



For green and blue transition in the mediterranean











YOUTH INNOVATION AWARD 2024

For green and blu





Discover the 9 finalists and their project! #YouthInnovationAward



The prizes to be won are a 10,000€ grant, a one-year scholarship for a Master's degree in Open Innovation and Youth Entrepreneurship at the CIHEAM Bari and an internship with one of our partner companies!

## **ECOMARC**

ecomarc Est Clust

#### Ahmed HAMDI

Ahmed Hamdi, a PhD in chemistry and a dedicated climane action advocate, is the founder of Econure, a Tunisian startup transforming coffee waste into sustainable products like edible mushrooms, organic fertilizers, and mushroom-growing kits. Passionate about retewable ciercy, Almed has pioneered an automated composipasteurization tunnel for Econurae, powered by



solar energy and equipped with AI for precision monitoring. His commitment to circular economy solutions is further strengthened through partnerships with global brands like Nespresso, promoting waste recycling and environmental impact.

THE PROJECT: Ecomare is a startup that repurposes coffee waste into sustainable products like gourmet mushrooms, organic fertilizers, and mushroom-growing kits.

By collecting used coffee grounds from local businesses, Ecomarc addresses waste management while promoting a circular economy. Using proprietary technology, coffee grounds become a nutrient-rich substrate for mushrooms, with the leftover material transformed into eco. friendly fertilizers.

Ecomarc's cultivation kits also encourage sustainable practices among consumers, and the company plans to expand by exploring new products like biofuels and bioplastics from coffee waste.



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# NOWA, Network of Women in Aquaculture



#### Marilou SUC

Marilou Sue is a Blue Growth Consultant opcolatilizing in Blue Economy and Blue Technology. She is the founder of Blue Consuction, a countiling company dedicated to fostering occan innovation by connecting Blue Economy actors and supporting the development and promotion of sustainable development and promotion of sustainable Around the World, a podeast focused on blue technologies and occan innovation, showsaing global pioneers and transformative teleas.

Additionally, she is the co-founder and General Secretary of NOWA.

THE PROJECT: The Network of Women in Aquaculture (NOWA) is a social entrepreneurship initiative dedicated to promoting gender equality and inclusivity across the global aquaculture industry.

NOWA provides a platform for women in aquaculture to connect, cullaborate, and empower each other. The network focuses on Powerty, Zero Hunger, Gender Equality, Climate Action, and Life Below Water. Through mentoring training, and a comprehensive network of resources, NOWA.



Meet the rest of the Tean !

Website: https://www.nowaeuaculture.org/

## LUXEED ROBOTICS

#### Guadaluna CHAER

Giadaluma Chier is a young tech carterpeneur. She is the Colomber of LUXED Robotics, an early-stage startury through lasers and A.I. Originally a Mechanical Engineer, the drives LUXES strategy, securing funding and market development in Europe and the Mediterranean She's a speaker on Al in Agriculture, Women in Tech, and Climate Change and loves to connect people for mutually beneficial partnerships.



She was named "a Mediterranean everyday Hero" by the UfM, and has recently won first place pitching at the World Bank Youth Sammit in Washington D.C. out of the 6 finalists from 21000 amplications and 120 countries.

THE PROJECT: LUXEED Robotics S.A.R.L is developing an agricultural machine that uses AI and lasers to locate and burn weeds with high precision, completely eliminating the need for herbicides. This approach improves soil and crop quality, promoting organic and regenerative farming. The machine, towed by a tractor and sold in modular form is desinated to be 50% more affordable than the main connections.

The key innovation is a detection system based on AI that optimizes the efficiency of the laser. LUXEED has already signed letters of intent with farmers in Lebanon



## VALORIZATION OF WHEY FOR SOURDOUGH

### FORMULATION IN BREAD MAKING

#### Nouha BEN ZBIR

Nouha Ben Zhir is a food industry engineer driven by innovation and sustainability in the food sector Holding a degree in Food Industry Engineering from Polytechnical University ULT, she specializes in HACCP and ISO 22000 standards with a focus





THE PROJECT: "Valorization of whey for soundough formulation in bread making" aims to enhance the use of whey, a byproduct of cheese production, for producing soundoneh in bread-making "

Whey, rich in nutrients and with a high biological oxygen demand, is often considered a pollutant when discarded into the environment. The research seeks to utilize whey to improve bread quality by replacing baker's yeast with sourdough. The results have shown significant improvements in the quality of bread made with whey-based soundoneh





#### Hadil RBIB

Hadil Rbib is an agronomist from Morocco with an academic background in plant and environmental protection. Currently nursuing a Mactar's at the CILIEAM Chania in Greece. women in sustainable olive farming, exploring solutions that support gender inclusion in Morocco and Greece Alongside her studies Hadil is the founder of KEEA, a startum



dedicated to creating eco-friendly nail products that draw inspiration from Morocco's rich olive oil heritage and waste management. She also serves as the "Women in Agriculture Project" Coordinator for the International Association of Students in Agricultural and Related Sciences

THE PROJECT: The Moroccan olive oil industry produces waste known as margines. which contains harmful phenolic compounds that threaten aquatic ecosystems. To address this, the project aims to repurpose margines through a circular economy approach, extracting polyphenols for use in nail care.

Polyphenols, recognized for their antioxidant, anti-microbial, and anti-inflammatory benefits, will be used in two products: a nail polish that combines vibrant color with nailstrengthening properties, and a nail balm that offers deep moisturization and is ideal for sensitive or weakened nails

This approach not only reduces pollution but also adds value by transforming waste into a





## NOCEANOUS Sea Rangers Video Games

## Alexandra MARTINEZ



life, learn daily about the importance of protecting the sea, and build a solid network around marine conservation. Driven by the need for change, she founded Noceanous to merge her love for technology with her mission to protect the planet.

"Through Sea Rangers, an educational video game, we aim not only to extertain but to impire millions to full in low with the occase and protect it, as I do every day. I believe it's never too late to embrace matiniability, and towerher, we can make a real difference.

THE PROJECT: Noceanous develops video games to protect and conserve the oceans by combining entertainment with social responsibility. Its mission is to educate players on environmental issues and inspire them to care for marine life, using innovative, engaging

gaming experiences to foster a positive impact on the planet.

Through serious causal games and immersive experiences, Noceanous promotes
knowledge and awareness of the oceans, highlighting their vital role in climate regulation,
oxygen production, food supply, and global commerce.

## **MYCELIUM**



#### Mohamed FAWZY

Mohamed Fauxy is an experienced mycologist driving global change with mycellum technology: pionering sustainable solutions in materials, food, and medicine to eathyre the transition to a new era of biotechnology. He launched Mycelium startup 2020 to acquire new professional aktilis such as business and product development, enabling him to coovert scientifie diese into the managed to accure a need fund for his start—no in less the managed to accure a need fund for his start—no in less

than a year from launch.

THE PROJECT: The project uses mushroom cells (mycelium) to convert agricultural waste into valuable products like cellule mushrooms and materials that replace single-use plastics and materials that replace single-use plastics and man, all while swips water and energy.

By turning waste into mycelium compost and spawn, it aims to reduce greenhouse gas emissions from burning waste and provide sustainable waste management.

Customers can grow fresh mushrooms easily at home, enjoying a sustainable and fresh food source in just seven days. Additionally, it allowed to recycle spent substrate to create mushroom-based alternatives to plastic packaging.



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## **REGEN-R8**



#### Hasan IAAFAR

Hasan Jaafar is the Co-Founder and Chief Operating Officer of YY ReGen, a pioneering company based in Lebanon With a strong background in mechanical engineering and a master's degree in renewable energy, Hasan brings a wealth of technical expertise and innovative thinking to the field of sustainable development. Hasan's commitment to sustainability is further evidenced by his involvement in the local startup scene. His work is marked by a passion for

innovation and a dedication to fostering community and resilience in the face of adversity. In recomition of his contributions and achievements. Hasan was listed on Forbes Middle Fast's 30 Under 30 2023 list, a testament to his influence and leadership in the renewable energy sector. Beyond his professional achievements. Hasan is an advocate for renewable energy education and frequently speaks at industry events and conferences, sharing his insights and experiences to inspire others in the field

THE PROJECT: Regen-R8 is a cloud-based. Al-enabled platform that offers on-demand renewable Energy-as-a-Service, empowering farmers with sustainable agriculture solutions that reduce water use, lower carbon emissions, and provide clean energy. ReGen-R8, is a modular, plug-and-play solar power system, delivers reliable, eco-friendly energy for agriculture needs, from watering crops and maintaining livestock barns to cooling produce and running equipment.

With a rental model that includes operation and maintenance. ReGen-R8 units reduce farmers' energy costs by up to 40-50% compared to diesel generators, supporting both cost savings and sustainable farming practices



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#### Fidèle EL-ACHKAR

Fidèle El-Achkar is a dynamic entrepreneur, food economic consultant, and leadership expert with over 12 years of experience in the agro-food sector across the MENA region. She is the Founder and CEO of FoodSight. Through her work, she has pioneered innovative solutions in food security & food safety, quality management, and market access, helping businesses grow sustainably while meeting global standards. Fidèle holds a Master's degree in Food Formulation and

Development from the Lebanese University and has

worked with both public and private sectors. NGOs and international organizations As an advocate for youth and women empowerment. Fidèle has trained and mentored hundreds of entrepreneurs through different regional and international programs. Her work in leadership development has been recognized globally, including accolades such as the Rest Women, Led FoodTech Rusiness in the Middle Fast, and the Lebanese Agripreneur of the Year.

THE PROJECT: FoodSight is a digital marketplace on a mission to transform the agrofood industry by connecting experts with producers to tackle challenges like limited job

opportunities and inadequate technical support. Through its platform, FoodSight fosters sustainability, food safety, and economic growth by providing a wide range of services: access to regulatory information, a network of service providers and freelance experts plus project management tools

market insights, compliance support, and networking opportunities. FoodSight empowers the agro-food sector to adopt sustainable practices, enhance product quality, and drive positive change in the industry.

