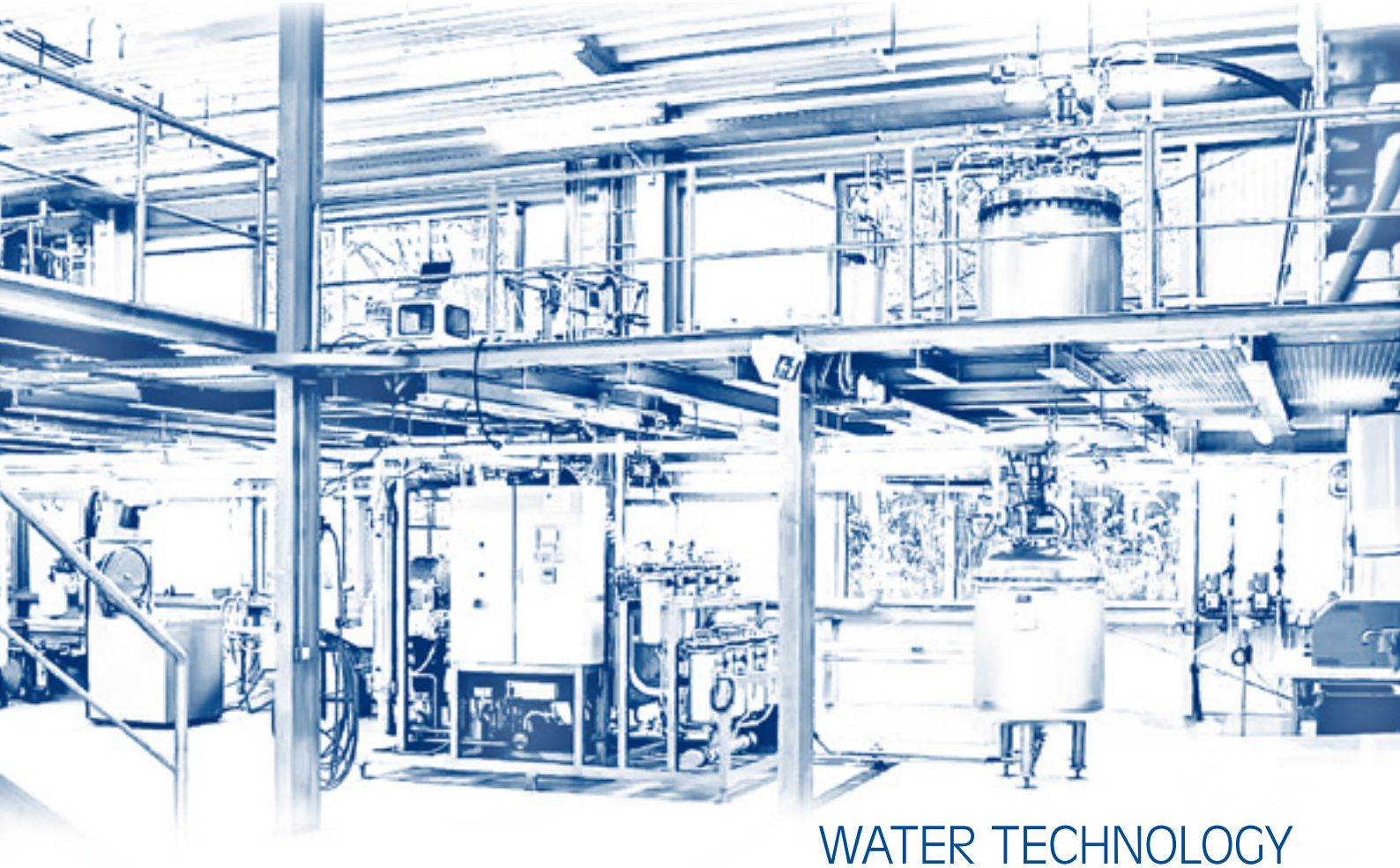
UMWELTLEISTUNGEN

Engineering Plant Construction

TECHNOLOGIE PRO UMWELT



WATER TECHNOLOGY

UMWELTLEISTUNGEN

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Vision

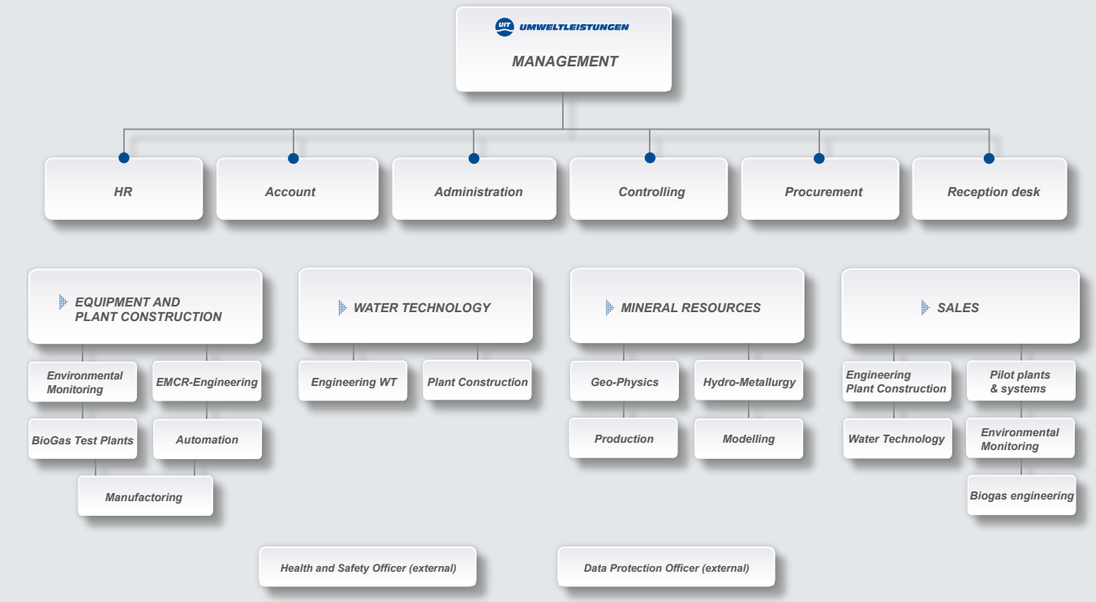
„From your individual requirements via engineering to plant construction“

ENGINEERING We develop and engineer technological process solution for your plant starting from the determination of the basics, going through design and implementation planning stages, including construction supervision. Our main business activities cover industrial and mining water treatment plants as well as process engineering of plants. To verify a process reliability, we use our technology center and a mobile water technology pilot plant. We trust your expertise in the engineering process, so that gained shared knowledge encourages for the best of your interests on holistic plant design.

PLANT CONSTRUCTION As a general contractor, we manage the plant construction implementing an engineered technological process. Our focus represents our capabilities building industrial wastewater treatment plants ranging from complex process engineering pilot plants to full scale industrial plants. A large variety of successfully implemented projects add value to your project consolidating gained expertise.

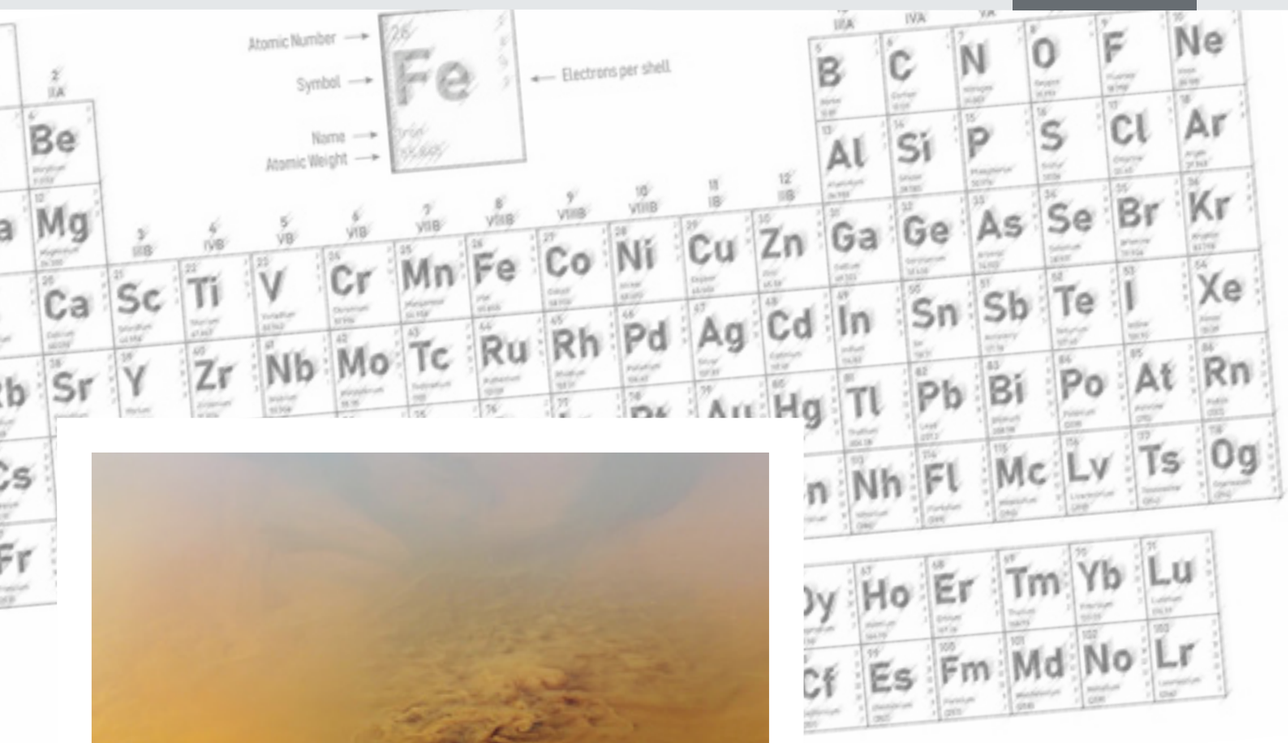
Our **TEAM** represents a consolidated expertise in the fields of process engineering, chemistry, mechanical & electrical engineering, software development and automation, extended skills and experience in plant engineering and construction. The interaction with carefully selected partners forms a solid foundation for the high performance of the activities of UIT GmbH Dresden. Our work is characterized by a strong solution orientation, pragmatism and analytical decision making experience. We are supported by the great team spirit of our colleagues and the strong cohesion in the project teams. The commitment to have reliable solution is dedicated to our customers success reflects our culture.

Structure



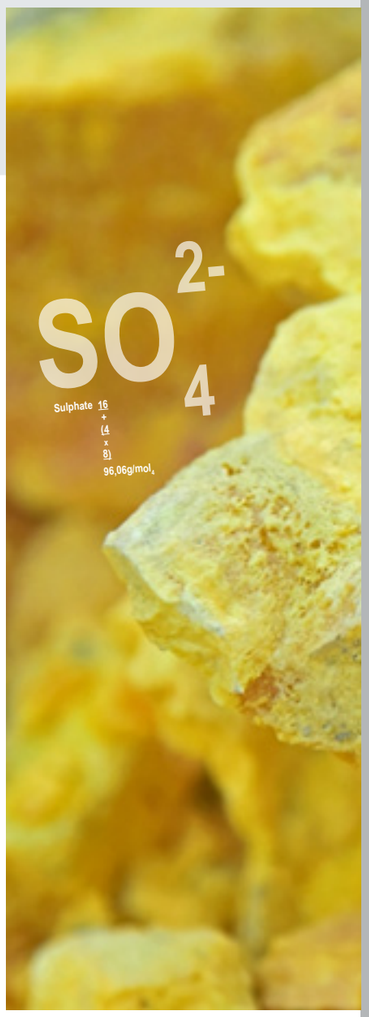
Main Contaminants

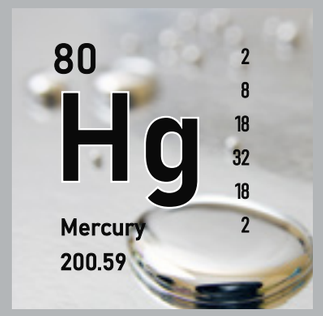
CONTAMINATION OF WATER

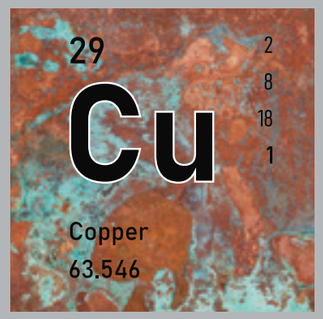


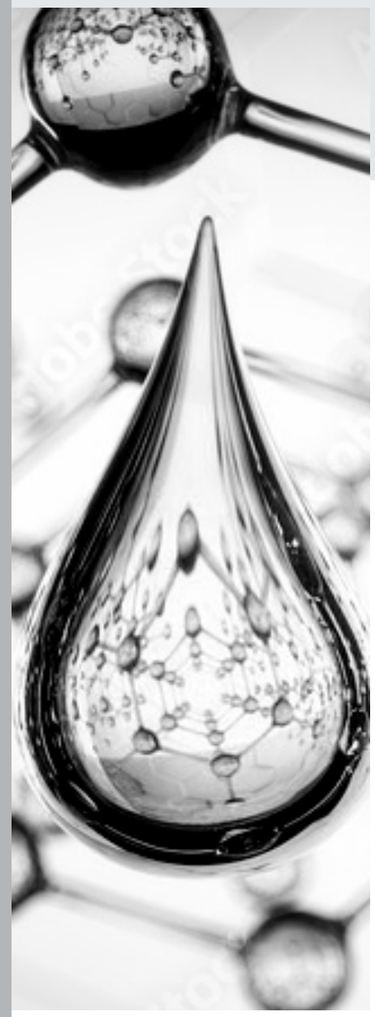
FERROUS SULPHATE, WATER IN OPEN PIT

OXIDATION UND NEUTRALIZATION









MAIN CONTAMINANTS

Metals or heavy metals and sulfate are common in industrial wastewater contain in significantly increased concentrations to be treated and removed.

SULPHATE

Sulfate is found in high concentrations in many industrial, mining and recycling process effluents. Due to increased environmental requirements associated with tightened limit values for discharge, complex treatment technologies are necessary.

MERCURY, COPPER, CHROME

Metals come from a wide variety of sources and are distributed over many areas, so that they are present in dissolved form as ions in the wastewater. In addition to removing the metals from the wastewater to comply with the official limit values, their recovery may also be relevant.

Send us your water analysis.
Together we will find a solution!

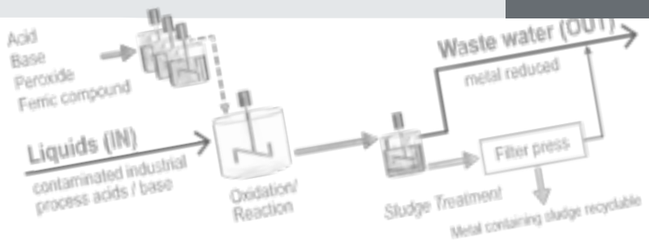
The wastewater composition is never identical and therefore standard solutions are rarely successful.

e-mail: info@uit-gmbh.de
phone: +49 351 886 4600

Process engineering

PROCESS ENGINEERING

TECHNOLOGY PRO ENVIRONMENT

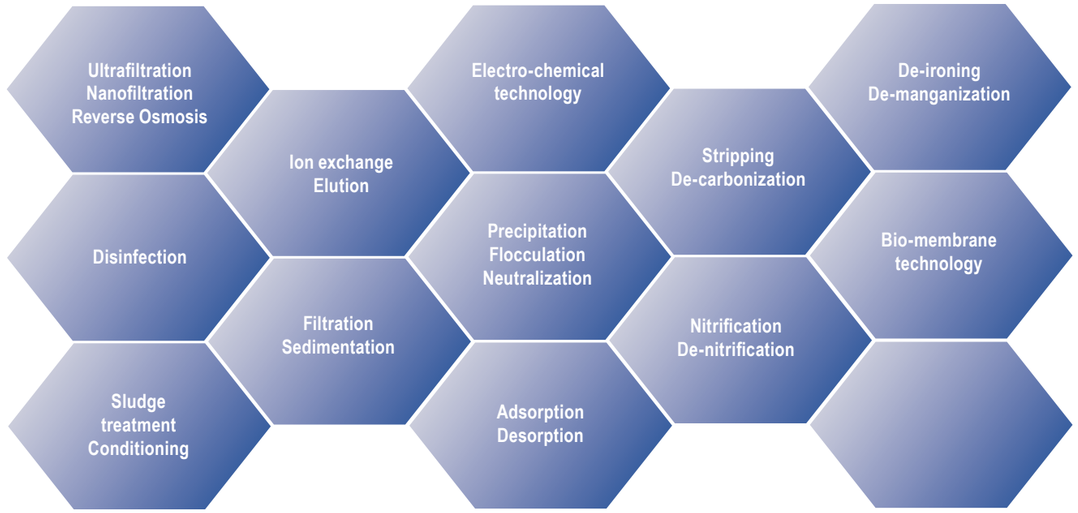


Technology Concept — Today's industrial wastewater treatment aims to discharge requirements against set compliance limits (limit values), water reuse, freshwater savings, minimizing landfill costs that may be required, all the way down to the recovery of raw materials. For the complex task of the process selection, we combine standard technologies with the latest developments and develop a technologically, economically and environmentally optimized concept for your plant. With our simulation software, the „virtual water laboratory" auqaC, we can efficiently map the hydrochemical processes.

Feasibility — The technological concept of the wastewater treatment must be physico-chemically confirmed using real wastewater samples or alternatively synthetically produced wastewater.

Discontinuous and continuous tests in our technical technology center are often used to prove a technological feasibility.

Process selection ▸ **Construction/supervision** ▸ **Commissioning/optimization**



Technology center & Pilotcontainer

TECHNOLOGY

PILOT CONTAINER

TECHNOLOGY CENTER

In our Technology Center — an individual process steps, one after the other are investigated in order to optimize the parameters, determine the residence and reaction times to define the interaction interfaces.

The conductivity, the pH value and the redox potential of the initial, intermediate and end products are determined in our laboratories and the first analyzes are conducted using our XRF (X-ray Fluorescence Analyzer) or photometer. For special analysis requirements we use the expertise of certified analytical laboratories.

PILOT CONTAINER

For the assessment of technological reliability and the operating costs, we offer pilot plants for rent or as permanent installations.

During piloting phase, we would also support the operation of these systems for you with our staff.

Engineering tools

CONCEPT - PLANNING - EXECUTION

We use modern planning software and are thus in a position to digitally map and visualize your plant, so that there is the greatest possible planning security and transparency about the plant to be built.

OUR TOOLS

aquaC® - virtual laboratory (UIT)
Process simulation software

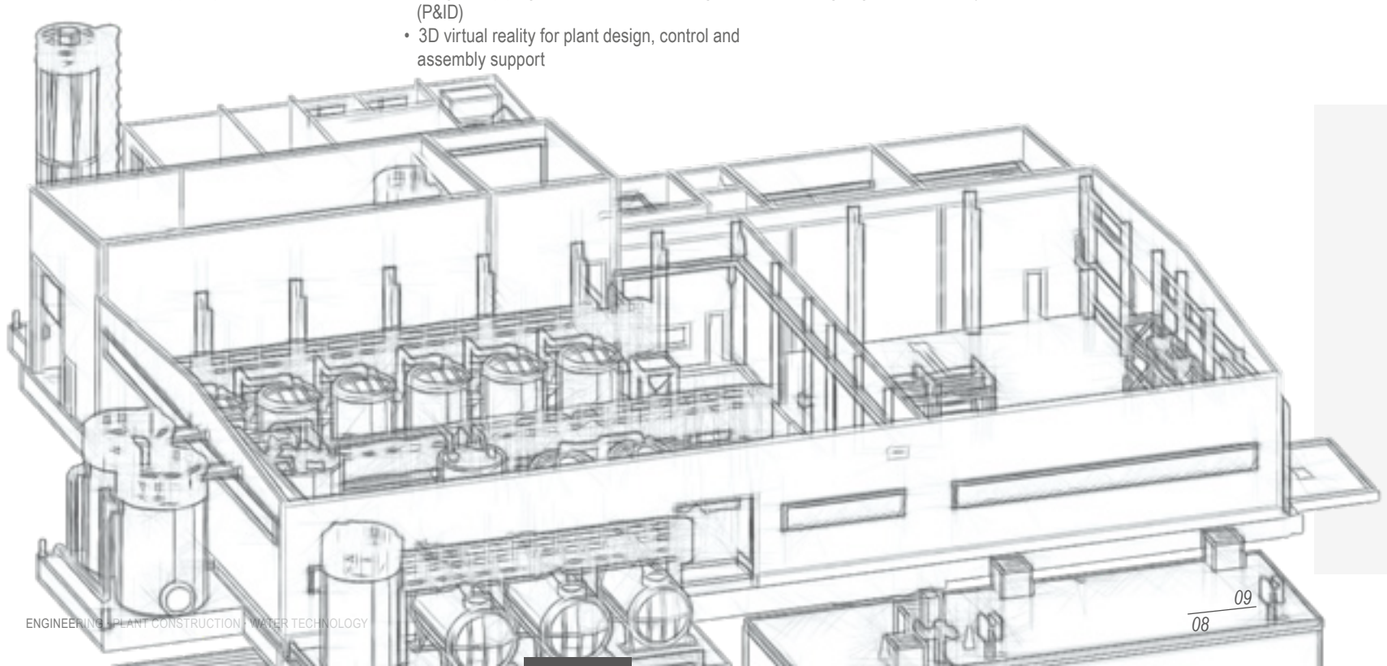
- Water technological process simulation
- Ion balance control and adjustment
- Reaction, solution, precipitation, kinetics

AutoCAD® Plant 3D Toolset (AUTODESK)

- Creation of isometric drawings and pipeline documentation
- Integrated piping and instrumentation diagrams (P&ID)
- 3D virtual reality for plant design, control and assembly support

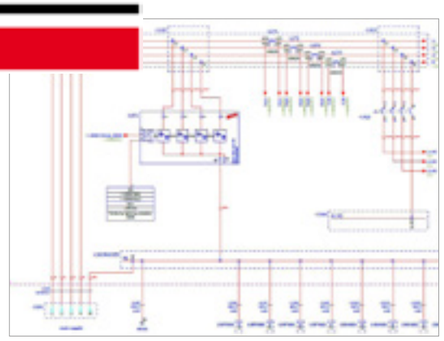
SolidWorks® (Dassault Systèmes)
3D software for mechanical design and production, 3D plant construction software

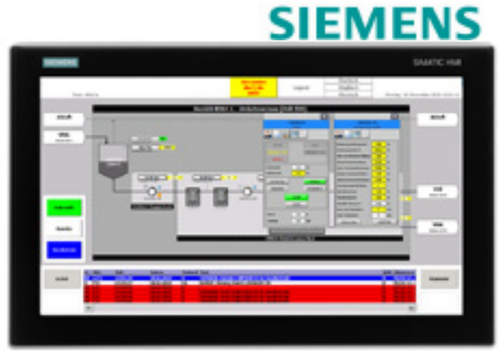
- Implementation of design and manufacturing
- Design of large, complex assemblies
- Designing mechatronic systems



EPLAN® CAE und CAD Services (Friedhelm Loh Group)

Software for engineering in the fields of electrical engineering, automation and mechatronics, for plant and control cabinet construction as well as for CAE and CAD services for the optimization of product development processes





SIMATIC Controller with HMI (SIEMENS)

Programmable logic controller (PLC)

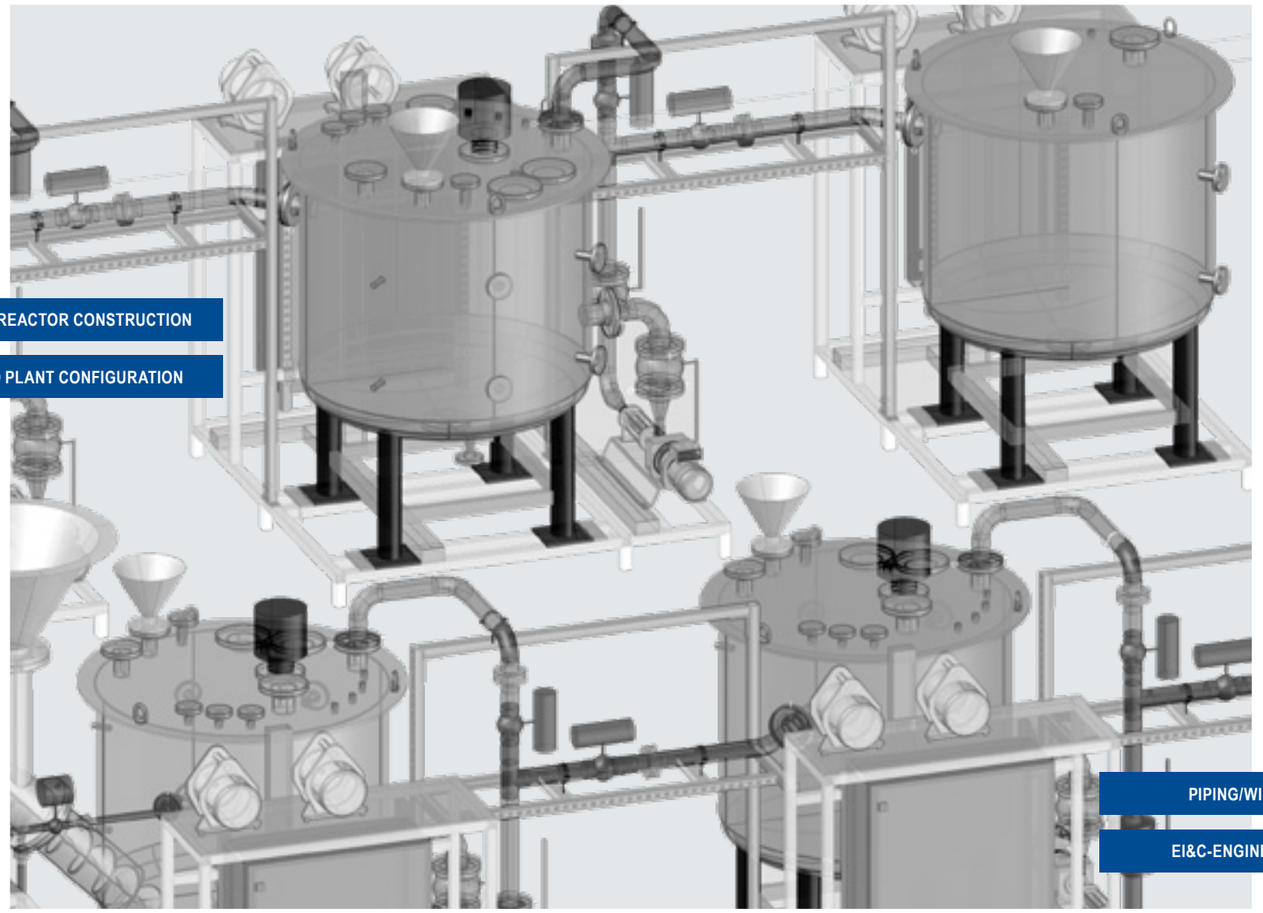
- Programming of SIEMENS PLC systems
- Use of various generations of SIMATIC controllers
- CAE and design of HMI systems with accommodating sophisticated panel design

Supporting and advanced software products

- MS-Project® for schedules, workflow coordination and controlling (Microsoft)
- LabVIEW® for validation and production test systems (National Instruments)
- BIM 360® construction management software for networking processes (Autodesk)
- TIA Portal/TwinCAT (Beckhoff), Safety PROFIsafe/TwinSAFE (SIEMENS)
- C+ is an imperative and procedural programming language (AT&T)
- ERP business software Navision Dynamics (Microsoft)
- AUTODESK Revit Software for architectural design, MEP, structural design and construction (AUTODESK)
- Various in-house used software for modeling developments for hydrogeological, geochemical, hydrometallurgical and reactive transport processes

3D
becomes real

3D BECOMES REAL



3D REACTOR CONSTRUCTION

3D PLANT CONFIGURATION

PIPING/WIRING

EI&C-ENGINEERING

FROM 3D CONSTRUCTION TO REAL INSTALLATION

The use of 3D Engineering software tools defines the ability to present all the details, specifications of components, creating diagrams and lists through one system, thereby minimizing transfer errors of adjustments from different working documents.

We use these opportunities to visually control the interfaces and discuss the implementation of the system with our partners. System integration can be simulated on site and controlled using a virtual reality approach. During on site installation, our engineers use 3D drawings for work preparation and execution control.

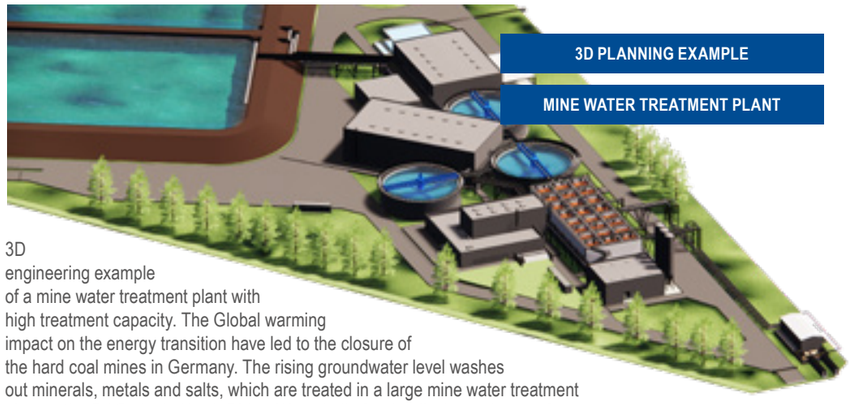
Plant construction
Reactor - Pilotplant

3D Application

STATE-OF-THE-ART 3D PLANNING

TECHNOLOGY PRO ENVIRONMENT

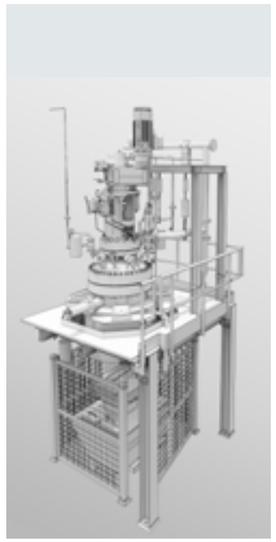
We are convinced that the optimal connection of the engineering tasks is only possible with the most modern tools, because the range of requirements is becoming ever broader today, in addition to economic challenges, it is also necessary to consider environmental, social and ethical aspects. Today, and in the future, it will be possible to successfully build and operate only those systems that are precisely adapted to the regional conditions of the market needs, production streams, availability of necessary qualifications and personnel. We accommodate these complex tasks with our partners right from the initial stage.



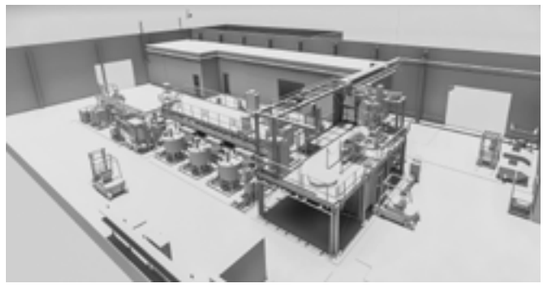
3D PLANNING EXAMPLE

MINE WATER TREATMENT PLANT

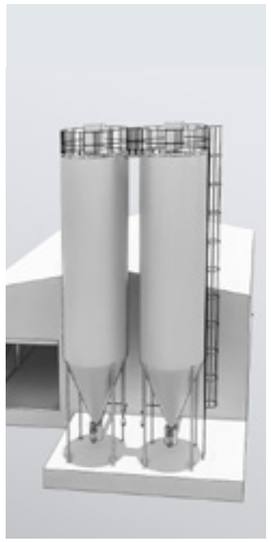
3D engineering example of a mine water treatment plant with high treatment capacity. The Global warming impact on the energy transition have led to the closure of the hard coal mines in Germany. The rising groundwater level washes out minerals, metals and salts, which are treated in a large mine water treatment plant at the RAG site in North Rhine-Westphalia for the discharge into surface waters.



High temperature reactor plant plant (HTP reactor) for biomass treatment at temperatures up to 240°C using pressure up to 40 bar.



We design, engineer, and build complex technological systems consisting of tanks, pumps, pipelines, conveying elements, power electronics and automation.



Gypsum precipitation provided for sulphate reduction using lime silos installation on the outside of the plant.

Industry sectors

WE ADDRESS YOU!

MINING
REMEDIATION

INDUSTRY

RECYCLING

STEEL/NF-METALS
AUTOMOTIVE

UMWELTLEISTUNGEN

WASTE
BIOGAS

PILOT SYSTEMS

CHEMISTRY
ENERGY

Plant construction
Industry

PLANT CONSTRUCTION INDUSTRY

WISMUT GmbH

Mine water treatment plant for the decommissioned WISMUT plant consisting of flocculation/ precipitation, sedimentation tanks with thickeners and filter presses for solid-liquid separation.

WRC World Resources Company GmbH

Chemical-physical plant for the treatment of liquid, pasty, and solid residues from the processing industry for the extraction and concentration of valuable raw materials.

Metsä Group OY

The solution of Spinning bath cleaning and recycling implemented for the first time as technology in a cellulose fiber production plant consists of filtration stages, membrane systems and thermal concentration.

Plant construction
Pilot systems

PLANT CONSTRUCTION PILOT SYSTEMS

Leibniz-Institut für Agrartechnik und Bioökonomie e.V. (ATB)

Pilot plant for bio-based products to demonstrate the process chain from the raw material to the production of high purity lactic acid, consists of fermentation, membrane filtration and electrodialysis.

BRAIN Biotech AG

Delivery of a **complete test and demonstration plant** for extracting precious metal from electronic waste consists of process sequence such as biochemical leaching, precipitation, filtration and drying.

RYONEX PTY LTD

Supplied compact **retardation systems** used in continuous etching bath cleaning plant based on ion exchange technology and designed in cargo format for the transport of cargo in passenger aircraft.

Mining

MINE WATER — PROCESS WATER

Mining operations are often located in difficult-to-access areas with extreme weather conditions. A constant and reliable source of clean water is required for both the valuable mineral extraction and cleaning process and for the needs of the personnel who operate the facility. Typical mining water treatment technologies are AcidMine Drainage (AMD) and Acid Rock Drainage (ARD).

MINING
REMIATION

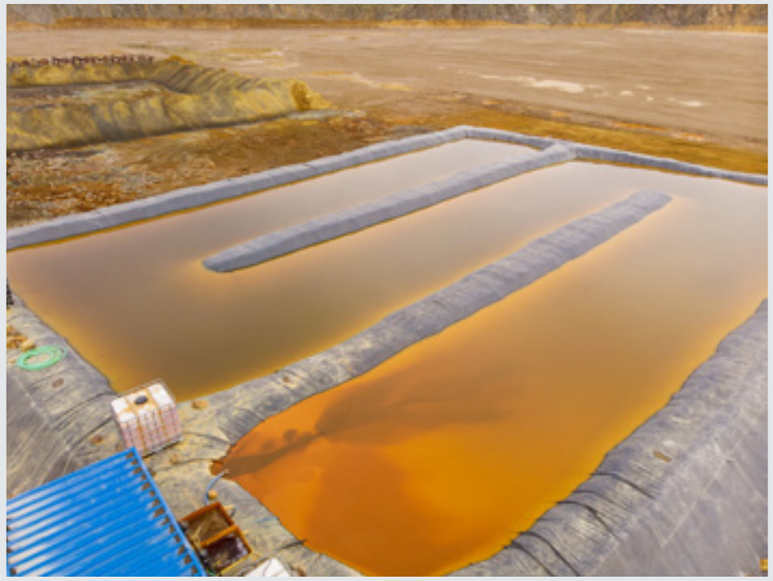
MINE WATER TREATMENT

MINE AREA REMIDIATION

WISMUT mine water treatment plant GmbH at the Königstein site, designed by the UIT GmbH Dresden.

Proven and robust technologies for sulfate and heavy metal separation with a view to water recycling and residual material conditioning
Conventional neutralization technologies often no longer meet the requirements! We apply innovative technologies to permanently solve common problems such as gypsification/ incrustation, excessive sulfate concentrations in the effluent or critical residual material properties.

Mining pilot plant a treatment lagoon for sulphate separation using open pit mining water, designed and built by UIT GmbH Dresden.



RAW MATERIAL EXTRACTION

ACTIVE WATER TREATMENT

MINE REMEDIATION

Neutralization with partial sludge recycling (**HDS process**) or highly efficient sulfate reduction (**HeSR**) by combining precipitation and membrane technology are technological examples of successful applications in numerous projects.

We are experienced in every type of mining, from coal to ore, to do our part in complying with increasingly stringent national and international guidelines.

In addition to examining and optimizing disposal routes for residual materials, we also consider the separation of metals with an **option of recycling** (processing into commercially available concentrates) from a technological and economic point of view.

We design your plant optimally according to local conditions, starting from small treatment plants for tailings leachate with 1 - 10 m3/h up to large plants with > 1,000 m3/h for typical waters from mining dewatering or for floodwater treatment.

Industry

STEEL
NF-METALS
AUTOMOTIVE

Pulp industry
Spin bath treatment

The industrial wastewater from the steel and non-ferrous industries varies greatly depending on the process. Steel production, shaping and surface finishing result in metal loads in the wastewater that have to be removed. UIT designs and builds Chemical/Physical systems for steelworks.

Process water can contain components whose recovery is economically feasible and necessary. UIT designed and built a spinning bath cleaning plant with recovery for Metsä Group/FIN. The main challenge was the requirement to obtain a high recovery rate of the solvent.

BASIC / DETAIL ENGINEERING

DELIVERY / ASSEMBLY / PIPING

AUTOMATION / COMMISSIONING

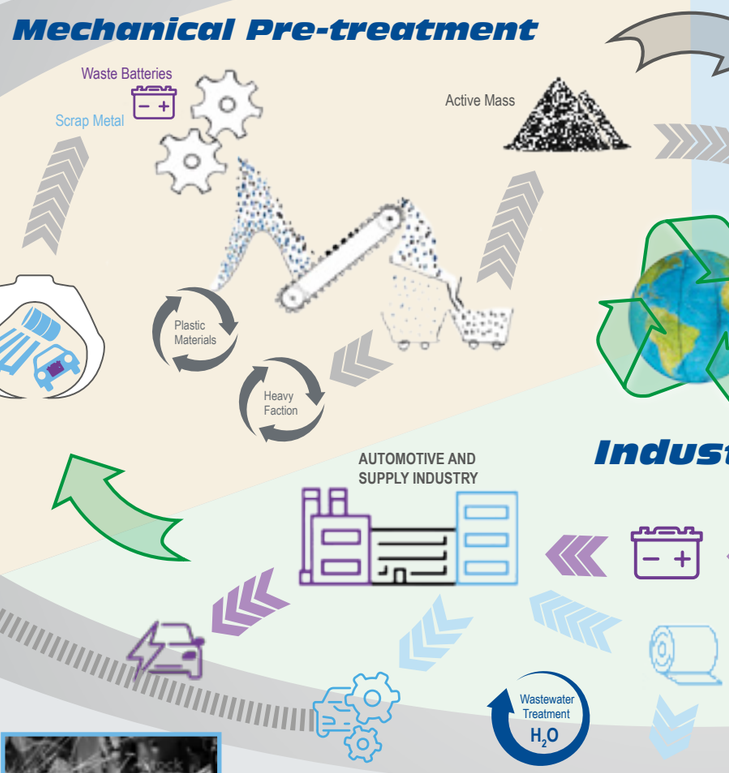
Battery-Recycling

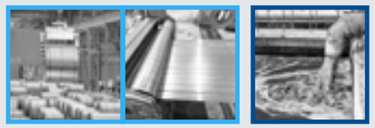
RECYCLING

RECOVERY OF RECYCLABLE MATERIALS

Processes in industry and industry-related areas require state-of-the-art process engineering solutions for sustainable material cycles.

UIT designs and builds process and wastewater treatment plants for recyclables recovery facilities.





Why with UIT?

… and in addition, this …

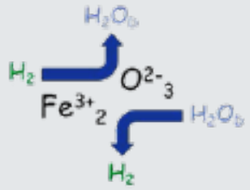
PROCESS ENGINEERING PILOT PLANTS

TECHNOLOGY PRO ENVIRONMENT

Our competences are dedicated to confront your challenges exploring complex tasks.

Fully equipped container systems and stationary pilot systems are often the first steps towards proving feasibility and reliability of the technological process operating under real conditions. Such technological solutions can be developed, engineered, designed, constructed and available in months.

HYDROGEN STORAGE



In 2004, our company (UIT) has planned a pilot plant for the production of polylactic acid (PLA) for the Leibnitz Institute for Agricultural Engineering and Bioeconomy. All necessary process steps together were developed designing and building complete plant.

One of the project partners involved at the Leibnitz Institute, Mr. Uwe Pahl, is now the managing partner of a new, innovative company. His activities promotes the development of investor initiatives towards practical approach implementing to realization steps starting from piloting container system for 6 months by storing hydrogen and creating acceptable conditions for full scale industrial system.

The transition by converting a completely new technology into a practical solution in the shortest possible time, Mr. Pahl credentials highlight very good cooperation between companies.

Due to time constraints, we had to combine the design and construction of the system confronting safety issues associated with hydrogen and oxygen. The containerized system for AMBARTEC was completed within agreed 6 months. For us, this type of „development on demand" is great opportunity consolidating expertise encouraging a teamwork we can be proud off!

https://www.ambartec.de

Rack-based plants

COMPACT / TESTED

Rack-based systems for standardized technological Processes, flexible design and modular construction.

RACK-BASED PLANTS

RETARDATION SYSTEMS

Ion exchange system with two columns designed for continuous automatic operation.

NANOFILTRATION SYSTEMS

System design consists of 6 pressure pipes, Clean-In-Place (CIP) station, including control, Factory acceptance tested (FAT) and commissioned by the UIT GmbH Dresden.

Containerized plants

INSTALLATION / START-UP

Flexible Design Containerized standalone pilot systems for remote applications, designed and constructed by UIT GmbH Dresden

CONTAINERIZED PLANTS

BIOLEACHING

Complete test solution for extracting precious metal from electronic waste, consisting of biochemical leaching, precipitation, filtration and drying.

FLEXIBILITY

Containerized solution customized using technological process constructed in stainless steel or alternatively designed using high strength and high temperature resistance glass with associated process control system.

BIOGAS EXPERIMENTAL CONTAINER

Biogas test containers equipped with customer specific bioreactors, gas volume and quality measurement technology.

UMWELTLEISTUNGEN

References selection

1992
Incineration Plant

For the company Spreewerk Lübben GmbH, an incineration plant for explosives was planned, erected, and commissioned by UIT.

The company Spreewerk Lübben GmbH is engaged in the environmentally friendly innovative dismantling and disposal of conventional ammunition, with a reuse of the explosives of 97% on the civilian market.

SPREEWERK

1994 ...
Design - Construction - Site Management

UIT develop technological solutions, design plants, and manufacture related equipment, conduct the construction management, and support commissioning.

Typical applications

- wastewater treatment
- process water treatment
- reconstruction of wastewater systems
- Lime milk processing
- sludge treatment
- decarbonization
- heavy metal removal
- flood wa...
- co...
- i...

2001
Flooding Water Processing Plant

For the company WISMUT GmbH, UIT designed and built a flooding water treatment plant for their uranium leaching mines. The treatment technology consists of ion exchangers, sedimentation, settling and sludge treatment with a capacity of up to 1000 m³/h.

The company WISMUT GmbH carries out the decommissioning, rehabilitation and recultivation of uranium mining and uranium processing plants in Saxony and Thuringia regions.

WISMUT

2005
Clean energy for the world...

UIT as a general contractor has conducted reconstruction and related optimization services for a uranium leaching mine in Beverley. For Heathgate Resources Pty Ltd., Adelaide, in Australia the UIT has designed technological solution treating 1050 m3/h flow rate using multiple processes such as ion exchange, precipitation, sedimentation, sludge treatment, drying. In addition, a water technological solution treating a partial stream of heavy metal-loaded leaching waters according to the ISR process was designed, constructed, and commissioned;

Heathgate Resources Pty Ltd operates the Beverley and Beverley North Uranium Mines located in South Australia. Beverley is Australia's first company operating in-situ recovery (ISR) technology.

HEATHGATE

2006
Biotechnological Pilot Plant

UIT designed and constructed of a biotech pilot plant for ATB e.V. that produces PLA from renewable raw materials. The production of lactic acid from biomass residues consisting of the pre-treatment for the destruction of the structure of the substances, the enzymatic hydrolysis, the fermentation with subsequent separation and purification of the lactic acid.

The Leibniz Institute for Agricultural Engineering and Bioeconomy is a research institute located in Potsdam. The carried research activities are based on applicat-on-oriented basic research in the field of natural and agricultural science, engineering, and biotechnology.

ATB

2008
Removal of zinc and cyanide

For SALZGITTER FLACHSTAHL UIT designed and constructed a wastewater pre-treatment plant for heavy metal and organically highly contaminated water. The decisive factor to remove zinc and cyanide was a wastewater flow rate of 135 m³/h.

Salzgitter Flachstahl is the largest steel subsidiary in the Salzgitter Group and processes 3.9 million tons annually of crude steel for the automotive industry, large tube manufacturers, cold rolling mills, trade and the construction industry. In an integrated iron-and-steel works, SALZGITTER produced hot-rolled strip, hot rolled sheets, cold-rolled sheet and surface-finished products. The production includes drawn, deep-drawn and special deep-drawn steels, structural and fine-grained steels, as well as high-strength steels.

SALZGITTER FLACHSTAHL

2009
Chemical-Physical Treatment

UIT designed and constructed a chemical-physical treatment plant for the disposal of liquid waste collected from an industrial park.

The ZIMMERMANN Group is a family company with a long tradition. ZIMMERMANN is an internationally active company specializing in treatment of hazardous waste, offers solvent recycling, disposal, engineering, logistics, industrial services and industrial cleaning as well as environmental and waste analysis, a full service for the environmentally friendly disposal of hazardous waste.

ZIMMERMANN

2010
Mill Scale - Disk Filtration

Construction of a wastewater treatment plant for the separation of mill scale from the wastewater stream for the steel mill Stahlwerk Annahütte using a special disc filter. The disk filter was integrated directly into the floor below the steel production hall.

Das Stahlwerk Annahütte, Max Aicher GmbH & Co. KG stellt legierten und unlegierten Rundstahl nach Maß für die stahlverarbeitende Industrie her.

SAH

2011
Ultra-Filtration

UIT modernized the wastewater treatment plant for Daimler Truck AG, optimizing energy efficiency at the Mercedes-Benz plant in Kassel.

The modernization of the plant refers to a separation of oils and fats, settling tanks for metallic residues, thickeners, ultrafiltration, and further chemical/physical process steps.
Daimler Truck AG is one of the world's largest manufacturers of commercial trucks with locations in North America, Europe, Asia and Latin America.

DAIMLER TRUCK

2014
Metal Recovery

UIT designed and constructed a treatment plant for heavy metal and organically highly polluted water from metal recycling processes.
The plant consists of acid treatment, leaching, neutralization, precipitation, sedimentation, solid/liquid separation and is flexibly constructed so that the process steps can be adapted to the quality of the residues as required.

WRC operates a new, modern, environmentally friendly plant in which metal residues from various industrial sectors are recycled. These residues are processed at WRC production facilities into metal concentrates which are sold to non-ferrous metal producers worldwide. The non-ferrous metal smelters use the WRC metal concentrates as metal raw materials or additives and use them to produce primary metals or metal salts, which in turn are basic products for the industrial sectors already mentioned.

2015
Modernization of flood water treatment plants

The flood water treatment plant for uranium leaching mine was modernized by UIT for WISMUT GmbH. The plant was re-designed and built using ion exchangers, precipitation, sedimentation, and sludge treatment. UIT has erected the plant and commissioned

WISMUT GmbH carries out the decommissioning, rehabilitation and recultivation of uranium mining and uranium processing plants in Saxony and Thuringia regions.

WISMUT

2015
Wastewater treatment plant

UIT act as EPCM service provider and has conducted design and construction of a wastewater treatment plant at the Goslar site for Harz-Metall GmbH.

Harz-Metall GmbH is a leading European recycling company for waste containing lead and zinc compounds. HMG collects waste from its location in Germany and processes it internally into secondary raw materials.

HMG

2016
Treatment of Process Effluents

UIT designed, delivery and construction a process wastewater treatment plant for an industrial company in Latvia that manufactures glass fiber.

Complete system consisting of gypsum precipitation, sedimentation, nanofiltration, retardation, solid-liquid separation, and packaging of the residue in BigBags. The key element of the plant is the separation of sulfuric acid sodium sulphate solution (Glauber's salt) using retardation.

VALMIERA GLASS is one of the leading glass fiber manufacturers dedicated to customer's specific needs, using innovative solutions that respect resources and the environment.

VALMIERA GLASS

2017
Rack-based Retardation Plants

For the RYONEX PTY LTD. In Australia, UIT has designed, built, delivered multiple mobile rack-based retardation and nanofiltration plants.
In order to be flexible what concerns transportation, the special requirement for the Australian market defined critical dimensions suitable for cargo transport using normal passenger airplanes.

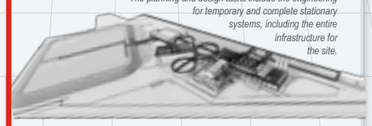
Ryonex is a service-oriented company in Australia active within the field of wastewater treatment and recycling.
Its uniquely engineered technical solutions for specialized of chemical requirements helping to minimize harmful impact on the environment.

RYONEX

2018 ...
Mine water treatment

Designing mine water treatment systems for RAG AG at various locations of the closed coal mines are still large ongoing tasks for UIT.

The planning and design tasks include the engineering for temporary and complete stationary systems, including the entire infrastructure for the site.



The plant consists of the various chemical-physical process steps that have to be adjusted depending on the mine water quality.
The cessation of hard coal mining in Germany in 2018, ended one chapter in the history of industry. RAG has overtaken a long-term responsibility in the mining regions, carrying works in the Ruhr region associated with multiple tasks to organize the dismantling, as well as to regulate the water balance of waters situated underground and above ground.

RAG

2019
Spin bath Recovery

UIT designed, delivered, constructed and commissioned a solvent reaction plant, spin bath treatment and a residue treatment for a production of cellulose fiber in Finland.

Metsä Group is a Finnish paper and forestry company. The group is the largest cooperatively organized company in Europe in this business area.
In Äänekoski/FIN, a subsidiary of the company MI-Demo Oy, operates a pilot plant for the production of wood-based, cotton-like textile fibers.

Metsä

2021
Pilot Container for H2-Storage

UIT performed the construction of a plot container for Ambartec GmbH to prove the newly developed concept for H2 storage was executed within 6 months implementing process specifications of new technology.
All associated challenges were purely related to hydrogen material and also demanding from a safety point of view due to the thermodynamic conditions.

With the energy transition to wind and sun and thus greater volatility, energy storage is becoming increasingly important since the chemical storage of ecologically produced hydrogen is significantly more efficient for stationary systems than storing electrical energy in accumulators.
AMBARTEC has developed the HyCS® technology, using simple and effective combination of reduction and oxidation.

AMBARTEC
HyCS-TECHNOLOGY

20XX
YOUR PROJECT

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UMWELT- UND INGENIEURTECHNIK GMBH DRESDEN (UIT)
BELONGS TO
GENERAL ATOMICS EUROPE GRUPPE
AND AS SUCH IS PART OF
THE GLOBAL NETWORK OF GENERAL ATOMICS (GA)

GA and affiliated companies operate on five continents.

The group comprises over 15,000 employees.

The group occupies more than 3 million square feet of engineering, laboratory and manufacturing facilities.

GA subsidiaries include General Atomics Europe GmbH based in Saxony and Brandenburg, Heathgate Resources Pty Ltd (South Australia), GA Uranium Resources Group, Diazyme Laboratories Inc. and GA Honeywell Uranium Conversion Partnership.

General Atomics is a defense and diversified technologies company.

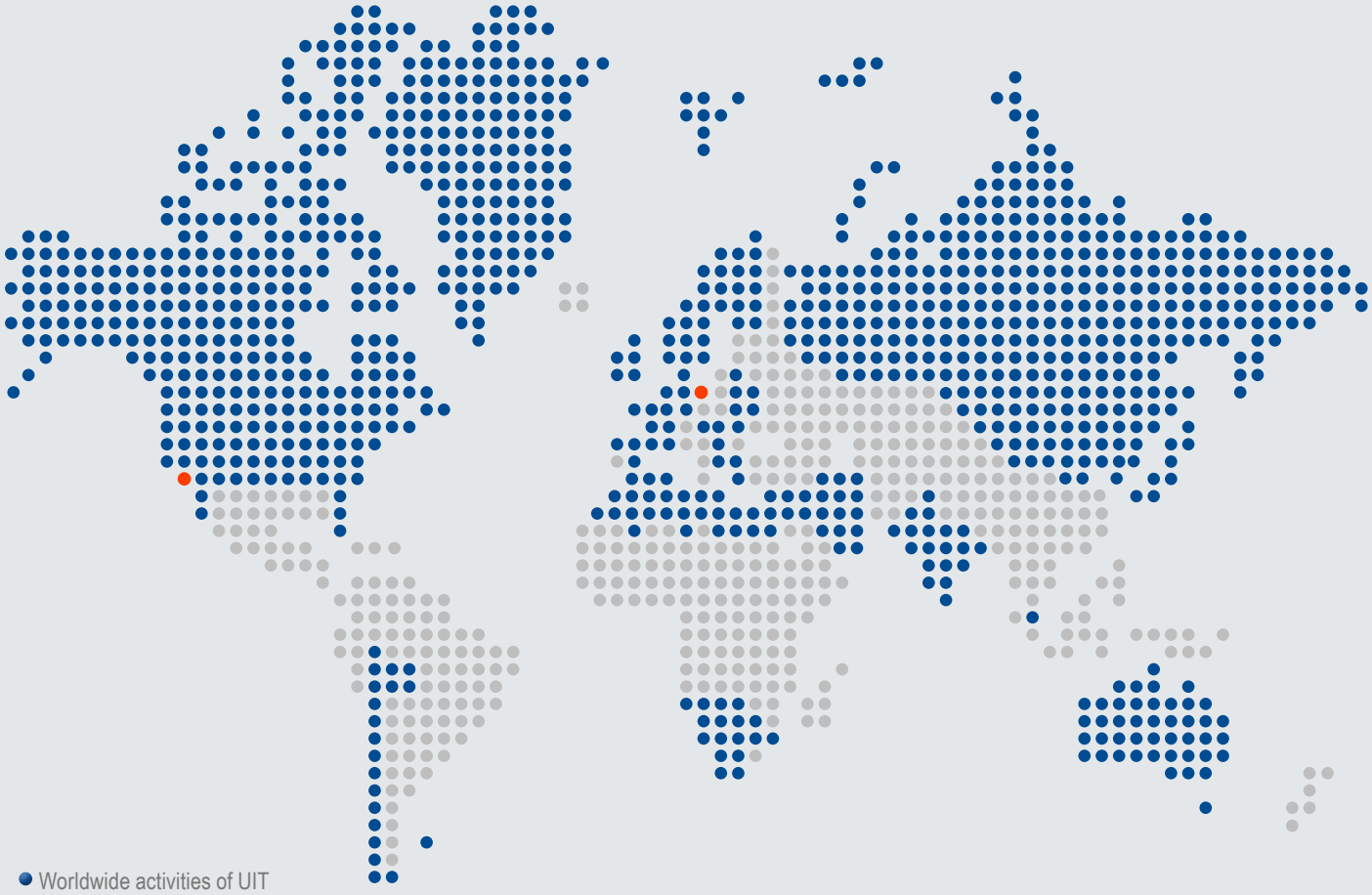
GLOBAL PROGRESS THROUGH TECHNOLOGY

GENERAL ATOMICS EUROPE

GENERAL ATOMICS EUROPE

UMWELTLEISTUNGEN

Technology pro Environment



● Worldwide activities of UIT

www.uit-gmbh.de

The company is part of the General Atomics Europe Group
and is thus part of the worldwide network of General Atomics (GA)

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