

METABAR®

OPPORTUNITIES IN SHIP WATER ECOSYSTEMS

Italian-Finnish Maritime Online Matchmaking, 9-10.9.2026

Our Offering Towards Italian Cruising Industry Ecosystem

Metabar is a technology development company. We are not circulating or treating waste water. Instead, **we can bring exceptional *WATER USE EFFICIENCY* system to e.g. lavatory applications** through our patented nozzle and distribution system technology.

Our longer term aim is to **LICENSE** our technology to key stakeholders in each business vertical we operate, and grow with them. *Moving Platforms* is an example.

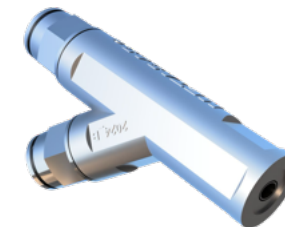
Our value proposition, if our **BAT technology** implemented in large:

- Less water to carry (smaller fresh & waste water tanks)
- Less weight to carry (less CO² emissions)
- Less waste water to be treated
- More space for extra passenger cabins
- €€€ to be saved or earned
- Imago value in media and with investors

Nozzle Product Lines

1. Metabar® Nozzle BAT Series

- Inputs: Pressured gas (e.g. air), non or pressured liquids (e.g. water, chemicals)
- Separate channels for gas(es) and liquid(s) - not mixed inside the nozzle!
- 3D metal printed, e.g. from titanium - optimized design, corrosion-resistant (e.g. hot NaOH)
- Meeting food & beverage industry's hygiene and performance standards
- **Best Available Technology Liquid Efficiency Rate! The liquid saving rate up to 90%!**



2. Metabar® Nozzle Traditional / Classic Series

NEW!!

- Inputs: Pressured liquid (e.g. water or a mix of water and chemicals)
- One input-output channel
- 3D metal printed, e.g. from titanium - optimized design, corrosion-resistant (e.g. hot NaOH)
- Multiplied service life & quality (than e.g. stainless steel)
- Meeting food & beverage industry's hygiene and performance standards
- **The liquid saving rate needs to-be-tested - maybe 25-40%**

What We Would Like To Offer Italian Luxury Cruising Industries

We would like to work together with stakeholders in Italian ecosystem to do a **technology demonstration** in Finland/Italy, where

- We would showcase a demonstration relating *a water use in selected concepts*

But in order to estimate the potential impact of our technology to larger water system in a passenger ship, we would need collaborators to, e.g.:

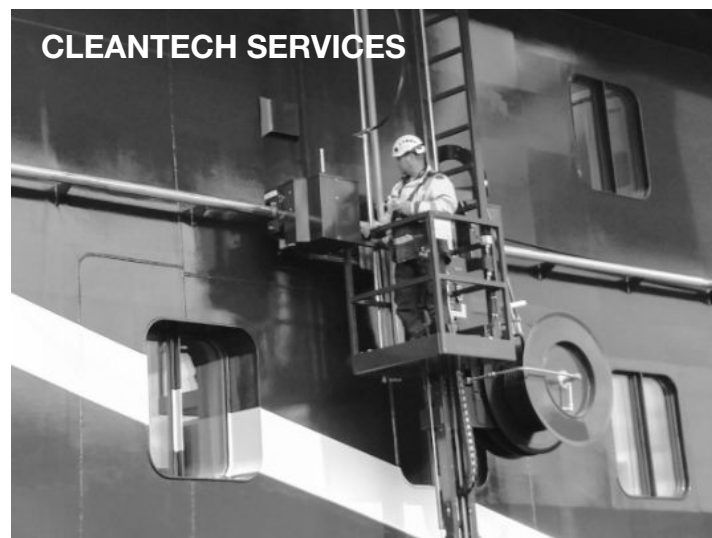
- Realistic test environment
- Simulate the potential impact on the water system - e.g. availability of pressured air to cabins or kitchens
- Impact on water tanks / weight & volume / CO² emissions
- Evaluation against hygiene requirements & customer expectations

We can deliver. All we need is that someone higher in the ecosystem have a R&D budget - to finance a project.

Opt-In: A Water-Efficient Service Platform Concepts

KEY BENEFITS:

- **OUR PARTNERS** could equip their solutions with Metabar^(R) technology
- **WATER CONSUMPTION** would decrease up to 70%-90%
- **ONE CENTRALIZED TECHNOLOGY** for All



IP Portfolio

Patent portfolio:

FI (Finland):

First core patent application filed in 2/2017

- “Nozzle, Nozzle Arrangement and Liquid Distribution System”.

Applications for national patent extensions filed in 10/2019

EP (Europe): pending

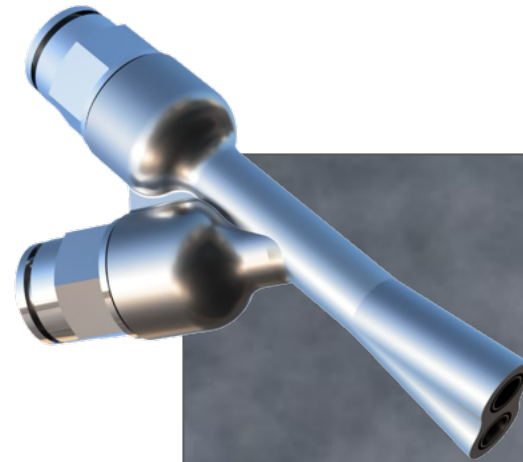
JP (Japan): granted 8/2022

US (USA): granted 10/2022

AE (UAE): granted 11/2024

Metabar®

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Next: AI Vision Playground 1 'Mechanic'



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METABAR
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INTELLIGENT LIQUIDS.
PURE PERFORMANCE.

100 METER CLASS
ELECTRIC SUPERYACHT

ANCHORING POSITANO
ITALIAN WATERS

METABAR
TECHNOLOGY OY

M

METABAR

METABAR SUPERYACHT
SMART LIQUID SOLUTIONS FOR A SUSTAINABLE FUTURE

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METABAR TECHNOLOGY

INTELLIGENT LIQUIDS.
PURE PERFORMANCE.

METABAR SUPERYACHT

100 METER CLASS
ELECTRIC – ZERO EMISSIONS

A new way to experience
liquids on board.

100% control.
Zero waste.
Total efficiency.

THE METABAR DIFFERENCE

We eliminate traditional taps,
sinks and drains.

Our intelligent liquid delivery
solutions provide exactly what
you need, when you need it –
no more, no less.

METABAR KITCHEN SOLUTION
ZERO TAP. ZERO SINK. TOTAL CONTROL.



CHILLED | SPARKLING | HOT 99° | AMBIENT | FILTERED | PRECISE DOSE

METABAR BATHROOM SOLUTION
INTELLIGENCE IN EVERY DROP.



-  **LIQUID EXPERIENCE ZONES**
Water delivered as mist, rain or flow – only where and when needed.
-  **PRECISE TEMPERATURE**
Instant, stable and exact. No waiting. No waste.
-  **MINIMAL WATER USE**
Up to 90% less water consumption.
-  **DRY BY DESIGN**
Water recirculation and evaporation control keep spaces dry and healthy.
-  **TOUCHLESS CONTROL**
Intuitive haptic or gesture control. Maximum hygiene.

SHOWER. MIST. STEAM. HYGIENE. REDEFINED.

Next: AI Vision Playground 2 ‘Seashell’



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Metabar Technology Oy provides *tailored solutions* per each customer's specific needs. Our solution development is based on **experienced in-house team, high quality partner network and world class technology providers.** www.metabar.fi

