and install flow lines, construct valve chambers and three pumping stations.

Duration	Assignment Name	Name of Client	Value contract USD	Role on the assignment
August 2021- August 2023	Garowe 25-year Water Master Plan	RVO (in Partnership with WitteveenBos and Niras	520,800 \$	Carry our ground water research and prepare engineering at feasibility level for Garowe water supply.
April 2021 - March 2023	Somalia Agro-Pastoralist Productivity and Resilience Project The "Biyoole" Project in South West State and Galmadug	MoEWR/World Bank. In partnership with HydraNova (Leading Agency)	208,000 \$	Carry out topographical, geotechnical, hydrogeological and geophysical survey for the design of 20 water harvesting infrastructures, works supervision (subsurface dams, sand dams Hafir dam) across South West state and Galmadug
September 2020 - August 2022	Somalia Agro-Pastoralist Productivity and Resilience Project The "Biyoole" Project in Puntland	PWDA /World Bank. Partnership with HydraNova leading agency	134,000 \$	Carry out topographical, geotechnical, hydrogeological and geophysical survey for the design of 25 water harvesting infrastructures, work supervision (subsurface dams, sand dams Hafir dam) across Puntland
January 2022 - April 2022	CCF water supply, Somaliland	CCF	85,000 \$	Design and construct of a mini water supply for Cheetah Conservation fund

Duration	Assignment Name	Name of Client	Value contract USD	Role on the assignment
August 2021- January 2022	Borama Water supplies	SDF	296,450 \$	Supply and install boreholes, booster station and reservoirs fittings and equipment
February 2017 - Dec. 2021	RAIN III SL, Hargeisa water agency distribution expansion	TCCF	5,000,000 \$	Design of distribution in Hargeisa and construction of 62,000 km of primary / secondary distribution, 4 reservoirs and 3 booster stations.
August 2017 - Dec. 2020 (639)	Support to Agricultural Productivity in Somalia	IFAD/AICS	2.794.000 €	Enhancement of food security and productivity by: Rehab 42km of canal and infrastructures; Enhancement of crop production and productivity; Promoting alternative water sources research, innovative technologies and pro-poor approaches; Provision of sustainable canal maintenance and other agricultural services; Mainstreaming Conflict Management and Peace Building.
May 2018 / October 2019	Baidoa 20-year Water Master Plan	UNICEF	520,983 \$	Design of Baidoa 20-year water master Plan and executive engineering for 34 lots of works. Establish of water monitoring system.

Duration	Assignment Name	Name of Client	Value contract USD	Role on the assignment
May 2016- June 2018	Water for AgroPastoralist Livelihoods Pilot Project in Somaliland and Puntland	World Bank Group partnership with T-Zero (Leading Ag.)	\$85,000 \$	Hydrological analysis of wadis, site selection for 8 dams, support in the engineering, project supervision and monitoring
July 2017 - March 2017	Xaraf Subsurface Dams	SDF	143,640 \$	Review subsurface dams, construction of 2 dams in Haraf (Hargeisa)
October 2015 / December 2016	Berbera 20-year Water Master Plan	SDF	388,000 \$	Study of 6 new aquifers, Water demand assessment Stakeholder consultative workshops Borehole siting Design of 20-year Master Plan and executive designs
April 2013 - March 2016	Expansion Improving Urban Water Service Delivery in Somaliland",	UNICEF	1,270,000 \$	Water study: Borama, Burco, Erigavo, Wajaale 25-year Master Plan: Borama, Wjaale, Erigavo Design of industrial plan: Burco, Borama, Erigavo and Wajaale, Introduction of water monitoring system Design tailored billing system: Borama Design of PPP agreement

Duration	Assignment Name	Name of Client	Value contract USD	Role on the assignment
January 2013 - July 2015	Water infrastructure and management support, in Puntland	EU	3,155,000 \$	Design of 25-year water Master Plan, Industrial plan, Financial Plan, billing system, PPP agreement in 5 towns in Puntland: Bosaso, Gardo, Garowe, Baadwayne, Galkayo. Boreholes siting.
Oct. 2013 - Nov. 2014	Xaraf erosion control and water harvesting structures	EU	200,000 \$	Design and construction of erosion control structures in Haraf (Hargeisa).
Feb. 2013 - Feb. 2014	RAIN I SL - Design Sheik Omar distribution system	TCCF / GETF	89,560 US\$	Construct Haraf infiltration gallery, trunk line, one ground reservoir, distribution system to 3 kiosks.
June 2011 - November 2013	Technical Assistance for the Somaliland Ministry of Mining Energy and Water, the Hargeisa Water Agency and the Burco Water Agency	EU	1,377,000 \$	Design of Burco Master Plan and water study. Water research study in Hargeisa: Laas Dhuurre, Horahadley, Xaraf, Damal, Darawayne, Jaleelo/Humboweyne Construction of Haraf infiltration gallery Introduction of water monitoring system in HWA and BWA
June 2010 - October 2012	Expansion of Rural Water Supply system in Puntland and in Somaliland	UNICEF	1,020,000 \$	Study 15 rural water sources Design 8 rural water supply systems Borehole siting , construction of two water harvesting structures (Hafiir dams and infiltration gallery)