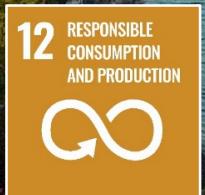
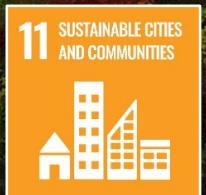


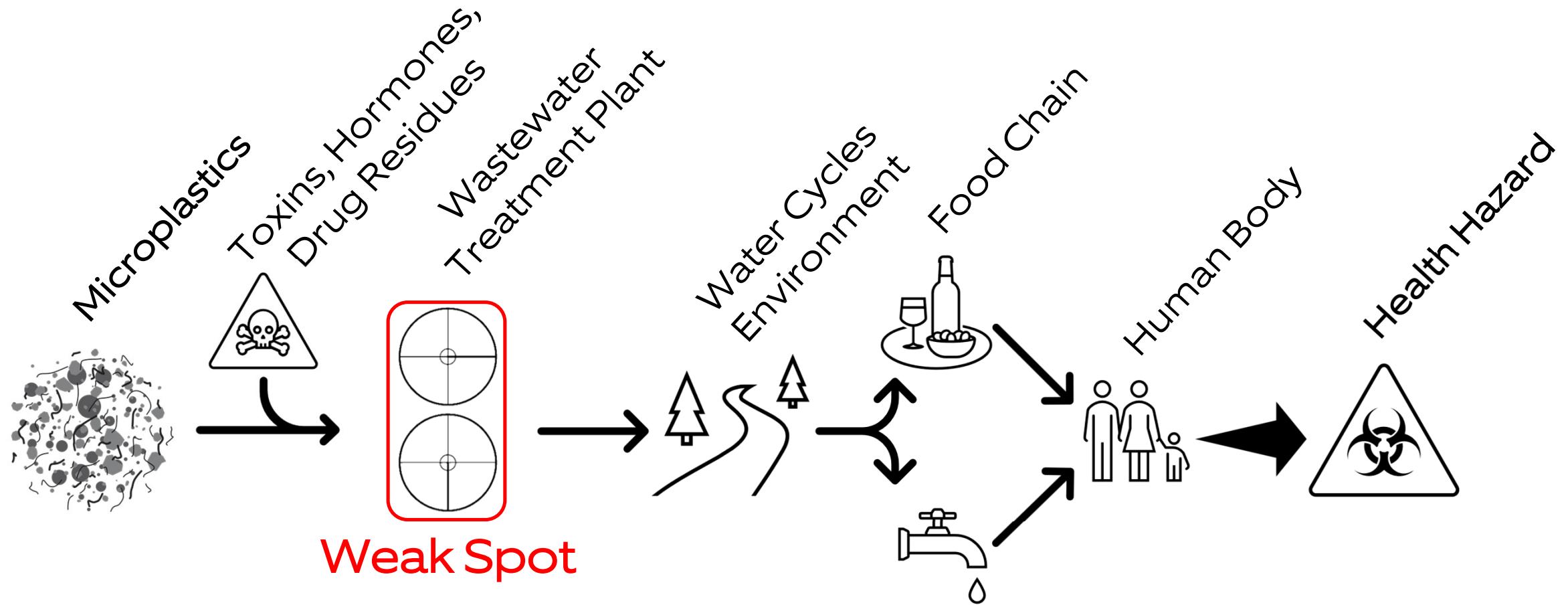


High-Efficiency Microparticle Filtration



The Problem

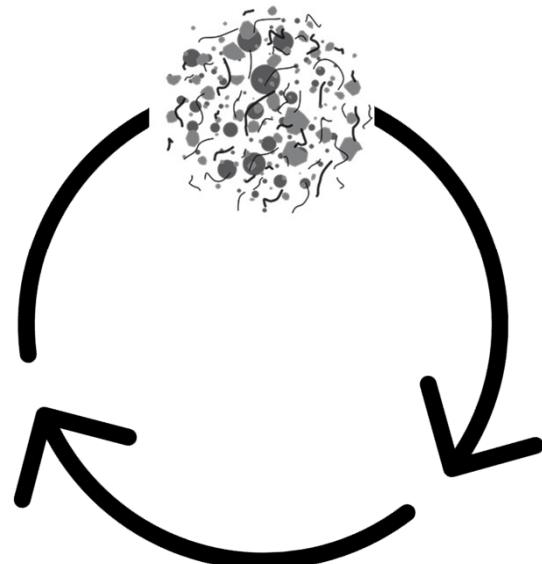
Microplastics in Wastewater = Macro Problem



The Problem / Process Fluids

Microplarticles in Process Fluids = Cost Driver

Microparticle-
Accumulation



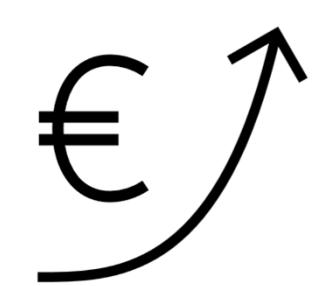
Processfluid Circuit

Lower Efficiency



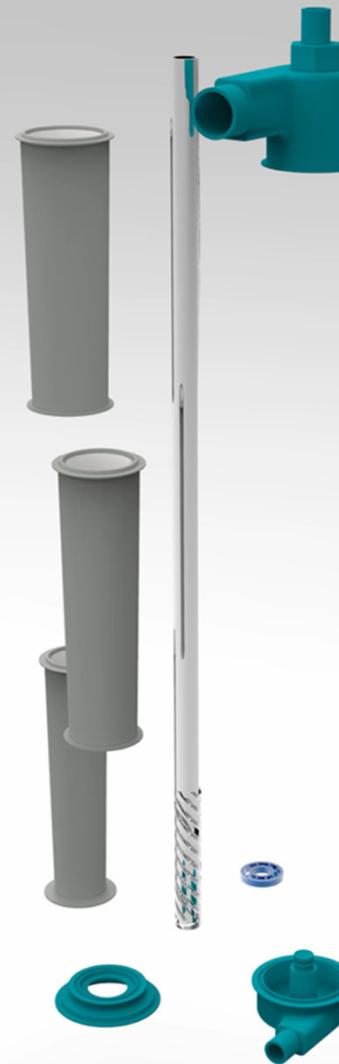
Higher
Purification Needs

Increased
Process Costs



The Solution

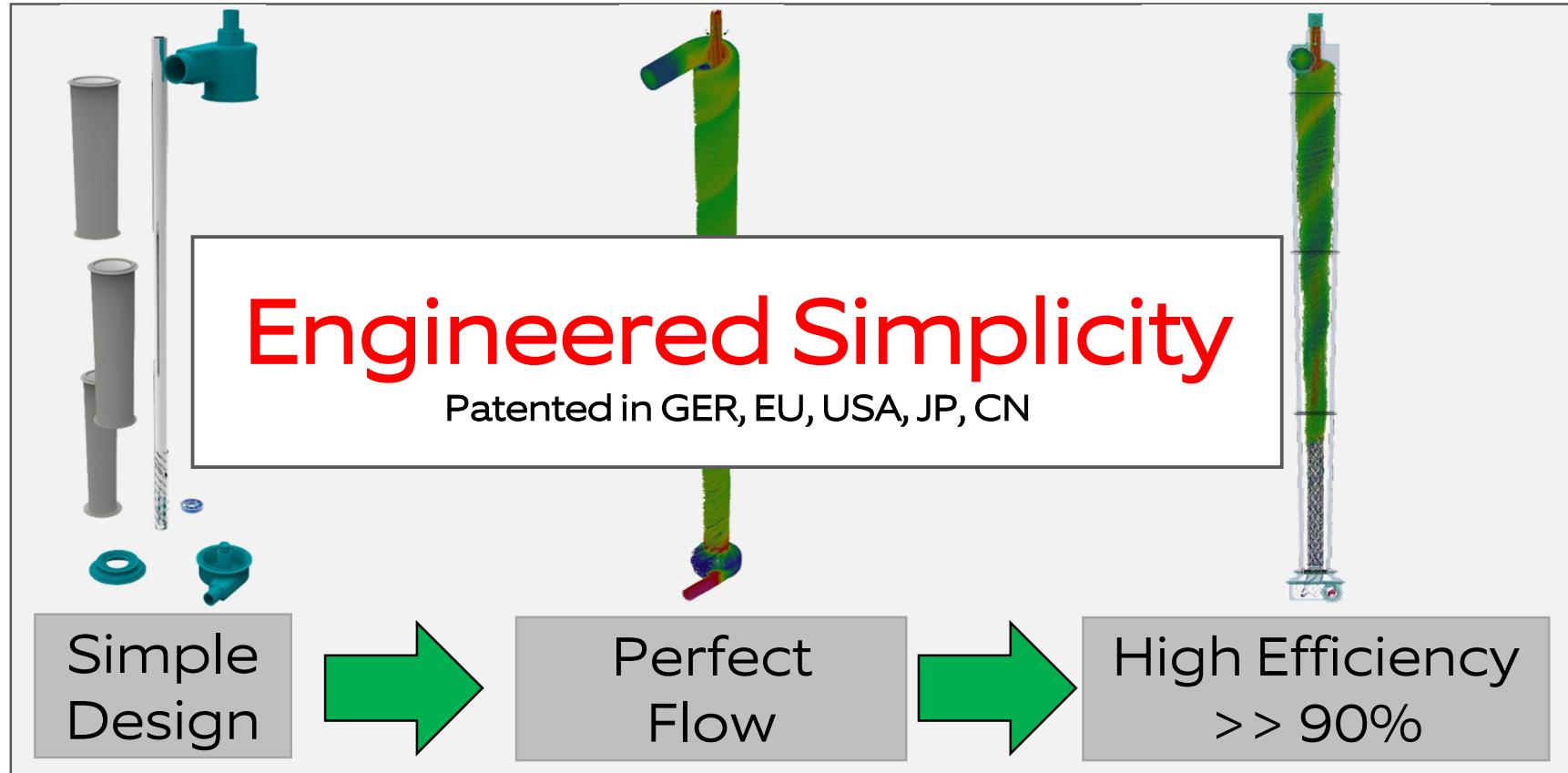
The
High-G-Separator



Only 9
individual parts!

The Solution

The High-G-Separator



No Filter, „ONLY“ Gravitation and Fluid Forces → Revolution!

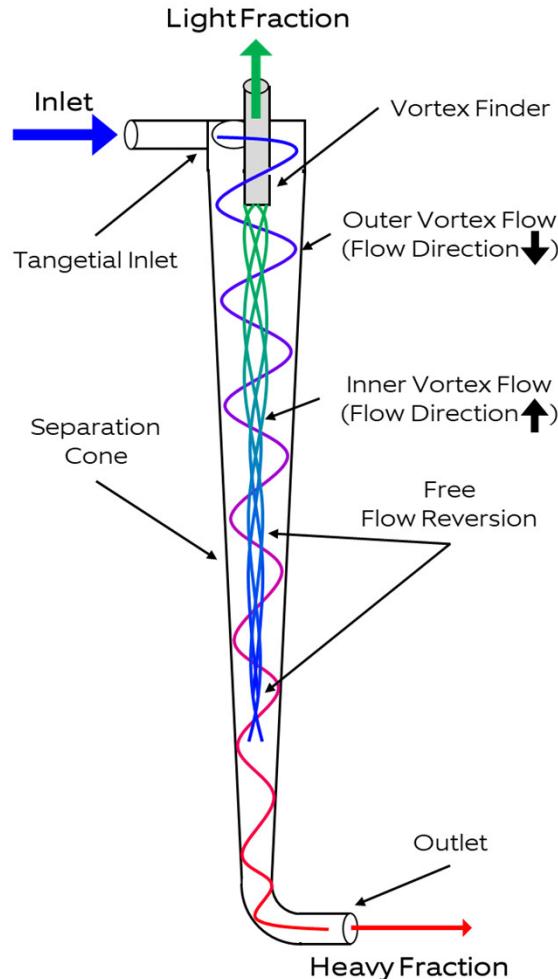
Performance Increase to State-of-the-Art: Factor 50!

TCO Reduction: 60-90%

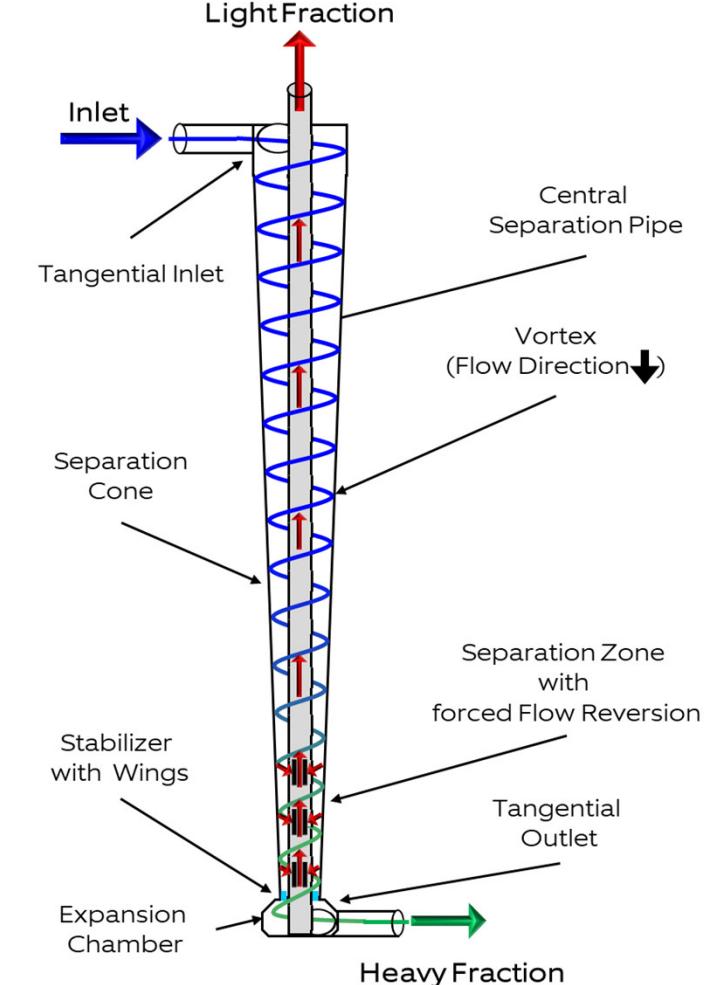
The High-G-Separator

The Revolution of the Hydrocyclone Principle

Conventional Hydrocyclone

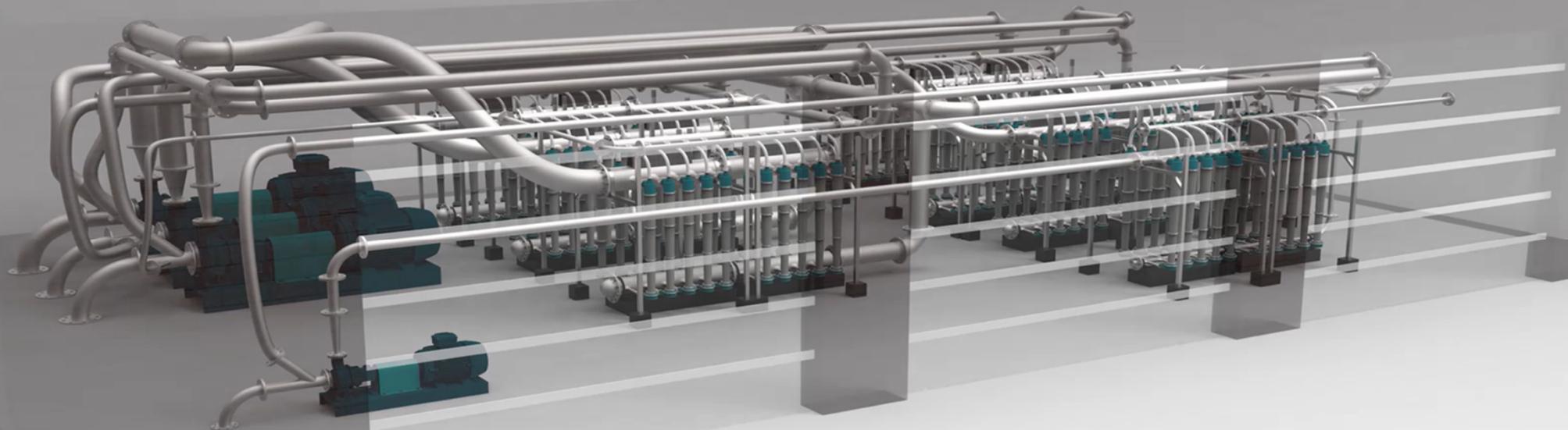


ECOFARIO Hydrocyclone



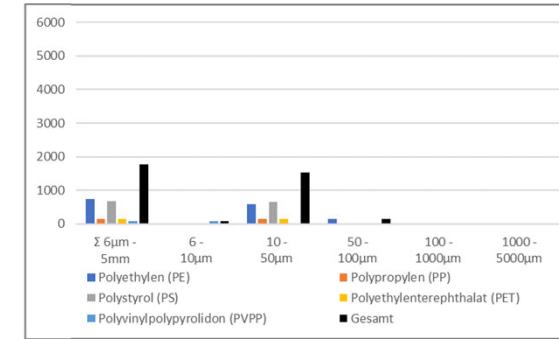
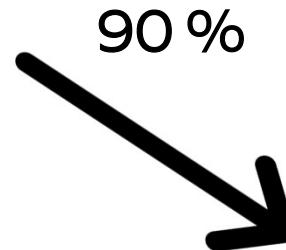
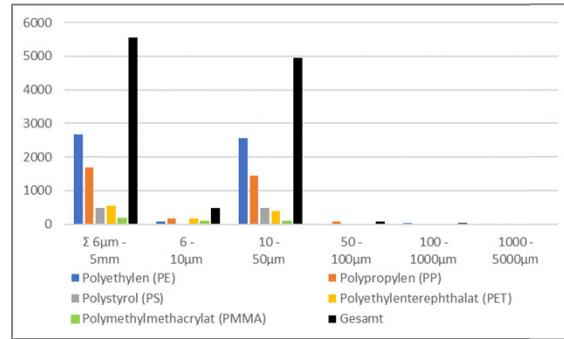
Significant Performance Increase:

The Product



Performance & Costs

Average Microplastic Separation Performance



Cost Calculation for a 150.000 PE Plant // ~ 10 mio. m³/a

CapEx	3.0 Mio €	Total Cost of Ownership*	~ 0.12 €/m ³
OpEx	890,000 €/a		
Service Costs	50,000 €/a		
Power Consumption	0.3 kWh/m ³		
Electricity Price	0.28 €/kWh		

*Depreciation over 10 years without interest.

Value Proposition

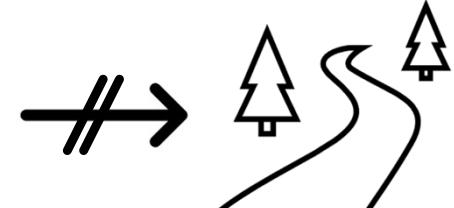
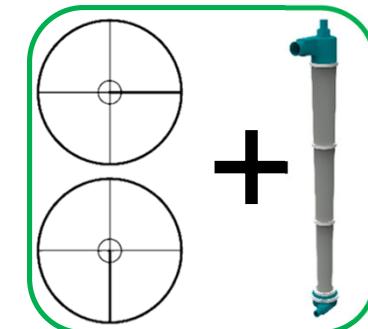
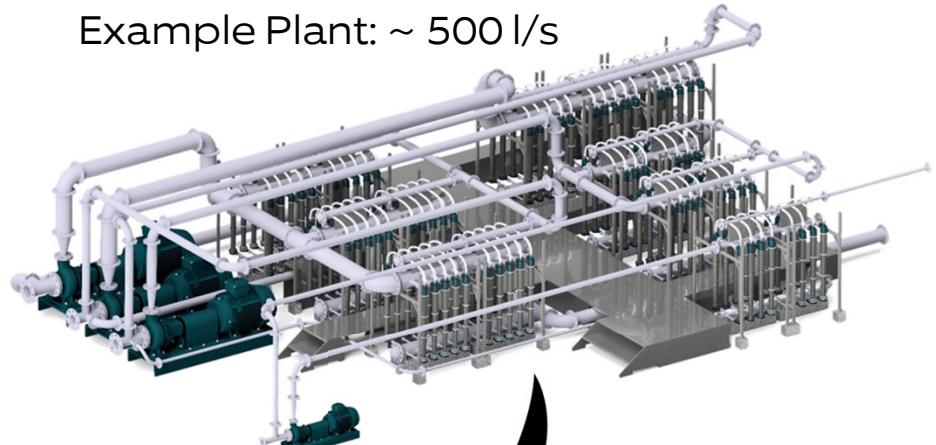
Supreme Technology
for Filtering
Microplastics & Pollutants
from Waste- and Processwater
at Very Low Costs.

Wastewater:
Positive Impact on
the Environment

Process Water:
- Quality Increase
- Cost Reduction



Example Plant: ~ 500 l/s



Strong Spot

Additional Fields of Application

The ECOFARIO Technology can be used
for ANY
Separation of Heterogeneous Fluid Mixtures

Pulp & Paper
Process Water

Oil Production
Oil-Water Separation

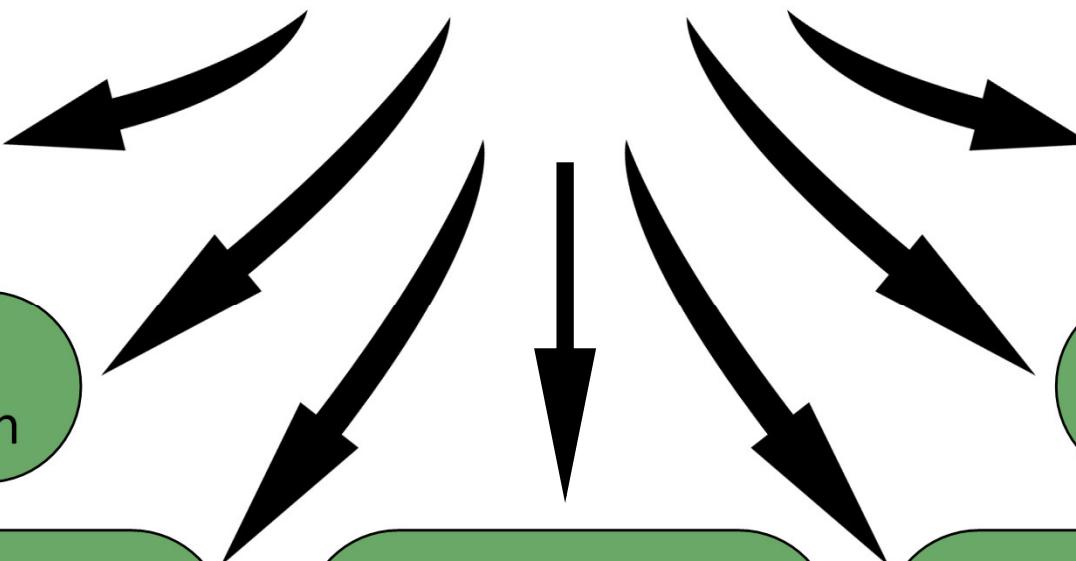
Oil Catastrophes
Oil-Water Separation

Aquaculture
Water Treatment

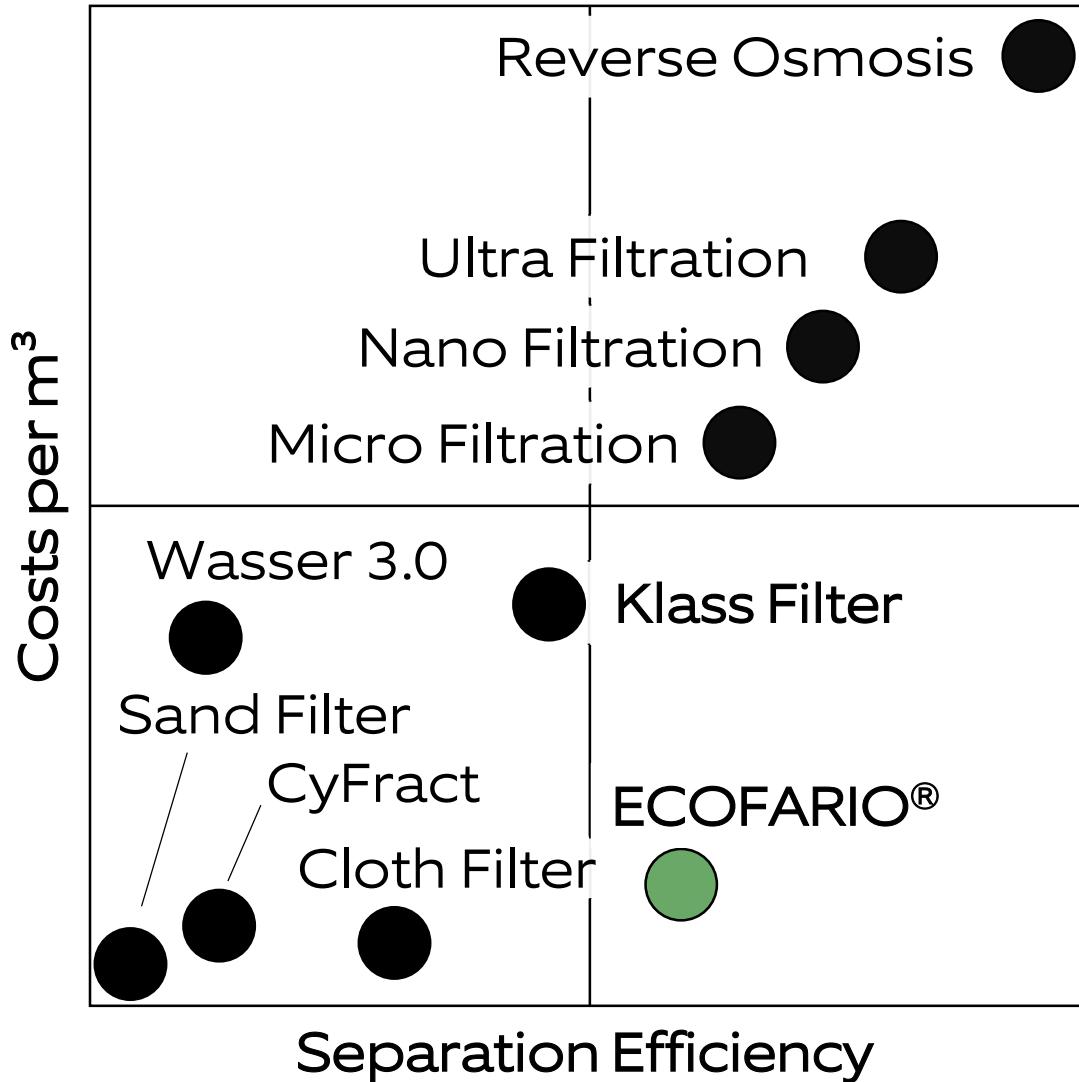
Bioscience
Organics Separation

Automotive
Paint Shop Waters

Desalination
Water Pre-Treatment



Competition



ECOFARIO USPs

- **No filter** (only gravitation and fluid forces)
- **Highly efficient** (>> 95%)
- **Low total cost of ownership** (- 60-80%)
- **Very low service costs** (no service needed)
- **100% scalable** (fits any customer need)
- **Low footprint** (fits everywhere)
- **Very robust** (no clogging & cleaning, wear)
- **Easy to operate** (engineered simplicity)
- **Fully automated and IoT-ready**

No Comparable Product on the Market

Current Situation

Mobile Pilot TRL 7

> 90% efficiency
during WW trials

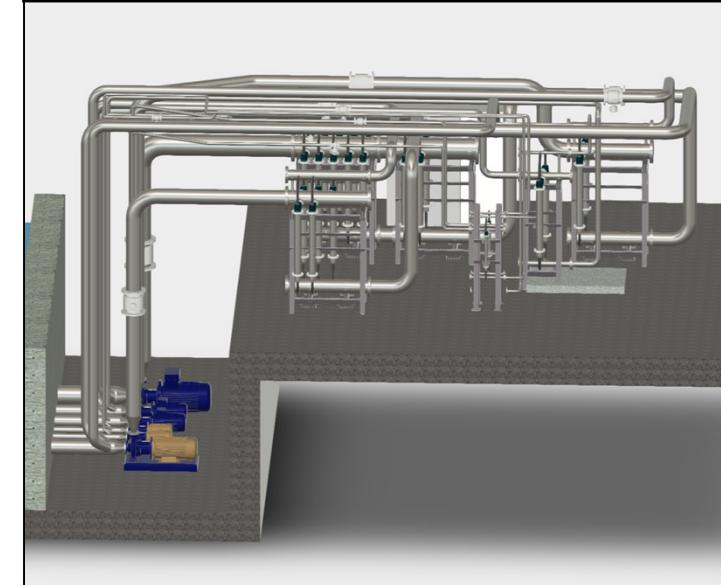


Fiber Recovery Unit Paper Industry 11/21



Microplastic Unit Municipal 10/22

15.000 PE
150 – 250 m³/h



Successful Market Entry in 2021



ECOFARIO



Awards & Nominations



Cooperations



München und
Oberbayern



Grants & Support

bayern  innovativ



Bundesministerium
für Wirtschaft
und Energie

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