

#### Municipal Nanofiltration Project Jurmala, Latvia 2012-2013

# JURMALA

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A resort town, about 25 kilometers west of Riga, Latvia, it has a 33 km stretch of white-sand beach. The fifth largest city in Latvia.

Total Area 100 km<sup>2</sup> (40 sq mi) Total Population 56 060 Density 560/km<sup>2</sup> (1,500/sq mi)

Kauguri and Dzintari are residential areas of Jūrmala city, Latvia

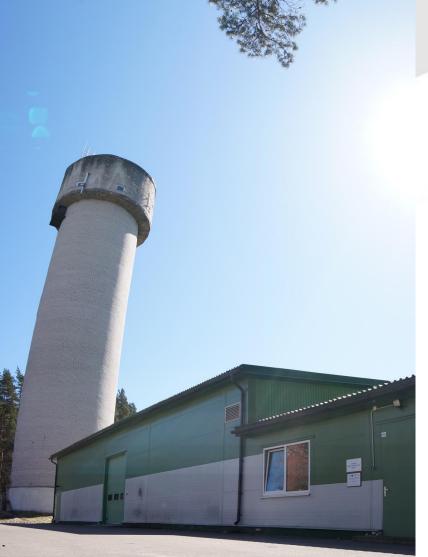




### Project

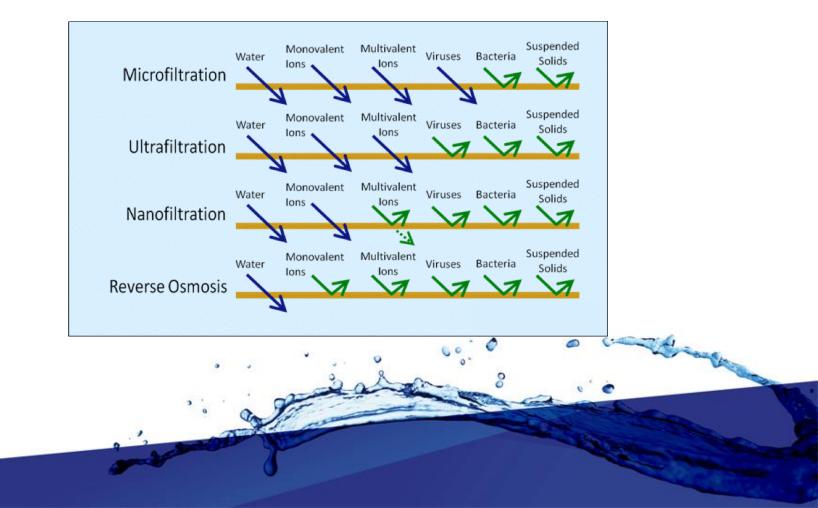
#### Sources of funding:

- 1. EU Cohesion Fund (~70%);
- 2. Jūrmala Municipality(~12%);
- 3. LLC "Jūrmalas ūdens"(~18%).



# Nanofiltration

Membrane filtration process used most often with low total dissolved solids water such as surface water or fresh groundwater, with the purpose of softening, sulphate removal, bacteria and viruses removal.

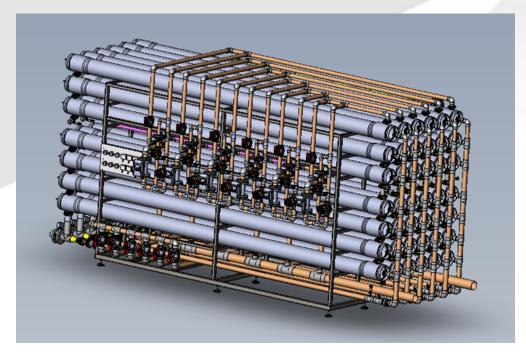


#### Municipal Water Treatment Project Jurmala, Latvia

- •2 water treatment plants:
- •Dzintari 240 m3/h (100 m3/h)
- •Kauguri 375 m3/h (200 m3/h)

Each plant recovery 80%

# Compact design





- •1 Skid
- •6 in 1 Plant
- •42 Vessels
- •216 Membranes

-04-13 Mon 09:37:55

NTU: On

NTH

Clean: Off 00.0 • C

3D Trasar Technology which optimises Nanofiltration performance







ALCO

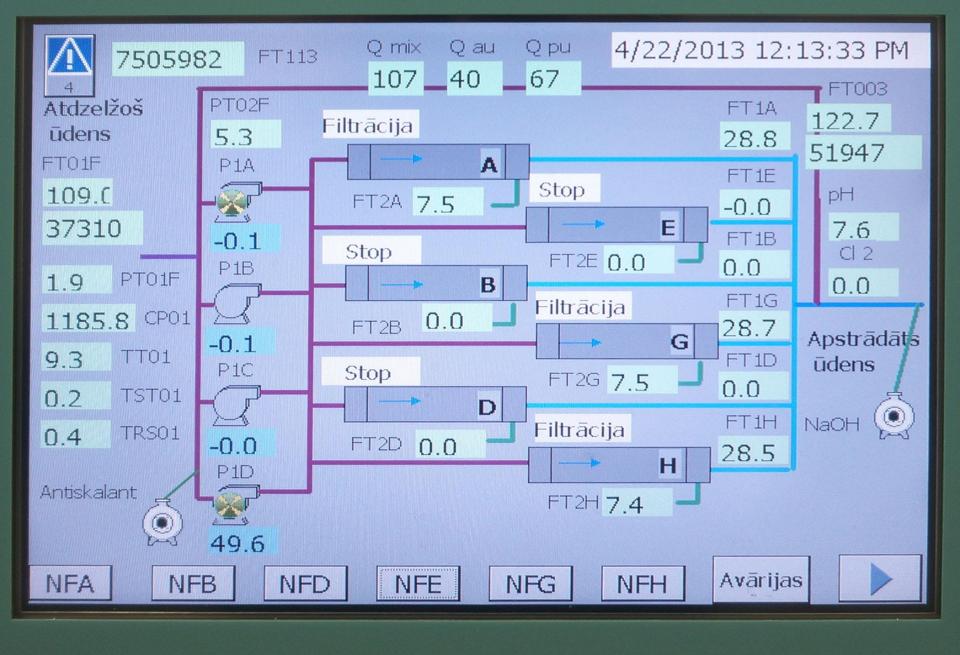
Essential Expertise for Water, Energy and Air 3DTRASAR

3D Trasar Technology which optimise Nanofiltration performance

Variable productivity of the plant (permeate production range from 25 to 200 m3/h)

The plant is integrated to existing Scada





F8

F3

F2

#### **Our partners:**



#### DZINTARI ŪSI

DZINTARI ŪSI

2









**KAUGURI ŪSI** 



# Thank you!