



# AQUAPROFIT- PORTFOLIO



We take care of the water  
from nature to the consumer

# Committed expert team behind your project



25 years of expertise and innovation in Hungary

designs engineers  
civil engineers  
mechanical engineers  
hydrogeologists  
environmental engineers  
water technologists  
construction team  
economists  
legal advisors

## Services:

- ✓ Water engineering, authorization
- ✓ consultancy
- ✓ Building and construction
- ✓ technical audit
- ✓ Complex project management

## Professional areas:

- water abstraction
- ✓ water purification
- ✓ water supply
- ✓ water resource protection
- ✓ surface water management
- ✓ sewage water treatment
- ✓ R&D

## Projects:

- ✓ drinking water supply
- ✓ water management, irrigation
- ✓ industrial water
- ✓ Spa & hotel development
- ✓ Natural mineral water
- ✓ Intelligent water supply system
- ✓ IWAT smart concept

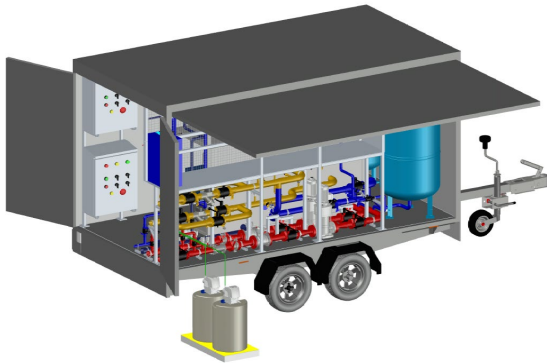
# sustainable drinking water supply

- **Design, consulting, licensing, construction services**
- **Survey of groundwater resources, water production wells, connecting pipelines** (survey, renovation possibilities, designation of a new water exploitation area)
- **Investigation of water treatment technologies, water supply pipelines, reservoirs and complete systems** (condition assessment, examination of used waters, technological renovation, intelligent systems, pipeline reconstruction)
- **Efficiency assessment of operating water supply systems**, identification of energy reduction opportunities, planning and implementation
- **Preparatory work for development projects**, cost-benefit analysis of alternatives



# Effective disinfection of pressurized systems

## Self-developed mobile disinfection unit



### Treatment of biological and bacterial infections:

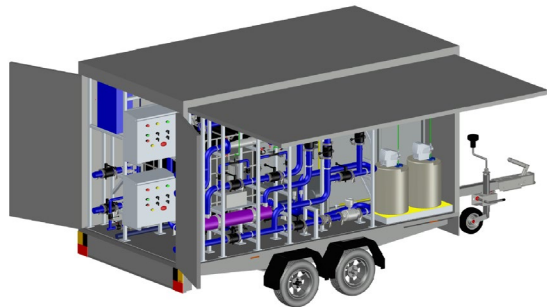
- Coli, E. coli, enterococcus
- Soil bacteria (pseudomonas a.)
- Cyanobacteria and algae
- Worms (nematodes, wheelworms)

### Scope of application:

- Pipelines, filter and storage tanks, other pressure components
- Chemical selective filter cartridges (eg GAC)

### Features:

- Thermal and / or ozone disinfection with optional chemical treatment
- Innovative in-line monitoring system, immediate feedback on the outcome of the treatment process



modernization, environmental protection



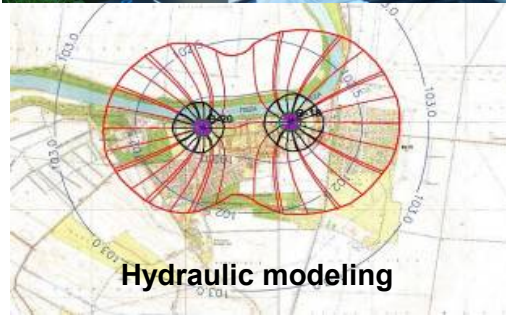
# making industrial water use sustainable



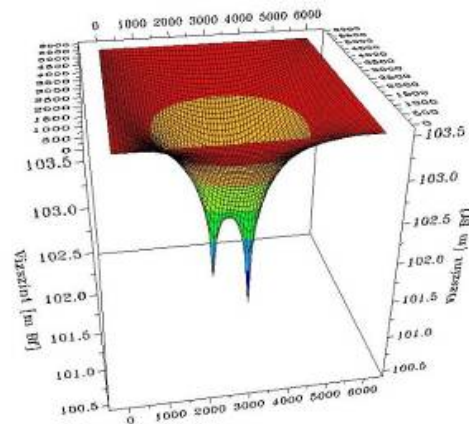
- **Complete water audit**
  - Water exploitation and supply system
  - Technological water treatments, water quality compliance
  - Loss survey
- **Reduction of water consumption**
  - Loss reduction, development, reconstruction, efficiency improvement
  - Measurement technology, smart control and supervision, smart systems
  - Cost-benefit analyses of alternatives
- **Efficiency assessment** of industrial water supply systems, examination of energy reduction and more sustainable possibilities



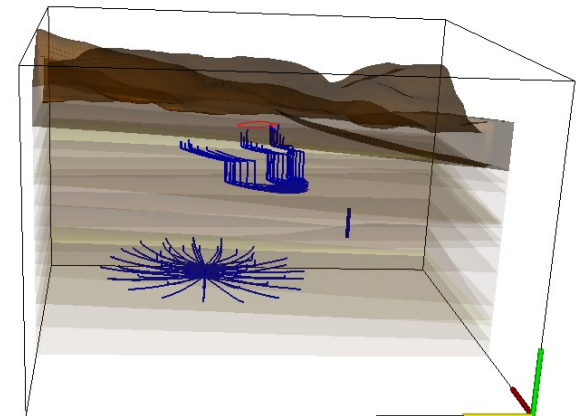
# groundwater resource protection and development



- Condition assessment of **operating and future-perspective drinking water resources**, performing diagnostic testing, safety conditioning
- **Environmental impact assessment**, environmental authorization, designation of protection zones
- Implementation of groundwater related **design and construction** works
- **Quality and quantity monitoring** of groundwater resources



3D Hydrogeological modeling





# solar powered intelligent containerized water treatment technology



- **Site-specific design, production**
- **Groundwater, spring water purification unit with high-end components**
- **Independent solar-powered energy system, no electric grid required**
- **Intelligent remote control and supervision**
- **Auxiliary systems (packaging, first aid/medical room)**

IWAT installation and commissioning, Tunézia 2019



## IWAT Tunesia



- ✓ Continuous operation with remote monitoring since October 2019
- ✓ 11.550 kWh of electricity produced
- ✓ 2.600 m<sup>3</sup> of purified spring water, satisfied consumers
- ✓ healthy drinking water is available for more than 100 families living in the area
- ✓ water quality that meets the strictest European Union limit values
- ✓ video available: [IWAT Film](#)

water is a **condition of life**



# surface water management and developments



Connecting channel, Dávagárdony



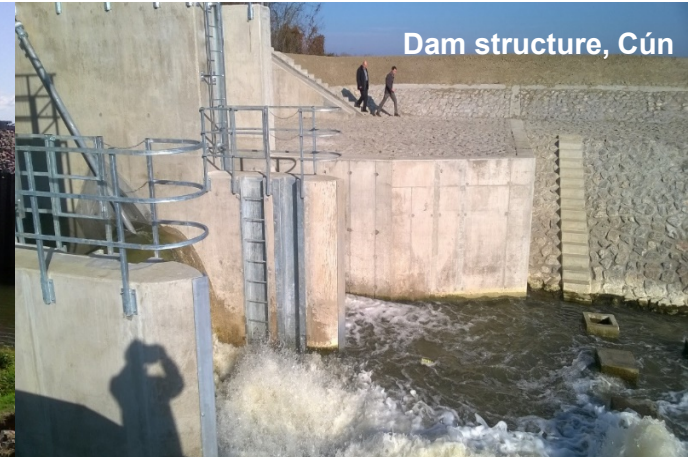
Sluice gate, Cún



Water abstraction structure,  
Drávagárdony



Watercourse protection,  
Fekete-víz



Dam structure, Cún

- **Survey – modeling – design – construction services**
- **Planning sustainable projects**
- **Complex rural developments** (Ancient river Drava program, Cún-Szaporca water replenishment)
- **Structures, canals, wetlands**
- **Water remediation planning, flood reservoirs**



# spa development

- Elaboration of development strategy, concepts
- Planning of development alternatives, cost-benefit analyses
- Environmental-water management audit
- Classification and authorization for medicinal waters
- Design and construction of stainless steel clad pools



Harkány Spa development phase II

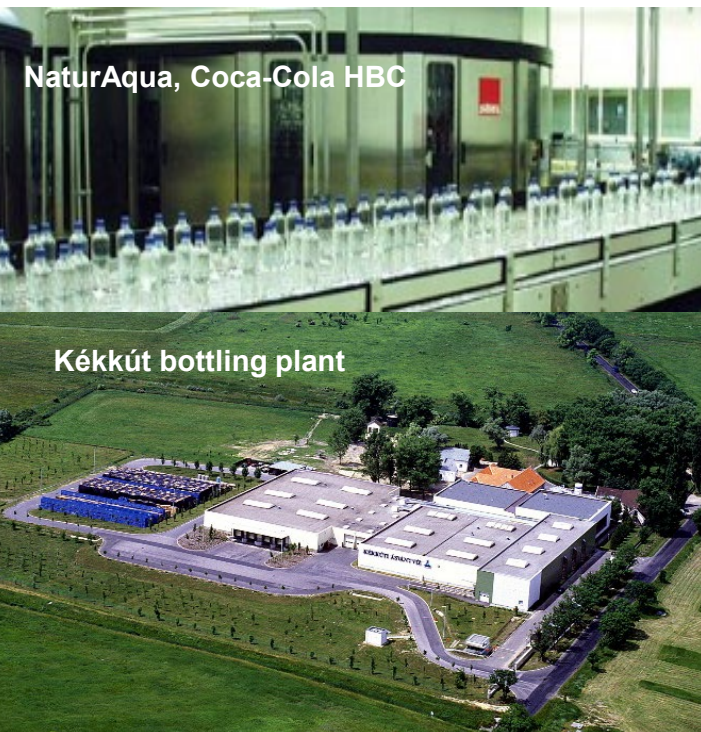


Granit Spa, Zalakaros



Sárvár Spa developments

# Natural mineral water projects



NaturAqua, Coca-Cola HBC

Kékkút bottling plant



Nestlé Aquarel, Kékkút

## Competences:

- ✓ Geological research, water utilization engineering, technical support for water source development
- ✓ Water authorization plans, permits
- ✓ Design and construction of mineral water wells
- ✓ Design and operation of water source monitoring systems
- ✓ Technical support for mineral water classification
- ✓ Pre-investment plant inspections, risk analysis, decision-making documentation for developments

## Main references:

- ✓ Coca-Cola HBC - NaturAqua
- ✓ Szentkirályi Magyarország Kft. - Theodora Kékkúti, Theodora Kereki, Nestlé Aquarel

Partner of global companies





# wastewater developments

- Survey, reconstruction, design and implementation of **municipal and industrial wastewater collection systems**
- Survey of **municipal and industrial wastewater treatment technologies**, efficiency improvement
- **Regulatory compliance audit**



# main partners



25 years of expertise

# our awards



Best LIFE Nature Project 2018  
Kisalföldi Homokpuszta



Provident Social Benefit Award 2016



Pegazus Award  
2015



Magyar Brands  
Innovative Brand Award  
2016



Environmental Innovation Award  
2015



Environmental Innovation Award  
2015



# Thank you for your attention!

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