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Project background, objectives, structure, and timeline

Assoc. prof. dr. Anželika Dautartė
Vytautas Magnus University

The Digital Blue Carrier for a Post-Carbon Future – Curriculum Innovations in Aquaculture [DiBluCa]
No. 2023-1-LT01-KA220-HED-000154247
The Kick-off meeting, 23-24 January 2024

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Partnership

Vytautas Magnus University

Balikesir University

Odesa National University of Technology

University of Dubrovnik

University of Thessaly

What do we want to achieve by implementing the project?

- The DiBluCa Project aims:
  - to improve higher education in aquaculture and fisheries.
    - The COVID-19 and war in Ukraine crisis emphasized the value of digital education in Europe
  - to train skilled technical staff for this sector:
    - provide innovative curricula in HE institutions on the:
      - sustainability of water resources and footprint,
      - fisheries now and in the future,
      - ensure a sustainable industry and long-term employment.

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MCMXXII

What activities are we going to implement?

- The DiBluCa project will be carried out in four phases:
  - design, localise, and modify curriculum and learning materials.
- There are planned:
  - transnational workshops,
  - a digital portal with modules for user-friendly e-learning and best practices.
  - the innovative guidebook for aquaculture higher education against global warming will be printed in English;
  - an ebook will be accessible in the languages of all project partners.

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What project results and other outcomes do we expect your project to have?

- adapted HE and training programmes for future aquaculture demands,
- long-term employment for aquaculturists,
- rising numbers of university students,
- changing attitudes and trends,
- enhancement of academics and teachers aquaculture education knowledge and skills,
- creation of complex educational materials,
- integration of the digital platform with national workshop(s) and guidelines,
- Handbook and Interactive E-book,
- International conference and multiplier events.

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Project structure

Management
VDU (LT)

Dissemination
ONUT (UA) and all partners

Quality Management:
BAUN (TR) and UTH (GR)

WP1- Project Management
VDU (LT), co-BAUN (TR) and all partners

WP2- Complex training material with innovative curriculum for higher education
BAUN (TR)

WP3- Digital platform with modules, national workshop(s) and best practice guidance
VDU (LT), co-BAUN (TR)

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WP1- Project Management: VDU (LT), co-BAUN (TR) and all partners

- To ensure quality management:
  - Management,
  - executive,
  - control teams
- Each partner has a member in the team.
- A mid-project report will be prepared, followed by a final report containing all project reports and evaluations.
- This final report outputs an analysis of 24 months' activities of the project, and all related technical and financial situations will be reviewed, evaluated, and presented to the Lithuanian National Agency.

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WP2- Complex training material with innovative curriculum for higher education, BAUN (TR)

WP2A1- Compendium workshops for state-of-the-art report BAUN (TR)

WP2A2- Elaboration of Pedagogical methodology for education ONUT (UA)

2nd TPM organisation in Greece in July 2024-UTH (GR)

WP2A3 - Development of Curriculum and training modules for Aquaculture Higher Education against global warming and overfishing, UNIDU (HR), co-UTH (GR)

WP2A4 - Elaboration of training content with digital modules (Responsible partners for the coordination and monitoring are BAUN (TR), co VDU (LT)

3rd TPM organisation in Dubrovnik in January 2025- UNIDU (HR)

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WP2. Objectives

1. To analyse the current situation in the world and partner countries,

2. To develop a Pedagogical methodology,

3. To create an innovative HE curriculum in aquaculture regarding global warming that meets current needs and is highly transferable.

WP2A1- Compendium workshops for state-of-the-art report BAUN (TR)

- The partners will hold compendium workshops with stakeholders to discuss the impact of global warming and overfishing on aquaculture, as well as the sector's needs in the face of global warming, new trends in aquaculture, and the skills that qualified personnel will require in the future of the aquaculture sector.
  - At least 40 stakeholders/partner.
- Two questionnaires will be distributed during the workshops:
  - academicians/lecturers (15)
  - for aquaculture higher education students and master and PhD students (25).
- Following statistical analyses, each partner will prepare a report on:
  - the state-of-the-art in Aquaculture Education
  - the current situation in their respective countries.
- The partner in charge of this output will create a general European report.

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WP2A2- Elaboration of Pedagogical methodology for education ONUT (UA)

- The DiBluCa Project proposes e-learning with integrated modules and OERs for all.
- Using the WP2A1 results, the partners will develop a pedagogical methodology for an innovative aquaculture curriculum.
- Impact(s) to be expected:
  - The teaching methodology of the revised aquaculture curriculum for higher education students, academicians/lecturers, and the industry will be described.

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WP2A3 - Development of Curriculum for Aquaculture HE against global warming and overfishing, UNIDU (HR), co-UTH (GR)

- An accredited curriculum for higher education will be designed for tertiary education and the EQF level 5-6.
- This will be a transferable curriculum for other European HEIs for aquaculture education.
  - The transferability potential of this curriculum is very high because there is no curriculum for aquaculture against global warming and overfishing in any EU member countries for higher education.
- As a result, the accredited curriculum can be transferred to higher education in aquaculture engineering, agricultural engineering, and veterinary medicine

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WP2A4 - Elaboration of training content with digital modules (Responsible partners for the coordination and monitoring are BAUN (TR), co VDU (LT)

- Elaborating training content with digital modules will allow the creation of comprehensive, attractive and transferable digital content to be used in partner countries and wherever it is needed.
- The draft planned digital modules will include 6 titles:
  1. Effects of global warming on water quality and impact on aquaculture, VDU, LT
  2. Global warming and breeding, biotechnology in aquaculture – ONUT (UA)
  3. What should change feed and feeding in aquaculture due to global warming, BAUN (TR)
  4. System selection against global warming in aquaculture, UTH (GR)
  5. Environmental impacts of aquaculture from global warming perspective, UNIDU (HR)
  6. Effects of global warming on diseases in aquaculture and protective applications, VDU, LT

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WP2A4 - Elaboration of training content with digital modules (Responsible partners for the coordination and monitoring are BAUN (TR), co VDU (LT)

Text document:

- Layout
- Lenght
- References and citation

Slides:

- Layout
- Number
- References and citation

Case Studies:

- At least 1/module

Quiz

- 1/module

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WP3- Digital platform with modules, national workshop(s) and best practice guidance, VDU (LT), co-BAUN (TR)

- WP3A1-Website with E-learning platform and educational recourses VDU (LT).
- WP3A2-Pilot implementation for delivering educational curricula: BAUN (TR).
- WP3A3- Best Practice Guidance for academics/teachers/trainers/students and decision-makers in aquaculture UNIDU (HR), co ONUT (UA)
- WP3A4-Creation of The Success Story Video BAUN (TR)
- WP3A5-Dedicated European Aquaculture Handbook/e-book: UNIDU (HR), co- UTH (GR) and VDU (LT).
- WP3A6: National and European Level Awareness-raising campaign (Multiplier events): UTH (GR)
- Webinars: UNIDU (HR)
- International Conference connected to final TPM in Balikesir, BAUN (TR)

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WP3A1-Website with E-learning platform and educational recourses VDU (LT)

- Project website with e-learning platform uploaded with:
  - training modules as innovative curriculum (1 EN and all partners languages),
  - online OER training system with integrated curriculum with the case study material in EN and all partner languages
- VDU will present the draft e-learning platform during the 2nd TPM

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WP3A2-Pilot implementation for delivering educational curricula: BAUN (TR).

- Pilot evaluation of the educational curricula with experts from each partner
- Leader will prepare:
  - A methodology,
  - Reporting templates,
  - Feedback questionnaire
  - A summary report

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WP3A3- Best Practice Guidance for academics/ teachers/ trainers/ students and decision-makers in aquaculture UNIDU (HR), co ONUT (UA)

- Guidance for the application in practice for the different target groups aims to help the university and stakeholders understand the aquaculture against global warming.
- The guideline will be in English, and the partners will translate them.

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WP3A4-Creation of The Success Story Video BAUN (TR)

- Creation of the Success Story video will encapsulate the positive experiences in aquaculture in partner countries and Europe.

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WP3A5-Dedicated European Aquaculture Handbook/e-book: UNIDU (HR), co- UTH (GR) and VDU (LT).

- 6 chapters containing:
  - contemporary,
  - innovative
  - and the latest scientific applications for Aquaculture in post-carbon future.

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WP3A6: National and European Level Awareness-raising campaign

- Multiplier events: UTH (GR)
- Webinars: UNIDU (HR)
- International Conference BAUN (TR)

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