

CubeX is committed to addressing the gaps in the faecal sludge management chain by the provision of solutions aligned with the local economy, adapted to the local context and embedded in the circular economy to make wastewater management economically viable. For this purpose, CubeX is developing Decantra, a mobile dewatering system that addresses the frequent need for desludging of septic systems in rural areas and informal settlements. Through this technology, solids are separated from water on-site to be recovered by further integration into a composting operation and reuse as a solid fertiliser in agricultural activities.

After a field sampling and testing campaign conducted in the West Bekaa to establish a data foundation of wastewater characterization and dewaterability of faecal sludge, and following the development of a lab-scale prototype to validate the technology, we are currently manufacturing an MVP that will be put to operation by Q2 2022 to service rural households and refugee camps in West Bekaa with several municipalities.

In this context, we were fortunate to have been visited by a team member from the MEWS research group at Sandec, Eawag (Management of Excreta, Wastewater, and Sludge (MEWS)). This visit was of great value and an opportunity to strengthen our existing MEWS-CubeX collaboration, physically see the local context, better understand the challenges, and explore further collaboration opportunities related to the improvement of the water and sanitation sector and the achievement of the SDG6.



"Prototype testing in the West Bekaa: Michael Vogel from the MEWS team of Eawag is discussing with the CubeX team the pilot system design and its functionality"

