

AdriAquaNet

Enhancing Innovation and Sustainability in Adriatic Aquaculture

WP 3.3 Trainings of staff in SMEs and R&D Centers

WP3 – Training nr. 1, report, September 18 2020



Introduction

The **First training sessions “MIGLIORAMENTO DELLA SOSTENIBILITA’ DELL’ALLEVAMENTO ITTICO MARINO”** were held in September 18 and 19 2020 in Ostuni (Italy) and simultaneously in remote.

The first day was mainly aimed at technicians in the aquaculture and fish farming sector, but it was open to all interested and it involved 17 persons in presence and 40 persons online (due to Covid19 prevention measures, the number of attendees in presence were limited).

The agenda of the training, programme, training materials-presentations, attendee list of participants, press release, photos, video link are part of this report.

The meeting was opened by the Project Coordinator prof. Galeotti and by the dr. Rosanna Panebianco, Order of Veterinarians of Brindisi representative, who welcomed the participants and presented the programme.

He also presented the project. VIDEO: <https://youtu.be/GT8CuYJ9I44>

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E. Tibaldi presented a lesson entitled ***“Una nuova generazione di mangimi per le specie ittiche Mediterranee: i risultati dei test su scala pilota nell’ambito del progetto AdriAquaNet”*** (A new generation of feed for Mediterranean fish species: the results of pilot-scale tests within the AdriAquaNet project) – authors: E. Tibaldi, T. Segvic-Bubic, F. Mina, I. Lepen-Pleic, I. Buselic, J. Hrabar, I. Zuzul, L. Zuvic, G. Cardinaletti.



VIDEO TIBALDI: <https://youtu.be/JE6o3NBDXQk>

F. Da Borso presented a lesson entitled **“Come gli scarichi degli allevamenti ittici possono produrre energia, riducendo l'inquinamento”** (How the discharges from fish farms can produce energy, reducing pollution) – authors: F. Da Borso, A. Chiumenti, G. Fait.



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VIDEO DA BORSO: <https://youtu.be/axs3rXF25B4>

The LP subcontractor **Blufarm srl** gave a lesson online on **“Un sistema esperto per monitorare e predire la crescita dei pesci e la dispersione dei reflui nelle gabbie marine: concetti teorici e applicazioni pratiche con esempi applicativi ottenuti negli allevamenti del progetto AdriAquaNet”** (An expert system to monitor and predict fish growth and waste dispersion in marine cages: theoretical concepts and practical applications with application examples obtained in the farms of the AdriAquaNet project) – authors: R. Pastres, D. Brigolin, E. Royer.

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VIDEO BLUFARM/Pastres: <https://youtu.be/-1brdRXEVQI>

A. Manfrin presented a lesson with a video from the field ***“Motori a propulsione elettrica con stazione fotovoltaica di ricarica della batteria per le imbarcazioni di servizio. Un approccio ecosostenibile di utilizzo di energia rinnovabile applicato all’allevamento in gabie”*** (Electric propulsion engines with photovoltaic battery charging station for service boats. An eco-sustainable approach to the use of renewable energy applied to cage farming) – authors: A.Manfrin, M.Bullo, F. Dughiero.



VIDEO MANFRIN: <https://www.youtube.com/watch?v=XLNYMIzN02U>

Topics

The following presentations (which are part of this report) regarding WP3 were discussed among the participants and all relators present debated about:

1. A new generation of feeds for the Mediterranean fish species: feeding trials results and how to deal will the market
2. Impact of the feeds on the food resources: use of the Fishmeal and fish oil in the acquafishfeeds (from fish diets to veggy diets)
3. Environmental risk of the marine aquaculture
4. Waste management of a fish farm: Emission reduction and renewable energy
5. Lift Up and Bolaks circular cages and open systems
6. the current meter and other electronic sensors used in the pilot plant
7. the environmental and economic sustainability of off-shore cage farming and the quality of the local environment
8. Fish Cage Integrated Model – FICIM

Conclusions

Bluefarm, PP4 and LP will visit PP8 and PP10 from January to June 2020, in order to install the current meter and other electronic sensors on the field and to finalised the pilot plant (activity 3.1). LP will continue the anaerobic tests in pilot plant on effluents from PP9 during the fourth project period. LP is drafting a scientific paper concerning the first experimental results to be submitted for publication (activity 3.2). UniPD and Technos activities completed the monitoring of energy and environmental parameters at PP8, PP9 and PP10 during the fourth project period (activity 3.2).

Next Steps

The following training will be organized in Croatia by the end of the year with the particular attention to the Croatian market and farmers.