



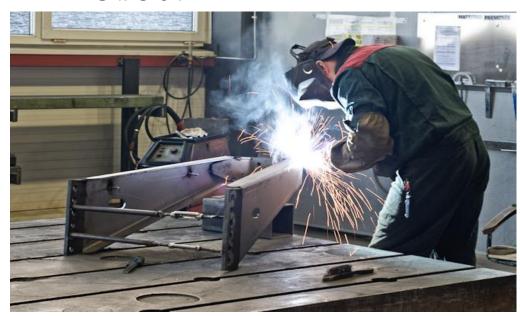




AJARGINTA

GROUP







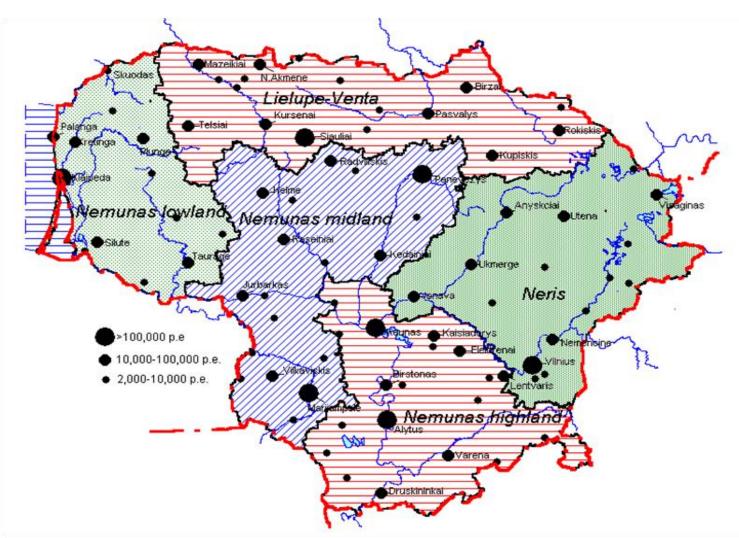
Brief History of Arginta in water management field

- 1991 UAB Arginta is established
- 1995 Arginta participates in Vilnius WWTP reconstruction
- 2001 Small WWTP installation team is assembled
- 2002 Arginta started performing consulting in water management field
- 2004 Arginta is employed as contractor for equipment installation on municipal WWTP
- 2005 Arginta starter performing WWTP equipment maintenance serveries.
- 2010 First sludge treatment project are being developed.
- 2012 Arginta opens foreign offices and started performance of Constriction and Consulting projects in CIS countries.



Feasibility studies

•We completed more than 40% of Feasibility studies for river basins in Lithuania

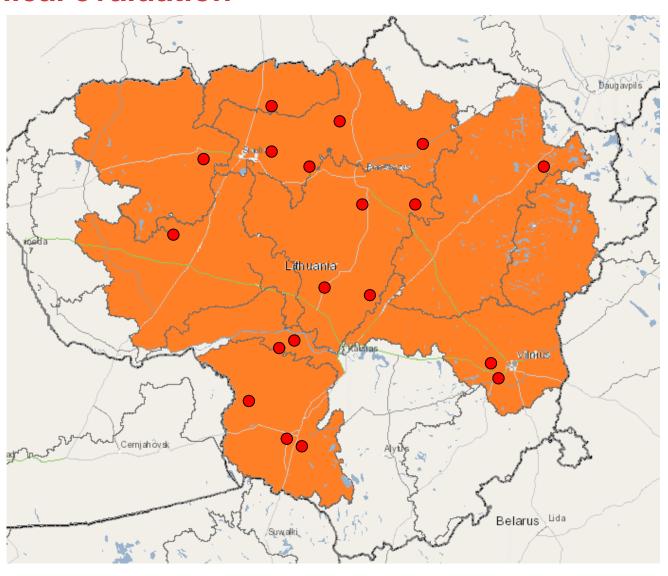


Design documentation expertise and Technical evaluation

•We completed more than 60% of Tender and Design documentation expertise in Lithuania

During 2012- 2014 we have completed design documentation expertise and technical evaluation

Of 36 cities in Kazachstan



Construction and reconstruction of water management objects

Construction of WWTP

Sludge treatment plant construction

Water treatment plant construction

Construction of pumping stations



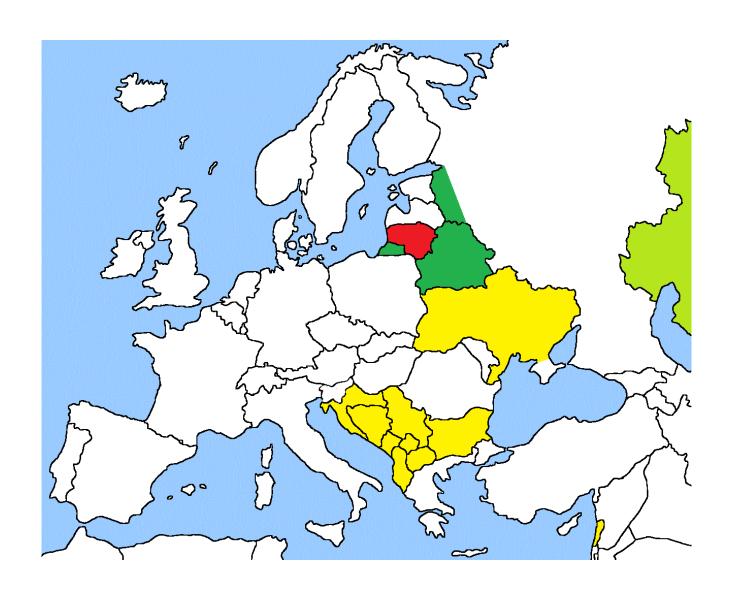
By 2012 Arginta successful reconstruction or constructed more than 30 object in Lithuania

Construction and reconstruction of water management objects

Overall 41 mEUR of investment in the region



Construction and reconstruction of water management objects



Project management

Technological design

Plant maintenance and operation

Pre-contract, consulting serveries

Equipment and automation manufacturing

Water treatment

Waste water treatment

Sludge treatment







Complex mechanical treatment



Combined mechanical treatment unit

PERFORATED Fine screens



Mechanical treatment unit bu 6 mm perforated screens

STEP Fine screens



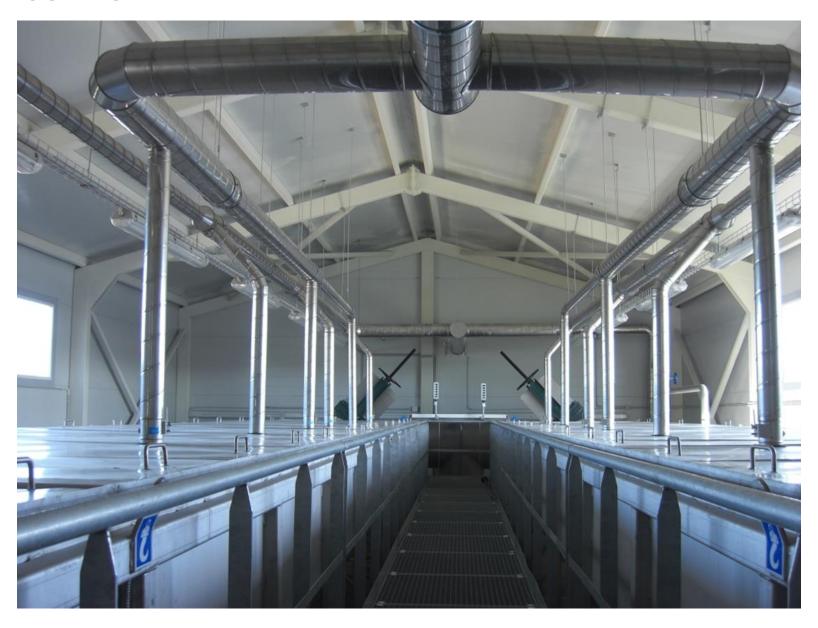
3 mm step screen with hydraulic screen press with protective covers

Grit removal



Aerated grit chamber

CLOSED GRIT TRAP



Grit washers



Primary treatment



Reconstructed primary clarifier

Biological treatment



Air supply systems



Air supply systems



Sludge PS/turbo air blower

Tertial treatment



Additional mechanical filters for polishing

Sludge treatment



Sludge drum thickener

SLUDGE TREATMENT EQUIPMENT



Automatic polymer production units (from powder polymer)

Sludge digestion



Reconstructed digesters 1800 m3 each

Digesters equipment



Sludge heating and recirculation pumping station

Biogas treatment



Reconstructed digester's equipment

Biogas collection



Biogas holder

Energy production from biogas



Microturbine CHP

Sludge drying



Belt sludge dryer: 380 kg H2O/h

Dryed sludge packaging

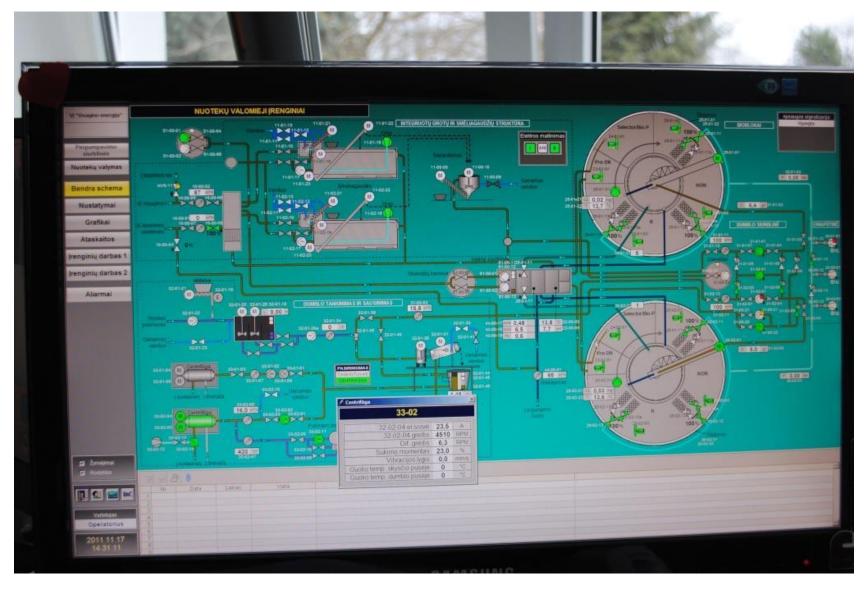


Dewatered sludge silo and dried sludge silo&packing

We design and produce control panels



And control SCADA systems



We design and construct different type of plants

- Conventional WWTP
- Compact WWTP
- Special WWTP
- Sludge treatment plants
- Everything depends on request.

Conventional technologies



Brest WWTP, Belarus



Compact solution



Compact WWTP



Kružni tip bioreaktora sa sekundarnim taložnikom u sredini

Compact WWTP



SBR Širvintai WWTP, Lithuania



Sludge treatment plant



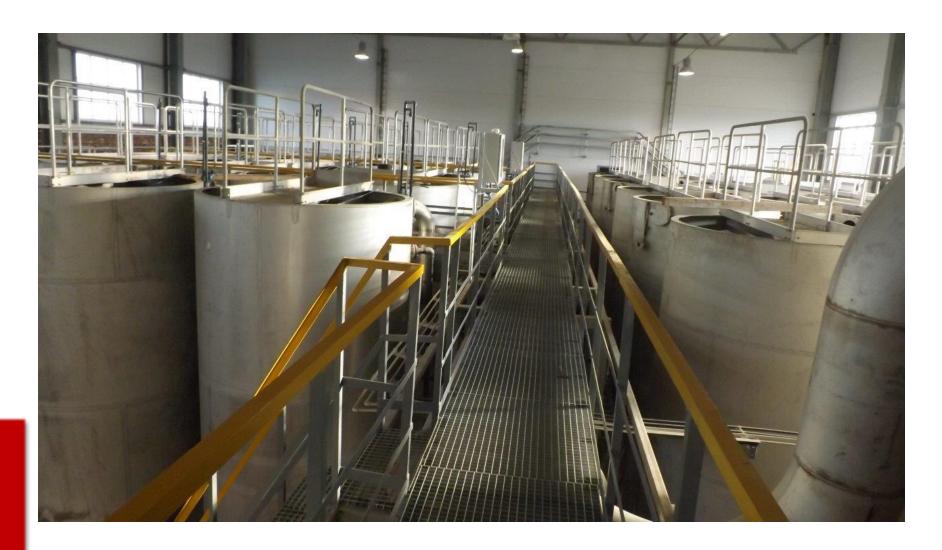
Kompaktno postrojenje za ugušćivanje, dezintegraciju, digestiju, obezvodnjavanje i sušenje mulja

Taurage sludge treatment plant, Lithuania



Sludge digesters 750 m3 each

DWTP plant, Russia



Portable water 5,5 m Dynasand nonpressure sand filters, 41pcs

Bobruisk DWTP, Belarus

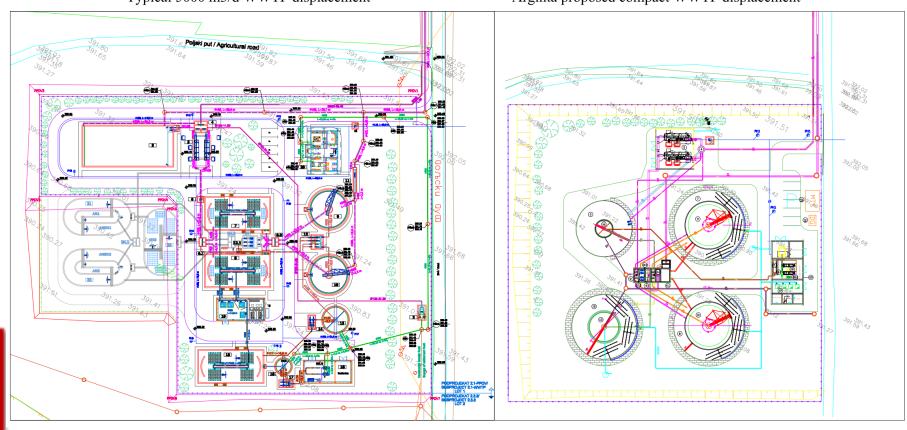


Air injectors are used to supply oxygen

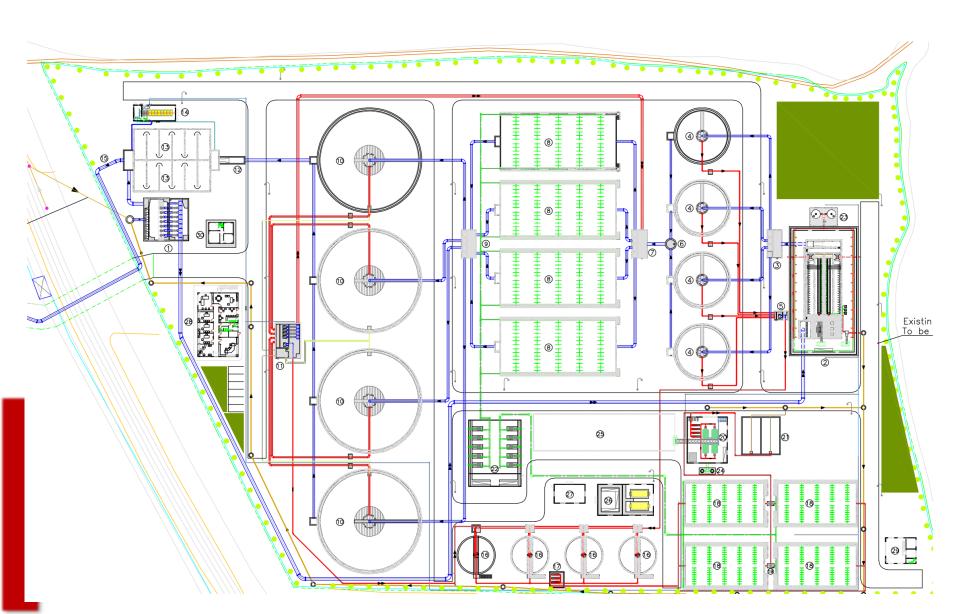
Proposed compact technology

Typical 5000 m3/d WWTP displacement

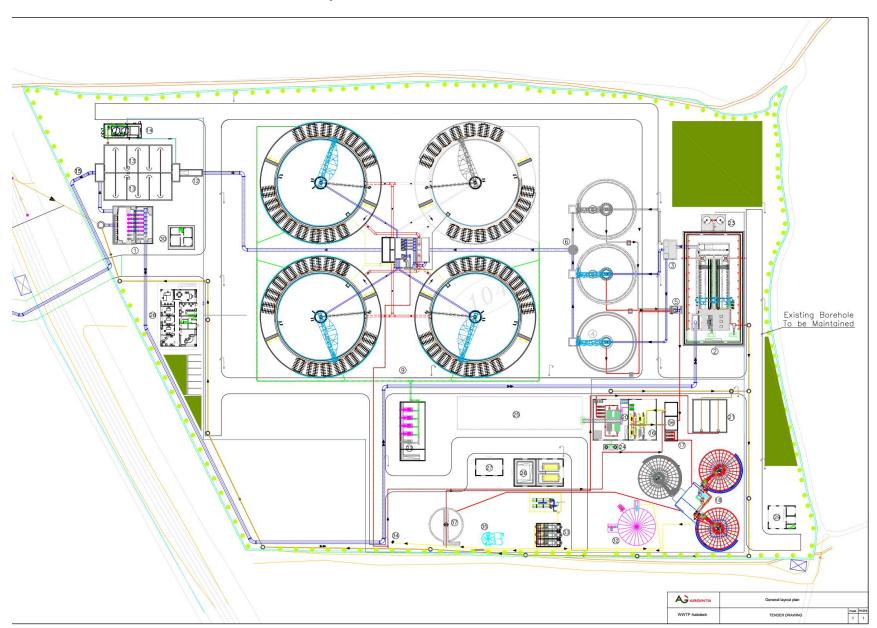
Arginta proposed compact WWTP displacement



40 000 m3/d WWTP layout, proposed by Employer Total annual operational costs-2.681.250 €



Alternative WWTP layout, proposed by Arginta Total annual operational costs-1.875.000 €





Thank you for your attention!

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