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PROJECT TECHERA - A new technological era in the development of fishing in the Adriatic

A year ago, the launch of an innovative project called TECHERA was announced, which aimed to encouraging technological cooperation in the field of education and progress on the basis of a number of previous programs. The TECHERA project was co-financed by the Interreg cooperation program Italy-Croatia 2014-2020. in as part of Cluster 1 "Connecting with the sea: a data-based solution in the marine economy", and is brought together experts from Croatia and Italy to ensure and improve technological capacities in education sector.

The TECHERA project started on April 1, 2022 after the approval of the Interreg cooperation program Italy-Croatia. Partners on the project include Alma Mater Studiorum - University of Bologna as the lead partners, ASSAM, Adriatic-Ionian Euroregion, Municipality of Ravenna, OGS - National Institute for oceanography and experimental geophysics, VENETO REGION AGENCY for innovations in the primary sector- Veneto Agricoltura, Zadar County and the Ministry of Agriculture.

At the first project meeting, which was held in Ravenna, the partners presented the project and defined the plan work, calendar of activities and future project events. This international cooperation made it possible exchange of knowledge and experience and joint development of innovative approaches, especially in education.

The TECHERA project aimed to stimulate interest and innovation in education and use educational technology as a tool for improving the process of learning interests. The focus of the project provided the basics to start with work on the integration of new technologies in teaching, the development of skills of teachers and students, and creation innovative educational content.

The TECHERA project is the result of the capitalization of six projects, ADRIREEF, FAIRSEA, ITACA, SUSHIDROP, PRIZEFISH and BLUE KEP, which tested innovative practices and approaches in the economy of the economy.

TECHERA project inputs (eg project ideas for 2021-2027) will also focus on circular economy (e.g. recovering value from waste or preventing the use of resources in accordance with circular economy action plan), climate change (reducing the carbon footprint of the fleet and aquaculture) and synergy with the funding programs HORIZON and LIFE (waste topic and water topic: management sea and coastal waters). The project is intended for key target groups including relevant stakeholders marine economy at the local, regional, national and international level.

The activities of the TECHERA project are designed to achieve the best transfer of key approaches from of the implemented cluster and recognition links for future projects.

The goals of this project were numerous. The first is to develop a cross-sector data sharing cluster, using approaches, models and results of previous projects. Also, TECHERA wants to contribute to smart specialization and the adoption of advanced technologies in the fishing sector, encouraging the competitiveness of companies. Promotion of innovative career paths in the blue economy is also an important goal of the project.



The fishing sector or the fishing sector encompasses a wide range of occupations and roles in the entire value chain, starting from the catch itself and all the way to the consumer. Here are some examples of occupations that are included in fishing sector:

1. Fisherman: A person who is engaged in direct fishing of fish and other marine organisms. Fishermen can use different fishing methods and techniques.
2. Boat captain/fishing skipper: The person responsible for managing the fishing boat, crew coordination and safe navigation. The captain of the boat has experience in fishing and owns navigational skills.
3. Sailor/fisherman: A person who works on a fishing boat and helps in all aspects fishing, including setting and collecting nets, maintaining equipment and providing support fishermen during the catch.
4. Biologist of marine organisms: An expert who studies marine organisms, their biology, population and environment. Marine biologists monitor the state of fish and other marine populations organisms and provide guidelines for sustainable fisheries.
5. Fisheries technician: A person who provides technical support to fishermen and manages fishing equipment, including maintenance of nets, tools and vessels. Technicians can also work in development and testing innovative fishing tools and technologies.
6. Fish processing technologist: The person responsible for processing freshly caught fish. Technologists for fish processing takes care of cleaning, filleting, packing and storing fish to ensure product quality.
7. Fisheries inspector: An expert who conducts inspections and supervision of fishing activities as would ensure compliance with regulations, protection of marine ecosystems and preservation of fish population. Inspectors check fishing gear, quota compliance and enforcement of sustainable rules fishing.
8. Sustainable Fisheries Specialist: A person who works on the development and implementation of policies, programs and measures aimed at sustainable fishing. Experts in sustainable fisheries work to promote ecologically responsible fishing practices, management of fish resources and preservation of the marine environment.
9. Marketing specialist in the fishing sector: A person who deals with the promotion and sale of fish products products. Marketers develop strategies for branding, packaging and distribution of fish products products to attract consumers.

These are just some of the many professions that are included in the fishing sector, for which there was no one before complete insight. Each occupation has its own specific role and contributes to sustainable fishing, protection marine environment and ensuring product quality for consumers.

In addition to the educational framework and in accordance with Blue Growth, the implementation activity should recognize the factors influence in production and marketing and make recommendations for the next program period fulfilling the criteria development program guidelines.

The goal of the activity was to describe current issues in fisheries with a special emphasis on aquaculture and turn to the challenges of development, research as part of economic development and financing.



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The strategy to be adopted is to identify the essential themes and strategies that have been considered so far mentioned realized projects and which could be reconsidered or upgraded.

The final conference of the TECHERA project was held yesterday, June 19, 2023, in Dubrovnik. On the results and achievements of the project were presented at the conference, and key innovations in education were highlighted sector. Participants had the opportunity to hear about the implementation of digital educational information in classes, developing skills and creating educational content adapted to different ages and interests of students.

The TECHERA project represents an important step towards the modernization of the educational system and its empowerment teachers and students in the use of modern technologies and arousing interest in the breadth of possibilities fishing occupations. The results of this project are expected to have a long-term positive impact on quality education and preparing students for the challenges of the future, as well as providing an insight into the breadth of professional provisions covering the fishing sector.

Službena stranica projekta: <https://www.italy-croatia.eu/web/techera>



ŽUPANIJSKA KRONIKA

TECHERA Inovativni projekt za novu tehnološku eru razvoja ribarstva na Jadranu

Važan korak u pobuđivanju interesa za ribarska zvanja

Cilj aktivnosti je bio i opisati aktualnu problematiku kod ribarstva i s posebnim naglaskom kod akvakulture te se okrenuti u izazove razvoja, istraživanja u sklopu razvoja gospodarstva i financiranja. Također, **TECHERA** želi doprinijeti pametnoj specijalizaciji i usvajanju naprednih tehnologija u ribarstvu



BOJAN BOGDANIĆ

Cilj aktivnosti je bio i opisati aktualnu problematiku kod ribarstva

Nikolina LUCIĆ

ZADAR Tijekom 2022. godine pokrenut je inovativni projekt **TECHERA** - nova tehnološka era u razvoju ribarstva na Jadranu, koji je imao za cilj poticanje tehnološke suradnje u području obrazovanja i napretka na temelju niza dosadašnjih programa. Projekt **TECHERA** okupio je stručnjake iz Hrvatske i Italije s ciljem osiguravanja i unaprijeđenja tehnoloških kapaciteta u obrazovnom sektoru.

Partneri na projektu uključuju Alma Mater Studiorum - Sveučilište u Bologni kao vodećeg partnera, ASSAM, Jadransko-jonsku euro-regiju, Općinu Ravenna, OGS - Nacionalni institut za oceanografiju i eksperimentalnu geodetiku, AGENCIJU REGIONALNEGO VEGETARIJAMA VENETO za inovacije u primarnom sektoru - Veneto Agricoltura, Zadarsku županiju te Ministarstvo poljoprivrede.

Inovacije u nastavi

Na prvom projektom sastanku održanom u Ravenni, partneri su predstavili projekt, definirali plan rada, kalendar aktivnosti i budućih projektnih događanja. Ova međunarodna suradnja omogućila je

razmjenu znanja i iskustava te zajedničko razvijanje inovativnih pristupa ponajviše u obrazovanju. **TECHERA** projekt imao

je za cilj potaknuti interes i inovacije u obrazovanju i koristiti edukacijsku tehnologiju kao alat za unaprijeđenje procesa interesa učenja.



Ceperferiate

Fokus projekta dao je osnovu za početak rada na integraciji novih tehnologija u nastavu, razvoju vještina kod učitelja i učenika te stvaranju inovativnih edukacijskih sadržaja. Projekt **TECHERA** rezultat je kapitalizacije šest projekata koji su tešili inovativne prakse i pristupe u ekonomiji ribarstva. Ulazni materijal projekta će se također usredotočiti na kružno gospodarstvo (na primjer povrat vrijednosti iz otpada ili sprječavanje korištenja resursa u skladu s Akcijskim planom kružnog gospodarstva), klimatske promjene (smanjenje ugljičnog otiska flote i akvakulture) i sinergiju s programima financiranja **HORIZON** i **LEFE** (tema otpad i tema voda: upravljanje morskim i obalnim vodama). Projekt je namijenjen za ključne ciljeve skupine uključujući relevantne dionike morskog gospodarstva na lokalnoj, regionalnoj, nacionalnoj i međunarodnoj razini. Aktivnosti projekta **TECHERA** su zamašnije tako da se postižu najbolji prijenos ključnih pristupa iz implementiranog klastera te poveznica



VEDRAN KARUZA

prepoznavanja za buduće projekte. Ciljevi ovog projekta bili su mnogobrojni. Prvi je razviti međusektorski klaster za daljnje podataka, koristeći pristupe, modele i rezultate prethodnih projekata.

Pametne specijalizacije

Također, **TECHERA** želi doprinijeti pametnoj specijalizaciji i usvajanju naprednih tehnologija u sektoru ribarstva, potičući konkurentnost poduzetaka. Promocija

Želi se doprinijeti usvajanju naprednih tehnologija u ribarstvu

**KVALITETA
OBRAZOVANJA**

Očekuje se da će rezultati ovog projekta imati dugoročni pozitivan utjecaj na kvalitetu obrazovanja i pripremu učenika za izazove budućnosti, kao i pružiti uvid u širinu profesionalnih opredjeljenja koje pokriva ribarski sektor



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inovativnih karijernih putova u plavoj ekonomiji također je važan cilj projekta. Pored obrazovnog okvira i u skladu s Plavim rastom, aktivnost provedbe treba prepoznati čimbenike utjecaja u proizvodnji i tržištu te dati preporuke za sljedeće programsko razdoblje ispunjavajući kriterije razvojnih programskih smjernica. Cilj aktivnosti je bio i opisati aktualnu problematiku kod ribarstva i s posebnim naglaskom kod akvakulture te se okrenuti u izazove razvoja, istraživanja u sklopu razvoja gospodarstva i financiranja. Jedna od ključnih smjernica Strategije koja će se usvojiti jest identifikirati bime teme i strategije koje su razmatrane u do sada ostvarenim projektima i koje bi se moglo ponovo razmotriti ili nadograditi. Završna konferencija projekta **TECHERA** održana je u ponedjeljak, 19. lipnja u Dubrovniku. Na konferenciji su predstavljene rezultati i postignuća projekta te su istaknute ključne inovacije u obrazovnom sektoru. Studionici su imali priliku čuti o implementaciji obrazovnih informacija digitalnih u nastavu, razvoju vještina i stvaranju edukacijskih sadržaja prilagođenih različitim uzrastima i interesima učenika. **TECHERA** projekt predstavlja važan korak prema modernizaciji obrazovnog sustava i osnaživanju nastavnika i učenika u korištenju suvremenih tehnologija i pobuđivanju interesa za širinu mogućih ribarskih zanimanja. Očekuje se da će rezultati ovog projekta imati dugoročni pozitivan utjecaj na kvalitetu obrazovanja i pripremu učenika za izazove budućnosti, kao i pružiti uvid u širinu profesionalnih opredjeljenja koje pokriva ribarski sektor.