AERLEUM

Creation date : 26/06/2023

Sector of activity : Sustainable

TRL : 5

Development Phase : Industrialization

Activity

Aerleum develops a technology to produce synthetic fuels out of atmospheric CO2 via a novel process.

Co-founder information

Sébastien Fiedorow, CEO : has gained significant expertise over the past 6 years as a venture capital investor in early-stage start-ups. He has been involved in industrial scale-up ventures in hydrogen and shipping fuel alternatives, crafting strategies and go-to-market plans for newborn industries and leading successful exits/IPOs. He is a great leader and is always ready to tackle any challenge, determined to lead his team to the summit.

Steven Bardey, CTO : has a strong academic background and holds a PhD in Chemistry for CO2 conversion. He has extensive skills in material science, catalysis, reactor and process design, he has previously developed and build a prototype for CO2 transformation. He has created a strong network of world-class scientists whom he has on-boarded as advisors, and he is adept at finding solutions to any problem.

Targeted Market

TAM : alternative fuel (€50B in 2030).

SAM : maritime alternative fuel (€10B in 2030).

SOM : maritime alternative fuel with one customer (€1B in 2030).

Next fundraising

Stage : Series A

Dilutive amount : €10 000 000

Non-Dilutive mount : €7 000 000

Fundraising objectives

Build a demo plant to scale standardised modular units 000's tons of synthetic fuel per year.

BIOMANITY

Creation date : 15/09/2017

Sector of activity : Sustainable

TRL : 5

Development Phase : Industrialization

Activity

Biomanity produces and commercializes super absorption solutions fully biobased and biodegradable. A unique positionning with same performance and competitiveness as petro based solutions.

Co-founder information

Bernard Gainnier, CEO : joined the project in 2021 as CEO. He structured and financed the project, drawing on his experience as the former CEO of PwC for France and Francophone Africa. Bernard holds many CEO or board positions and is now fully dedicated to this project full-time.

Jean-François Daniel Business Development :historical founder of the project, is a specialist in marketing and impact businesses for over 20 years. Full
Time. VP Dev and commercial.

Ghislain David, CTO : PhD in chemistry and professor at the École de Chimie de Montpellier, joined the project in 2022. He is now fully engaged full-time as the CTO and Industrial Director, leveraging his technical expertise to advance the project.

Targeted Market

TAM : global market for Super Absorbent Polymers ($10B in 2024).

SAM : global market for Super Absorbent Polymers in Agriculture ($600M in 2024).

SOM : Biomanity aims to achieve sales of $150M in agriculture by 2034.

Next fundraising

Stage : Pre-Series A

Dilutive amount : €5 000 000

Non-Dilutive mount : €3 000 000

Fundraising objectives

Finance the construction of a demo plant and confirm the first commercial sales.

CATSALYZE

Creation date : 13/01/2023

Sector of activity : Sustainable

TRL : 5

Development Phase : POC

Activity

Catsalyze develops a technology that boosts the efficiency, stability, and recyclability of cell-free biocatalytic processes. We leverage this innovation to produce high-value, biosourced molecules specifically targeting the flavor & fragrance and cosmetics industries.

Co-founder information

Louis Bézert, CEO : founded and led SKENO for 7 years, a company specializing in relocation and national and international mobility. A graduate of the Faculty of Pharmacy in Montpellier, he also has a strong scientific background. Additionally, Louis Bézert was a professional rugby player for several years and served as the captain of the Valence-Romans Drôme Rugby team.

Alexandre Kriznik, Partner, Scientific Advisor :is a research engineer at the IMOPA laboratory, specializing in the production of recombinant proteins with over 20 years of experience in academic research. He is one of the three scientists who initiated the project and is an inventor of the patent.

Marie-Ève Chagot, Partner, Scientific Advisor : is a research engineer at the IMOPA laboratory, with expertise in protein biochemistry, recombinant protein production, and molecular biology, boasting over 15 years of experience in academic research. She is one of the three scientists who initiated the project and is an inventor of the patent.

Marc Quinternet, Partner, Scientific Advisor : is a research engineer at the IMOPA laboratory, with skills in protein biochemistry and bioinformatics, and specializes in NMR spectrometry, with over 15 years of experience in academic research. He is one of the three scientists who initiated the project and is an inventor of the patent.

Targeted Market

TAM : global market for bio-sourced chemical molecules (estimated at $200B in 2029).

SAM : global market for natural flavors and fragrances (estimated at $9.15B in 2023).

SOM : natural vanillin and acetoin market ($700M in 2025).

Next fundraising

Stage : Seed

Dilutive amount : €1 500 000

Non-Dilutive mount : €1 500 000

Fundraising objectives

The fundraising aims to support accelerating the industrial and commercial deployment of the technology for the production of natural acetoin and vanillin, strengthening the team and establishing strategic industrial partnerships, and exploring new enzymatic pathways to produce bio-based molecules and broaden the impact on sustainable chemistry.

CILKOA

Creation date : 01/06/2022

Sector of activity : Sustainable

TRL : 7

Development Phase : Commercialization

Activity

CILKOA has developed a cellulose treatment process and offers industrial equipment designed to create high-performance food and cosmetic packaging – barrier properties – moving towards 100% cellulose and guaranteed 100% recyclable and compostable.

Co-founder information

Romain Lecot, CEO : has extensive experience as a CEO and General Manager of various French small and medium-sized companies. His tenure as the General Manager of a packaging company has provided him with deep insights into CILKOA's market and honed his company management skills.

Olivier Muquet, Chief Marketing and Sales Officer : has a rich background in the startup environment, having served as a Business Creation Manager at the startup accelerator InnoEnergy. He co-founded and managed marketing and sales at BT3, a startup focused on barrier technology for paper. His experience in startup management and barrier technologies makes him well-versed in CILKOA's market.

Erwan Gicquel, Chief Innovation Officer : with a PhD and research background in material deposition on cellulosic substrates, is an expert in cellulosic materials. His expertise is directly linked to CILKOA's core technology, making him a crucial asset in driving innovation within the company.

Mathieu Mosca, Chief Operating Officer : has a diverse background in operations, having served as COO in a startup focused on hydrogen refueling solutions and as a Production and Quality Manager in a medical devices plant. His experience spans machine design, industrialization, supply chain management, and production, making him instrumental in developing, procuring, building, and maintaining CILKOA's machines.

Targeted Market

TAM : global market for molded cellulose BARRIERE packaging (€1.9B in 2030).

SAM : Cilkoa aims to address 10% of TAM (€189M in 2030).

SOM : Cilkoa aims to address 25% of the SAM market by 2030, i.e. €47M.

Next fundraising

Stage : Series A

Dilutive amount : €2 500 000

Non-Dilutive mount : €1 200 000

Fundraising objectives

The goals of upcoming fundraising are to finalize and qualify the technology under operational conditions (TRL9-10), and to support the initial phase and commercial growth of machine sales.

CLHYNN

Creation date : 18/03/2022

Sector of activity : Sustainable

TRL : 6

Development Phase : Industrialization

Activity

Clhynn offers a new way to green electrification by taking the best of the electric battery and conventional hydrogen, without their drawbacks, with a 2-in-1 fuel cell technology and its cartridges generating hydrogen in situ to feed the fuel cell.

Co-founder information

Jean-Patrick Corso, CEO :is an industrial entrepreneur with 30 years of experience in the industry. He has successfully led large industrial projects with budgets exceeding €500M in the automotive and energy sectors, including AREVA and Framatome. As a former manager of Vibrafloor, he bought shares in the SME, grew its revenues to €5M, and made it profitable.

Bernard Gauthier-Manuel, CSO : is a recognized CNRS researcher with over 15 years of expertise in electrochemistry. He is the author of 64 publications and holds 8 patents. Bernard is the inventor of the three patents currently held by CLHYNN, which form the basis for the company's technology development.

Régis Panozzo, CTO : is an experienced engineer with 30 years in fuel cells and batteries within the automotive industry. Before joining CLHYNN, he held various technical and management positions related to automotive part industrialization at Vallourec, innovation in fuel cells at Faurecia, and development and industrialization of battery systems at Zinium.

Targeted Market

TAM : Global FC Market (€21B by 2033).

SAM : Global Market for 1-100kW mobile power source addressable by Clhynn's olution (€5B by 2033).

SOM : €50M in 2030.

Next fundraising

Stage : Series A

Dilutive amount : €10 000 000

Non-Dilutive mount : €10 000 000

Fundraising objectives

Setup of factory (80% to finance fixed assets).

ENTENT

Creation date : 09/01/2018

Sector of activity : Sustainable

TRL : 6

Development Phase : Commercialization

Activity

ENTENT is developing a new low-temperature electricity generation solution, the PULSE. This solution, patented in its entirety, enables low-temperature industrial waste heat (from 60 to 150°C) to be converted into electricity.

Co-founder information

Mathias Fonlupt, Chairman : is the founding partner and inventor of the PULSE. He holds an engineering degree in energetic mechanics and a DUT in Environmental Health and Safety. Since 2012, he has developed unique expertise in pulsed organic fluid flows and is currently enrolled in a thesis to validate his research work on the development of the PULSE.

Clément Schambel, Managing Director : is the late founder and holds double Master's degrees in biology from Lyon 1 University and an International MBA from IAE Lyon. With over 20 years of professional experience, including more than 10 years as an entrepreneur in startups and 6 years in the management team of a subsidiary of a major group, he is responsible for the operational aspects of the business. He sets ENTENT's strategy, ensures the reliability of the technological roadmap, secures funding, and focuses on the company's market entry strategy.

Targeted Market

TAM : industrial waste heat recovery market (€30B in 2023 with an annual CAGR of 7.5%).

SAM : Mckinsey evaluates the potential for converting low-temperature heat into electricity (€3B in 2023).

SOM : Entent aims to address 16.6% of the SAM (500 M€).

Next fundraising

Stage : Seed

Dilutive amount : €2 600 000

Non-Dilutive mount : €2 400 000

Fundraising objectives

Finishing the Industrial Pilot and the 3 next machines.

INALVE

Creation date : 11/04/2016

Sector of activity : Sustainable

TRL : 6

Development Phase : Industrialization

Activity

Inalve unique biofilm-based microalgae cultivation process significantly reduces water consumption and demonstrates strong climate resilience. By targeting hatcheries as its initial market, Inalve substantially enhances the productivity and sustainability of the entire aquaculture value chain.

Co-founder information

Founders and Transition -Inalve was founded by Christophe Vasseur and Hubert Bonnefond, two researchers specialized in microalgae, one of whom also holds an MBA. Both co-founders exited the company in early 2022.

Current Leadership – Véronique Raoul, CEO : since 2022, Véronique, an environmental engineer trained in France and the United States, has been at the helm of Inalve. A serial entrepreneur, she is recognized for her business acumen and ethical values. Prior to Inalve, she held senior positions at Chanel and founded three companies. Véronique has over 30 years' international experience in a variety of sectors. Since her appointment, she has secured the reinvestment of historical shareholders and her own personal commitment, defined and implemented a strategic pivot, facilitated the entry of two venture capital funds in 2024, and led the company to its first commercial success and numerous awards. Véronique is also committed to corporate social and environmental responsibility, and has been advising youth-oriented non-profit organizations for over 20 years.

Targeted Market

TAM : hatchery market (€2.5B for in 2030). Other markets under evaluation.

SAM : targetable hatchery market excluding China and non-profitable species (€1B for in 2030).

SOM : Inalve aims to achieve €20M in revenue by 2030 (short term) and target of €800M in the long term.

Next fundraising

Stage : Series A

Dilutive amount : €8 000 000

Non-Dilutive mount : €8 000 000

Fundraising objectives

The final scope and total amount to be raised, particularly through equity financing, are under discussion with existing shareholders and expected to be finalized by June 10. The objective is to fund the final phase of technology scale-up: the industrial pilot, set to launch in mid-2027 and reach full operational capacity in 2028. The industrial pilot is designed to prove the model's economic scalability, ahead of wider commercial rollout.

KYANOS BIOTECHNOLOGIES

Creation date : 25/01/2016

Sector of activity : Sustainable

TRL : 6

Development Phase : Industrialization

Activity

Kyanos focuses on developing a sustainable micro-algae based protein production inspired by natural ecosystems. By using symbiosis of microorganisms, Kyanos improves production yields, traceability and minimize contamination.

Co-founder information

Vinh Ly, Business & Marketing Manager : after studying at Isae-Supareo Toulouse, Vinh Ly joined the Airbus marketing department. While focusing inbiofuel, he discovers the exceptional properties of AFA Klamath (Aphanizomenon flos-aquae). In 2016, he founded Kyanos to cultivate this cyanobacterium in the laboratory, which he will call Pasteld'eau. Today, Kyanos is industrializing its production.

Pierre-Alain Hoffmann, CSO : PhD in Life Sciences, Pierre-Alain is a microalgae expert and operated a public research center in Toulouse. He devised Kyanos' patented process to unlock the potential of the firm's exclusive AFA strain.

Targeted Market

TAM : global protein market (172M tons in 2024, 219M tons in 2050).

SAM : global market for algal proteins (17M tons in 2050).

SOM : 1M tons (0.5% of the global market or 6% of the algal protein market), which would represent at least a turnover of 500M to 1B $.

Next fundraising

Stage : Series A

Dilutive amount : €1 500 000

Non-Dilutive mount : €1 000 000

Fundraising objectives

Enable Kyanos to scale up production to an industrial level.

MYCELIUM TECHNOLOGIES

Creation date : 12/04/2022

Sector of activity : Sustainable

TRL : 5

Development Phase : Prototype

Activity

MycTechs is a French Deeptech startup that creates a new generation of natural and delicious foods from mycelium, without any additives or processing, offering a healthy and sustainable alternative to meat and ultra-processed products.

Co-founder information

Laetitia Pierazzi, CEO : a seasoned entrepreneur, she is tackling the food challenges of tomorrow. Convinced of the revolutionary potential of mycelium, she is paving the way for a delicious, healthy and sustainable alternative to ultra-processed plant-based products. A visionary, she steers strategy, forges key partnerships and leads fund-raising to accelerate her company's growth.

Olivier Hiezely, COO : MBA from EDHEC, a seasoned serial entrepreneur with 30 years of management experience, including 20 years at L'Oréal (Information Systems), and a €4 million fundraising as the head of his previous Fintech venture. An expert in strategy, finance and sales, he structures operations, optimizes processes, and oversees the commercial launch.

Jaafar Kilani, CTO : PhD in Molecular Biology and Mycology, researcher with experience at INRAE, the University of Angers, and the Pasteur Institute. His work spans process development, screening expertise, optimization of mycelium cultivation parameters, technological innovation, and scientific and technological partnerships.

Targeted Market

TAM : global market for protein-based center-of-plate foods ($280B by 2030).

SAM : market for protein-based center-of-plate foods in Europe, Asia-Pacific, and North America ($55B by 2030).

SOM : MycTechs aims to reach $50M in revenue by 2030.

Next fundraising

Stage : Pre-seed

Dilutive amount : €750 000

Non-Dilutive mount : €750 000

Fundraising objectives

Finalize proprietary technology and launch the pilot— a necessary step toward industrialization—deliver first B2B clients, and strengthen the team with key hires to support scaling.

OPTIPUS PV

Creation date : 12/12/2023

Sector of activity : Sustainable

TRL : 5

Development Phase : POC

Activity

Optipus's newest product, Energy Skin, is a lightweight, flexible and colorful photovoltaic module pushing the boundaries of organic photovoltaics (OPV), offering unrivaled efficiency and varied design possibilities. Their technology works under all lighting conditions, maximizing its utility and efficiency.

Co-founder information

Jorg Ackermann, CEO : world expert in OPV, organic photovoltaics with over 20 years' experience at the CNRS. Jorg co-founded the startup Genes'ink and held the position of CTO.

Benoit Baillart,Managing Directorand head of Sales : international business profile with over 10 years' experience at Accenture, where he was Director of the Accenture Venture France program. Benoit also has a wealth of entrepreneurial and business experience (thecamp, Bovlabs...).

Targeted Market

TAM : world market for solar cells for integration into electronic devices (€100B in 2025).

SAM : segment for medium-consumption nomadic devices (€15B in 2025).

SOM : Optipus PV aims to capture 2% of the SAM by 2030.

Next fundraising

Stage : Seed

Dilutive amount : €2 000 000

Non-Dilutive mount : €2 000 000

Fundraising objectives

Build a pilot line in Marseille.

PRONOE

Creation date : 14/10/2022

Sector of activity : Sustainable

TRL : 5

Development Phase : POC

Activity

Pronoe is a CO2 removal company.

Co-founder information

Nicolas Sdez, CEO : co-inventor of Oceanwings, a wind propulsion system to decarbonize the shipping industry. As a co-founder of AYRO, he took Oceanwings from TRL 2 to 7 in 5 years in a heavily regulated industry. Nicolas has enabled multi-million industrial contracts with project funders and certification bodies, closing a 10.5 M€ seed round, obtaining a 1.3 M€ EU grant, and growing a mostly technical team from 1 to 22 people. Nicolas is also an INSEAD MBA graduate.

Juan Buceta, CTO : is an environmental engineer (MSc.) and a chemist; he holds a PhD in process design and optimization, focusing on the use of modeling to up-scale unit operations while optimizing operating conditions. Juan has previously worked on the design and operations of water treatment projects in ports in South America, and on the wastewater treatment of nuclear power plants. Overall, Juan's previous experience focused on modeling and scaling challenging, innovative water treatment processes from idea to industrial deployment.

Targeted Market

TAM : CO2 Removal Industry ($1,000B by 2050).

SAM : ocean-based CO2 Removal ($700B by 2050).

SOM : ocean Enhancement via Coastal Outfalls ($70B by 2050).

Next fundraising

Stage : Seed

Dilutive amount : €7 500 000

Non-Dilutive mount : €2 500 000

Fundraising objectives

Financing the FOAK mCDR system.

SQUAIRTECH

Creation date : 26/05/2021

Sector of activity : Sustainable

TRL : 6

Development Phase : POC

Activity

SquairTech develops sustainable materials that regulate air humidity and remove harmful pollutants. These solutions effectively improve air quality while reducing the energy consumption of air treatment systems and offer lifespans of several years.

Co-founder information

Megane Muschi, CEO : PhD in porous materials.

Nicolas Sadovnik, CTO : PhD in porous materials.

Frederic Yeh, Business developer Asia : VP sales Orange Innovation & business developer Asia at Teqoya.

Pierre Guitton, Business developer Europe :CEO Teqoya.

Nicolas Royer, IT : lead IT at Teqoya.

Christian Serre, scientific advisor : research director at CNRS, member of the academy of Science.

Marco Daturi, scientific advisor : professor at Université Caen-Normandie.

Farid Nouar, scientific advisor : reasearch engineer at CNRS.

Targeted Market

TAM : air treatment market (€150B in 2030).

SAM : materials for regulating humidity & filtering gaseous pollutants market (€600M in 2030).

SOM : with first product applications (€165M by 2030 - 2035).

Next fundraising

Stage : Seed

Dilutive amount : €900 000

Non-Dilutive mount : €1 300 000

Fundraising objectives

The fundraising aims to address our first market (humidity regulation in air conditioners and industrial systems) and to continue the development of our air filtration technologies. The funds will be used for HR and recruitments in business and production, production (Scale-up, certification), CAPEX (equipments), R&D and IP.