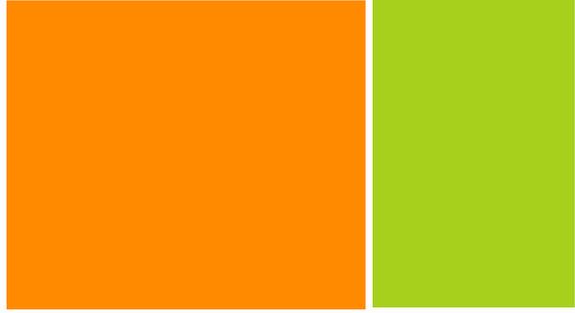
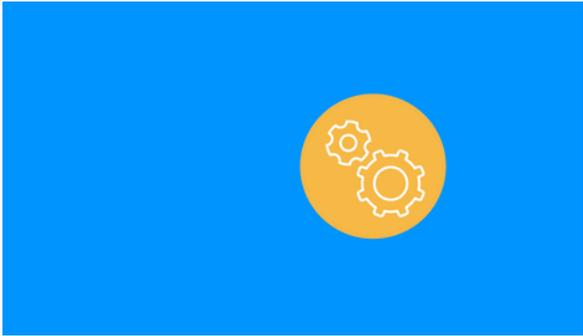




TRANSDAIRY



LIVINGLAB

YEARBOOK

2023



Bio/Nano Technologies

AUA

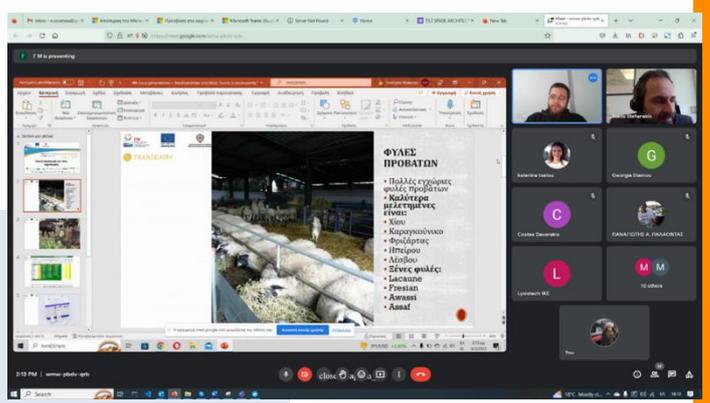
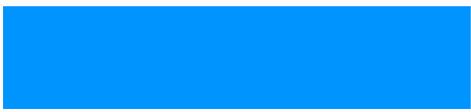


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LIVINGLAB'S MESSAGE



Dear Transdairy Community,

As we bid farewell to an extraordinary year, I am honored to reflect on the notable achievements and collective triumphs that characterized the Bio/Nano Living Lab of AUA in 2023. This past year has exemplified the unwavering commitment, resilience, and ingenuity that define our dynamic community.

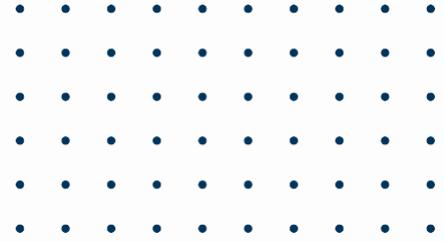
Our Living Lab has proven to be a hub of creativity, a space where ideas have transformed into impactful research and collaborative ventures. The year 2022 stands as a milestone, highlighting our dedication to pushing the frontiers of dairy science and technology.

As we progress, let us carry forward the ethos of collaboration, innovation, and perpetual learning into the forthcoming years.

LIVINGLAB PHOTOS



PARTNER PROFILE



ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
AGRICULTURAL UNIVERSITY OF ATHENS



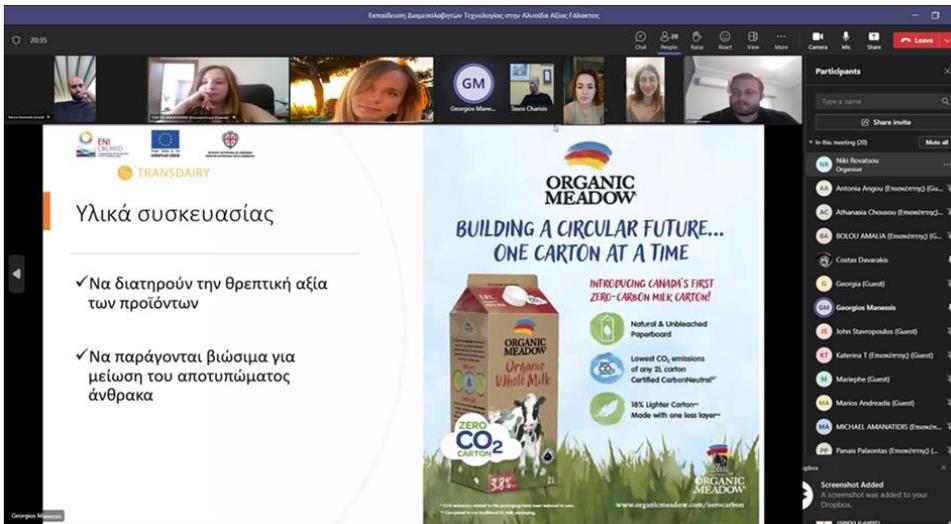
**Agricultural
University of
Athens**



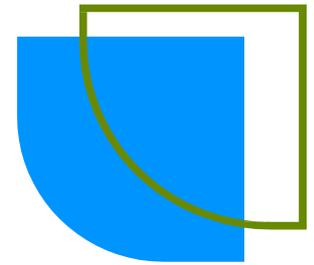
LL JOURNEY



Our Innovators

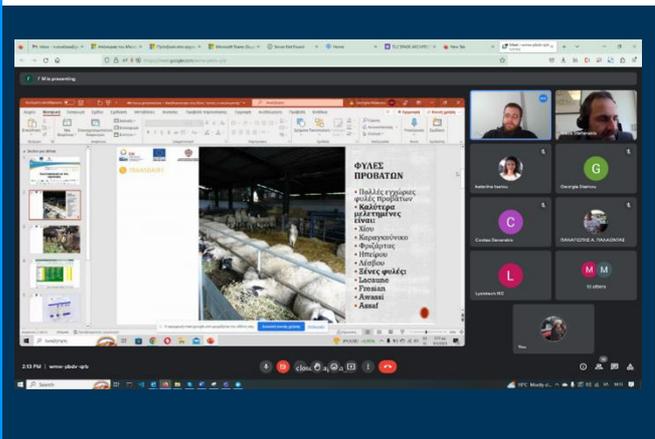


EVENTS AND SEMINARS

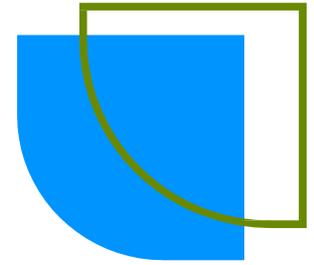


TRANSDAIRY 4th Greek Focus Group

The 4th Focus Group Session was co-organized on 27th February 2023, by the two Greek partners of the project (Research University Institute of Communication & Computer Systems – ICCS, Agricultural University of Athens - AUA) and their Living Labs. The meeting was held online. The focus group, engaged participants in a 2-hour presentation and discussion around the topic: “Livestock Production Management and New Technologies”, moderated by the session organisers (Dr Costas Davarakis and Mr. George Manesis). With exciting and new technologies on the horizon, many opportunities exist for monitoring on a dairy farm. Technology advances are exciting and allow new levels of management to be attained, but care should be taken to ensure dairy farmers are being provided meaningful information with which they may take meaningful actions. More research and development are needed with new and existing technologies to ensure this is accomplished.

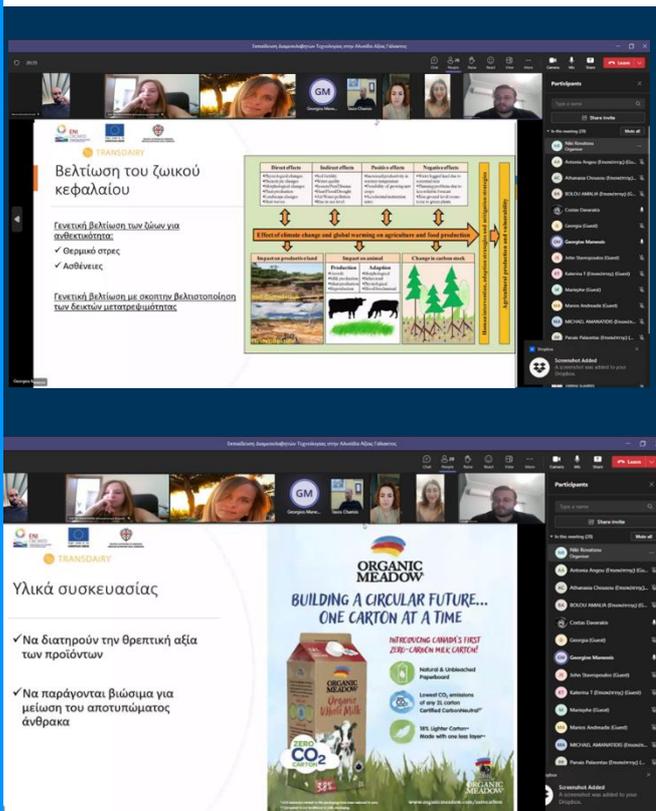


EVENTS AND SEMINARS

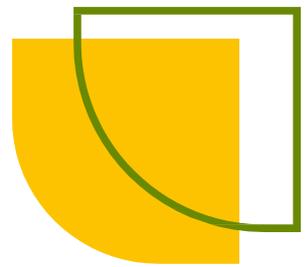


TRANSDAIRY 5th Greek Focus Group

The 5th Focus Group Session was co-organized on 25th April 2023, by the two Greek partners of the project (Research University Institute of Communication & Computer Systems – ICCS, Agricultural University of Athens - AUA) and their Living Labs. The meeting was held online. The Round table 1, engaged participants in a 2-hour presentation and discussion around the topic: “New technologies to safeguard the Dairy Value Chain under a climate crisis scenario”, moderated by the session organiser Mr. George Manesis. The dairy value chain faces significant challenges under the climate crisis, including increased temperatures, changing precipitation patterns, and more frequent extreme weather events. To safeguard the dairy value chain and ensure its sustainability in this scenario, new technologies and innovative approaches are essential.



EVENTS AND SEMINARS

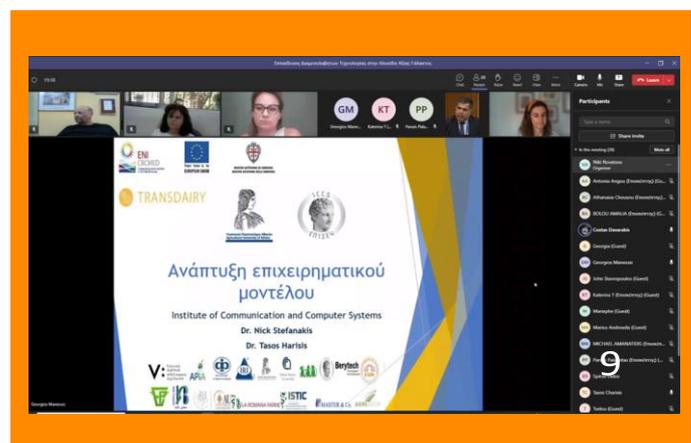
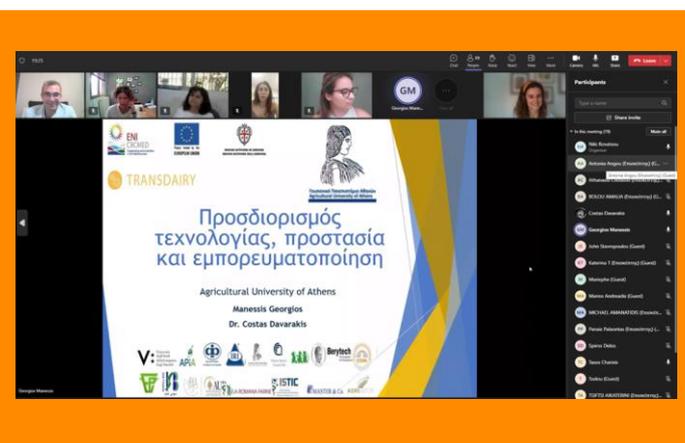
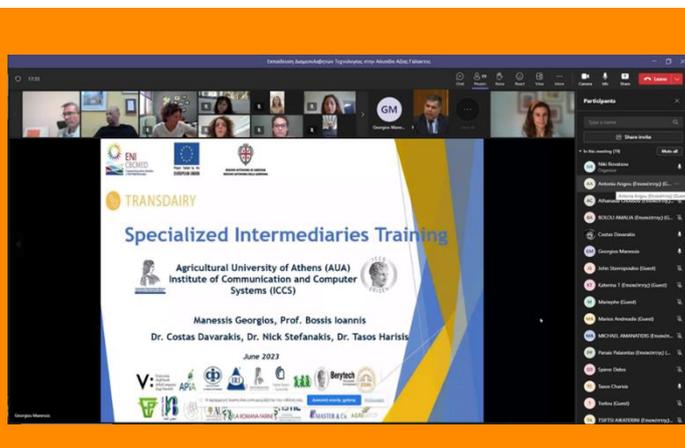


Training specialized intermediaries

The specialized intermediaries training was co-organized on July 21st 2023, by the two Greek partners of the project (Research University Institute of Communication & Computer Systems – ICCS, Agricultural University of Athens - AUA) and their Living Labs. The meeting was held online. The purpose of this specialized training is providing intense business knowledge on:

- Innovation management
- Commercialization
- Competitive analysis
- Business model
- IP and financing

Moreover, to share knowledge and methodologies to facilitate and conduct the workshop and evaluate the learning results achieved by the target audience and to track the impact of the seminar sessions.



EVENTS AND SEMINARS



1st Demonstration of research results



The 1st demonstration of research results was organized on 31st March 2023 by the Agricultural University of Athens (AUA-PP4) with the help of the subcontractor Bovis IKE. The event was held physically at the Grand Hotel Palace in Thessaloniki, Greece. The title of the event was “A Course on Reproductive Management Advancements and Available Tools for Rapid Genetic Improvement of Dairy Cows”. The discussions generated considerable interest in the advantages of incorporating sexed semen in combination with beef cow lines on dairy herds. One notable benefit highlighted was the use of sexed beef semen in non-breeding cows, which has the potential to produce offspring with improved carcass characteristics. This not only enhances the quality of the meat but also presents an additional avenue for generating income. Furthermore, the sale of female offspring with high genetic values can also contribute to higher revenues. Implementing these strategies offers a pathway towards sustainable and profitable farming practices, particularly in light of recent challenges such as economic and energy crises, as well as high feeding costs.

EVENTS AND SEMINARS



2nd Demonstration of research results



The 2nd demonstration of research results was organized on 14th July 2023 by the Agricultural University of Athens (AUA-PP4) with the help of the subcontractor Bovis IKE. The event was held physically at the Department of Animal Science, University of Thessaly, Larissa, Greece. The title of the event was “Application of Genetic Selection for the improvement of the dairy sheep of Chios breed”. The discussions generated considerable interest in the advantages of applying genetic improvement programs in Chios sheep breed. Specifically, one notable benefit highlighted was the improvement of milk yield and milk quality traits in Chios sheep, leading to the production of dairy products from the breed with added value. Furthermore, breeders could improve farms economic performance since their income is mostly based on milk sales. Breeders exhibited a willingness to adopt such practices, and the procedures for implementing genetic improvement programs are set to commence soon. Following these strategies offers a pathway towards sustainable and profitable farming practices, particularly in light of recent challenges such as economic and energy crises, as well as high feeding costs.

EVENTS AND SEMINARS



3rd Demonstration of research results



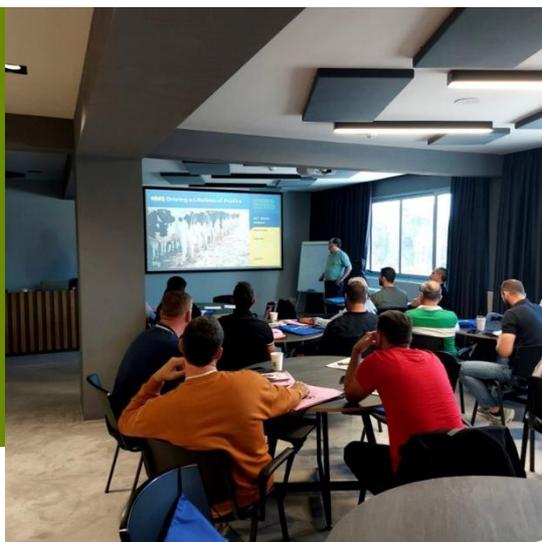
The 3rd demonstration of research results was organized on 19th September 2023 by the Agricultural University of Athens (AUA-PP4) with the help of the subcontractor Bovis IKE. The event was held physically at the Intellectual Center of Livadi Olympou, Larissa, Greece. The title of the event was “New approaches on dairy sheep and goats management”. The discussions generated considerable interest in the potential advantages of introducing Artificial Insemination techniques in dairy sheep and goat farming. Even though Greek farmers are not familiar with such techniques, their keen interest and willingness to adopt such practices for improving herd performance were evident. Specifically, in our comprehensive discussions on the benefits of Artificial Insemination, it became apparent that through well-managed implementation of Artificial Insemination, farmers could achieve more sustainable and profitable sheep farming operations. Furthermore, given the prevailing economic challenges, energy crises, and the high costs associated with feeding, the need for innovative approaches has become more pronounced. These innovative approaches could secure a path toward agricultural long-term sustainability.



EVENTS AND SEMINARS



4th Demonstration of research results



The 4th demonstration of research results was organized on 13th October 2023 by the Agricultural University of Athens (AUA-PP4) with the help of the subcontractor Bovis IKE. The event was held physically at the Lely Center of Thessaloniki, Greece. The title of the event was “Feeding and genetics on robotic cow farms”. The discussions sparked significant interest in utilizing genetic tools, including genomic testing and the selection of sires with high genomic values, aimed at producing offspring well-adapted to these systems. Milking speed, time a cow spends at each visit inside the box, milk production and mastitis resistance are considered key characteristics for the robotic- milking cow. Implementing these methods is expected to enhance the efficiency of robotic systems and lead to production of high quality milk, adding value to the market chain. Additionally, other highly discussed topics included the exploration of varied feeding practices based on individual animal requirements, the concept of precision feeding to optimize each animal's genetic potential and the improvement of the overall quality of the final product. All these factors have the potential to drive increased profitability and promote the long-term sustainability of the dairy sector.



The dream continues.

