

Bayonne (France), May 2nd 2025

Purenat Unveils Initial Results of Its Pilot Projects in France and Abroad

The industrial deeptech company based in Bayonne, which has developed a biomimetic solution to purify air, continues its expansion and announces a new application of its innovation: the treatment of industrial site odors. Its process, already validated in the lab against volatile organic compounds (VOCs), viruses, and bacteria, has now proven effective for odor treatment as well.

Purenat has successfully tested this new application of its technology to reduce odor nuisances in the industrial sector. The results demonstrate the high efficiency of its process.

The company is now among the leading European industrial startups in this field, as evidenced by its selection to the German accelerator Techfounders.

A Highly Promising Pilot Project in France

Purenat annonce le succès de son projet pilote de traitement de l'air chez un industriel français, démontrant une efficacité remarquable pour la réduction des Composés Organiques Volatils (COV) et des odeurs. Ce projet, déployé à petite échelle avec un caisson de traitement d'air équipé de 10 filtres Purenat (0,9 m² de média), a permis d'obtenir des résultats impressionnants :

Purenat announces the success of its air treatment pilot project with a French industrial partner, demonstrating outstanding efficiency in reducing Volatile Organic Compounds (VOCs) and odors. This small-scale project, using an air treatment unit equipped with 10 Purenat filters (0.9 m² of media), delivered impressive results:

- +76% average reduction in total VOCs (TVOCs), and up to 100% for certain specific compounds.
- Effective treatment of a cocktail of over 30 VOCs, including sulfur-based compounds, at concentrations up to 100 mg/m³.
- Significant reduction in operational costs (OPEX) while ensuring optimal control of pollutant emissions.

These performances demonstrate the effectiveness of Purenat's solution, even in minimal treatment spaces. Building on this success, Purenat is now scaling up at the same industrial site, increasing the system's capacity.



This expansion will allow for the treatment of a larger air volume while ensuring:

- Substantial reduction of VOCs and odors, even in the most demanding industrial environments.
- A reliable solution tailored to the specific needs of each site.
- A fast return on investment, reduced operational costs, and full compliance with environmental regulations.

Other pilot projects are currently underway in the French industrial sector.

A French Gem in Germany

Meanwhile, Purenat is the only French startup selected by Techfounders, a German startup accelerator that is part of UnternehmerTUM, the largest startup and innovation center in Europe. Purenat was chosen to join a cohort of six startups – the others all being German. On June 4, the company will present the results of another pilot project in an agri-industrial environment.

About Purenat: www.pure-nat.com

Purenat is an industrial deeptech startup founded in 2020 by Natacha Kinadjian Caplat, in partnership with Manon Vaillant. Based on a newly patented biomimetic material, the company has developed the market's first textile capable of filtering and destroying organic air pollutants. The solution is 100% sustainable and adaptable to a wide range of closed environments.

Since early 2024, the company has been marketing pilot demonstrators to industrial partners and plans to commercialize its innovative textile through market integrators, including filter manufacturers, air treatment system makers, and industrial air purification solution providers.

Based in Bayonne (France), Purenat is incubated by the Pays Basque Community of Agglomeration at the Technocité incubator and benefited from the incubation program of SATT Aquitaine Sciences Transfert at its inception. Purenat also joined the RISE program by CNRS.

The company is a social and solidarity enterprise (ESS) supported by ADEME, ADI Nouvelle-Aquitaine, the Nouvelle-Aquitaine Region, and is a member of FrenchTech Pays Basque and the Coq Vert community by BPI France, one of its financial backers.

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