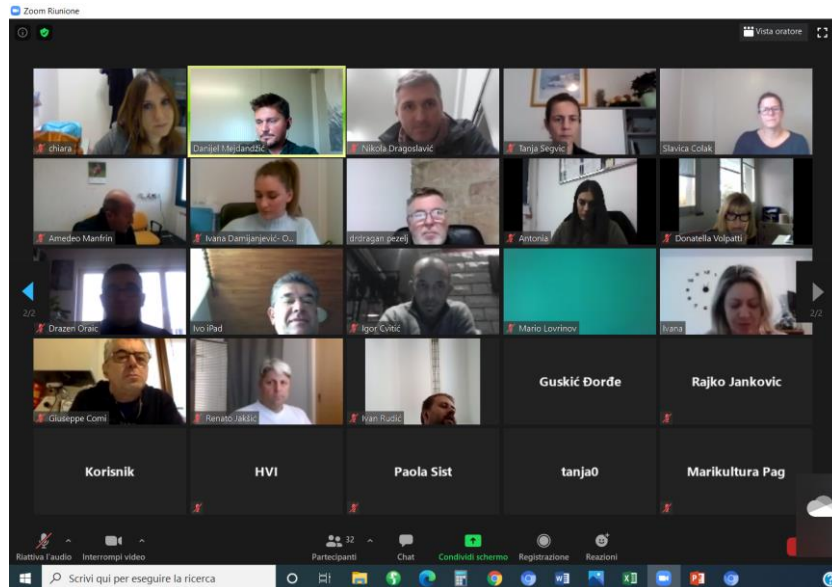


# AdriAquaNet

Enhancing Innovation and Sustainability in Adriatic Aquaculture

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

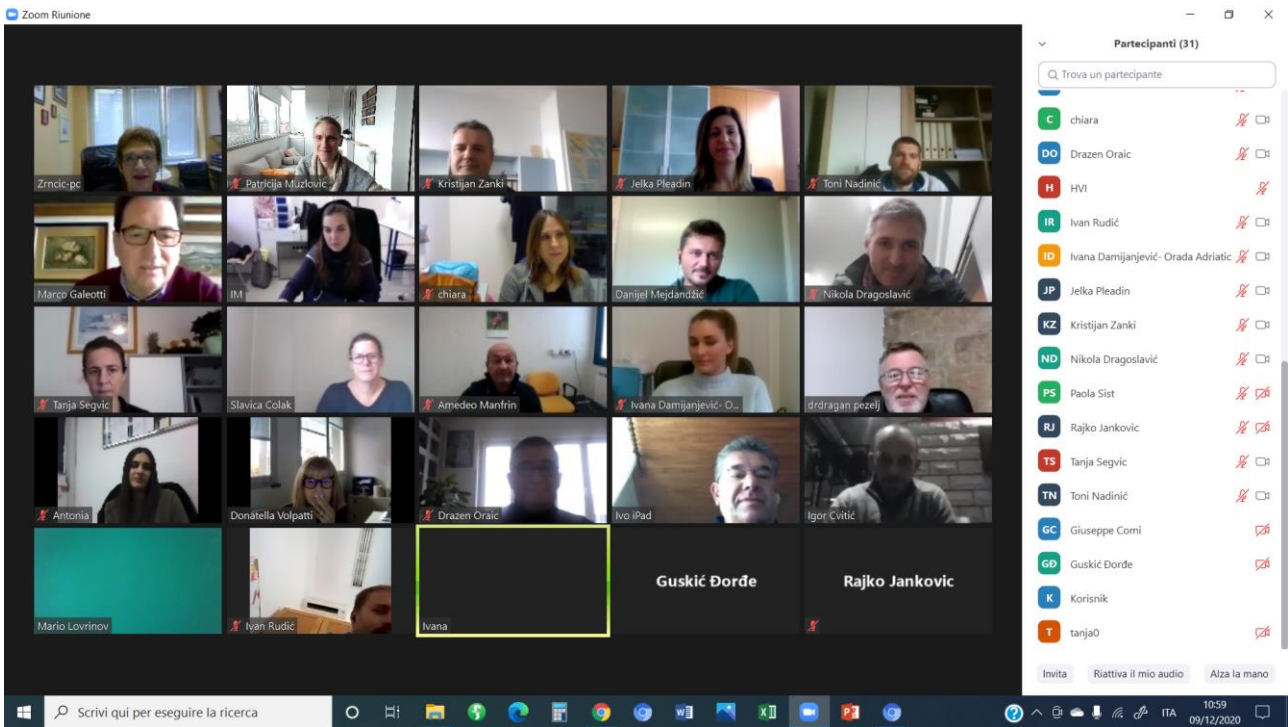
## WP3– Training nr. 2, report, December 9 2020



## Introduction

The **second training course** entitled **“SUSTAINABLE INNOVATION IN FEEDING, FARMING, HEALTH MANAGEMENT AND QUALITY OF SEA BASS AND SEABREAM”** was held on December 9, 2020 in remote via zoom  
<https://us02web.zoom.us/j/81180755685?pwd=MmMvVE5GYVZmQzY1T09DL3lnaDVUdz09> and involved 46 professionals. The focus target were SMEs and fish farmers in Croatia. The agenda of the training, programme, training materials-presentations, attendee list of participants, press release, photos, video link are part of this report.

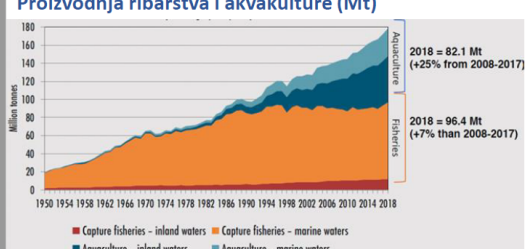
1



PP3 (Tanja Segvic-IZOR) gave a lesson on subjects dealing with WP3.1 entitled “*Nova generacija hrane za mediteranske vrste riba u kaveznom uzgoju: rezultati pilot istraživanja u sklopu projekta AdriAquaNet*” (“*New generation of food for Mediterranean fish species in cage farming: results of a pilot study within the AdriAquaNet project*”).

Održivosti i globalne resursi hrane

### Proizvodnja ribarstva i akvakulture (Mt)



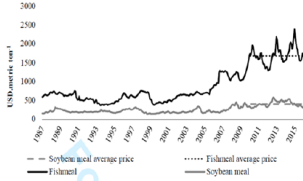
2018 = 82.1 Mt (+25% from 2008-2017)  
2018 = 96.4 Mt (+7% than 2008-2017)




Legend: Capture fisheries - inland waters, Capture fisheries - marine waters, Aquaculture - inland waters, Aquaculture - marine waters

### Pitanje ribljeg brašna i ulja



«Idealni» sastojci riblje hrane:

- *Visoka razina probavljivih bjelančevina i energije*
- *Izvršne zalihe i ravnoteža aminokiselina*
- *Izvor polinezasićenih ω3 masnih kiselina, vitamina i minerala*
- *Visoka ukusnost*



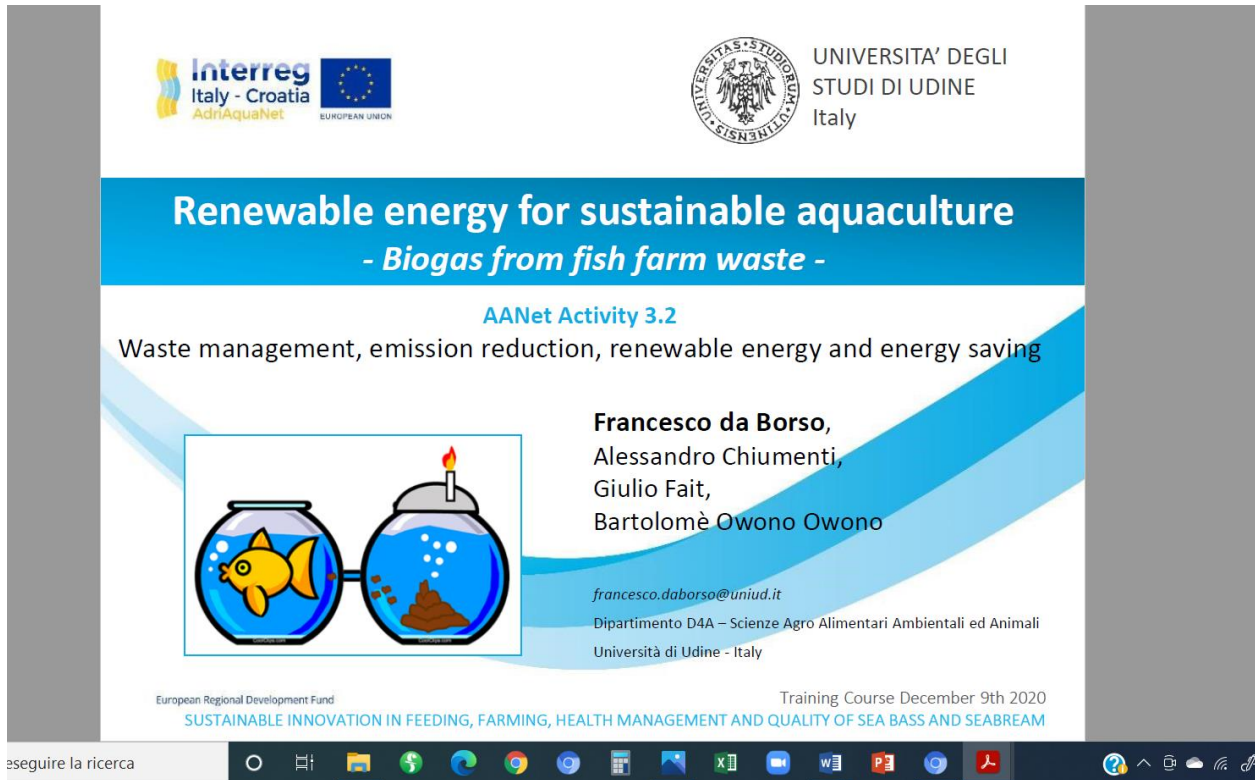




**Ekološko/ Ekonomski sve je manje održivo i dostupno**  
Socio-ekonomska opravdanost

LP (F.Da Borso) gave a lesson dealing with WP3.2 **“Renewable energy for sustainable aquaculture”**.

3



The screenshot shows a presentation slide with the following content:

- Logos:** Interreg Italy - Croatia AdriAquaNet and the European Union flag on the top left; the University of Udine logo and name on the top right.
- Title:** Renewable energy for sustainable aquaculture - Biogas from fish farm waste -
- Activity:** AANet Activity 3.2
- Topic:** Waste management, emission reduction, renewable energy and energy saving
- Illustration:** A diagram showing a fish in a tank on the left, connected by a pipe to a biogas digester on the right, which has a flame coming out of the top.
- Presenters:** Francesco da Borso, Alessandro Chiumenti, Giulio Fait, Bartolomè Owono Owono
- Contact:** francesco.daborso@uniud.it
- Department:** Dipartimento D4A – Scienze Agro Alimentari Ambientali ed Animali
- Location:** Università di Udine - Italy
- Footer:** European Regional Development Fund, SUSTAINABLE INNOVATION IN FEEDING, FARMING, HEALTH MANAGEMENT AND QUALITY OF SEA BASS AND SEABREAM, Training Course December 9th 2020

At the bottom of the screenshot, a Windows taskbar is visible with various application icons and the search bar.

PP4 (A. Manfrin - IZSVE) presented the video **“Welfare monitoring and environmental friendly approach on Croatian Farms”** with a video shown also in Ostuni realised in Zadar during summer 2020.

4



The screenshot shows a presentation slide with the following content:

- Logos for Interreg Italy - Croatia AdriAquaNet and the European Union.
- Title: **Welfare monitoring and environmental friendly approach in Croatian farms**
- Image: A group of people on a boat handling a fish.
- Authors: **Amedeo Manfrin<sup>1</sup>, Eleonora Focchi<sup>1</sup>, Marco Bullo<sup>2</sup> e Fabrizio Dughiero<sup>2</sup>**
- Footnote 1: <sup>1</sup>Istituto Zooprofilattico Sper.<sup>le</sup> delle Venezie – Legnaro (PD)
- Footnote 2: <sup>2</sup>Dipartimento di Ingegneria Industriale - Università degli studi di Padova
- Logos for the European Regional Development Fund and IZSVE (Istituto Zooprofilattico Sperimentale delle Venezie).

At the bottom of the screenshot, a Windows taskbar is visible with various application icons and the text "ri qui per eseguire la ricerca".

VIDEO LINK: <https://www.youtube.com/watch?v=9r4KsFc1sPY>



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## Topics

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

1. Production of the Acquaculture and the ideal fish food ingredients
2. From fish diets to veggy diests: use of the Fishmeal and fish oil in the acquafish, PBM poultry by-product meal
3. Feeding trials results on *Dicentrarchus labrax* and on *S. aurata* at the IZOR's lab and how to deal will the market with Orada Adriatic (Cres), Orada –Friskina ltd (Rogoznica)
4. Biogas from fish farm waste: effluents from marine aquaculture
5. RAS the study case
6. Bio Methane Potential (BMP) and Bio Reactor Simulator
7. Development of Operational Welfare Indicators that can realistically be used on the farm
8. Novel process for war heating thanks to a photovoltaic new plant with Ittica Caldoli (Lesina)

## Conclusions

During the first set of training the following lessons have been produced and were shared with the participants of the second training cycle:

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

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

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

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

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 presence or online in Italy in 2021, according the sanitary situation.