

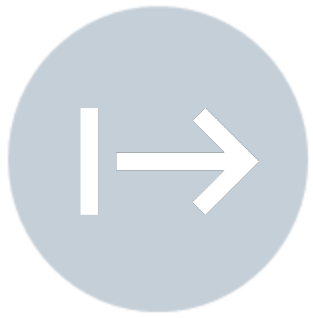


Innovative wastewater treatment technology for high quality water production



M E T f i l t e r

WATER AS AN SCARCE KEY RESOURCE



- Founded in 2014 as *spin-off* from IMDEA-Water and CENTA Foundation.
- Merging technology from two prestigious research organizations.
- Innovative low-cost solution for wastewater treatment.
- Production of high quality water for multiple applications.
- Electroactive high efficiency biofilters: METfilter® and METland®.





Innovation Award (2021) ISMET Society.



Innovation Radar SMART & SUSTAINABLE SOCIETY INNOVATION - European Commission (2020).



Global Innovation Award from the Ministry of Climate Change and Environment of the United Arab Emirates (Abu Dabi, 2020).



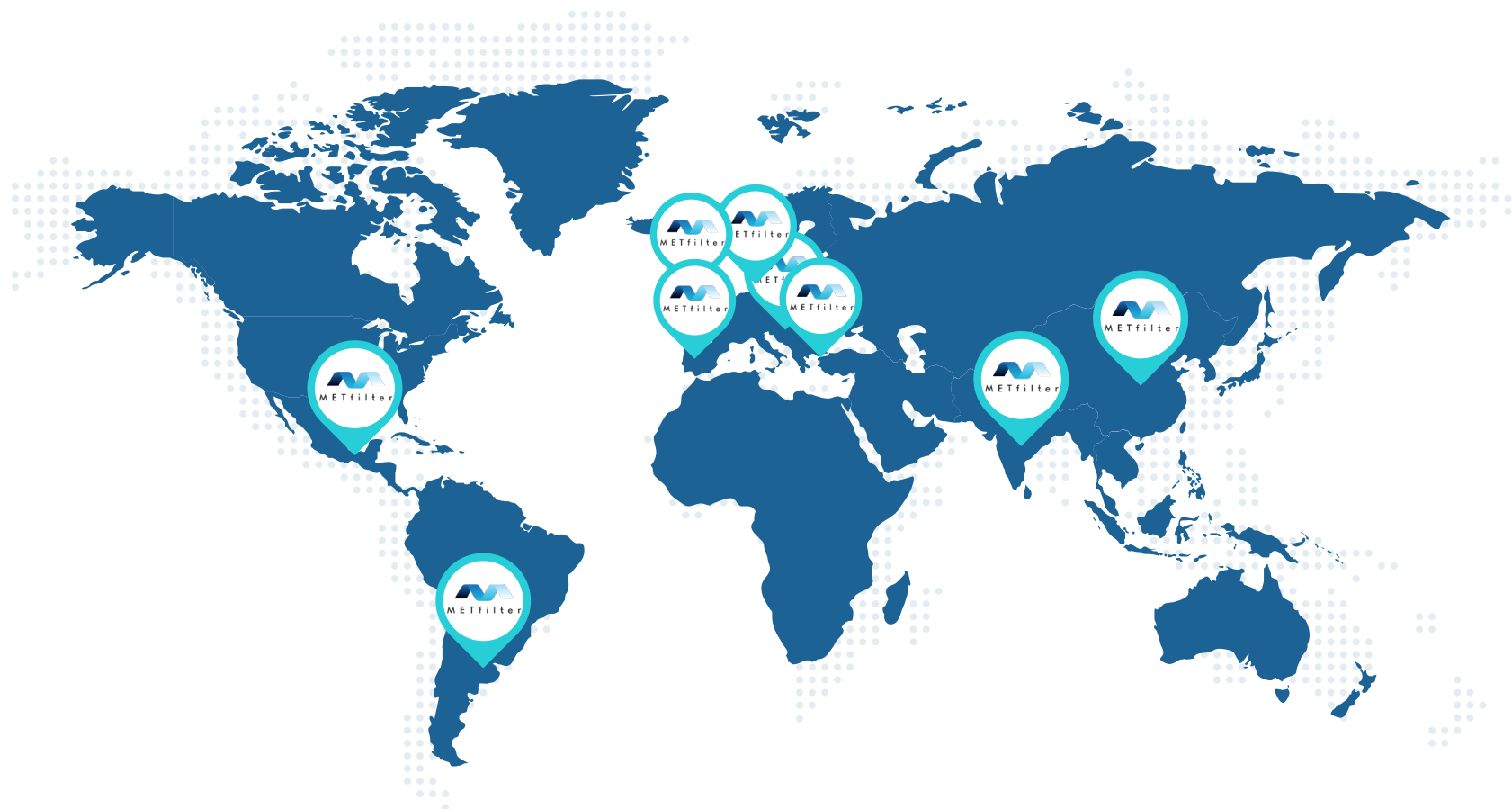
**Top 3 EU Biotech (2020)
(300 proposals evaluated)**

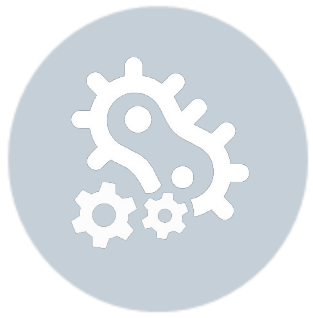


Best European Project. XI madri+d Awards (2016)

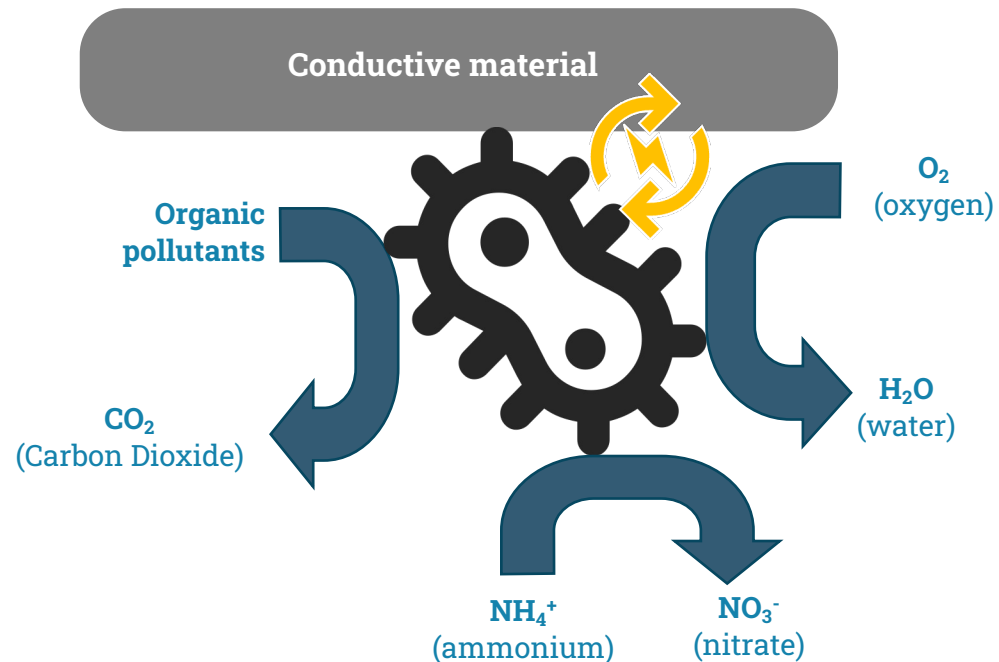




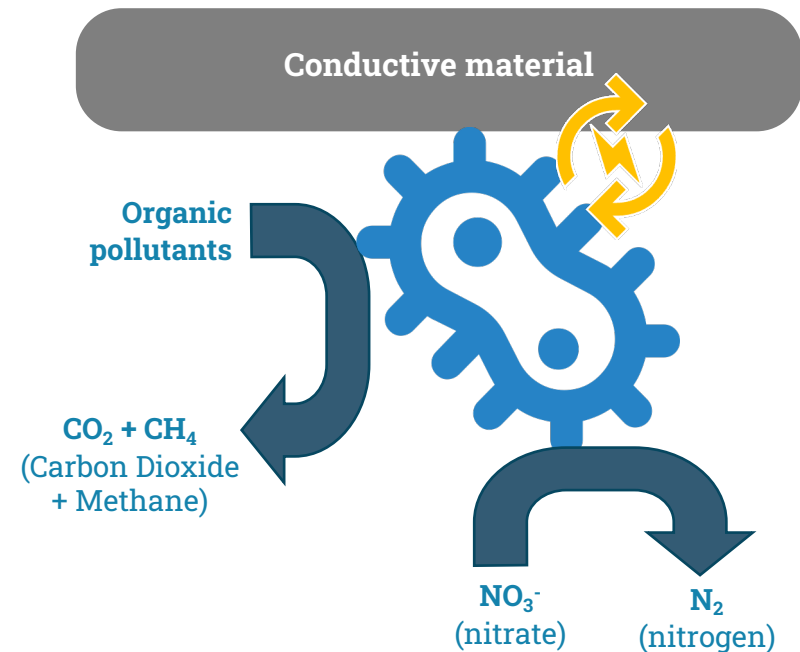




Nitrification and pollutant removal



Denitrification and pollutant removal

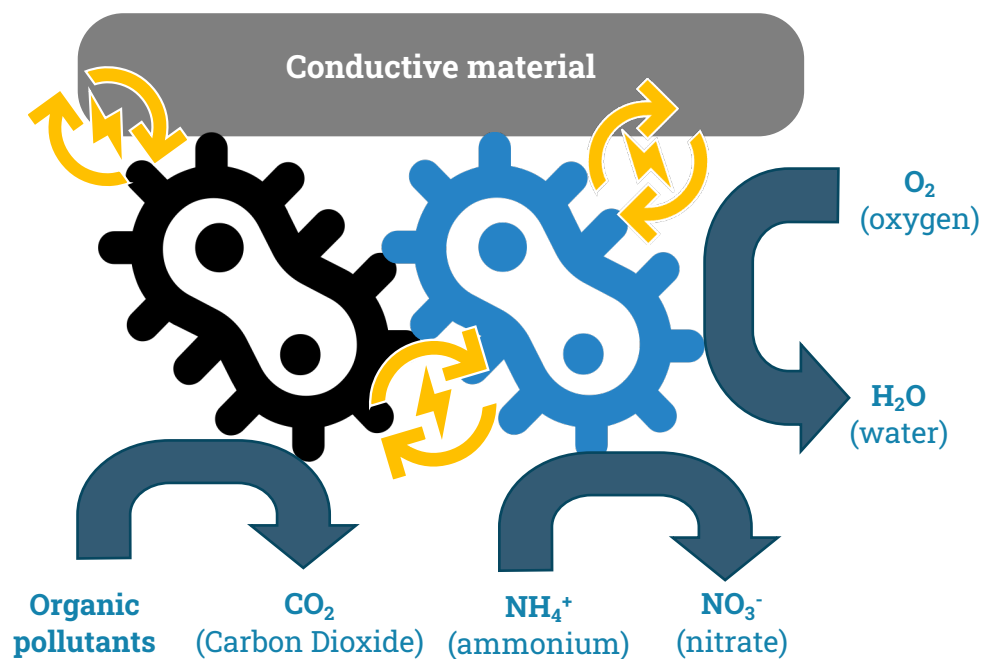


The electroconductive material stimulates the biological activity enhancing pollutant removal

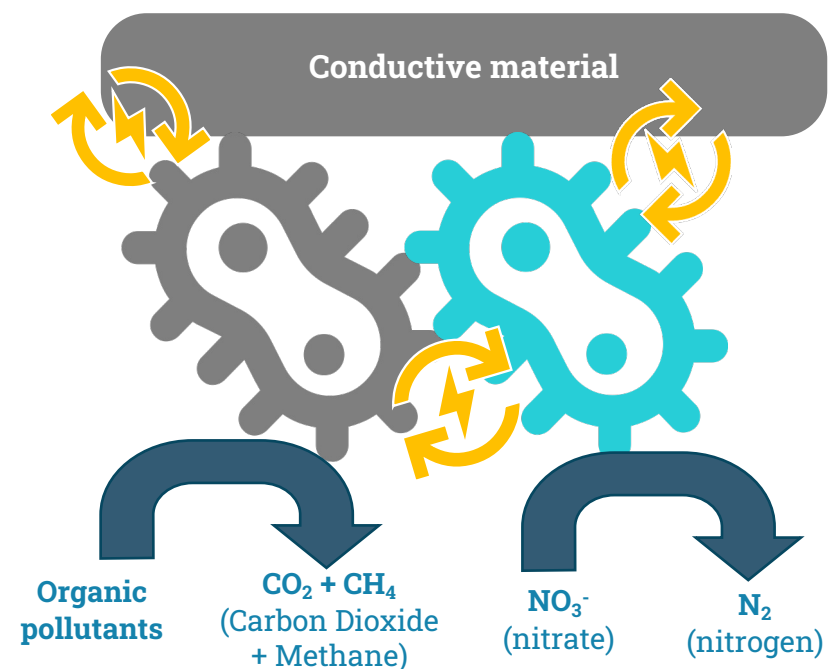




Nitrification and pollutant removal



Denitrification and pollutant removal



The electroconductive material stimulates the biological activity enhancing pollutant removal





Maximum pollutant removal

- >90% of COD removal ¹
- 10 times more efficient vs. conventional wetlands

Easy to use

- On-line full control of the process in your phone
- Easy to operate

Environmentally friendly

- No energy requirement
- Lower costs for water irrigation
- Landscape beautification with vegetation

Profitable business

- ~53% reduction of capital expenditure (CAPEX)
- ~57% reduction of operation expenditure (OPEX) vs. Conventional wetlands





No use of blowers (less energy costs).



No sludge production.



Easy to scale-up (modular technology with lower investment).



High efficiency per m² and low space requirement.



Energy savings.



Savings due to negligible OPEX.





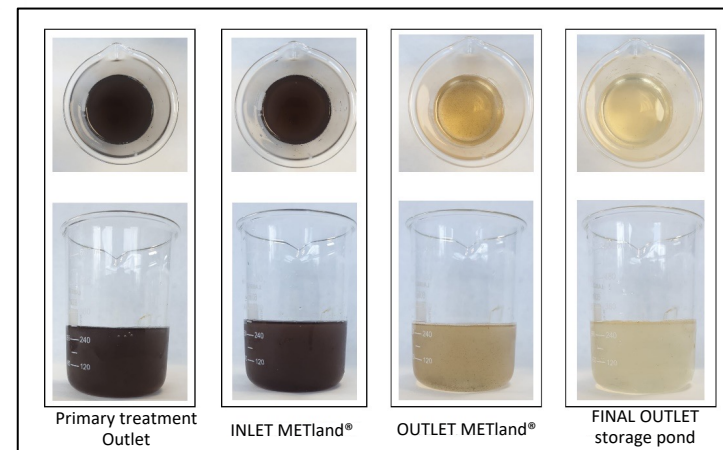
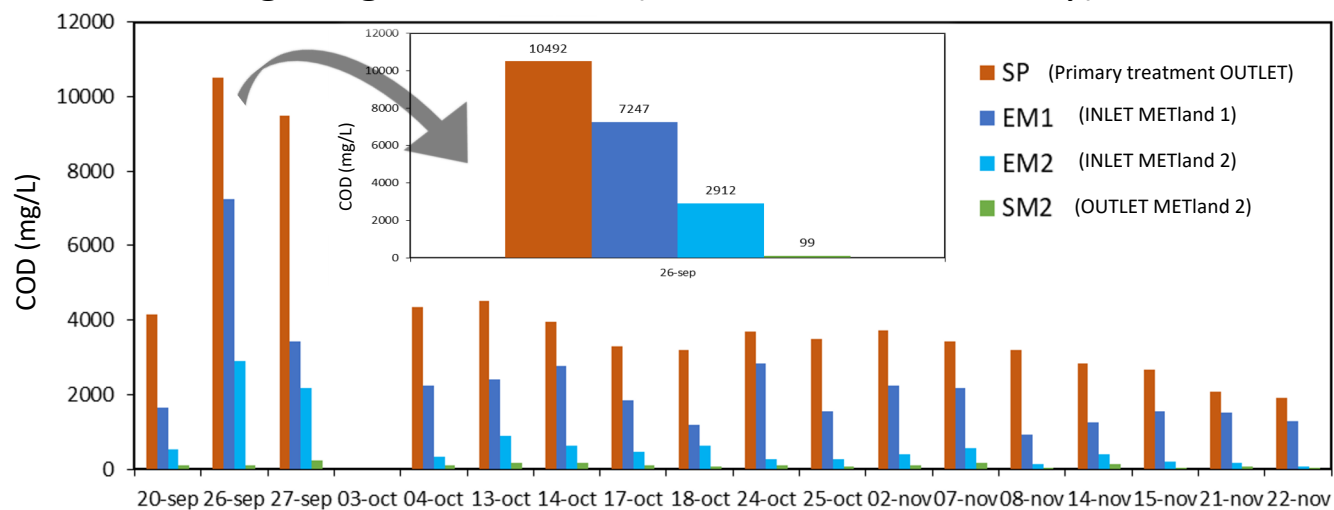
Delivery of an activated bed with a specialized biological community to treat your wastewater!





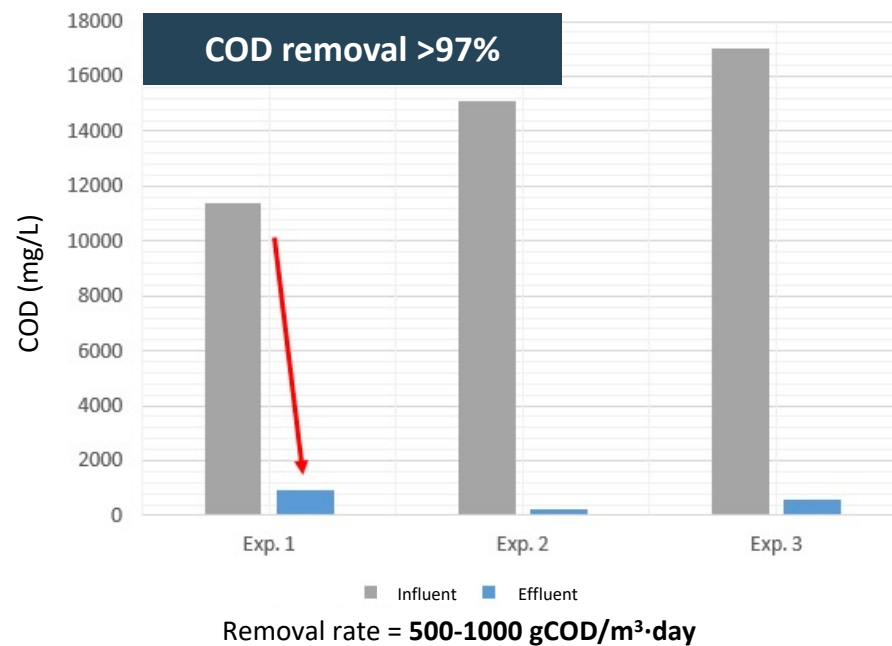
Organic compounds degradation in highly-polluted water streams

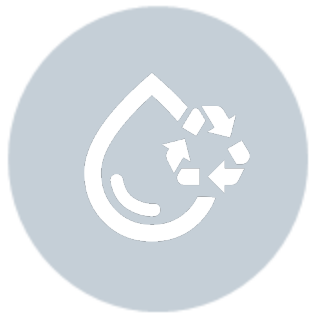
High organic content (effluent from a winery)





Proof of highly efficient removal of refractory organic substances (Oil & Gas industry)





Water quality on-demand for further reutilization (i.e. industrial processes, irrigation, etc.)



Possibility to attach plant growth
to beautify industrial areas!





Urban sector



Wine industry

Brewery



Diary Industry

Pharma industry



Oil & Gas

Solid Waste Treatment



METland® in Campsite at *Cabo de Gata- Níjar* Natural Park (Almería, Spain)
1.000 people (100m³/d)





METland® in wine industry (wineries)
Flow 136 m³/d | COD_{inlet} = 10.500 mg/L

Martín Códax

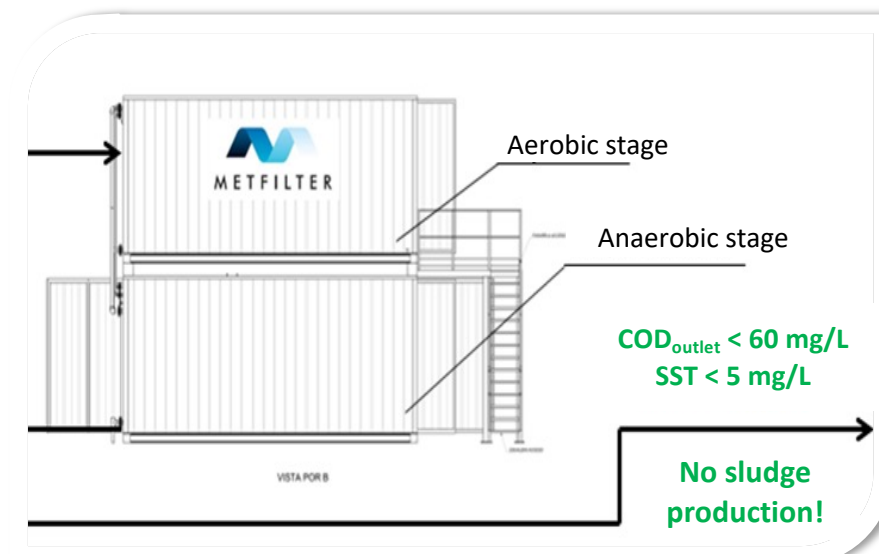
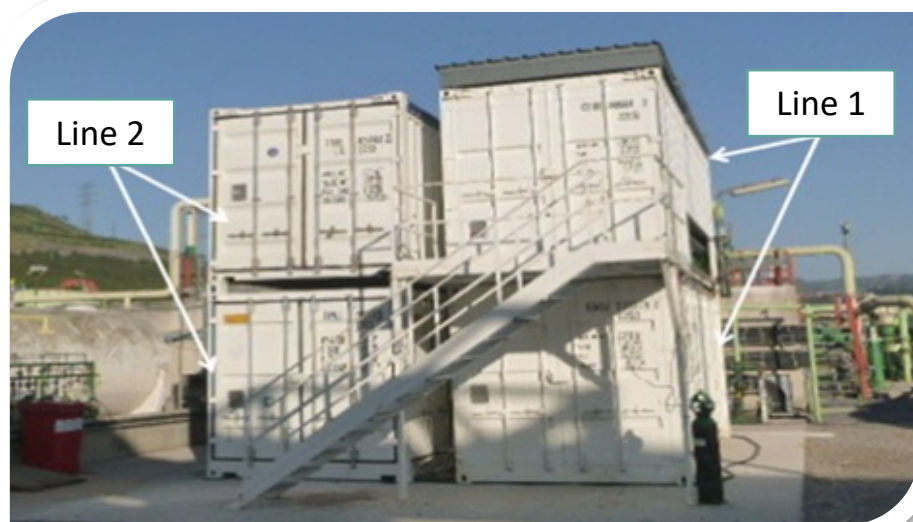


Helping wineries to meet environmental obligations in Spain, Portugal and France!



METland®

$COD_{inlet} = 600 \text{ mg/L}$ | $COD_{outlet} < 60 \text{ mg/L}$





Breweries

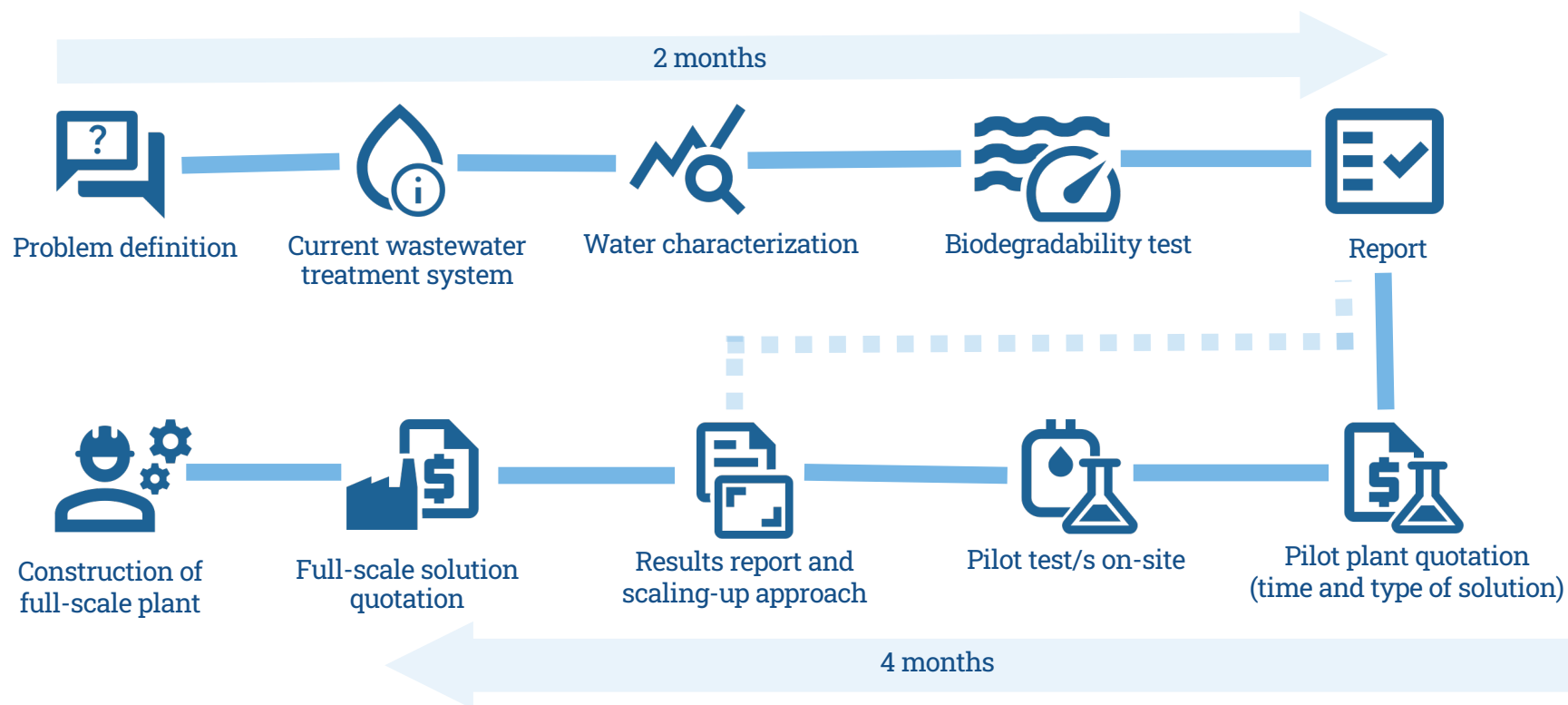


Pharma industry



Dairy industry







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