

qcoat

Maker of
Selective Performance Membranes

qCoat GmbH, Leipzig, Germany

Industriya • Investors Pitch • Sep 2023

qcoat

strictly confidential

Membrane Filters

omnipresent across many industries

picture credits: 3m.com, evoqua.com

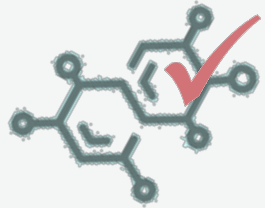


identified by European Commission as **key enabling technology**

Problem - Our Solution

standard membrane filters turn target selective

- current biotech liquid processing technology impedes breakthrough of **antibody & protein mass production**
solved by target **selective** purification
- **operating** membrane filters **is energy intensive**
solved by high **performance** membranes
- **water body** increasingly burdened with **micropollutants**
solved by target selective **degradation**



Technology Platform for Membrane Functionalization

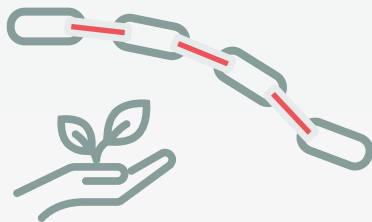
qCoat's patented electron beam grafting



fast electrons
penetrate membrane

active area
20x

lifetime solution



eco friendly

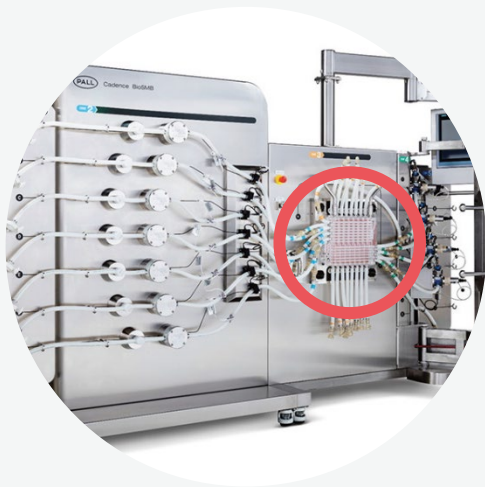


chemical toolbox

functional groups,
large bio molecules,
enzymes, proteins, etc.

Case - Biotech Fluid Processing

purification of antibodies, biomolecules and food proteins



picture credits - Pall Inc.

qCoat's chromatography membranes

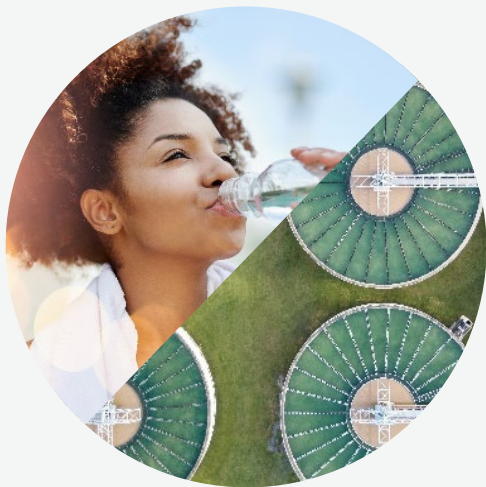
- **10x productivity** over competing resin separation technology
- **process simplicity**
- easy scaling

qCoat membrane USP

- first mover advantage in affinity & bio-catalytic
- full spectrum supplier for ion exchange

Case - Water Filtration

solution for the elimination of micro and nano-pollutants



qCoat's high performance membranes (Hy2F[®])

- 25% less energy demand
- **2x flow rate**

qCoat's membranes **eliminate**

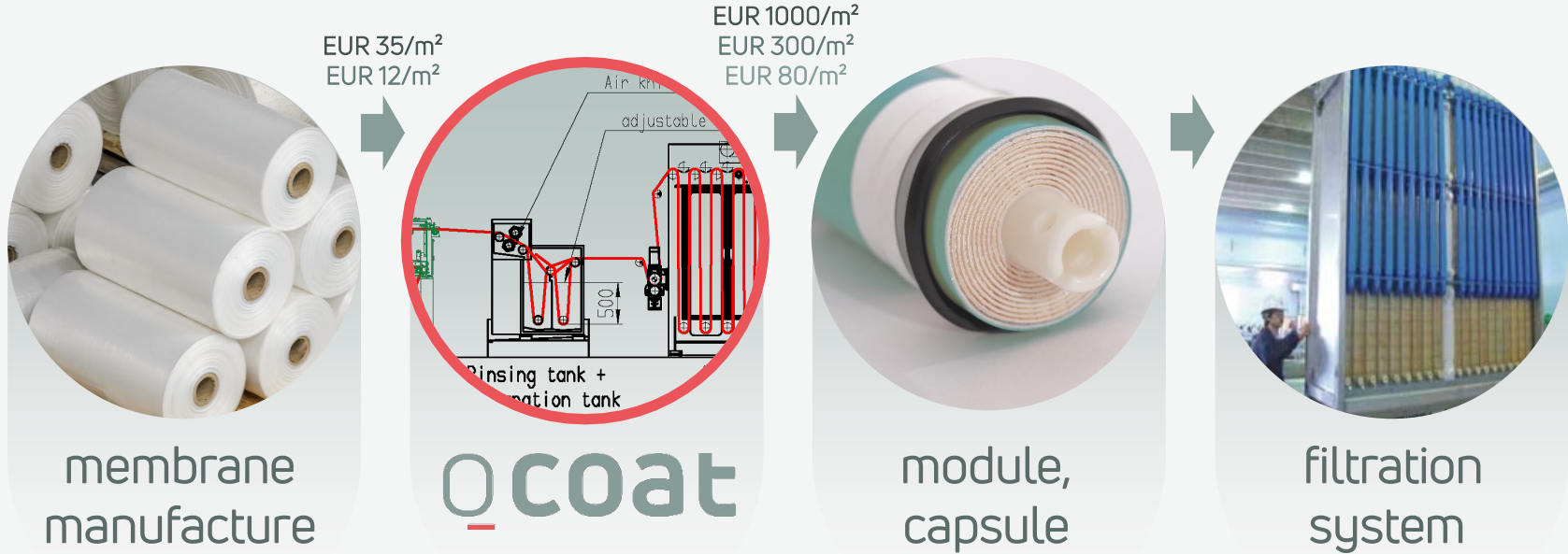
- microplastic
- **pharmaceutical residues**, hormones

qCoat's USP

- pollutant's **chemical degradation**
- during flow-through filtration

Business - Membrane Functionalization

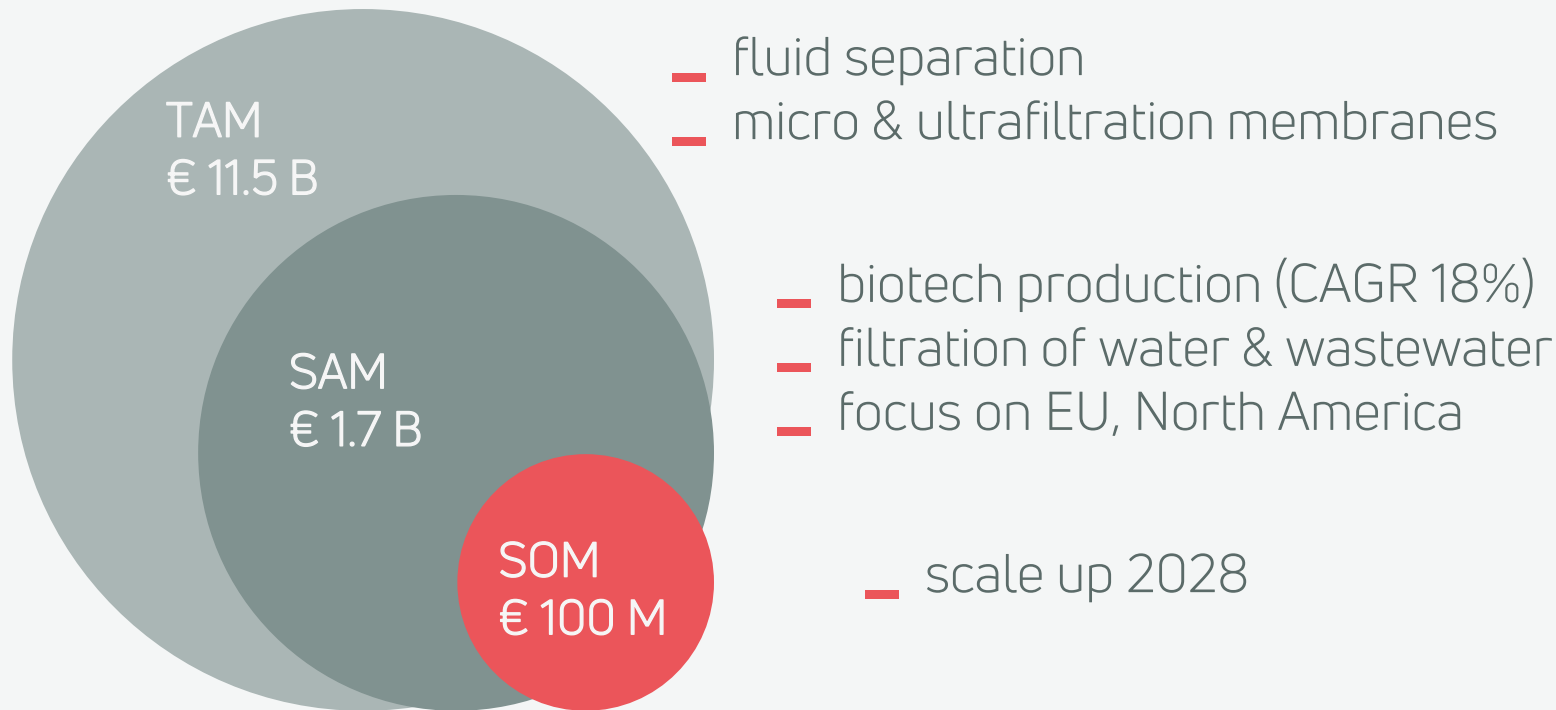
for membrane and module manufacturers



- direct sales and services
- product partnerships

Market - Porous Polymer Membranes






















accelerated by selective performance



TAM, SAM taken from several studies by Frost&Sullivan, Polaris Market Res. & others 2016-2022 and authors' calculations

Competition

membrane functionalization

methods & technologies	polymer blends	chemical coating	UV grafting	eBeam grafting
permanent coatings				
all internal pores				
membrane & ligands customizable				
no toxic agents				
manufacturing expenses				
representative	Merck Millipore, Pall, 3M	Purilogsics, Sartorius, Merck Millipore	3M, Pall	

qCoat only

- target selective membrane functionalization
- on third party membranes

Traction



prototypes

TRL4 – TRL7
3 patents, 2 trademarks



satisfied

returning customers
tech revenue 400 T€



pilot line

15 inch
200 meter coils



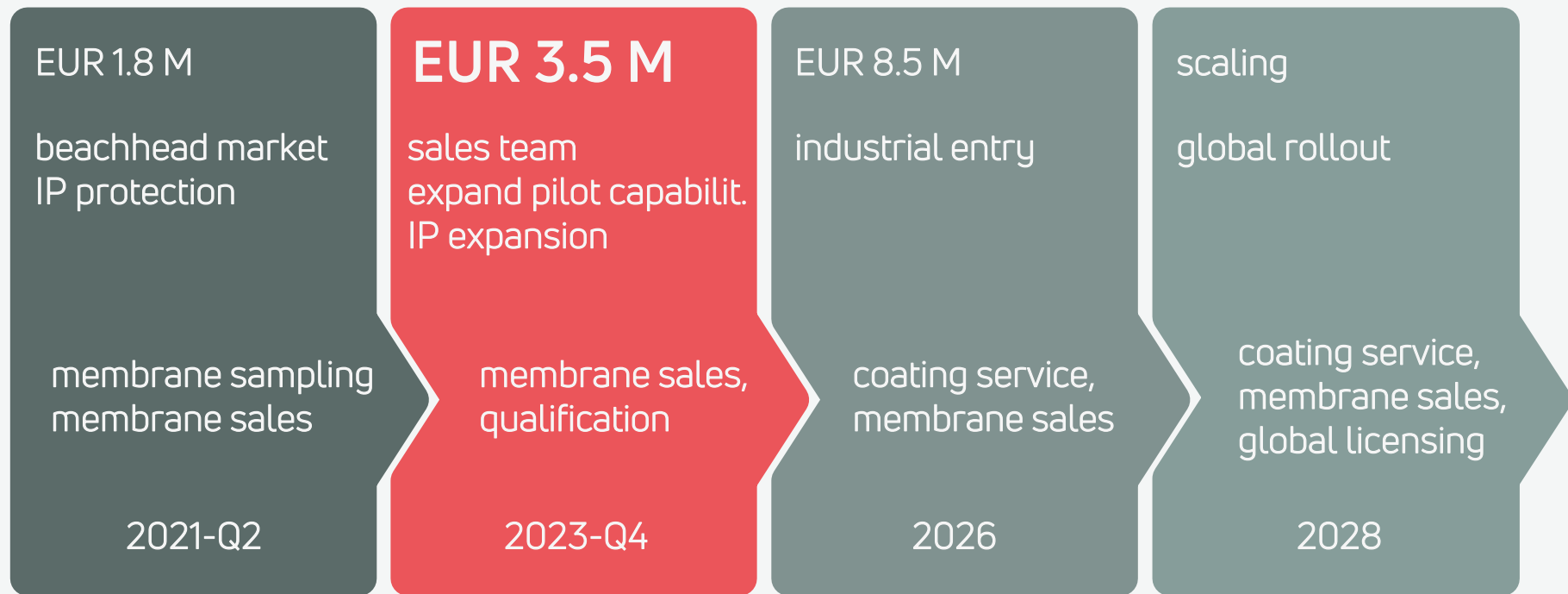
prototypes – sampling, paid trials

customers – exchange performance data, explore product partnerships

pilot line – for product qualification, roll-to-roll, inline quality control

Prepare Industrial Entry

become 1st choice in selective performance membranes



Management and Team

many years of experience and one mission

serial hardtech
entrepreneur
since 2002

15 yrs VP finance,
COO automotive

ex-head of thin
film R&D

eBeam expert,
IOM graduate

chem. design
Uni-L graduate

ex-process dev.
Sc. Hydro Eng.



Alexander Braun
product & technology
managing director



Christian Wunderlich
finance & operations
managing director



Ivonne Stemmler
product & development
senior application engineer



Maria Krause
lab & quality assurance
chemical engineer



Chiara Dörner
membrane grafting
chemical engineer



Elias Bodner
sales & market
application engineer

oCoat

selective performance membranes



qCoat GmbH • Permoserstrasse 15 • 04318 Leipzig • GERMANY
qcoat.de • contact@qcoat.de • +49 179 4897920
managing directors • Dr. Alexander Braun • Christian Wunderlich

committed to



supported by



strictly confidential