









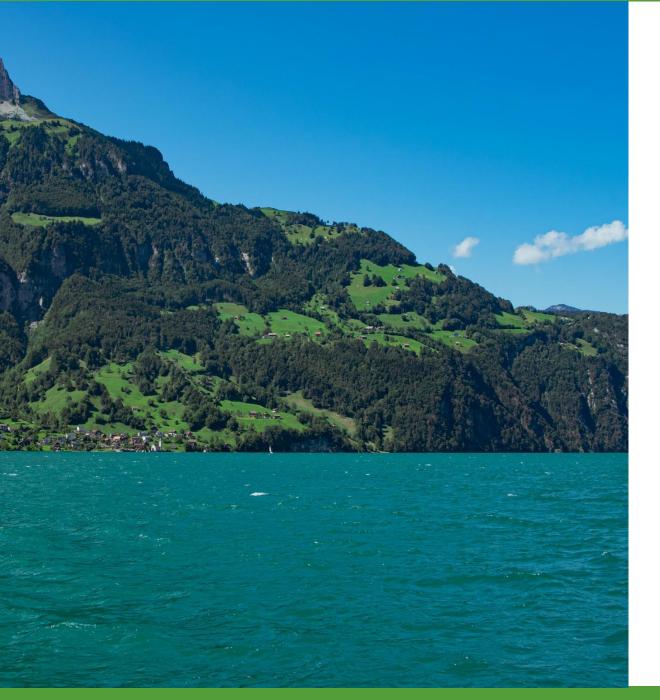


To be world leaders in protecting the health of our bodies of water.

Our Mission



Eliminate micropollutants at their source with our advanced technology.







Micropollutants

Pharmaceuticals Hormones Cosmetics Insecticides Chemicals



Non-biodegradable Bioactive Persistent



Infertility Carcinogenic Toxic



The Guardian

The 'forever chemicals' fueling a public health crisis in drinking water

PUBLISHED FEB 03 2020 • 10:00 GMT

SWI swissinfo.ch

Banned pesticide found in Swiss drinking water

PUBLISHED FEB 06 2020 • 12:00



Swiss groundwater quality threatened by pollution



US drinking water widely contaminated with 'forever chemicals': Report

PUBLISHED JAN 22 2020 • 06:34



Chemicals in the Environment Could Be Reducing Sperm Count Significantly

AXIOS

|| Falling sperm counts could threaten the human race

PUBLISHED FEB 24 2021

PFAS cost to EEA health estimated at up to €84bn - report

28 March 2019

Nordic Council of Ministers project looks at workers and general population



ETH zürich

Fajer Mushtaq, Oxyle AG

07.09.2022







Micropollutants

Pharmaceuticals Hormones Cosmetics Insecticides Chemicals



Non-biodegradable Bioactive Persistent



Infertility Carcinogenic

Toxic



New stringent discharge regulations



Industries, wastewater treatment plants



Lack of effective treatments







Incomplete pollutant removal & Environmental release



New advanced wastewater treatment market:

> €100 Billion, CAGR: >12%



Spin-off **ETH** zürich

Fajer Mushtaq, Oxyle AG

07.09.2022

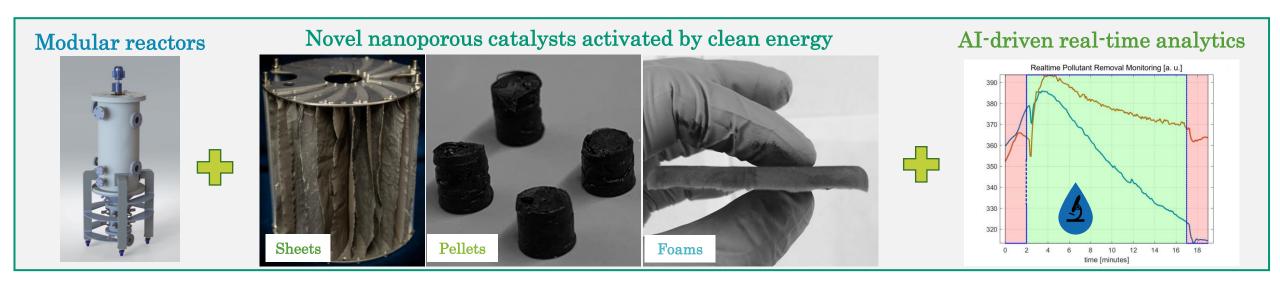


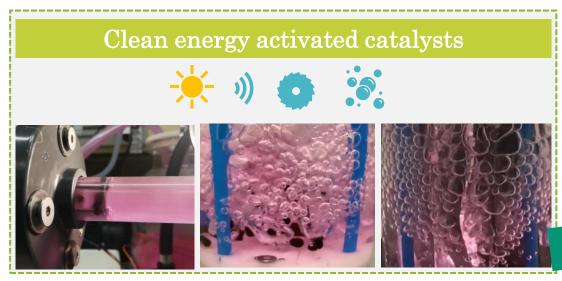
Oxyle's technology



Our wastewater treatment technology







Catalytic oxidation-driven treatment Pollutants •OH radicals 2 Patents Filed Clean water

On-site paid pilot at a Swiss municipal wastewater treatment plant

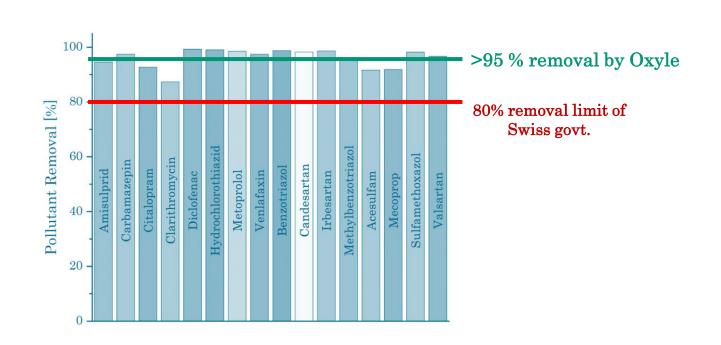


Goal:

Remove 80% of micropollutants from their effluent → comply with Swiss Water Act, 2014

Results:

- ✓ >96% removal of all micropollutants found in WWTP's effluent
- ✓ Complying with Swiss govt. regulations







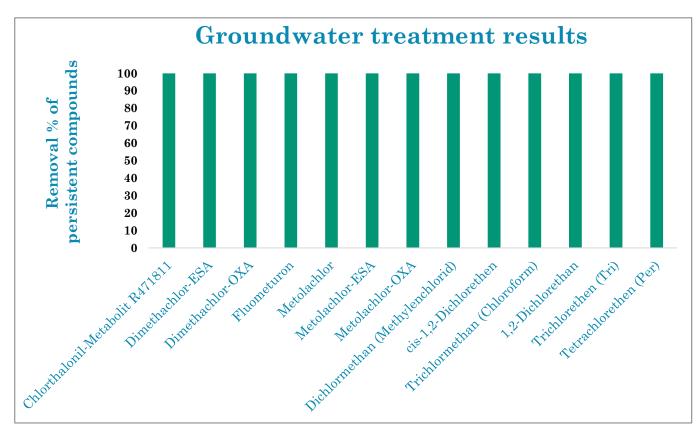
PFAS contaminated groundwater treatment pilot

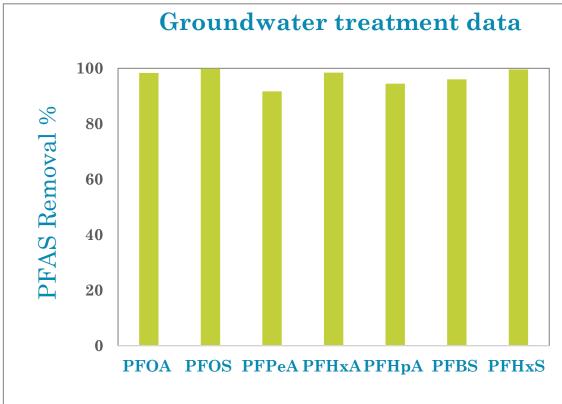


Goal: Remove total PFAS from groundwater by >80%, Bonus: target pesticides and anilines during treatment as well.

Results:

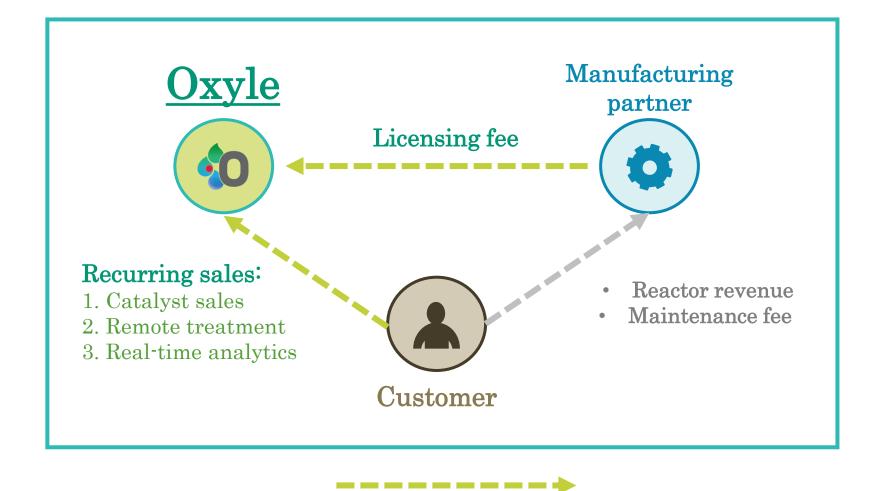
- ✓ 97% removal of total PFAS from contaminated groundwater to >1 ng/L (detection limit)
- ✓ Complete removal of pesticides, anilines, and VOCs as well





Business model

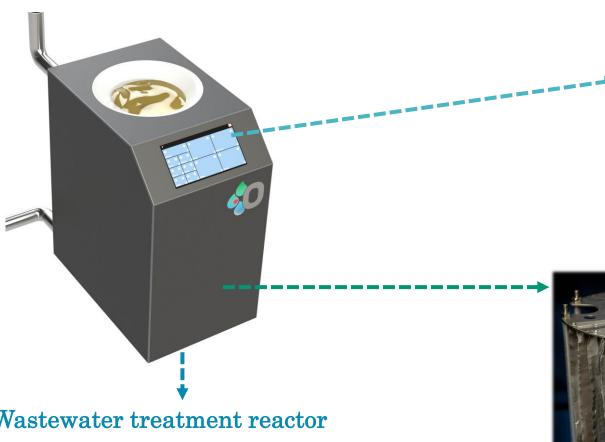




Oxyle's revenue streams

Our product & services





3. Water analytics

- Real-time water quality monitoring provided by Oxyle.
- Data analytics provided on cloud.
- Recurring analytics services.

2. Oxyle's catalyst

- Production managed by Oxyle.
- Replaced during regular maintenance visits.
- Recurring catalyst sales for Oxyle.

1. Wastewater treatment reactor

- Produced & installed by our manufacturing partner (MFP).
- Oxyle gets licensing fee from MFP.



Our track record



Customer pilots >10 pilots



Crop





Chemical

companies

R&D labs



Food & beverage company



Medical equipment company



WWTPs

Non-dilutive funds

4.1 **M€**

















BRIDGE



WISSENSCHAFT.

BEWEGEN







TRL 7: 2021

Market entry: Q3 2023

140 M€ revenue: 2026



Team

 $3 \rightarrow 16$

2020 2022







Our team

Team





Dr. Fajer Mushtaq CEO, Co-founder

- 11v wastewater treatment
- PhD, advanced catalysts
- Business development
- Financial management
- Customer management



Dr. Silvan Staufert CTO, Co-founder

- 13v micro- and nanotech
- PhD, micro & nanosystems
- Systems & processes
- Technical implementation
- Supply chain.



Dr. Akram Rahimi Materials & app. eng.

- 11y micro- and nanotech
- PhD, Nanochemistry
- Catalyst scaleup
- AOP Applications



Dr. Farrokh Baheri Prod. Dev.

- 11y micro- & nanotech
- PhD, Mech. Eng.
- Prod. dev. batch design
- Industralisation
- Prod. specifications



Raphael Kaeslin Prod. Dev.

- 6y Mech. Eng.
- MSc. Mech. Eng.
- Design & simulations
- Prod. dev. flow-through
- Prod. specifications



Dr. Roman Lyubimenko Water analysis

- 7y Water treatment
- PhD, water analytics
- Water quality analysis
- Reaction kinetics
- Analytics platform



Anik Dutta Process dev.

- 12y water eng.
- Masters in Water Eng.
- Pilot implementation
- CAPEX/OPEX estimations
- TEA and LCA



Liudmyla Feurstein Marketing & Strategy

- 17y Marketing
- Market research
- Business strategy
- Marketing management



Dr. Marcus Hoop **Customer Outreach**

- 12v. Strategy
- Pricing strategy
- Client acquisition
- Logistics



Ramune Bauer HR Manager

- 14+ y HR exp.
- Recruiting
- Admin
- Finances

Advisors





Christoph Heidelberger

- 25+y Startup growth
- Business dev.
- Market entry
- Team dev.



Pascal Dutheil

- 15+y SME financing
- Business plan
- Financial advisor
- Investor relations



Virginie Kolovos

- 25+y Market strategy
- B2B customer acquisition
- Commercialization strategy
- Market segmentation & growth



Carlos Fernandez-Jauregui

- 35+y Wastewater industry
- Director of WASA-GN
- G2M strategy
- Certifications & qualifications
- Product development



Rik Segers

- 20+y water industry.
- Business strategy
- Partnerships & Pilots
- Customer acquisition



Cynthia Nadal

- 20+y Fintech VC Investor
- Board dev. & governance
- Financial planning
- C-level leadership



Pol Bidminger

- Cleantech expert
- Sustainability biz dev
- Comm. strategy
- Customer outreach



Prof. Markus Boller

- 35+y wastewater industry
- Process dev.
- Industrial engineering
- Customer contact



Prof. Bradley Nelson

- Serial entrepreneur
- 30+y Mech. Eng. expert
- Growth strategy
- Financial advisor



Prof. Salvador Panè

- 20+y chemistry
- Nanomaterials expert
- Catalysis expert
- Tech. advisor





