



European  
Benchmarking  
Co-operation



ΕΥΔΑΠ

# Sustainability: EU funded innovations in the field of wastewater

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# Nutrients recovery through reject water treatment



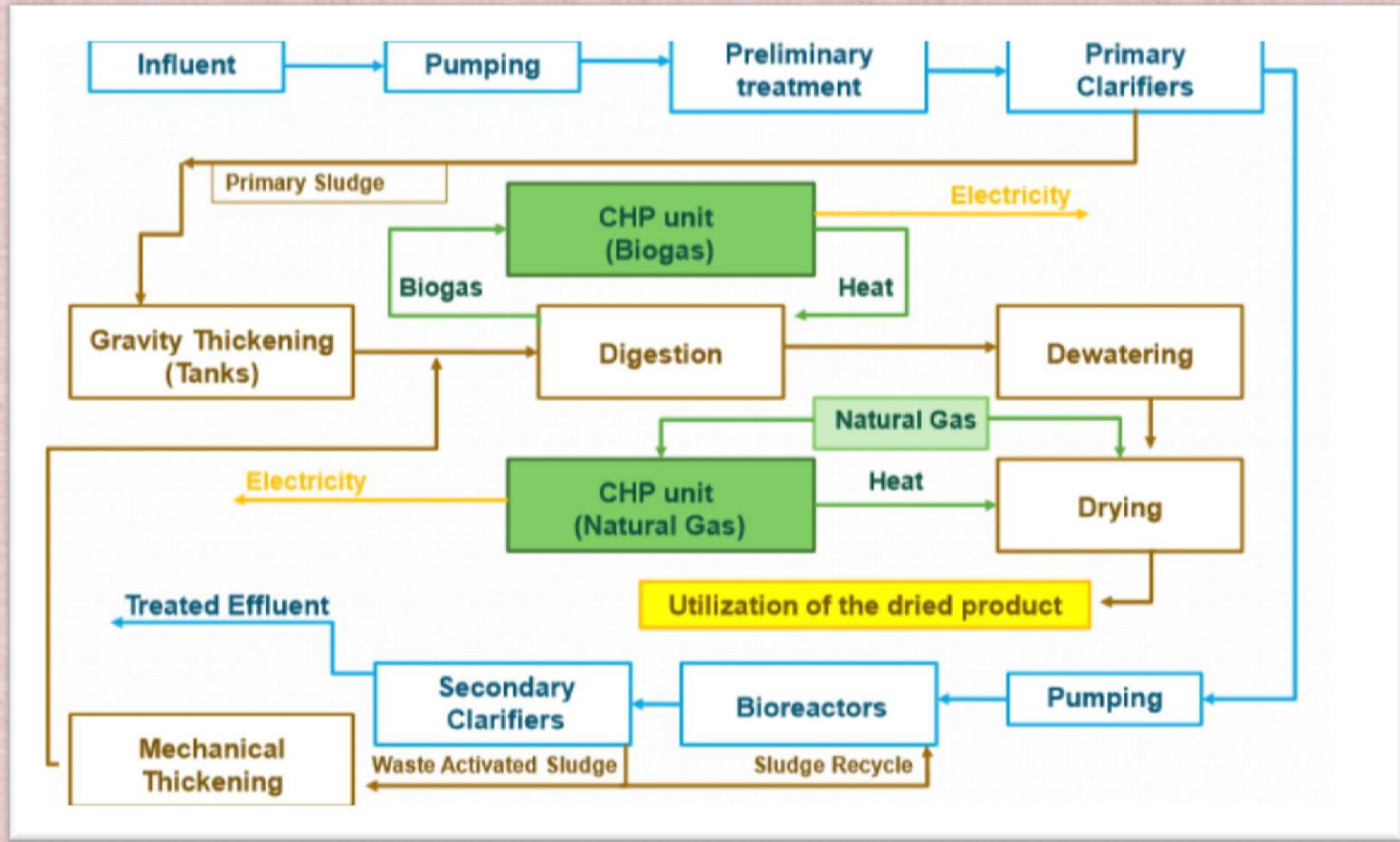
- Waste generated by water treatment for Europe currently amounts to more than 10 million tons per year = yearly costs of >€ 60 billion 25% of which is for nutrient removal.
- 15% of the UWWTPs do not comply with the requirements of the Urban Water Directive, while only less than 1% of UWWTPs is currently utilizing technologies for resource recovery of wastewater.

# A paradigm shift

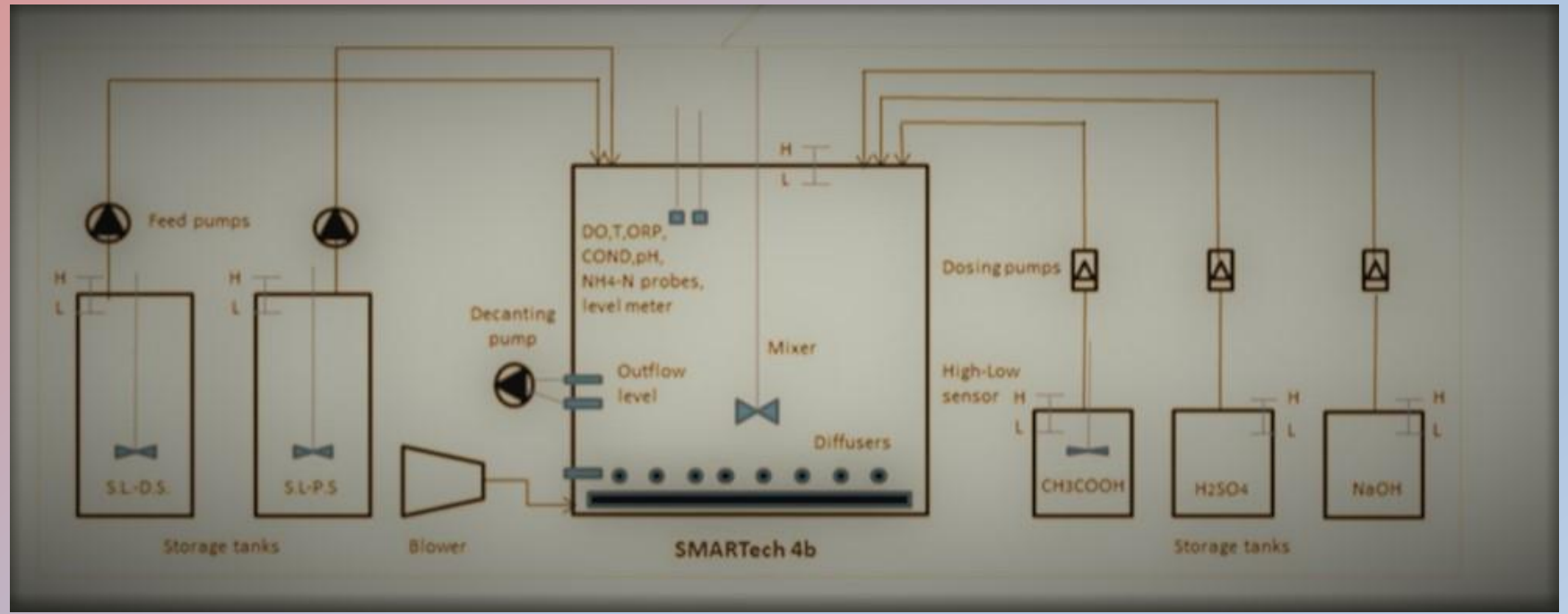


- wastewater streams as a waste to be treated
- This water resource is able to provide up to 80% of the need of freshwater
- medium for nutrients in the nutrients cycle
- wastewater organics can be upgraded to reusable material such as cellulose, methane or biopolymers

# Flow chart of Psyttalia WWTP



# Sequencing Batch Reactor



# And these are the EU funded programmes 'names

- Towards a **next generation** of water systems and services for the circular economy.
- **Scale-up of low-carbon footprint material recovery techniques in existing wastewater treatment plants (SMART-Plant)**
- **Development and Application of Novel, Integrated Tools for Monitoring and Managing Catchments**

