



Your partner for clean waterways

Our innovative systems are globally unique and are in operation in many countries, cleaning rivers, canals and lakes.

During the last 100 years many waterways have been polluted and filled up by mud and sludge caused by industrialization and civilization. Unfiltered wastewater from factories, the mining industry and households have been dumped into waterways over the years. Waterways have become highly contaminated and poisoned.

The economical and ecological damages run into billions of US dollars every year (flooding damage, water contamination). Conventional and outdated methods of extraction are expensive and not effective.



UWT.swiss offers innovative and globally unique solution to clean and protect the waterways. We are a Switzerland based industrial innovation company and our portfolio of products comprise of mobile desludging systems for the restoration of waterways and for industrial sludge treatment.

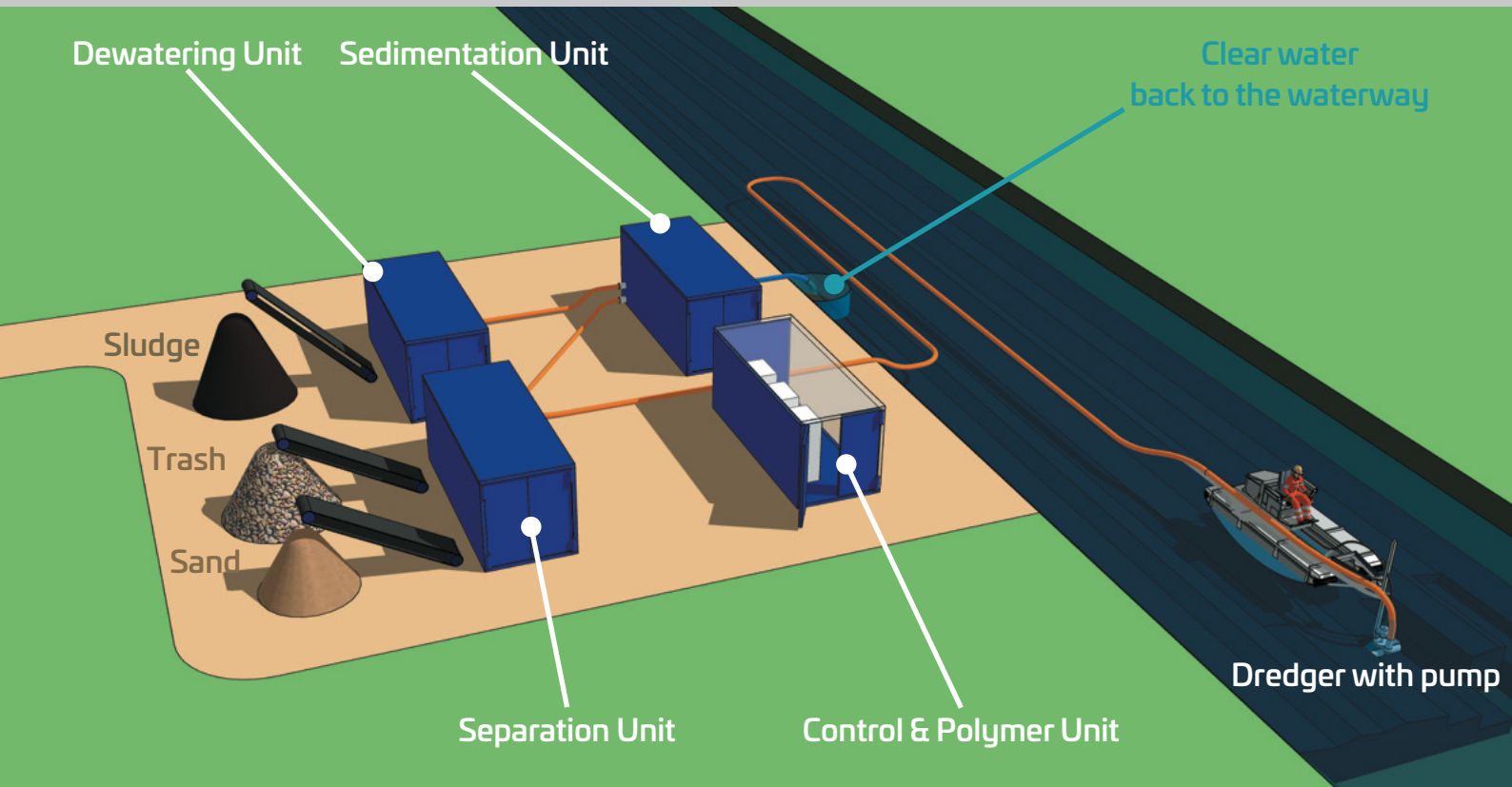
We offer ,best in class' separation, sludge treatment and dewatering machines in one integrated and fully digital system.

We deliver Environmental Engineering.



UWT.swiss

Mobile Desludging System



The innovative **UWT**.swiss mobile Desludging System is ideally suited for cleaning and desludging canals and waterways in densely populated urban areas.

The system can also be used in treating industrial sludge, e.g. mining and steel industries, preventing the waterways from being polluted.

The system separates and dewater:

- Trash and coarse material
- Sand, ready to use in construction industry
- Sludge, 75% dry, ready to use for landfill

The **UWT**.swiss system consists of a Separation Unit, a Sedimentation Unit, a Dewatering Unit and a Control & Polymer Unit incorporated in four 20' standard sized shipping containers.

This mobile and fully automated system is globally unique:

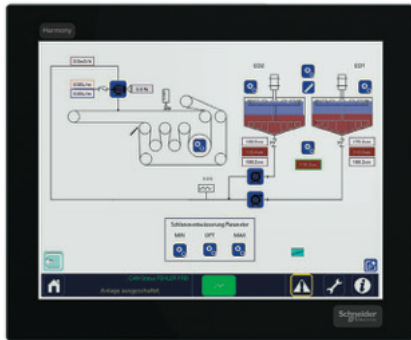
- Our Automated Intelligence Control System, **AICS** is configured for the optimal operational settings, so electricity and polymer use is minimal
- Quick installation in 2 hours and minimal space required (150m²)
- Very high throughput (150m³/h)
- Sensors monitor that only clear water will be returned to the waterways
- Operating costs are much lower compared to conventional technologies such as digging with excavator
- Just one person is required to operate the whole system
- Greatly reduced transportation cost due to high dry substance (75% DS) of the output



Mobile Desludging System



The **Control & Polymer Unit** serves two functions. The Polymer station consists of a reaction tank where the polymer powder is mixed with water. From the storage tank the polymer solution is injected to the sludge in the sedimentation and in the dewatering unit.



Automated Intelligence Control System

The Control Unit, using more than 80 sensors, is managed by our own proprietary 'Automated Intelligence Control System' that monitors all components and the overall process. Optimal settings are used for flow rates, process water and polymer usage, with minimal operator input.



The **Separation Unit's** input is the sludge from the waterway and consists of a cyclone separator and two vibrator screens.

The capacity of separated sand is up to 20 tons per hour and the capacity of separated coarse material is up to 10 tons per hour.



The **Sedimentation Unit** consists of two thickener units, which operate simultaneously. Pumps deliver sludge/water mix from the separation tank to the thickeners injecting an automatic dosage of polymers.

The clear water in the overflow of the thickener is transferred back to the waterways.



The **Dewatering or 'Beltpress' Unit** consists of an upper and a lower belt. The thickened sludge is processed through the rolls to further extract water which is then returned to the separation tank. The output of dry sludge cakes can then be transported away.



UWT.swiss and Global Partner Network

Together with our global partners, we offer 'best in class' Sludge Treatment and Dewatering machines in one fully integrated system.



Sophisticated mobile solution ideally suited to urban areas

Four integrated 20' containers, relatively easily located to where it is required, and with a footprint of just 150m², and using pipes that can be extended.

Our own proprietary Control System is used to monitor all events, with optimal settings for flow rates, process water and polymer usage, and with minimal operator input.

Environmental Engineering

UWT.swiss has long-term experience in the area of water management. Our unique Mobile Desludging System cleans your waterways. It can also be used to treat the pollution at the source - directly at the plants and factories.



We care for your environment.

