



Cubex
کیوبکس SAL



Cubex SAL

Your wastewater management partner

Mission & vision

Social enterprise specialized in wastewater management in off-grid applications with the vision to make wastewater treatment more economically viable through resource recovery and through the provision of solutions aligned with the local economy and adapted to local contexts.



Meet the team!

Young professionals in the fields of chemical, environmental and mechanical engineering in addition to business and science expert, supported by a network of experts in the field of wastewater management and treatment.

eawag
aquatic research

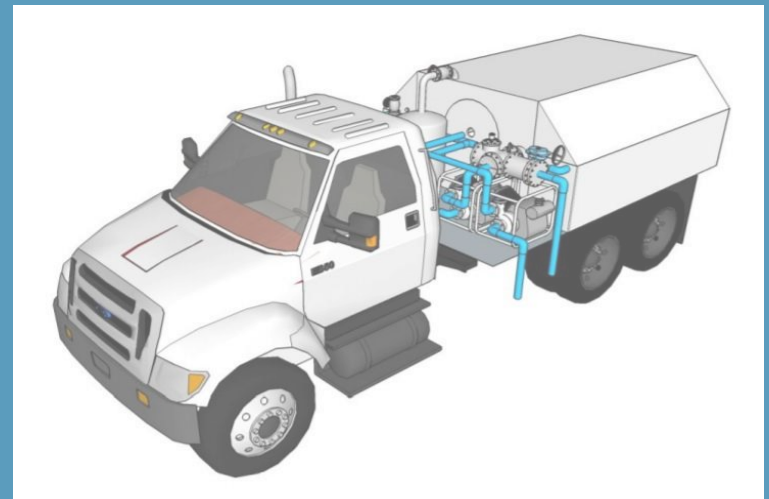
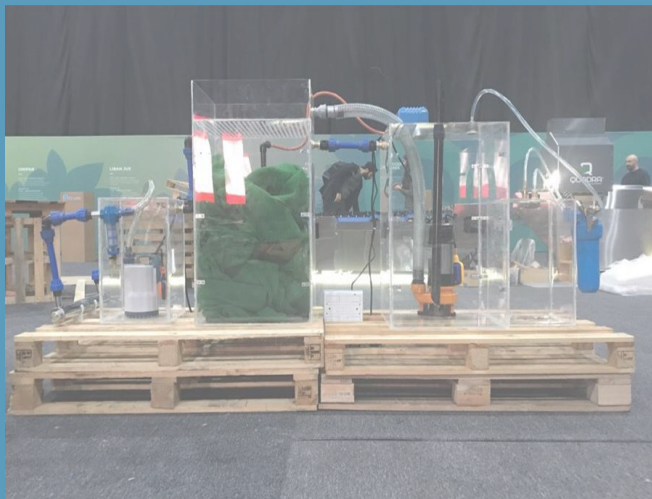
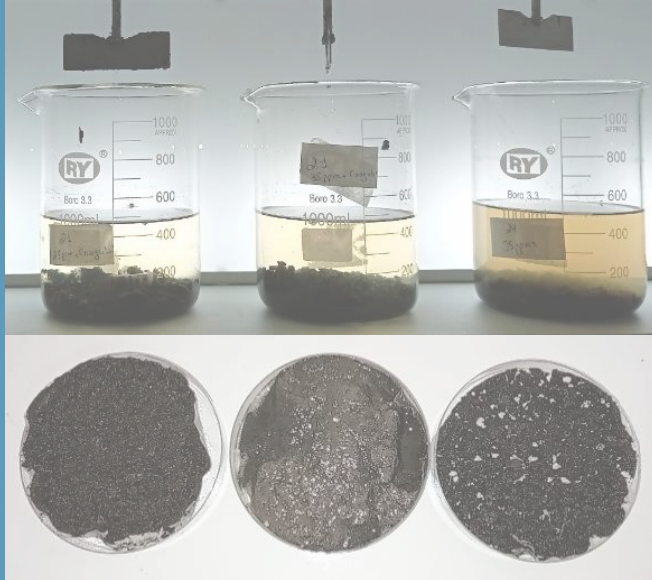
cewas

Autark Engineering AG
ecological engineering solutions

BORDA



Products & services



Modified septic tank- Market ready system

3-stage household scale wastewater treatment system with the aim to enhance effluent quality and reduce sludge accumulation, thus frequency of desludging. With an optional upgrade for homeowners for reuse of water for irrigation.



Decantra - Prototyping phase

Mobile dewatering system that addresses the frequent need of desludging of septic systems in rural areas and informal settlements by separating the solids from the water on-site and recovering the solids for integration into a composting operation.

Impact KPIs



m3 of Wastewater treated per year



Tons of fertilizers reused in agriculture

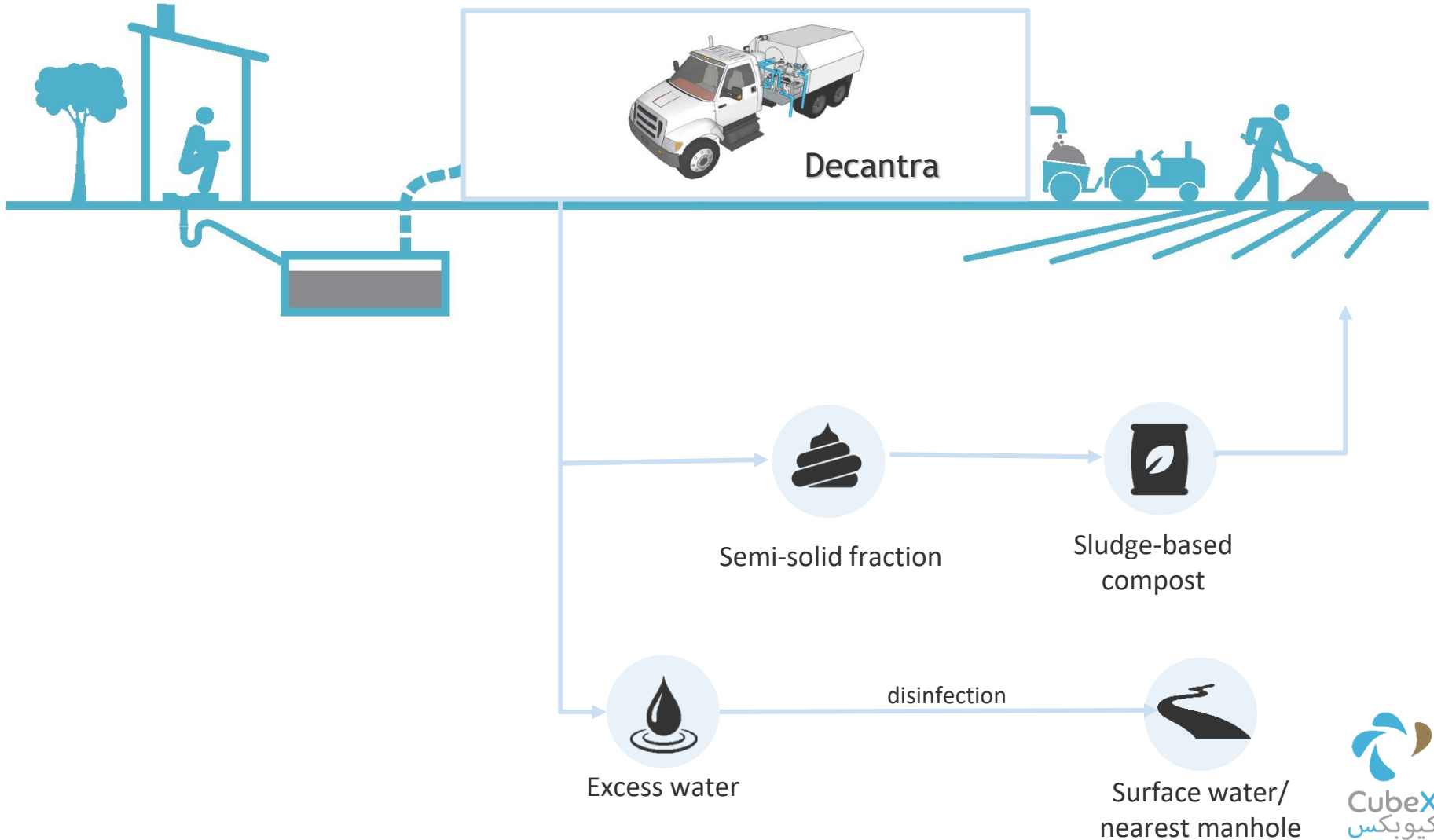


Number of people provided with adequate sanitation service



Decantra process diagram

Sanitation Value Chain



MVP operation - Q1 2022

West Bekaa- Lebanon



Informal settlements

ACTION AGAINST HUNGER



Sludge drop-off
Qaraoun WWTP



Manara Municipality
Composting facility

Compost Baladi
كومبوست بلدي





Project name: Volaser device testing

Client: Eawag

The Volaser is a laser measuring device that can measure in situ volumes of faecal sludge and containments, and could greatly reduce the cost of field work. Cubex SAL is part of eight partners selected by Eawag who are part of the study that aims to test the device as part of a Q&Q study in different locations around the world.



Contact Information

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Project name: Modified CubeX System

Client: Ramy Abou Jaoude

Installation of a modified cubex wastewater treatment system to service a household in Baabdat area after design optimization with the support of our advisor Eng. Nanchoz Zimmerman.

The 3-stage pilot system relies on biological treatment with the aim to reduce sludge accumulation and enhance effluent quality.



Contact Information

Name: Ramy Abou Jaoude

Mobile: +961 78788 902

Project name: Household wastewater treatment system
Client: Joseph Assaad

A site specific treatment plant was designed and implemented to treat 1000L/d for a household of 5 people in Qartaba, Lebanon.

The treatment plant consists of four tanks where biological treatment takes place followed by disinfection as a final step before the discharge of the effluent.



Contact Information

Name: Joseph Assaad

Mobile: +961 3880887

Project name: Compost toilet
Client: American University of Beirut

Our team worked on designing and installing a compost toilet in the Bekaa region; allowing its users to use less water than the traditional set-up and growing plants adjacently using the produced compost and water as nutritious amendments to the plants.



Contact Information

Name: Reslen Yassine

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Competitions & awards



Monetary competition for Green Start-ups;
1st Prize won. Competition by EU and
Fondation Diane at BDD, Lebanon.



Won a trip to AMWAJ in Barcelona.
Competition by CEWAS Middle East,
Lebanon.

 **ENVIRONMENTAL
CHALLENGE**

1st place prize winners of the 2020 RELX Environmental Challenge
for DECANTRA. The competition awards innovative solutions that
improve sustainable access to safe water and sanitation.

Incubators & accelerator programs



Green Accelerator Middle East, Jordan Bootcamp, 2021



Graduating ceremony at Startlife, NL, 2019



Mediterranean Innovation Week at Bari, Italy, 2021



Agrytech 2018

Get in touch with us!

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