

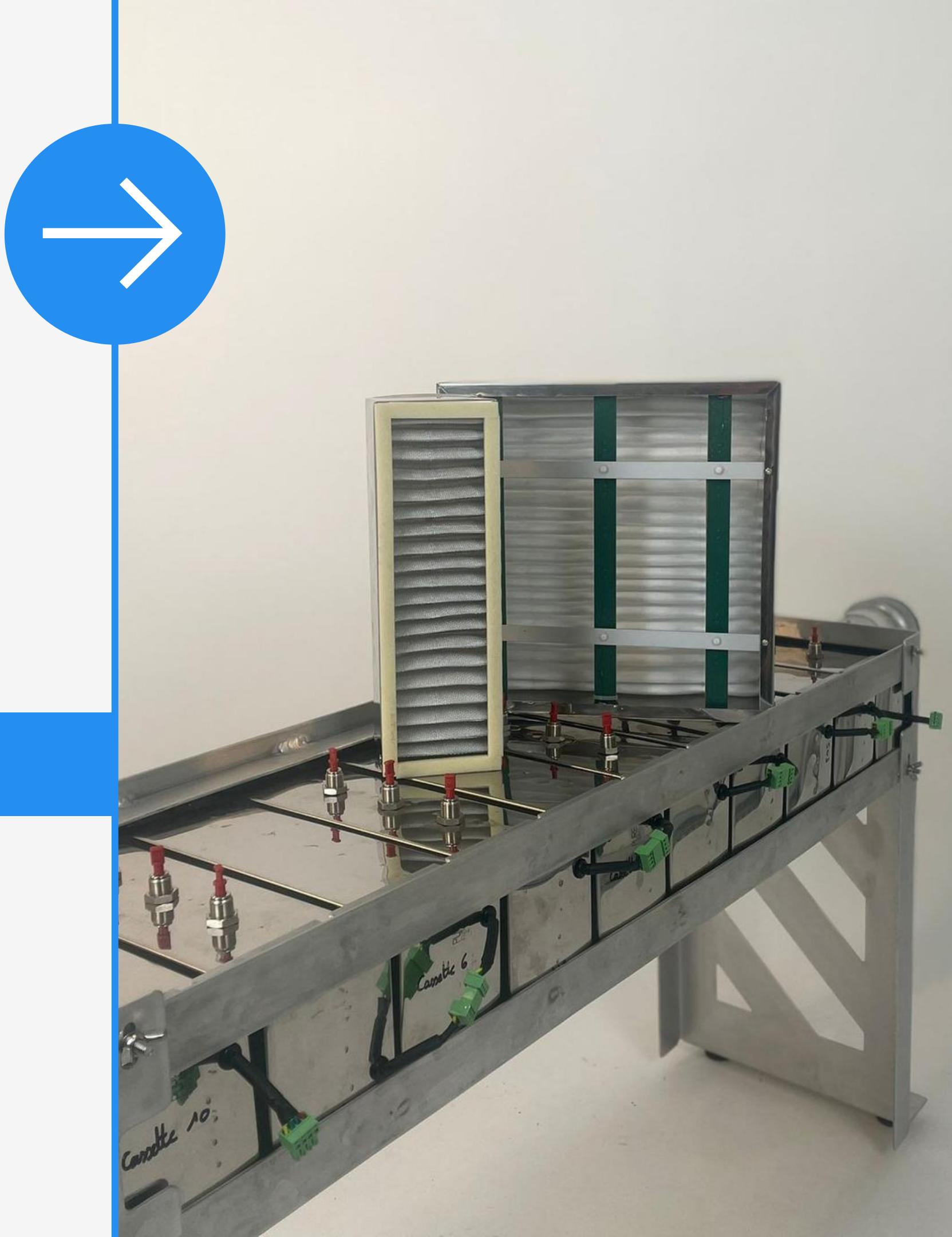


AIR POLLUTION CONTROL SOLUTION

A CLEAN AIR / HIGH GAIN SOLUTION



www.pure-nat.com



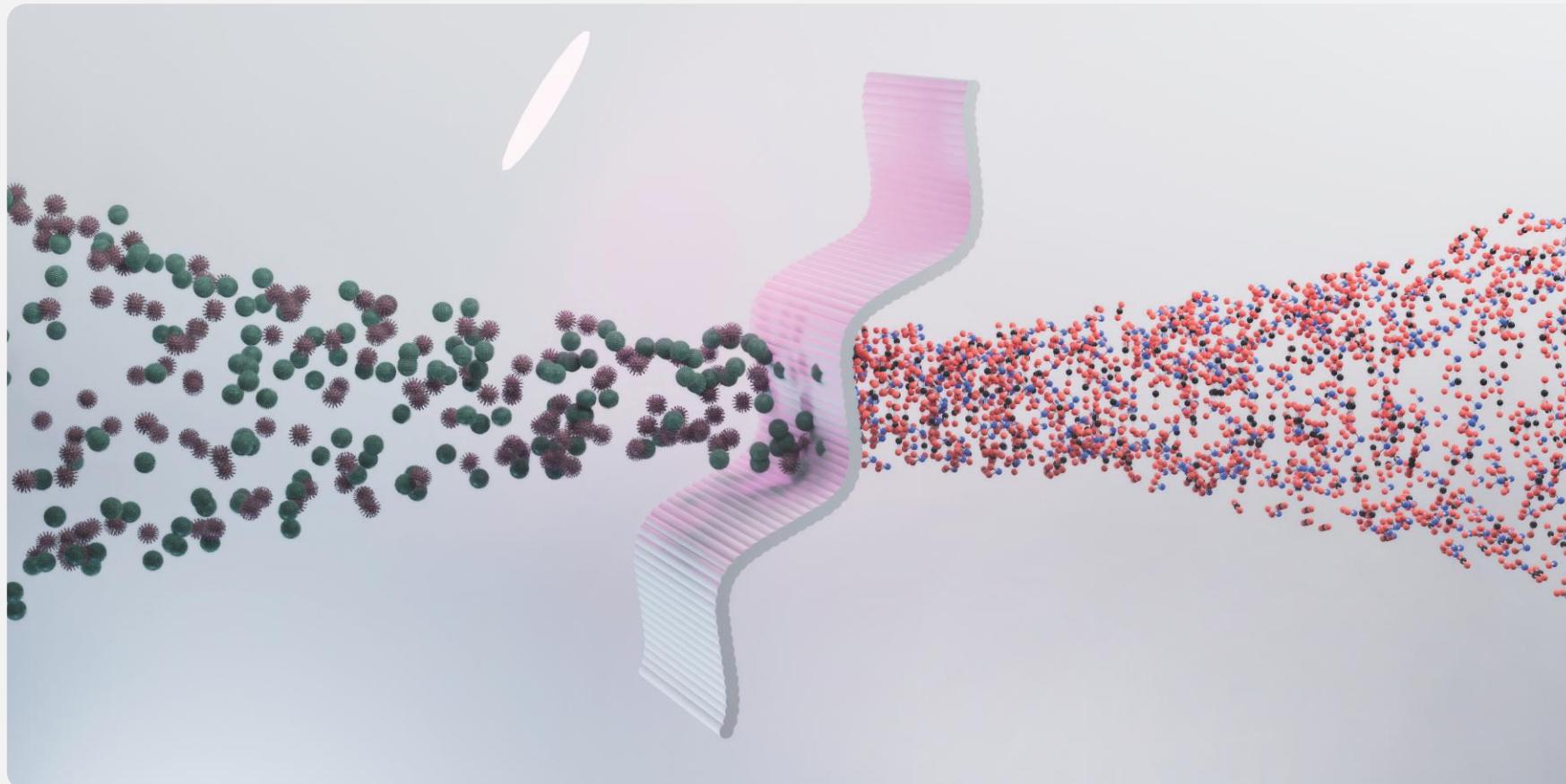
SHATTERS HARMFUL POLLUTANTS

Instead of storing them



1st molecular and microbiologic filter

Efficient against VOCs, solvents, odors, viruses and bacteria



35x more pollutants shattered

10 to 20% global savings

Lifespan 5x longer

Pressure drop <10Pa

Decarbonation : Scope 3



[Watch the video](#)

VOS ENJEUX

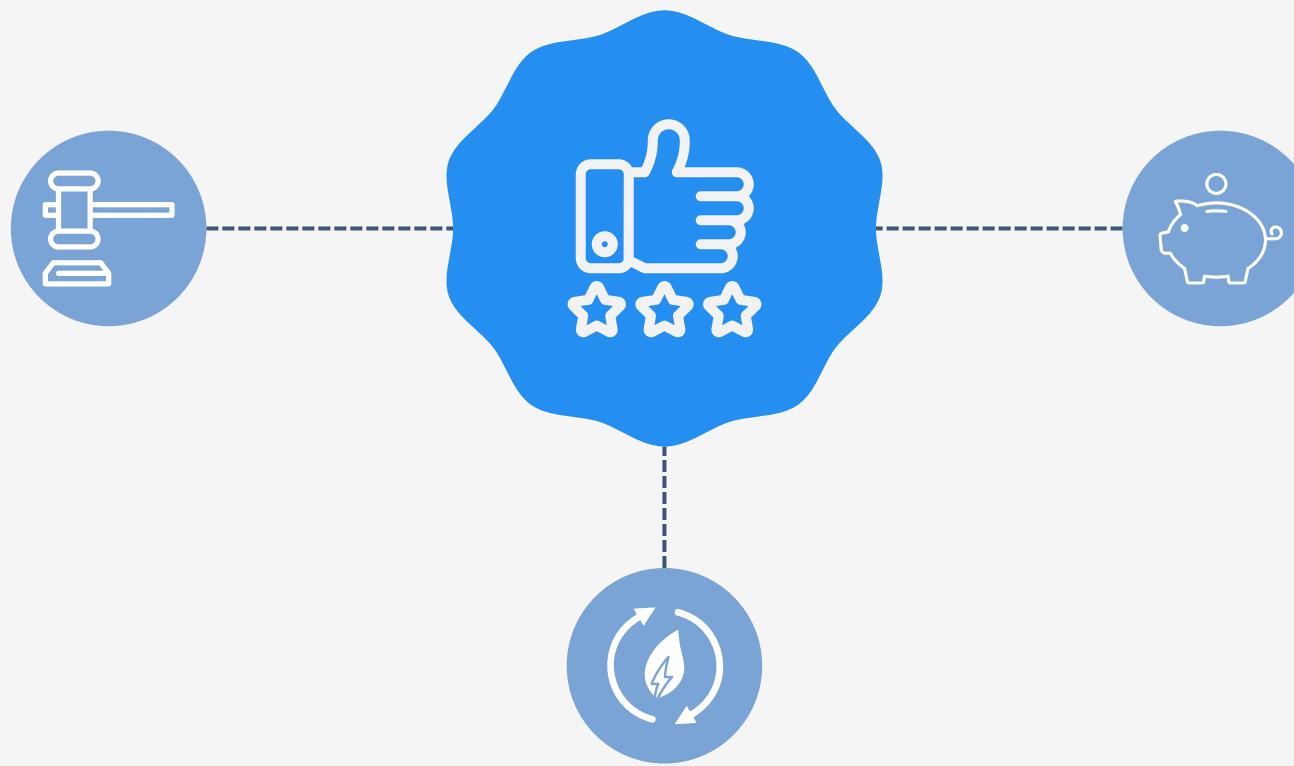
Aligned to your strategic objectives



Compliance

Limit VOC and odors

- **Stricter compliances**, especially in Europe
- **Substantial fines**, for non-compliance
- Control VOCs to **obtain building permits**.
- Ensure **site sustainability**.



Savings

Reduce operating costs (OPEX)

- Operating costs
- Maintenance costs
- Waste management
- Energy consumption

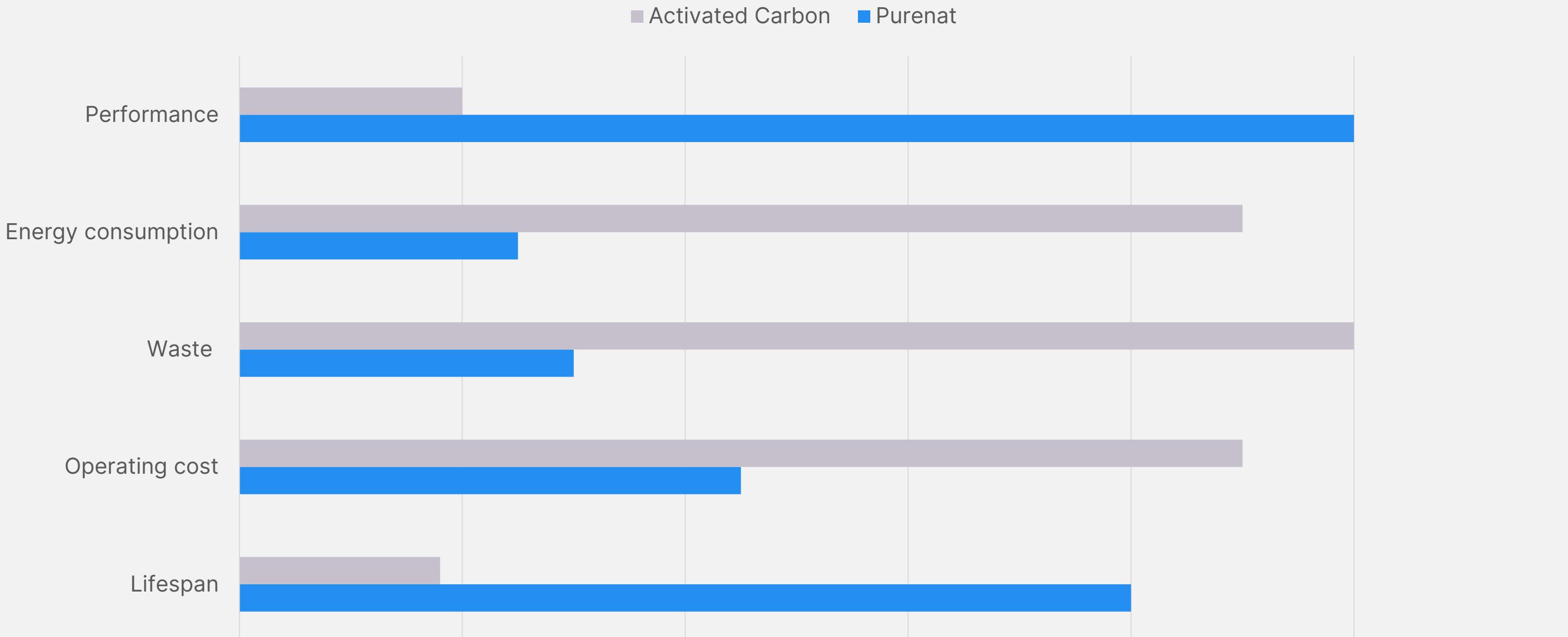
RSE impact

Protect health and well-being

- Limit the amount of waste generated
- Ensuring the **well-being of employees and neighbors**
- Decarbonation: **Scope 3**

COMPARISON

Purenat vs activated carbon



BIOMIMETIC PHOTOCATALYSIS

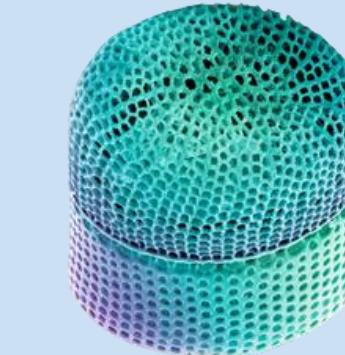
A unique patented technology



Biomimicry: boosting performance

Inspired by the champions of photosynthesis: diatoms.

We imitate the porous structure of diatoms to enhance the material's photocatalytic performance.



This is the first time that a fiber, then a filter, has been composed of such an active agent rather than simply being coated with it.

Natacha Kinadjian Caplat
Founder & President

- PhD in Physical Chemistry of Materials
- Air Quality Expert (exp +14 years)
- Top 100 inventors of the year 2024, Le Point



Unique manufacturing process

For a universal solution



Base materials

- Thermoplastic polymers
- Photocatalysts
- Binding agents



Manufacturing steps

Compounding

Spinning | Carding | Needle punching

Textile activation

Formatting

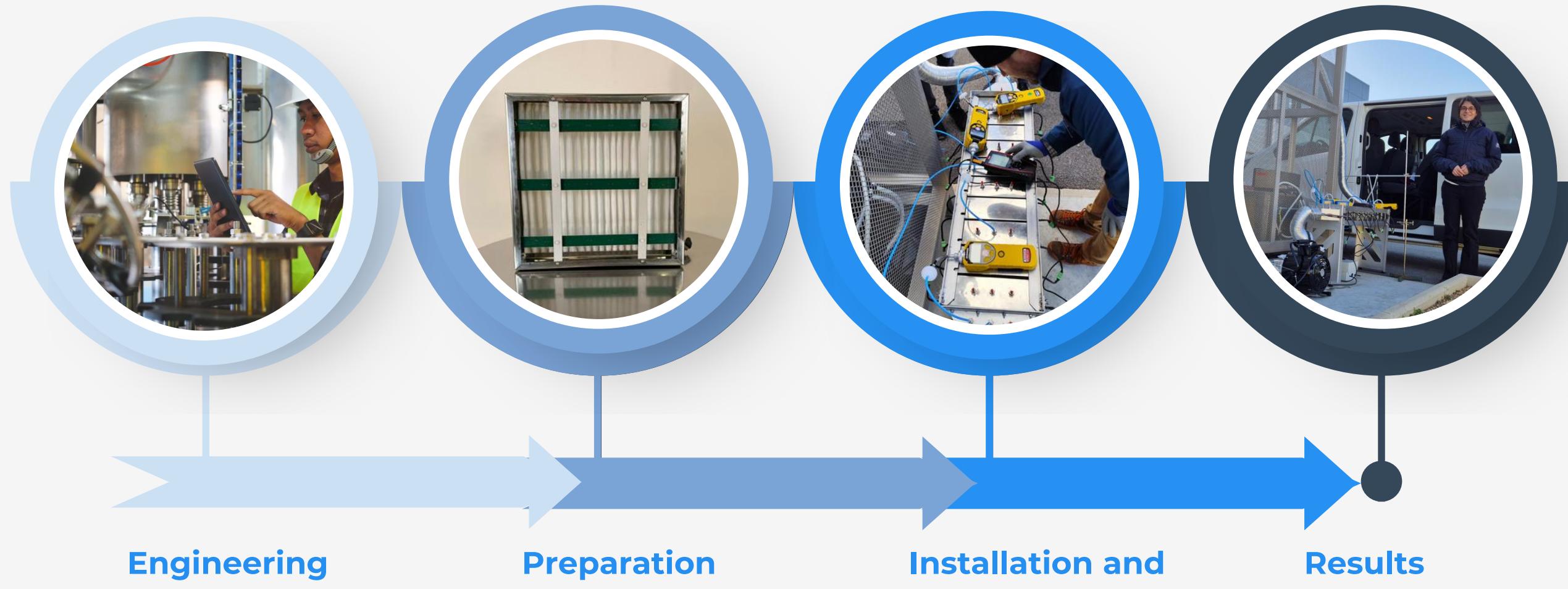
**Universal
filter cartridge**

Targeted applications

Chemical | Surface treatment | Agri-food | Recycling & Waste | Water Treatment Plant | Transport

IMPLEMENT A PILOTE PROJECT

Our team is with you every step of the way.



Engineering

- Analysis of constraints.
- Definition of specifications.
- Abatement objectives.

Preparation

- Design.
- Manufacture of a depollution box/chamber adapted to your needs.

Installation and monitoring

- Installation on your industrial site.
- Monitoring in real-life conditions.

Results

- Detailed report on performance results
 - Abatement curves
 - Investment and operating costs
 - Industrial sizing



[Watch the video](#)

COMPLETED PROJECT

Use case



Limit VOCs and odors

Specifications

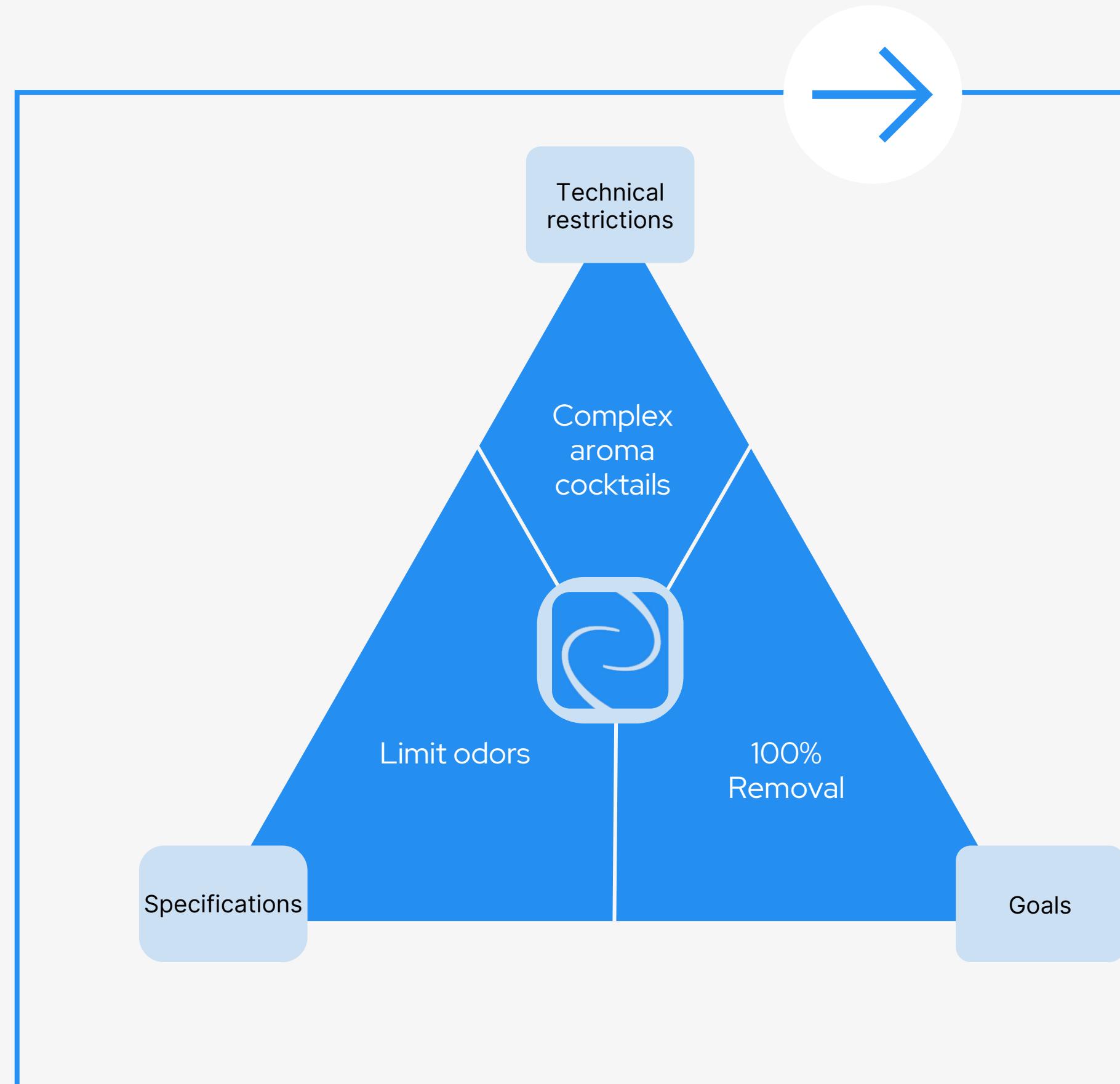
- Application: Process VOC emissions
- Issue: odors
- Sector of activity: chemicals (manufacture of aromas and perfumes)

Technical restrictions

- Pollutant concentration: peak at 26ppm = approx 100mg/m³
- Targeted pollutants: aroma cocktails (more than 30 molecules mixed together)
- Pilot tested flow rate: 10 to 20 m³/h
- Current solution: biofilter

Goals

- 100% pollutant removal

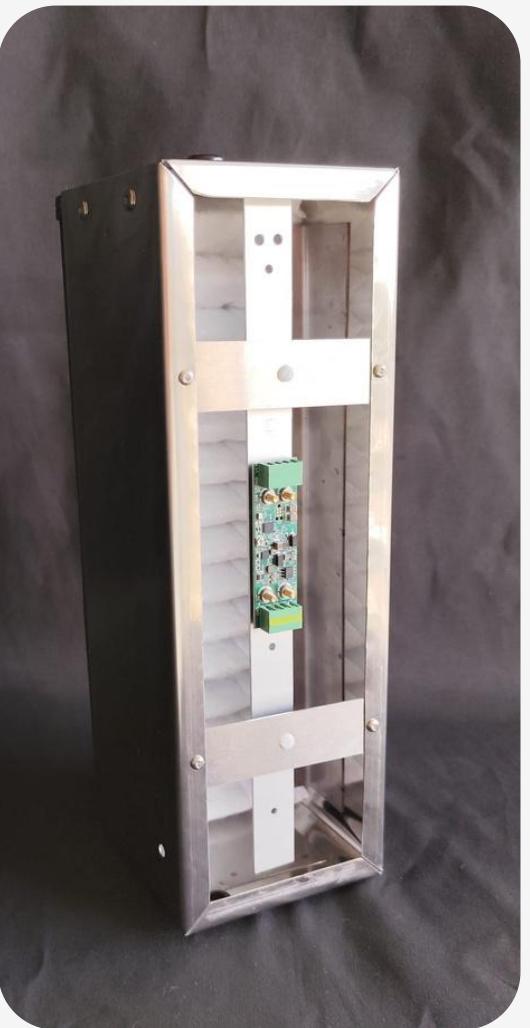


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Bespoke prototyping



Cartridge 300 mm x 100 mm

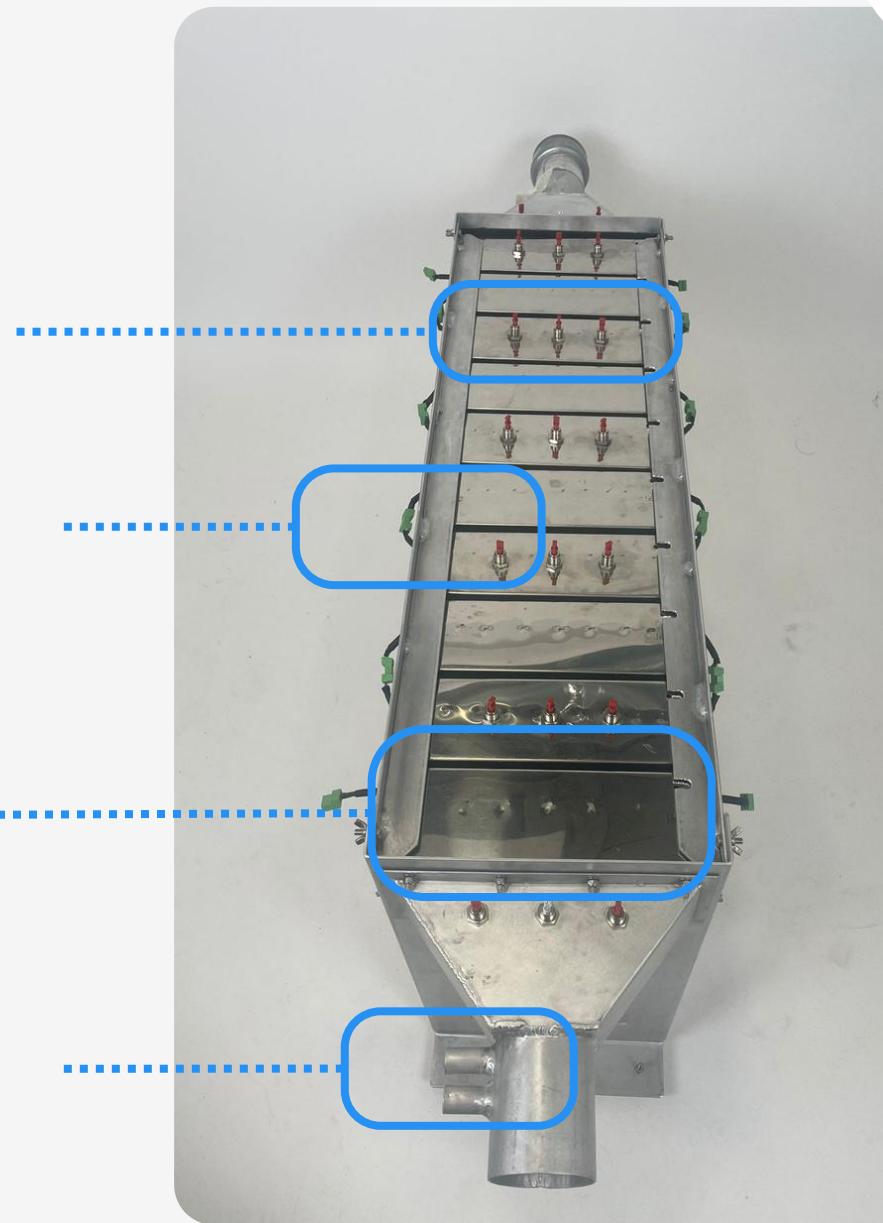


Plug-in socket for sensors

LED power supply wiring

Pollution control cartridge

Socket for anemometer and
temperature sensor



0,9sqm
Of Purenat
depolluting textile

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COMPLETED PROJECT

Installation and monitoring



Process air
Temperature 40 - 50 degrees
Humidity 80 - 100%.

Particle filter
E.i. G4 type

Cooling unit
Chilled water 5 - 7 degrees

Cooling coil
Air-water heat exchanger

Heating battery



Purenat filters

Measuring instrument

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COMPLETED PROJECT

Results



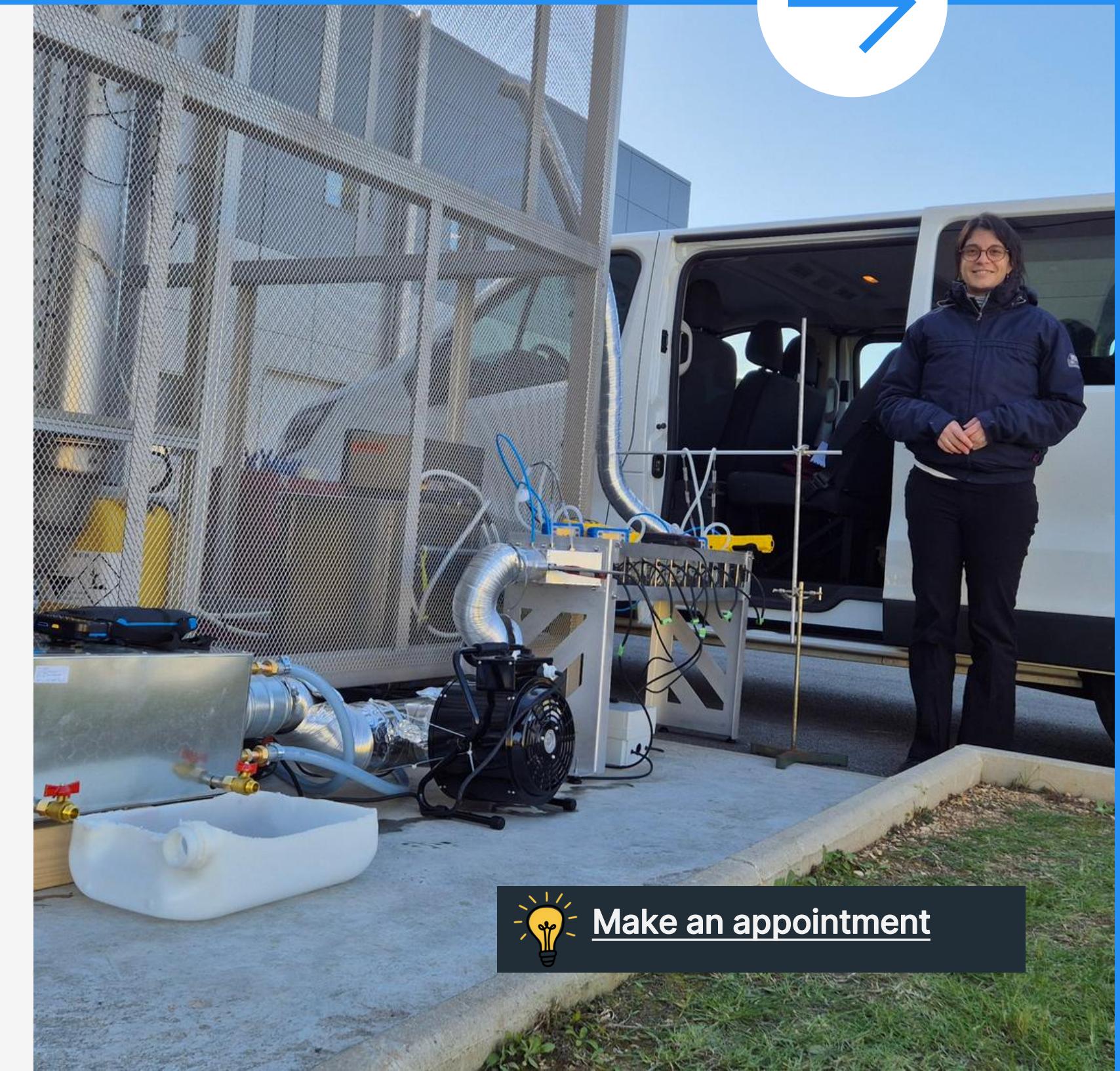
Energy consumption



Pollutant abatement



Recommendations for industrial sizing



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OUR TEAM

Project management team



Natacha Kinadjian Caplat
President & Founder

Prototyping calculation
Analysis of results
Recommendations



Manon Vaillant
General Manager

Business relations



Etienne Rainaut
Design Project Manager

Technical follow-up
Housing prototyping
Installation

OUR TECHNICAL PARTNERS



THEY PLACE THEIR TRUST IN US



PARTNERS



LABELS



AWARDS



OUR COMMITMENT

Aligned with European Union

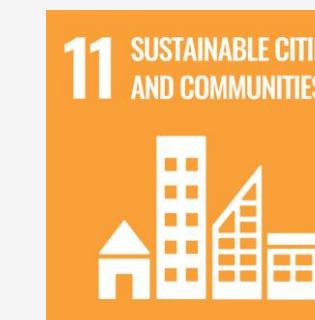
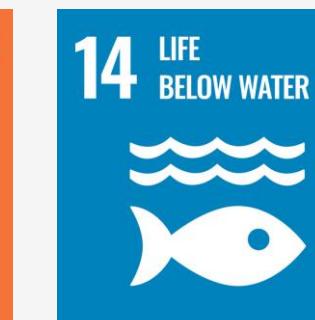
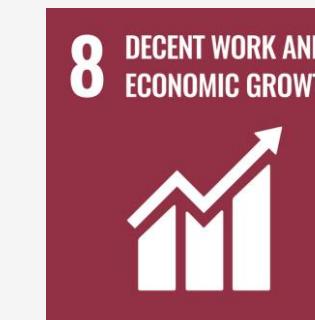
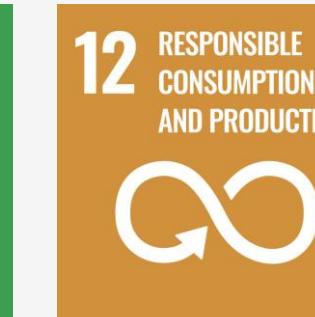


Réduire les maladies respiratoires et cardiovasculaires grâce à **un air plus pur en éliminant les polluants atmosphériques nocifs** (par exemple, les COV, les micro-organismes) **des environnements industriels et urbains**, réduisant ainsi l'exposition du public à des substances nocives.

Créer des emplois dans les secteurs des technologies propres et de l'environnement. Purenat prévoit de créer 53 emplois directs et plus de 150 emplois indirects d'ici à 2030, au fur et à mesure que la production et ses opérations, en travaillant en étroite collaboration avec ses partenaires commerciaux pour stimuler la croissance et la création d'emplois.

Permettre aux industries d'**économiser sur les coûts d'exploitation** des systèmes de traitement de l'air en réduisant la consommation d'énergie et en prolongeant la durée de vie des filtres. **20 % d'économie sur les coûts opérationnels avec les filtres Purenat**

Amélioration de la qualité de l'air à l'intérieur et à l'extérieur, ce qui a un effet direct sur la santé, la productivité et le bien-être général des personnes vivant ou travaillant dans des zones urbaines polluées



Promouvoir la **conception durable**, la **réduction de la consommation d'énergie** et l'**utilisation de matériaux recyclables** dans les systèmes de filtration de l'air, ce qui favorise l'**efficacité des ressources** et contribuer à une économie circulaire **en minimisant les déchets et l'impact sur l'environnement**.

Éliminer les particules nocives, les toxines et les COV de l'air, améliorant ainsi la qualité de l'environnement et **réduisant les émissions de gaz à effet de serre**.

Réduire au minimum les effets de l'acidification des océans et y remédier, notamment en renforçant la coopération scientifique à tous les niveaux.

Encourager et promouvoir des partenariats publics, publics-privés et de la société civile efficaces, en s'appuyant sur l'**expérience et les stratégies de financement des partenariats**.

ABOUT US

- Social and Solidarity Economy Company
- Founded in June 2020
- 2 fundraising rounds for a total of 2.6M€
- 7 patents in France and worldwide
- Our values : excellence, innovation, bio-inspiration, durability



Purenat is the story of two entrepreneurs who have surrounded themselves with a team of committed experts.

OUR INVESTORS



OUR PARTNERS





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