



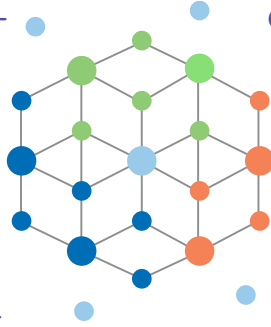
Environmental Technologies Worldwide

UW Tech GmbH is a Germany-based technology provider dedicated to the Environmental Services Industry (UmWelt Technologien). Following strictly the ISO 9001:2008 guidelines and performing QC (Quality Control) measures, we offer a full spectrum of consultancy, innovative CE-certified equipment and turn-key projects for water supply, water and sewerage treatment, solid waste treatment, as well as integrated IT solutions for all

the above sectors.

Our long-lasting and comprehensive experience as engineers successfully acquired on consulting services during the last decade now becomes our bridge to move forward and go beyond consulting.

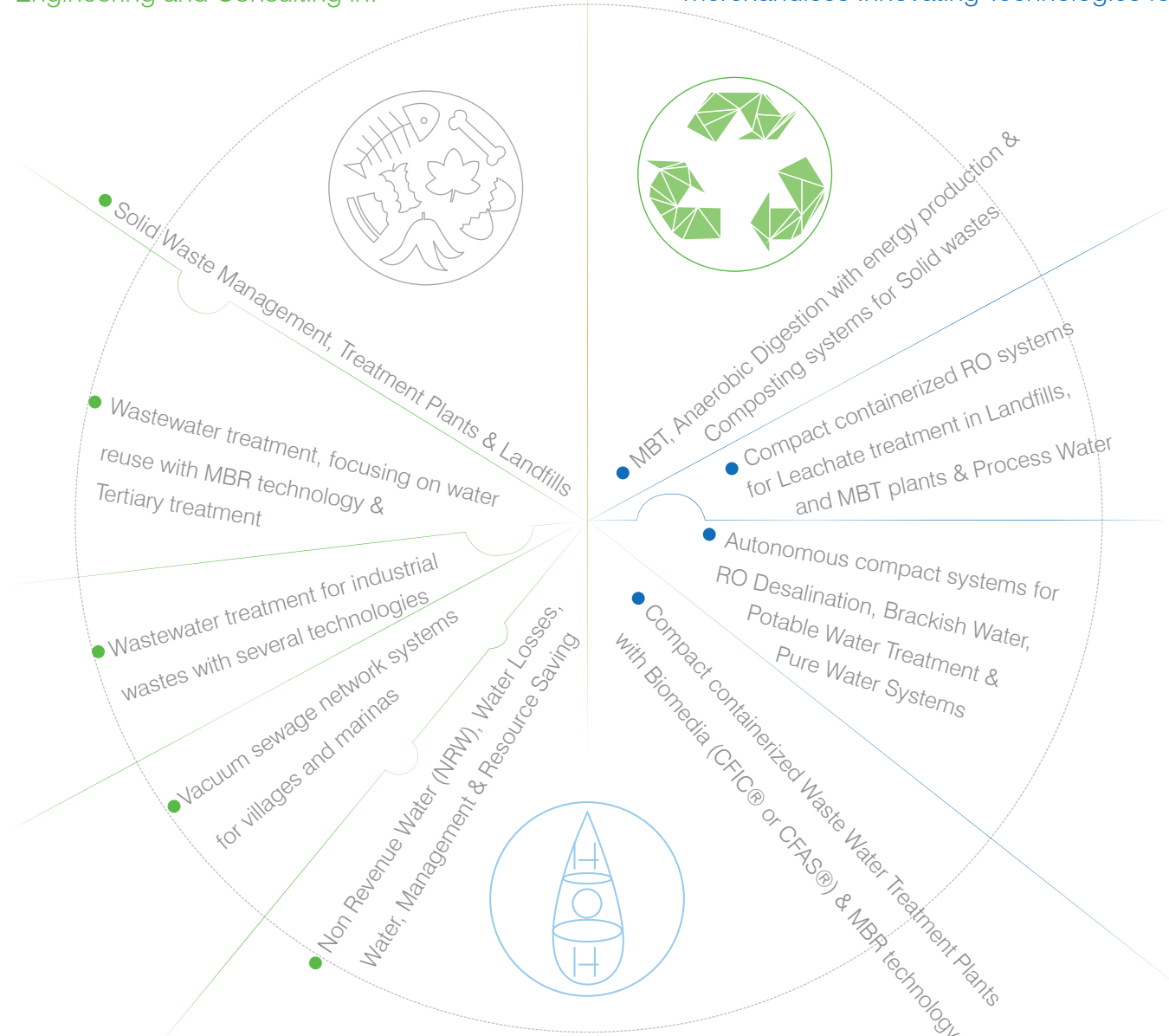
UW Tech extends the value to its customers by providing and implementing technical solutions, which are cost-efficient, state-of-the-art and proven in practice.



Services + Products

UW Tech provides full-service Professional Engineering and Consulting in:

Furthermore, UW Tech develops and merchandises Innovating Technologies for:



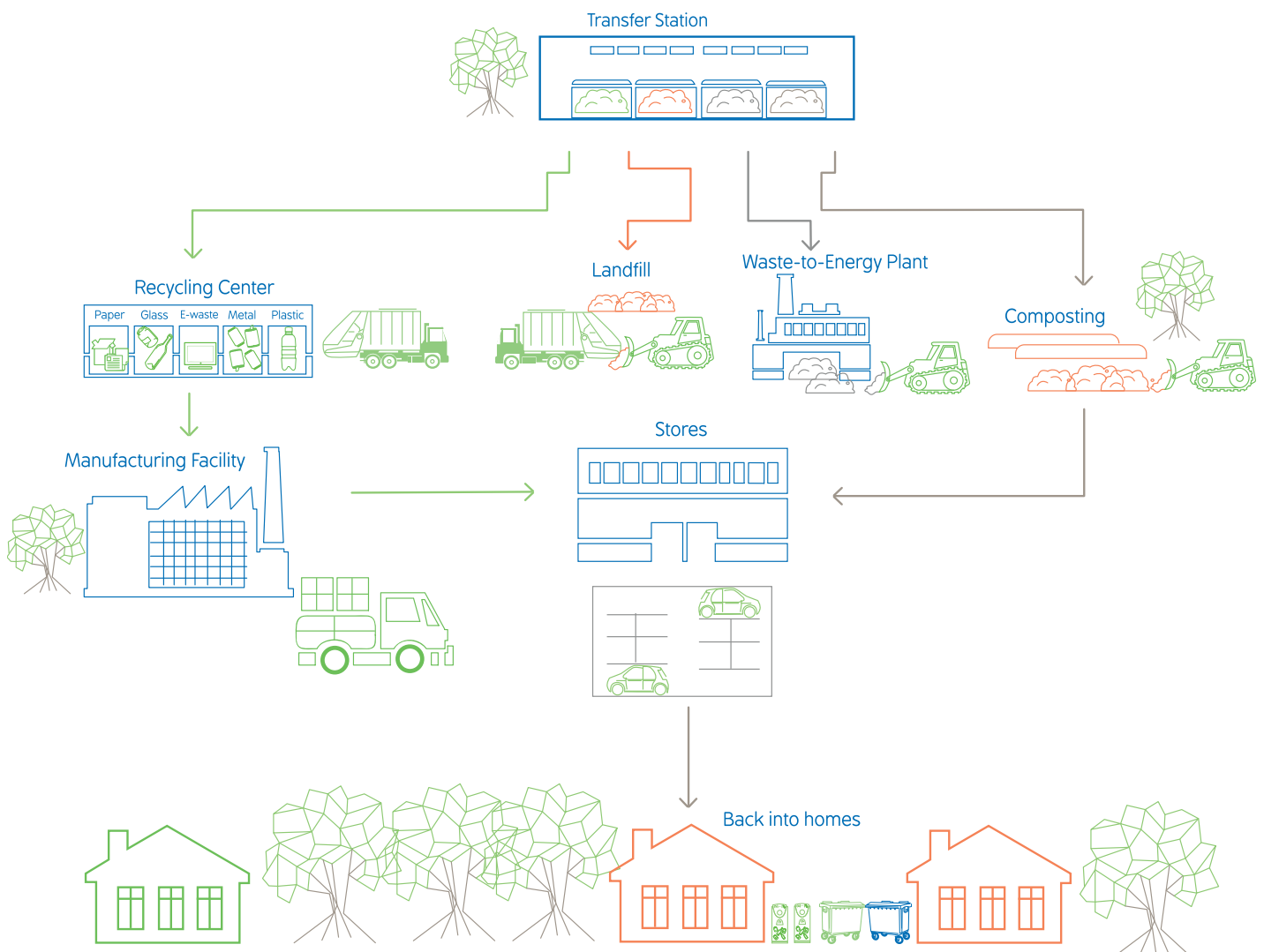
Finally, we provide to our clients support including installation, start-up, operation, maintenance and remote monitoring and alarming services.

Mechanical-Biological Treatment of Solid Waste

Mechanical Biological Treatment (MBT) enables the recovery of materials and stabilization of the biodegradable fraction from Municipal Solid Waste (MSW). As a result, the volume of the waste that goes to landfill is reduced, as well as its management needs. Furthermore, additional income can be achieved through the recovery of marketable products such as recyclables (plastic, paper, metal, etc) biogas, energy, compost and solid fuel.

We offer mechanical pre-sorting, producing homogenous high-quality recovered materials such as recyclables and RDF. This can be combined with a biological treatment process, such as our Composting Tunnel or the Anaerobic Digestion Tunnel to produce biogas and energy, as well as compost.

Additionally, we fit the needs of residential communities, tourism facilities and companies with our Compact Composting Unit for MSW or source separated organic fraction. The produced compost is suitable for backfilling uses (i.e. Landfill, mines, etc), soil rehabilitation or agricultural uses.



Easy Transportation all over the World

Containerized Units

In order to minimize the investment cost to our clients, we focus on solutions that provide inexpensive transportation to any global location, as well as easy and fast installation and start-up. All required equipment is installed either inside a standard ISO container or in steel made coated tanks ready to be connected hydraulically and electrically. The units are prefabricated and include all the required systems as well as centralized monitoring system to control remotely the operation. Additionally,

all models can be shipped and transported by standard road-trucks, reaching even the most remote parts of the world. These facilities enable us to implement our treatment units in no time at any terrain and site conditions. The containerized solutions provide the below advantages:

- Very small footprint and compact design
- Low energy requirements, low investment and operational cost
- Easy transportation, installation, start-up, operation and maintenance

Biological Treatment Unit with Biomedia (CFIC[®], CFAS[®])

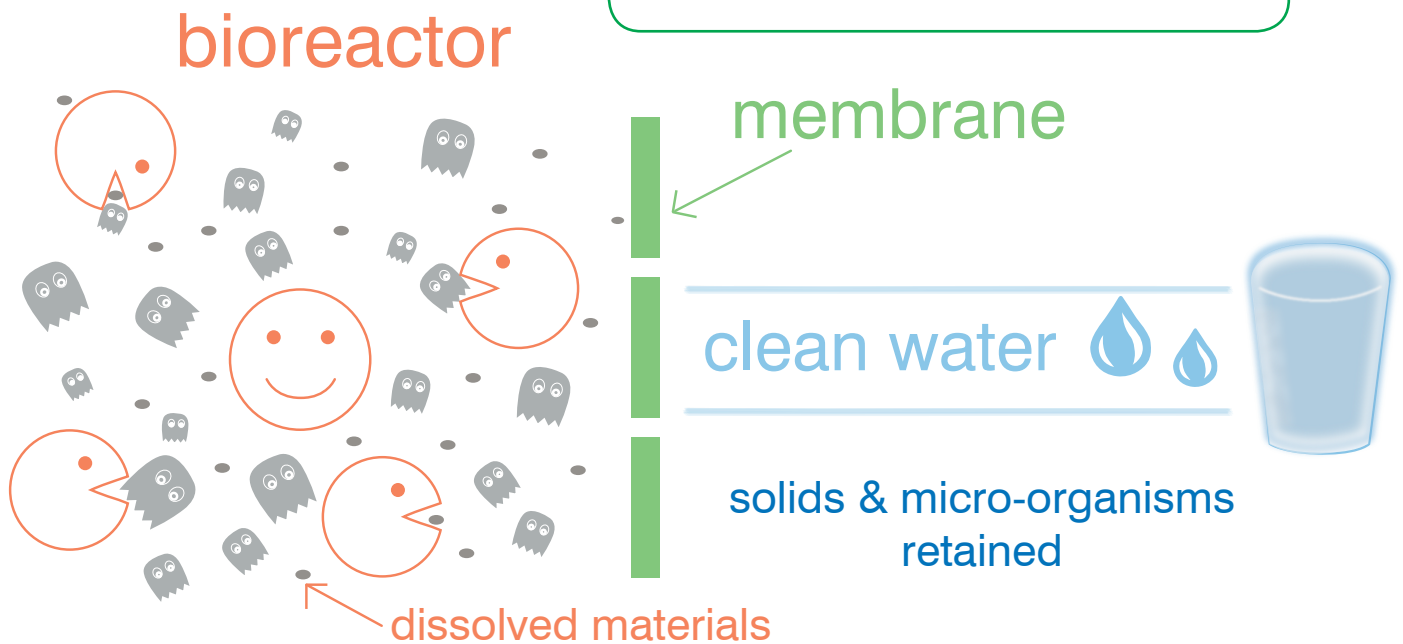
In collaboration with Biowater Technology AS we provide containerized solutions for the wastewater treatment that use the advanced technologies CFIC[®] (Continuous Flow Intermittent Cleaning) or CFAS[®] (Combined Fixed-Film Activated Sludge) with biofilm carriers, aeration, retention sieves, mixing tanks as well as any tertiary treatment or additional equipment to suit the design. Biowater's proprietary CFIC[®] technology offers industry-leading performance when compared with widely used Activated Sludge and MBBR solutions. The small footprint, combined with Biowater's approach to process design makes CFIC[®] far more versatile than existing solutions, making it very suitable for a wide range of existing WWTP. On the other hand Biowater's CFAS[®] (IFAS) utilizes the benefit of a traditional activated sludge process combined with a biological fixed-film system to create a highly efficient wastewater treatment plant in a much smaller footprint. The advantages of those technologies are:

- Suitable for domestic and industrial wastewater with compact and modular footprints
 - High-Rate Bio-degradation and excellent effluent quality suitable for reuse
 - Less energy consumption than traditional MBBR processes and low investment cost
- Great flexibility in system capacity increases due to Low Hydraulic Retention Times (HRT)

Membrane Bioreactor Unit (MBR)

To achieve the effluent quality that follows the EU guidelines for water reuse we supply compact and robust units based on the Membrane Bioreactor (MBR) technology which uses membrane for the separation of biomass from the treated effluent. MBR technology has many advantages such as:

- Compact and modular system ideal for retrofitting existing plants
- Simple and operator-friendly system
- Effluent quality that fulfills strict reuse standards without odour or noise



Leachate Treatment Unit (LTU)

Our Leachate Treatment Plant uses a complete MBR system with side stream tubular membranes for solid separation after biological treatment, followed by tertiary treatment using single or double Reverse Osmosis (RO) system. Alternatively, a double or triple RO system could be used directly after CAS biological stage as tertiary treatment. In order to achieve less brine and to minimize OPEX, Nano-Filtration (NF) could be used instead of Reverse Osmosis (RO) as tertiary treatment.

The above mentioned solutions are the most efficient way to treat medium or high strength wastewater like leachate. The advantages of our LTU systems are:

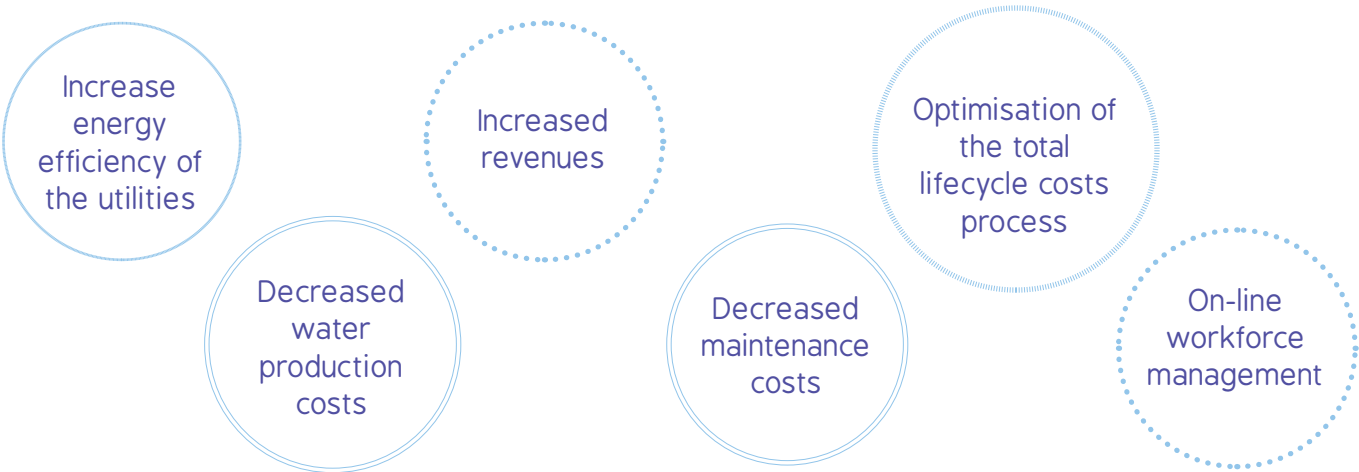
- Compact and modular system, optimal for expansion or to retrofit existing plants
- Excellent effluent quality with low energy and membrane replacement cost
- Flexibility to adjust the capacity to your needs
- Ensure quality of effluent and minimum environmental impact

Smart Water Network

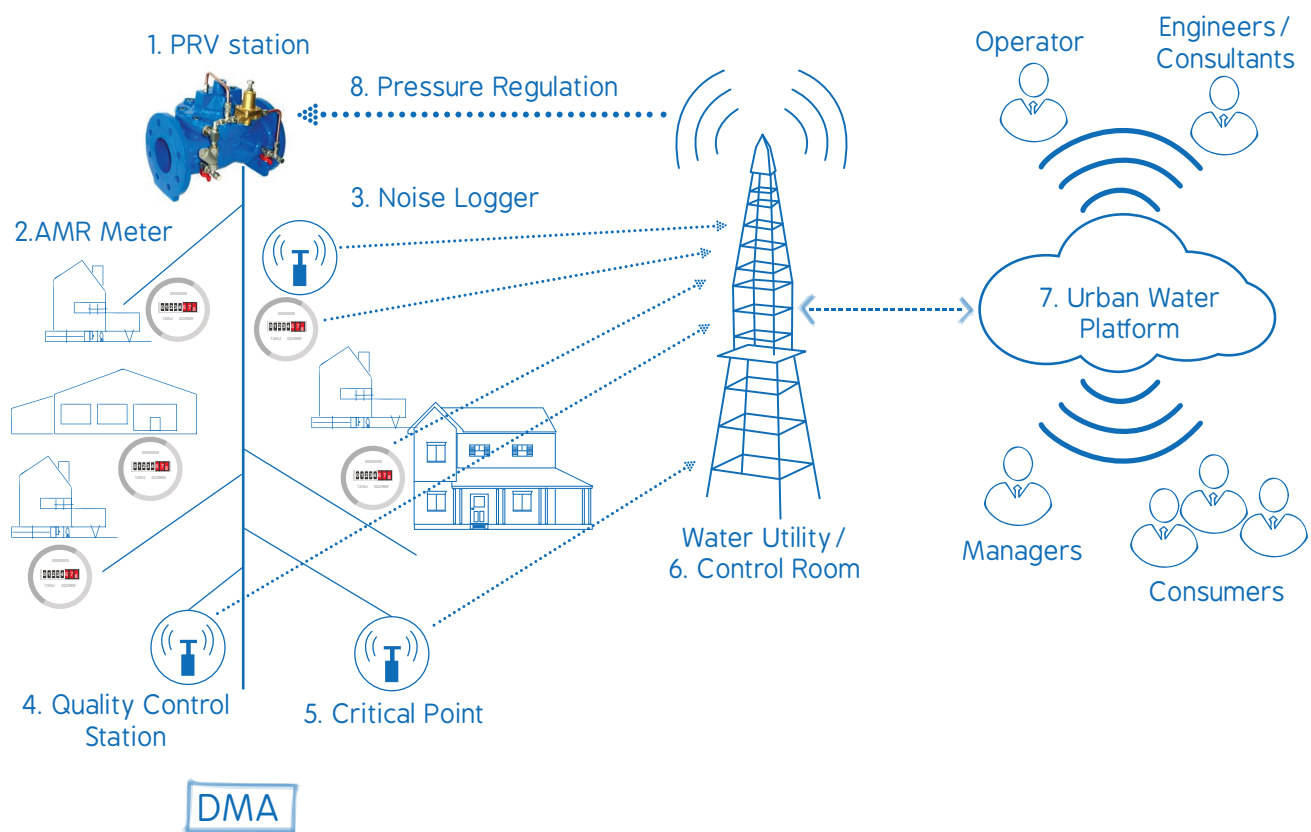
The gradual change in the global climate, the substantial decrease in annual rainfall, the continuous increase of water demand and high exploitation costs, create the need for optimised water management. Part of that is leakage management that has to be a continuous activity and integral part of the operation of every water utility.

There is a number of causes that leads to water losses and non-revenue water, such as very old networks, high pressure, illegal connections and false data measurements. These issues can be handled through pressure management, leak detection, district metering and practical asset management. Commercial losses are addressed by reducing illegal connection as well as reducing data errors results.

Our engineers and technicians provide complete services from data analysis to installation of equipment and further optimization of the network. Subsequently, our customers enjoy benefits from:



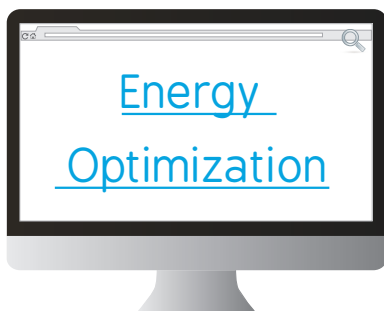
SMART WATER NETWORK



INTEGRATED IT SOLUTIONS FOR WATER SECTOR

UW Tech seizes the new challenges of our era by changing the management approach of the existing sewage water and water networks and setting new parameters.

We provide a powerful system which allows utilities to:



Urban Water Platform



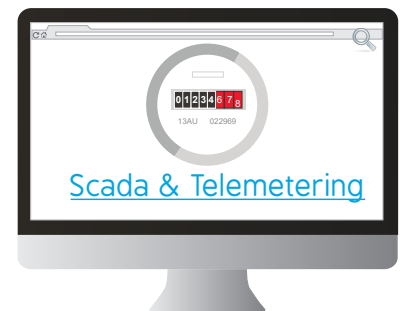
Urban Water Platform is capable of providing technical support as following:

Remotely monitor, diagnose problems and control their networks in real time

Prioritize the effective handling of maintenance works

Optimize their operational approach

Use data and systems to alter consumer water use and patterns.



Endorsing both operators and managers on taking critical decisions about water utilities, e.g. to expand or rehabilitate networks or set alarm for immediate closure of safety valves to prevent widespread contamination of the water network, or others.

Establishing a dynamic connection between stakeholders. The data shall be accessible to the individual users in order to be used to their advantage. The data dissemination follows rules that prevent the bottleneck and create conditions for cooperation.

Guaranteeing continues sustainable progress which will be monitored and reported inside a framework of performance measures (PM's): In other words, the networks' rules and operation modes will be configured and controlled by the experts and the consumers. (e.g. the cost indicator of the network maintenance / km or the chlorine quantity (ml) / m3)

UW Tech provides solutions and technologies to both private and public entities. We have worked successfully in many parts of the world, improving the infrastructure, develop and implement comprehensive financial, technical and regulatory projects. We have established collaboration with international organisations such as the World Bank,

United Nations, European Union, International Banks and public as well as private utilities. The knowledge we have acquired all these years as engineers in the environmental sector is used to provide innovative technologies and high quality equipment that increase the efficiency and the value of your project.

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