

# Engineering Plant Construction

TECHNOLOGIE PRO UMWELT



**WATER TECHNOLOGY**



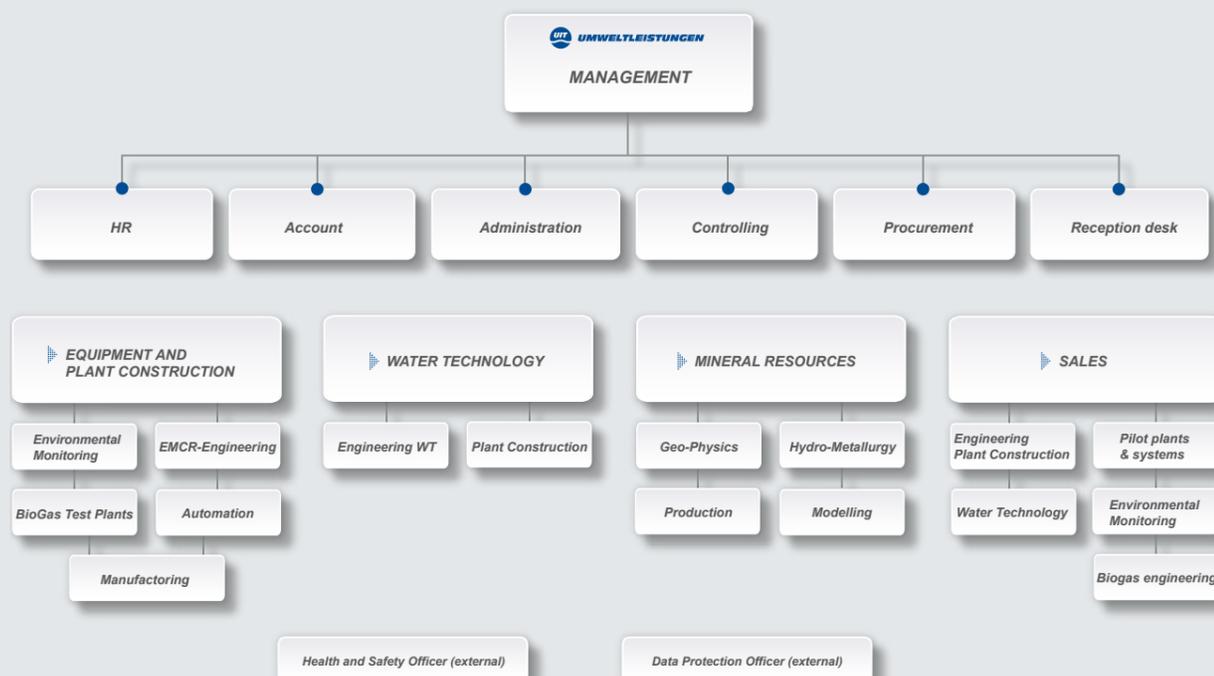
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# Vision

„From your individual requirements via engineering to plant construction“

# Structure

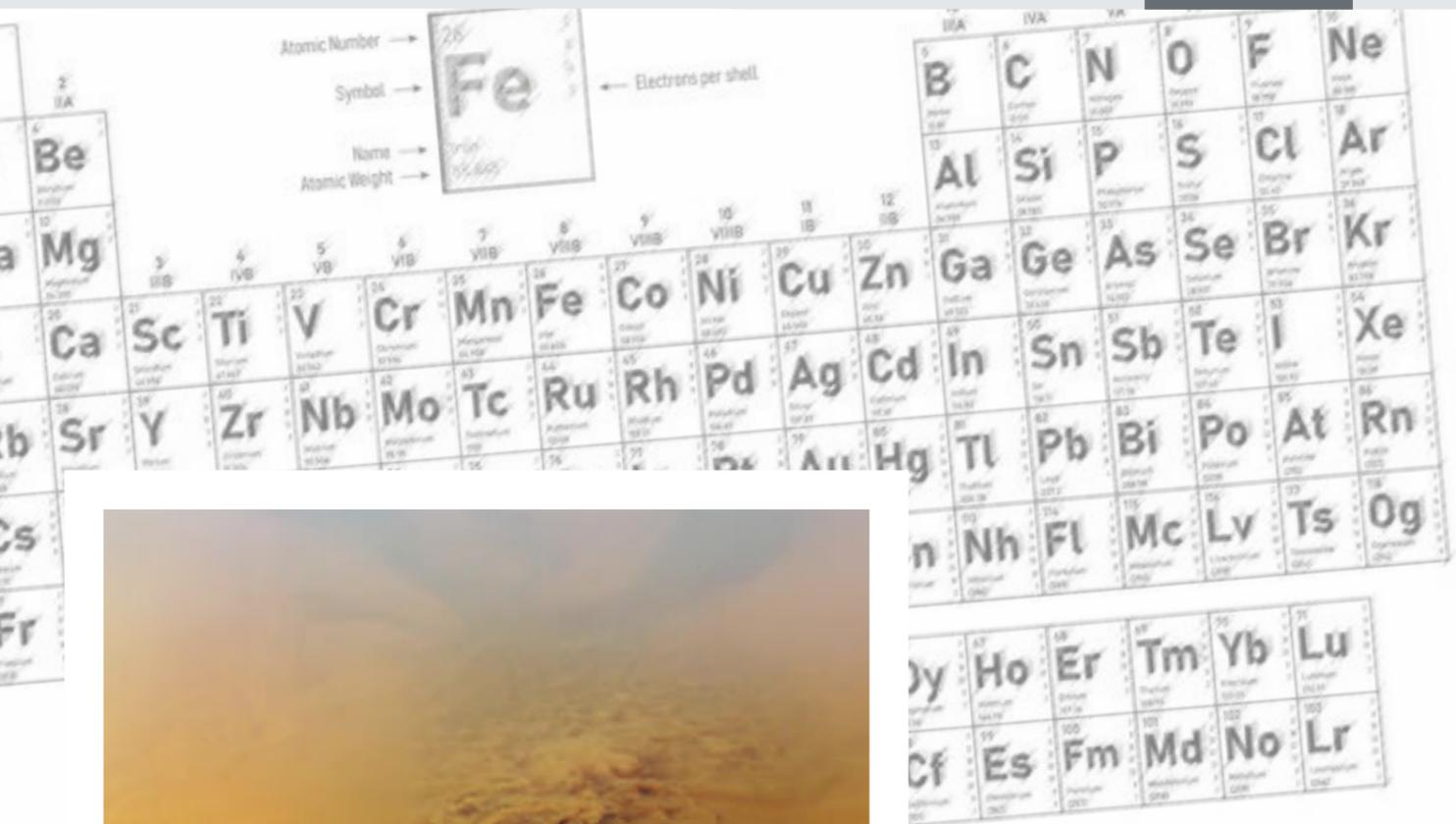


**ENGINEERING** We develop and engineer technological process solution for your plant starting from the determination of the basics, going through design and implementation planning stages, including construction supervision. Our main business activities cover industrial and mining water treatment plants 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.

# Main Contaminants



FERROUS SULPHATE, WATER IN OPEN PIT

OXIDATION UND NEUTRALIZATION

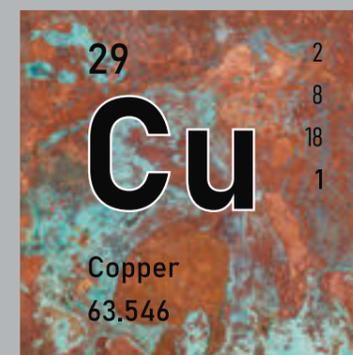
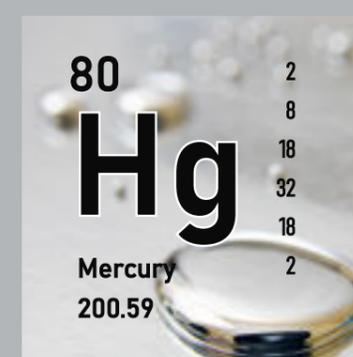
## MAIN CONTAMINANTS

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](mailto:info@uit-gmbh.de)  
phone: +49 351 886 4600

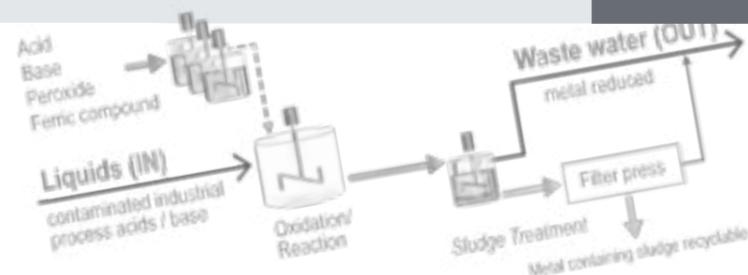
# Process engineering



# Technology center & Pilotcontainer



## 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.

## 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.



## Process selection    Construction/supervision    Commissioning/optimization



## 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.



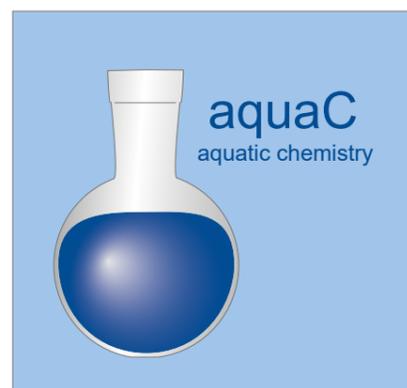
# Engineering tools

## 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



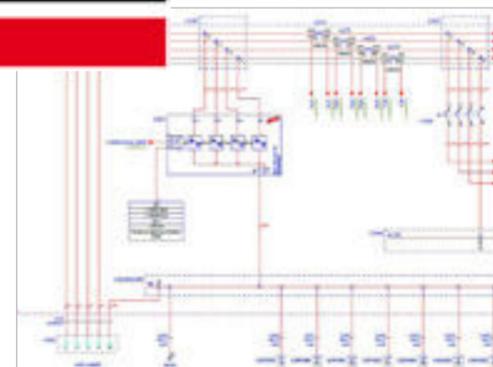
**SolidWorks® (Dassault Systèmes)**  
3D software for mechanical design and production, 3D plant construction software

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

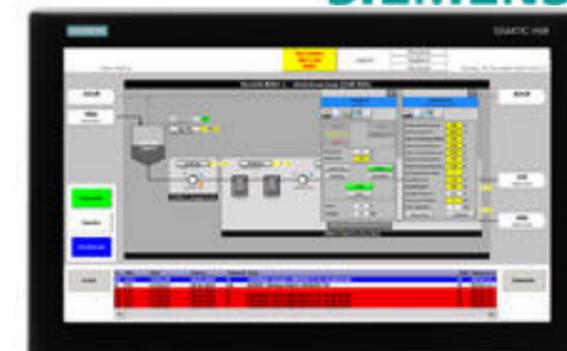


**EPLAN® CAE und CAD Services (Friedhelm Loh Group)**

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

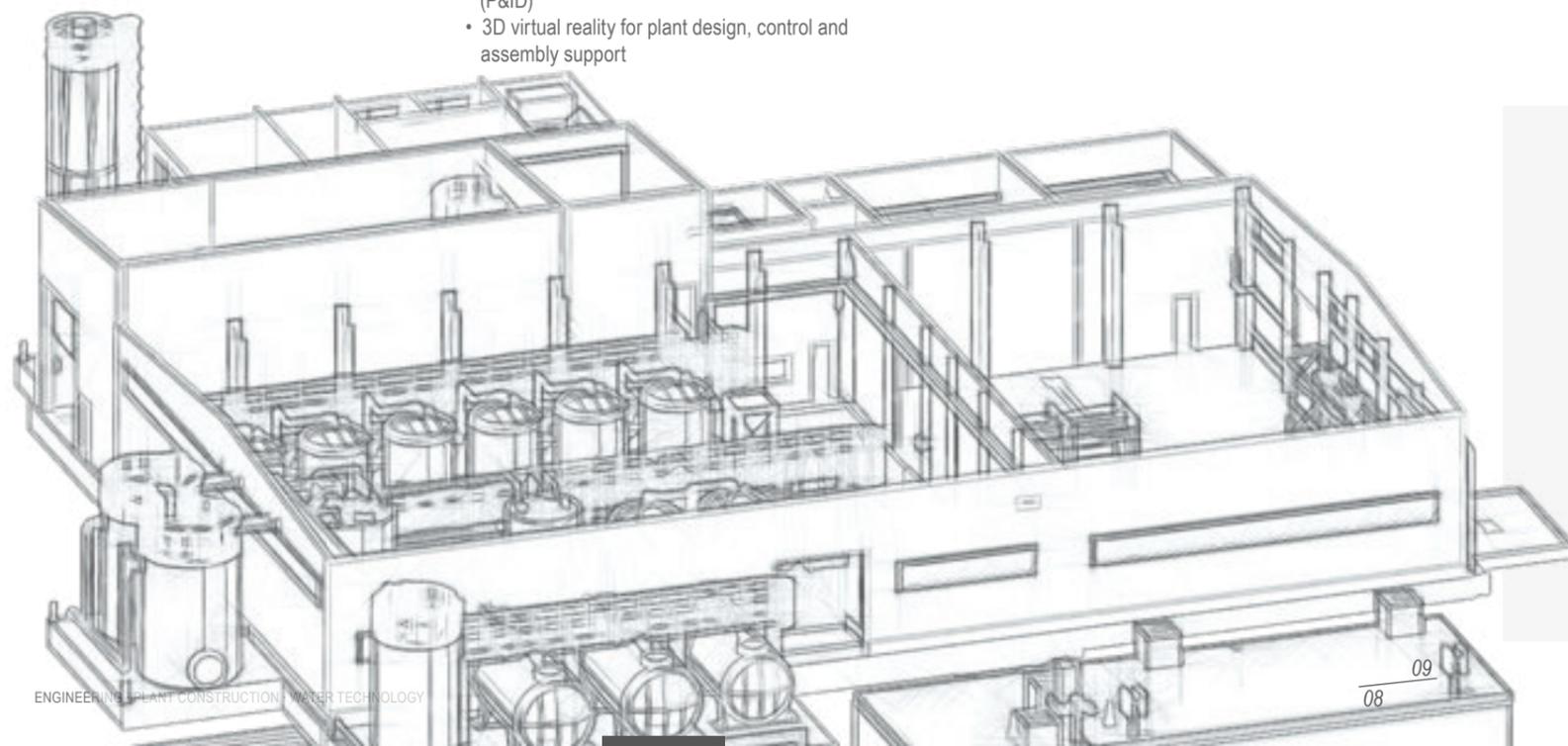


**SIEMENS**



**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

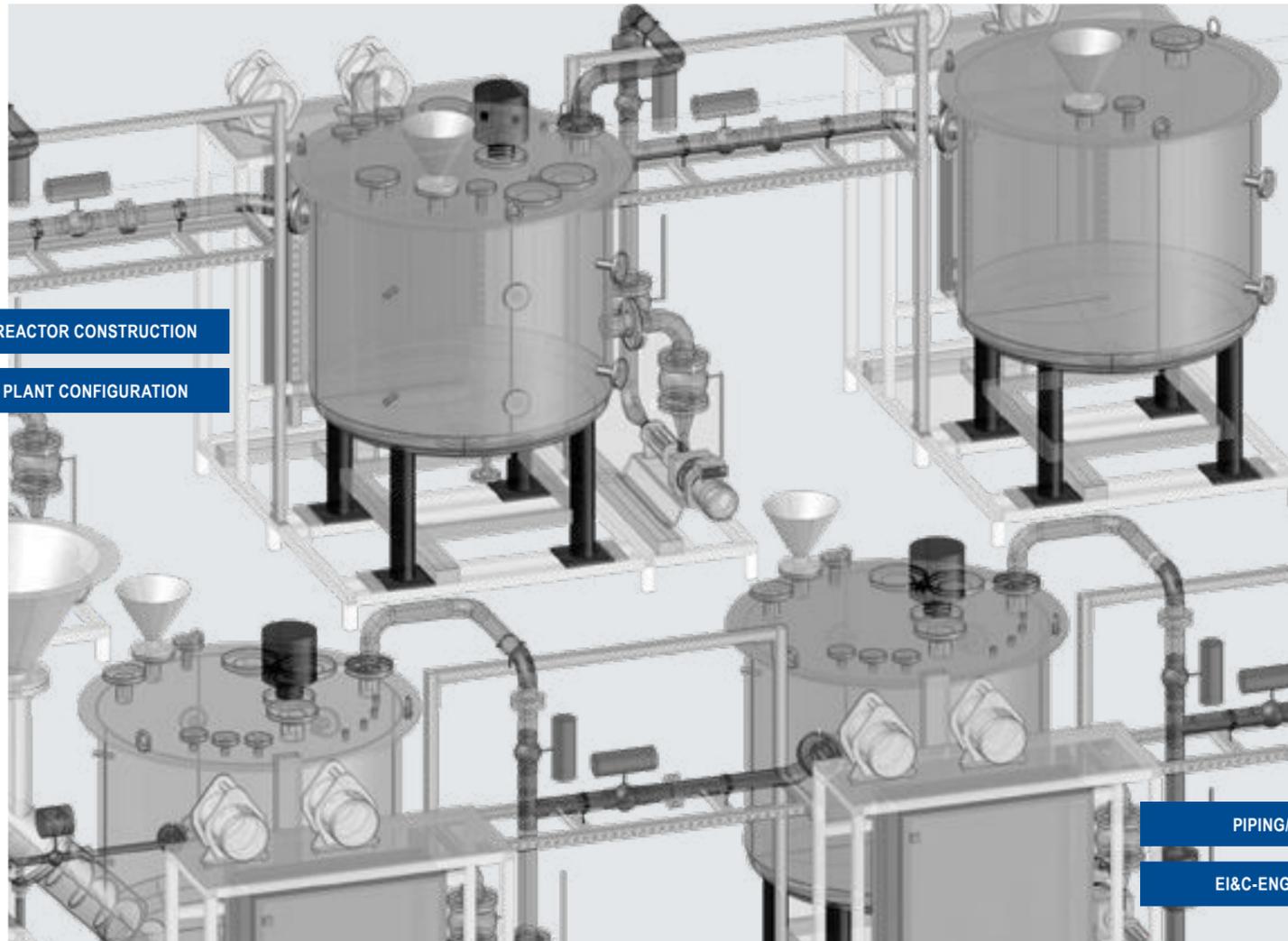
- MS-Project® for schedules, workflow coordination and controlling (Microsoft)
- LabVIEW® for validation and production test systems (National Instruments)
- BIM 360® construction management software for networking processes (Autodesk)
- TIA Portal/TwinCAT (Beckhoff), Safety PROFIsafe/TwinSAFE (SIEMENS)
- 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



Plant construction  
Reactor - Pilotplant

## 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 adjust-

ments 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.

# 3D Application



STATE-OF-THE-ART  
3D PLANNING

# Industry sectors



WE ADDRESS YOU!

## 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 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.



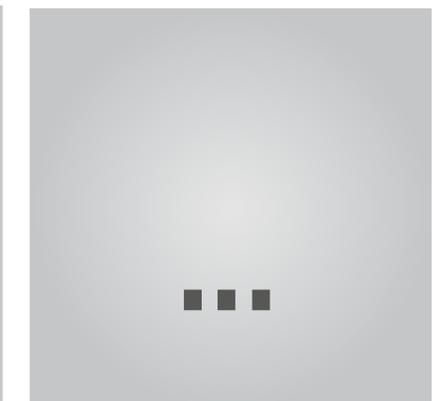
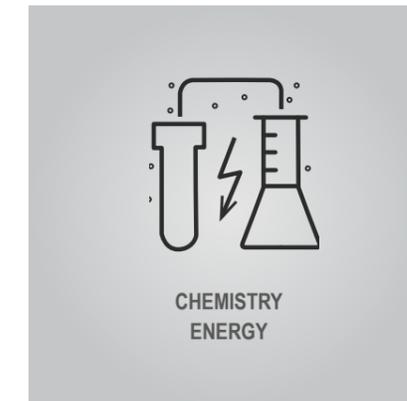
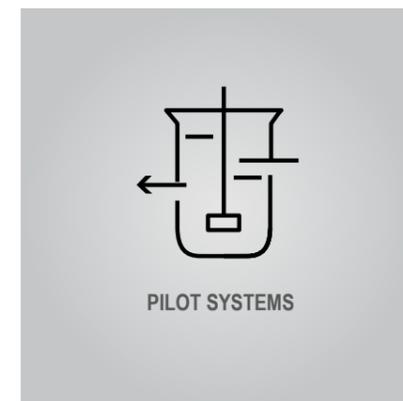
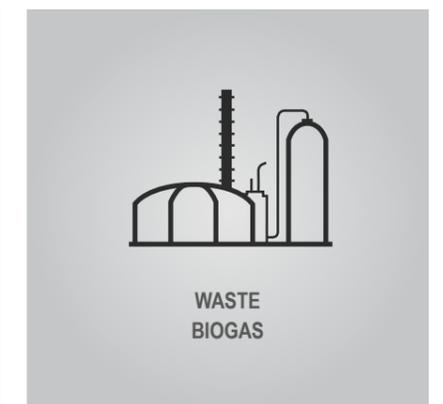
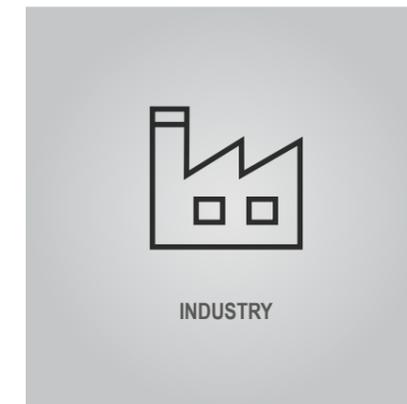
High temperature reactor plant (HTP reactor) for biomass treatment at temperatures up to 240°C using pressure up to 40 bar.



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.



# Plant construction Industry



# Plant construction Pilot systems



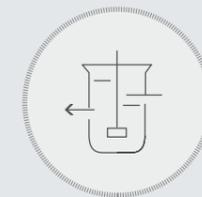
WISMUT GmbH



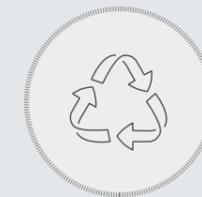
WRC World Resources Company GmbH



Metsä Group OY



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



BRAIN Biotech AG



RYONEX PTY LTD

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

**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.

**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.

**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 electro dialysis.

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.

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.

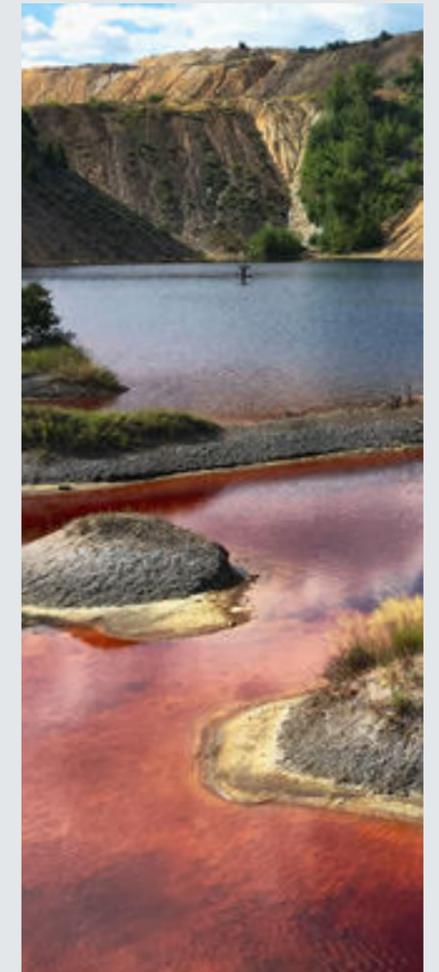
**Mining pilot plant** a treatment lagoon for sulphate separation using open pit mining water, designed and built by UIT GmbH Dresden.



RAW MATERIAL EXTRACTION



ACTIVE WATER TREATMENT



MINE REMEDIATION

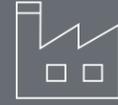
Neutralization with partial sludge recycling (**HDS process**) or highly efficient sulfate reduction (**HeSR**) by combining precipitation and membrane technology are technological examples of successful applications in numerous projects.

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 m<sup>3</sup>/h up to large plants with > 1,000 m<sup>3</sup>/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 steel-works.

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

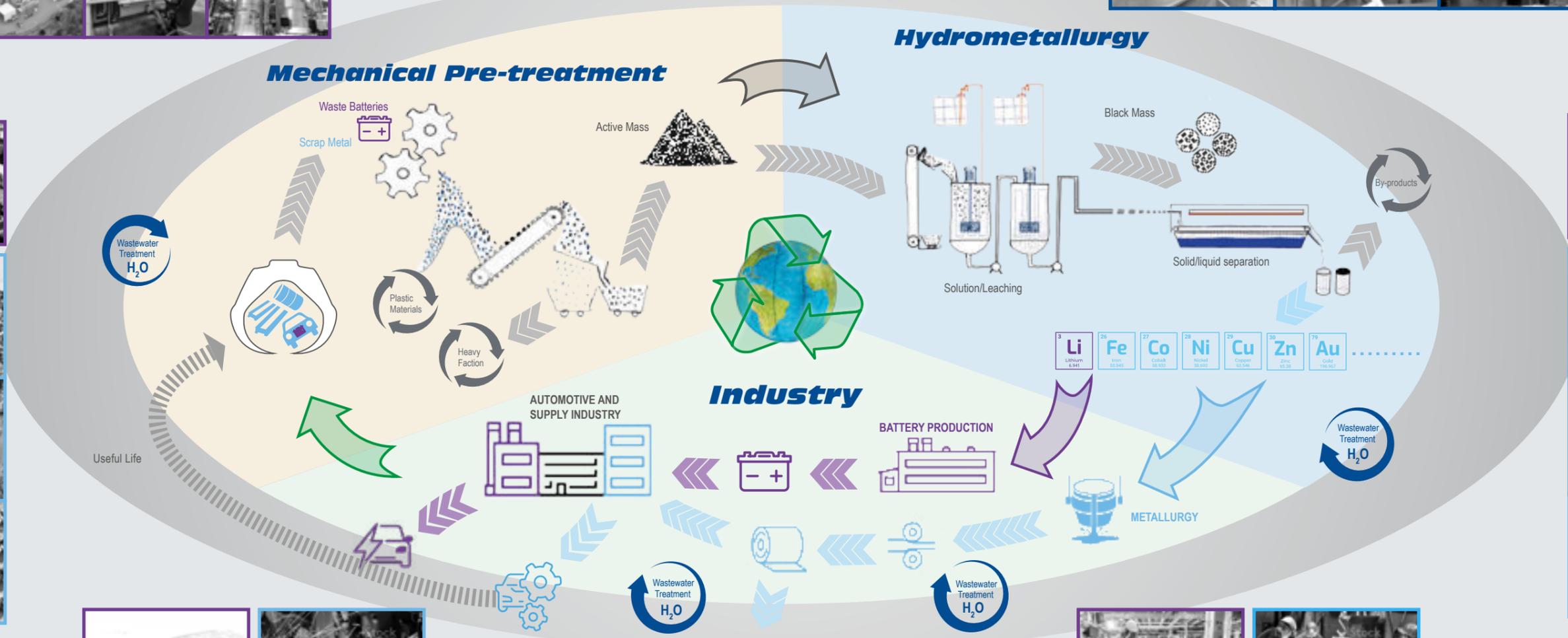
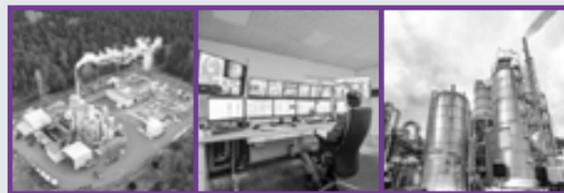
# Battery-Recycling



## 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.

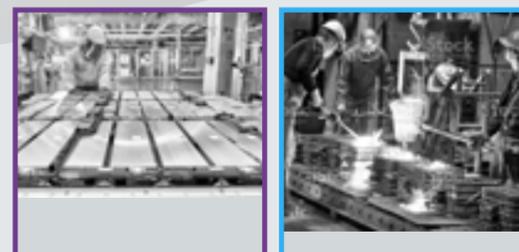


3  
Li  
Lithium  
6.941

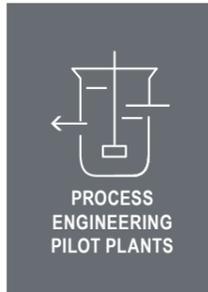
24  
Cr  
Chromium  
51.996

29  
Cu  
Copper  
63.546

80  
Hg  
Mercury  
200.59



# Why with UIT? ... and in addition, this ...



## TECHNOLOGY PRO ENVIRONMENT

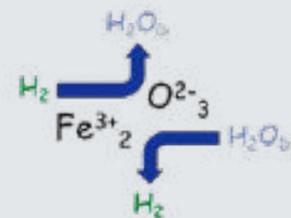
Our competences are dedicated to confront your challenges exploring complex tasks.

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



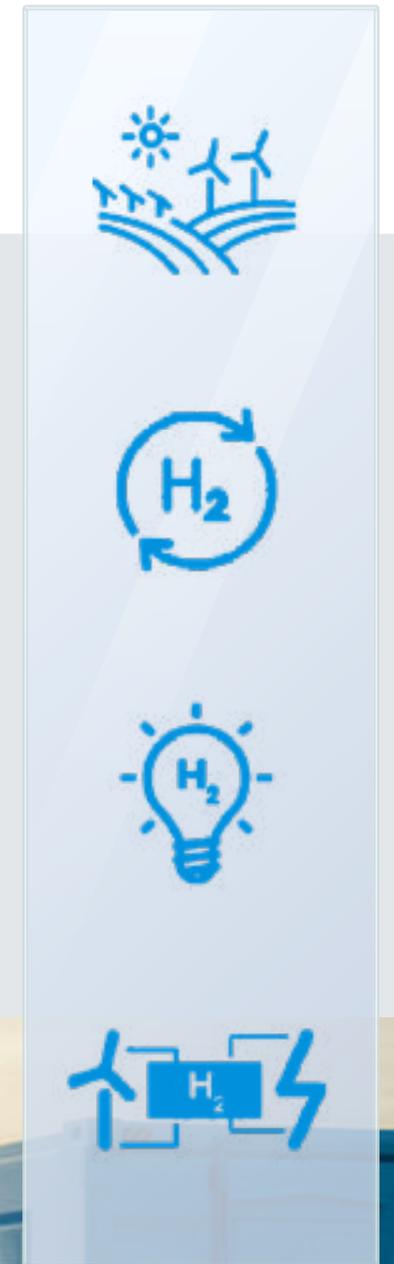
conditions for full scale industrial system.

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!



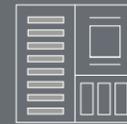
<https://www.ambartec.de>



# Rack-based plants

## COMPACT / TESTED

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

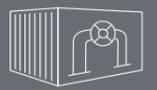


RACK-BASED PLANTS

# Containerized plants

## INSTALLATION / START-UP

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



CONTAINERIZED 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.



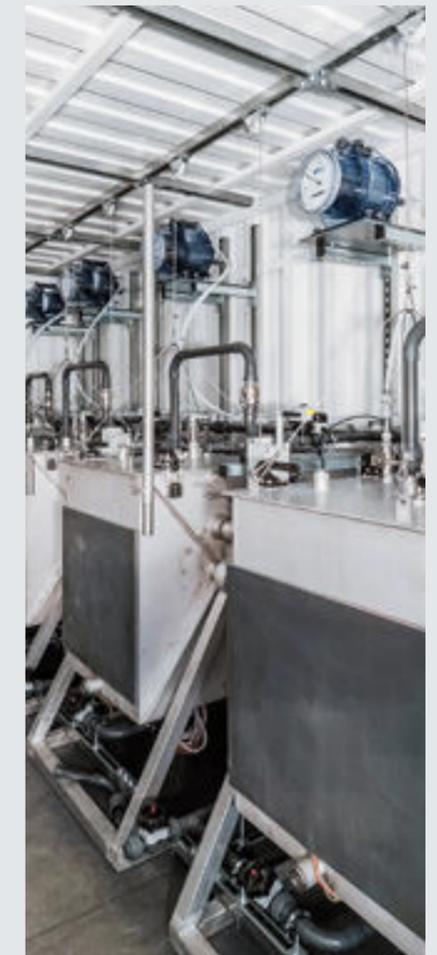
## BIOLEACHING

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.

# References selection

**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 m<sup>3</sup>/h.



Salzgitter Flachstahl is the largest steel subsidiary in the Salzgitter Group and processes 3.3 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 produces 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.

**2006**

**Biotechnological Pilot Plant**

UIT designed and constructed 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 substrate, 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 current research activities are based on application-oriented basic research in the field of natural and agricultural science, engineering, and biotechnology.



**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.



**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.



**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 M-Demo Oy, operates a pilot plant for the production of wood-based, cotton-like textile fibers.



**2021**

**Pilot Container for H2-Storage**

UIT performed the construction of a pilot 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 H<sub>2</sub>CSB technology, using simple and effective combination of reduction and oxidation.

**2005**

**Clean energy for the world...**

UIT as a general contractor has conducted reconstruction and related optimization services for a uranium leaching mine in Saxony. For Heathgate Resources Pty Ltd, Adelaide, in Australia the UIT has designed technological solution treating 180 m<sup>3</sup>/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 water 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.



**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.



**2015**

**Wastewater treatment plant**

UIT designed and constructed a wastewater 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.



**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.



**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, setting and sludge treatment with a capacity of up to 1000 m<sup>3</sup>/h.



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



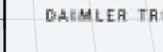
**2011**

**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.



**2017**

**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.



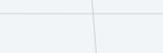
**2018**

**Mine water treatment**

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.



**20XX**

**YOUR PROJECT**

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**1994**

**1992**

**Incineration Plant**

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



The company Spreewerk Lützen 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.



**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
- COD
- ...

**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 disc filter was integrated directly into the floor below the steel production hall.



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



**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.



**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.

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



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



# Technology pro Environment



● Worldwide activities of UIT

[www.uit-gmbh.de](http://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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