JURMALAS UDENS LTD

Jurmala, Latvia

NENUPHAR

SEWEGE SLUDGE MANAGEMENT AND USE IN AGRICALTURE IN LIELUPE RIVER BASIN

Bauska, Latvia
24th, of February, 2026

Jūrmalas ūdens

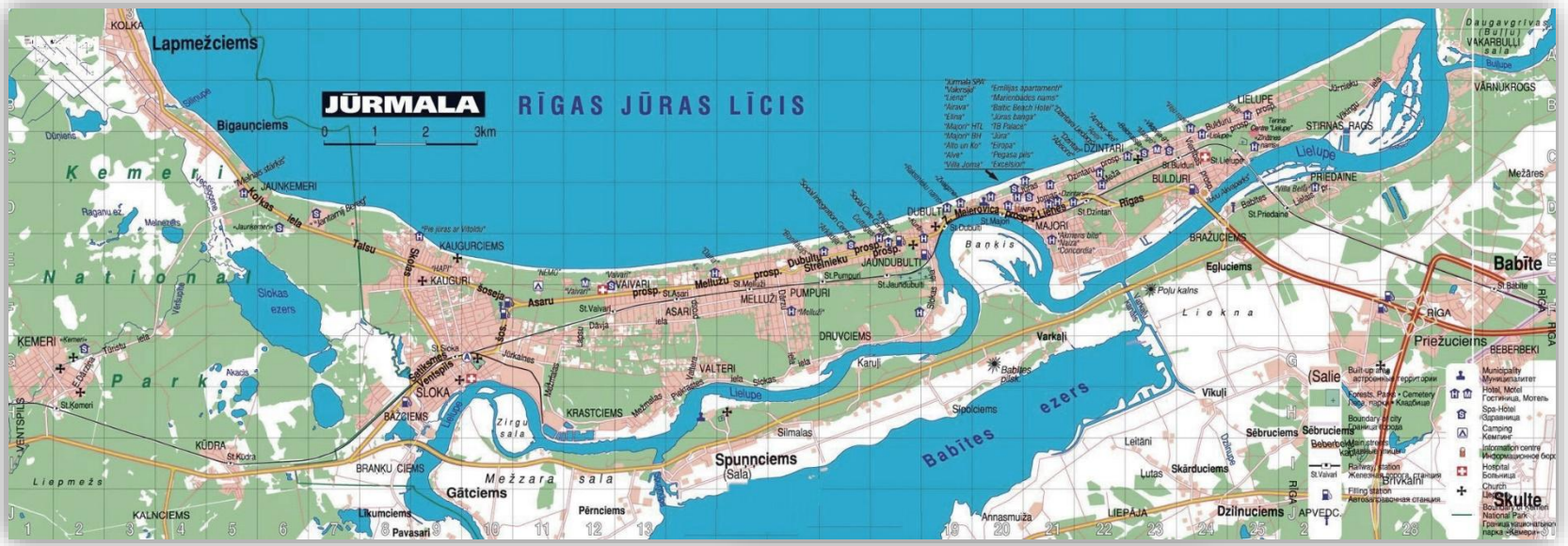
Interreg

Co-funded by the European Union

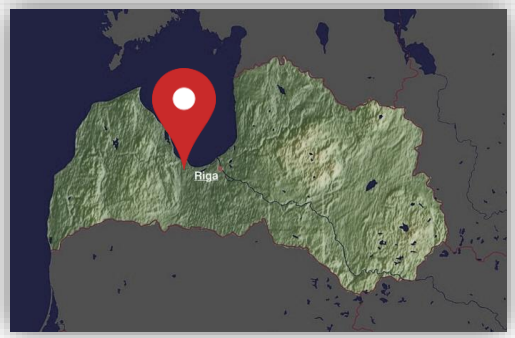
Central Baltic Programme

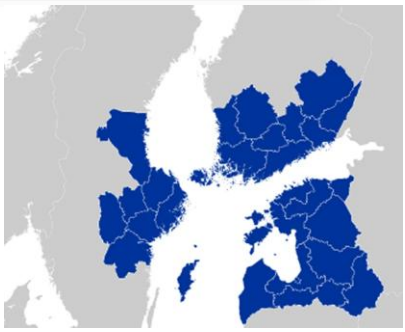
BalticPFASResolve

Jurmala



Resort city, 25 km West of Riga	
South – Lielupe River; North – Gulf of Riga	
Population (5th largest)	**57 653**
Area (2nd largest)	**100 km2**
Coastline	**24,2 km**





Jurmalas udens Ltd.
(100% owned by Jurmala municipality)

Water supply communications

- 317 km;
- 4 water preparation stations

Waste water sewerage

- Waste water sewerage 304 km
- Pressure sewerage 97 km

Decentralised sewer

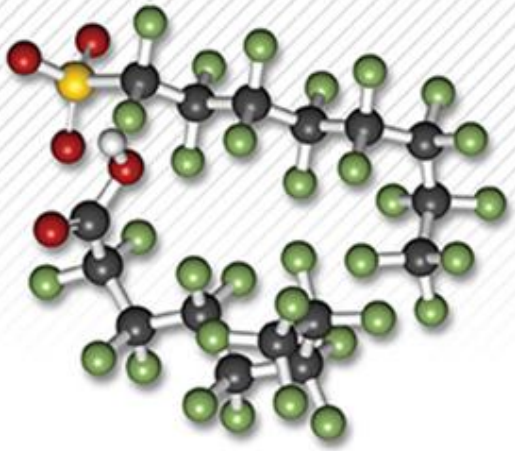
- Registered in 1813 addresses
- 42 233 m3 treeted in 2022

PFAS

PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES

RAINCOATS

MICROWAVE POPCORN BAGS



FIRE RETARDANT FOAMS

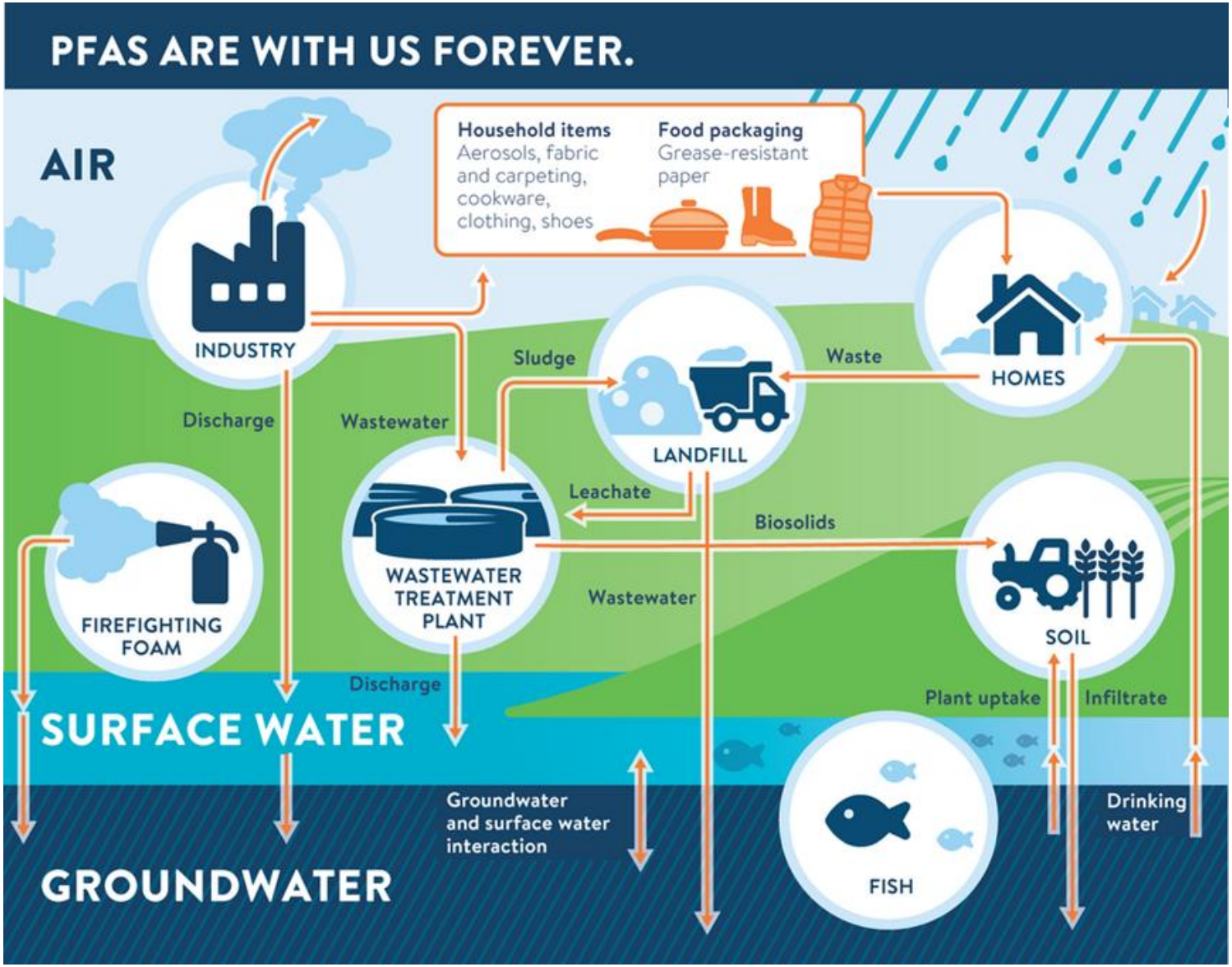
ELECTRONICS

FAST FOOD CONTAINERS

NONSTICK COOKWARE

PERSONAL CARE PRODUCTS

STAIN-RESISTANT CARPET


PFAS ARE WITH US FOREVER.
AIR
Household items
Aerosols, fabric and carpeting, cookware, clothing, shoes
Food packaging
Grease-resistant paper
INDUSTRY
HOMES
Sludge
Waste
Discharge
Wastewater
LANDFILL
Leachate
Biosolids
WASTEWATER TREATMENT PLANT
Wastewater
FIREFIGHTING FOAM
SOIL
Discharge
Plant uptake
Infiltrate
SURFACE WATER
Groundwater and surface water interaction
Drinking water
FISH
GROUNDWATER

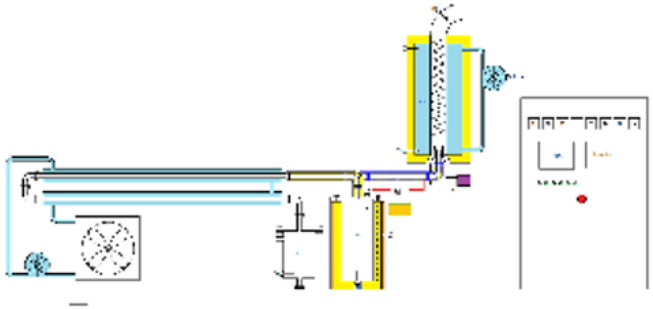
BalticPFASResolve tasks in Jurmala

Activity – Research of PFAS destruction during pyrolysis of sewage sludge. Installation of pyrolysis pilot plant at Jurmala (Sloka) WWTP in Latvia

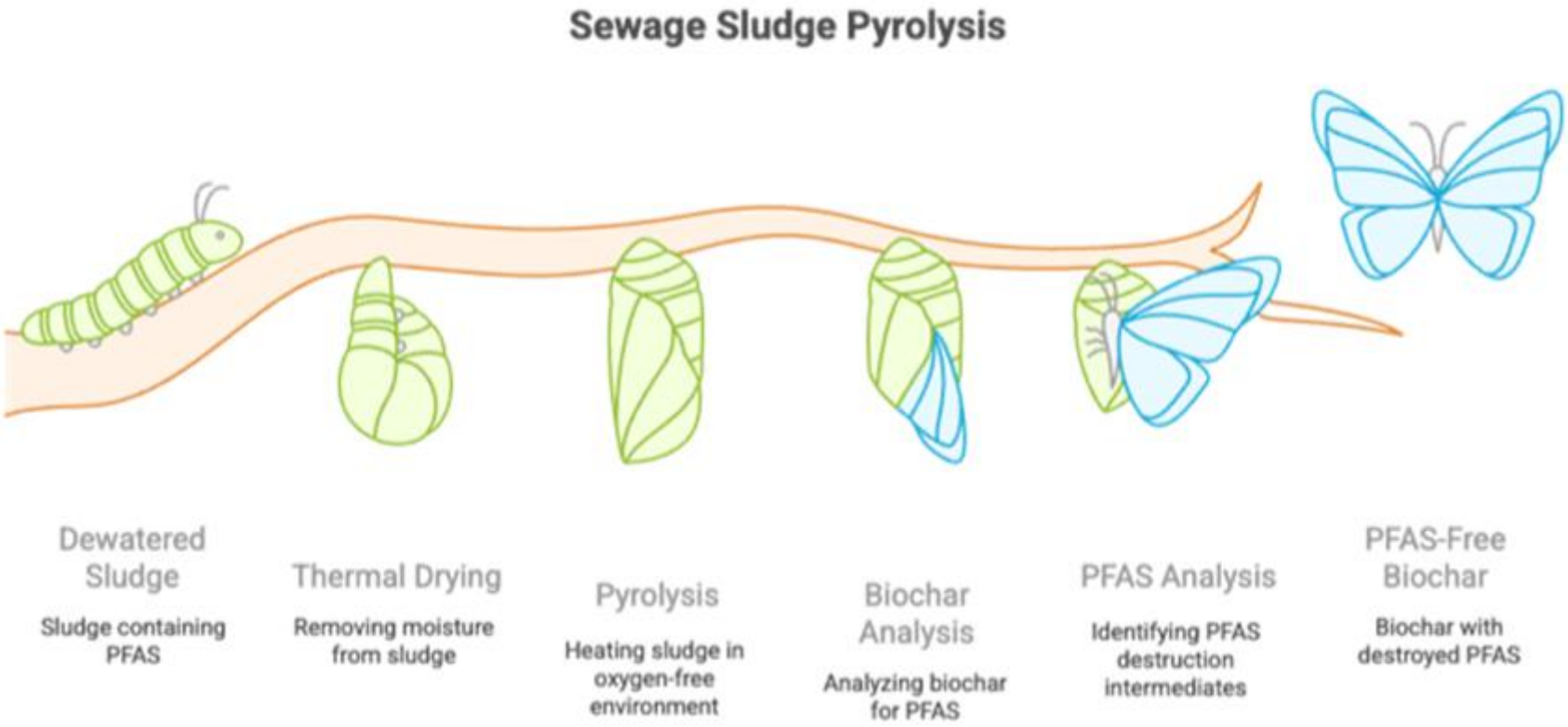
Main research object: Dewatered sewage sludge on Jurmala City WWTP and other WWTPs in the region

Activities:

- Designing of detailed program and eqipment set
- Set-up of representative sludge sampling program
- Installation of the drying/pyrolysis pilot plant at Jurmala WWTP
- Thermal drying of sludge samples, preparation of samples for pyrolysis
- Pyrolysis of samples at different process parameters
- Analysis of produced biochar samples
- Analysis of PFAS destruction intermediates in different process phases



Sloka Wastewater Treatment Plant pilotplace for PFAS survey in sludge


Sewage Sludge Pyrolysis
Dewatered Sludge
Sludge containing PFAS
Thermal Drying
Removing moisture from sludge
Pyrolysis
Heating sludge in oxygen-free environment
Biochar Analysis
Analyzing biochar for PFAS
PFAS Analysis
Identifying PFAS destruction intermediates
PFAS-Free Biochar
Biochar with destroyed PFAS

Thank you!

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