

Report – covers the period from 01.10.2019 to 30.09.2022 r.

✓ **Task 1. Organisation of mobilities**

As part of this task, a total of 60 mobilities (study visits, internships, including remote internships) were carried out, including 22 Partner mobilities. As part of Task No. 1, in accordance with the Change Card, 25 foreign guests (including remote participants) completed the mobility at the closing conference summarising the Project, which took place at the PBŚ on September 12-14, 2022.

During the mobility, participants participated in meetings to start joint research, learn new techniques, and establish contacts. As a result, many joint scientific papers were created during the Project, 8 grant applications were submitted (of which 4 were co-financed), and cooperation was established in the organisation of the conference. The EcoSET Project gave the opportunity to participate in training and workshops.

Thanks to the EcoSET Project, the previous cooperation with Ondokuz Mayis University was extended to include a new faculty and discipline. As part of the Project, on May 30-June 3, 2022, the International Wicker Workshop took place on the Bydgoszcz University of Science and Technology campus. Polish employees and students of the Faculty of Design Arts as well as the representatives of the EcoSET Partner - Faculty of Fine Arts, Ondokuz Mayis University (OMU, Samsun, Turkey), were involved in the implementation of the monumental wicker sculpture. Turkish participants: dr ENGIN GUNEY, dr DENIZ EKMEKÇIOĞLU, dr ERKAN LIKOS, BEYZA NUHOĞLU, AYBUKE SARIOGLU and BERKAN SUNAYOL.

On June 2, 2022, we opened the exhibition of PhD Engin Guney from Ondokuz Mayis University. The exhibition consisted of twenty-one paintings. Three of them were created at our university. During the vernissage, the paintings were symbolically handed over to His Magnificence Rector, Prof. Marek Adamski.

Thanks to the Project, participants could also acquire skills in the field of statistics, project management, and metagenomics.

On 9-13 May, a conference of young scientists and their supervisors was organised in Molise, Italy (UNIMOL), attended by representatives of PBS and UNIMOL. The seminar was attended by students (Sebastian Właźlak, Aleksandra Bełdowska, Niloofar Akhavan, Mariam Ibrahim, Agata Szczerba) and their supervisors (prof. Marek Bednarczyk, prof. Katarzyna Stadnicka, prof. Aleksandra Dunisławska, PhD Jakub Biesek) and representatives of the Partner. In total, 25 oral presentations were presented, divided into 3 thematic sections (Sustainable Plant Production and Protection: 6 presentations; Welfare, Biotechnology and Quality of Animal Production: 11 presentations; Food Science, Technology and Biotechnology: 8 presentations). Eight posters were also presented during the conference.

Links:

<https://www2.unimol.it/blog/2022/05/06/allunimol-la-conferenza-internazionale-per-dottorandi-dal-titolo-research-and-innovation-in-agricultural-livestock-and-food-sciences/>

http://web.unimol.it/galleria2022/UniMol_conferenza_internaz_dottorandi_10_5_22/default.htm

✓ **Task 2. Subsidising common scientific publications**

As part of this task, a total of 40 papers were created (14 in the discipline of " Civil engineering and transport and 26 in the discipline of " Animal science and fisheries"). 37 articles were co-financed from the Project's funds, and 3 papers were financed from sources other than the EcoSET Project, but they contain information about cooperation within the Project. The next 3 articles in cooperation with the Partners are under review, the representatives of the PBS and the Partners are working on other articles (processing the results obtained during the Project).

The sum of points according to the list of journals obtained for published works is 4,565 points. The total Impact Factor is 121,721.

Summary of publications by Partners:

1. Most articles were published in cooperation with: Adana Science and Technology University (11), University of Molise (8), Ondokuz Mayıs University (8).
2. One of the articles was created in cooperation with more than one Partner.

✓ **Task 3. Subsidising participation in international conferences**

Faculty of Civil and Environmental Engineering and Architecture

In the fourth quarter of 2019, WBAiIŚ employees took part in an international conference co-organised by the Partner (ICEUBI2019 - International Congress on Engineering - Engineering for Evolution, which took place on November 27-29, 2019). As part of the conference, 2 papers in the discipline of "civil engineering and transport" were presented.

Employees of WBAiIŚ took part remotely in the international conference WMCAUS 2020 5th World Multidisciplinary Civil Engineering – Architecture – Urban Planning Symposium, which took place on September 1-05, 2020. As part of the conference, 5 papers from the discipline of "architecture and urban planning" were presented.

Employees of WBAiIŚ took part remotely in the international conference WMCAUS 2021 6th World Multidisciplinary Civil Engineering – Architecture – Urban Planning Symposium, which took place on 30.08-03.09.2021. A total of 15 works were presented, including 7 from the discipline "architecture and urban planning" and 8 in the discipline "civil engineering and transport". 7 of the submitted works were created in cooperation with project partners.

Employees of WBAiIŚ took part remotely in the international conference WMCAUS 2022 7th World Multidisciplinary Civil Engineering – Architecture – Urban Planning Symposium, which took place on September 5-9, 2022. A total of 13 works were presented, including 7 from the discipline "architecture and urban planning" and 6 in the discipline "civil engineering and transport". 2 of the submitted works were created in cooperation with project partners.

Faculty of Animal Breeding and Biology

01-04.12.2020: 71st Annual Meeting of European Federation of Animal Science, Porto 2022 (konferencja zdalna). The conference was attended by 3 people. One of them chaired the session "Recent advances in livestock physiology: cellular, organoid and whole-organism studies - 11:45 physiology study commission meeting". In addition, 4 topics were submitted for the conference, which were accepted and presented by 2 employees of the WHiBZ. Prof. Beata Sitkowska and PhD Magdalena Kolenda presented 4 posters.

30.08-03.09.2021: one person from WHiBZ took part in 72nd Annual Meeting of the European Federation of Animal Science organised by European Association for Animal Production (EAAP). Prof. Katarzyna Stadnicka was a chairwoman for session 32: „Meat and fat quality in broilers and finishing pigs”, she also presented two presentations. Prof. Stadnicka was also appointed to the EAAP Scientific Committee for Pigs.

On September 27-30, 2021, representatives of the Faculty took part in the The International Congress on Domestic Animal Breeding Genetics and Husbandry (ICABGEH-21), co-organised by prof. Hasana Ondera from Ondokuz Mayis University, who, as part of the cooperation, invited PBS representatives to participate in the conference free of charge. In addition, Prof. Dariusz Piwczyński has been invited as an Invited speaker. Six presentations and two posters were presented.

On October 14, 2021, representatives of Ondokuz Mayis University (2 people) took part in the international conference "Environment - Animal - Human" organised by Scientiarum Polonorum Zootechnica - Animal Science. 2 presentations were given and one article was submitted for the Special Issue.

73rd Annual Meeting of the European Federation of Animal Science (EAAP) 2022 in Porto, Portugal – participation of 5 people (PhD Magdalena Kolenda, Prof. Ewa Grochowska, Prof. Aleksandra Dunisławska, Sanling Zuo, Niloofar Akhavan), 4 on site participation, one remote participation. Presentations and posters were presented.

Moreover, cooperation in organising an international conference was established – as a result of a successful online internship with Ondokuz Mayis University and subsequent study visit, the Turkish partners invited 3 people from PBŚ to the organising committee (1 person as the vice-director of the conference) of the conference The International Congress on Domestic Animal Breeding Genetics and Husbandry which took place on October 3-5, 2022. PBŚ representatives accepted the invitation and actively participated in the organisation of the conference (<https://www.icabgeh.com/committees>). 11 people from WHiBZ submitted abstracts for the conference and presented them in the form of an oral presentation or a scientific poster. Cooperation will continue in the case of organising the conference also in 2023.

✓ **Task 4. Organisation of a closing conference to sum up the Project**

On September 12-14, 2022, the closing conference summarising the EcoSET Project was held. Three departments of PBS were involved in the conference: the Faculty of Animal Breeding and Biology, the Faculty of Civil Engineering, Architecture and Environmental Engineering and the Faculty of Design Arts. As part of the two-day conference, 33 papers were presented in 3 thematic sessions covering the following disciplines: (1) Civil engineering and transport, (2) Animal science and fisheries, (3) Fine arts and conservation. 13 posters were also presented. 46 abstracts were submitted. A book of abstracts has also been prepared.

On Monday, September 12, 2022, three exhibitions of Partner Ondokuz Mays University employees were officially opened: an exhibition of graphic works by prof. dr hab. Ali Seylana - Dean of the Faculty of Fine Arts, the exhibition of illustrations by dr hab. Özlem Ayvaz Tunc and a collective exhibition of posters by employees and students of the Faculty of Fine Arts - "Environmental posters".

At the end of the ceremony, an exhibition of works by students and employees of the Department of Interior Design of the Faculty of Design Arts of PBS was opened. The idea of the exhibition was, like the EcoSET project itself, the broadly understood idea of ecology and sustainable development. The works also touched upon the problem of the war in Ukraine.

The honorary patronage over the event was taken by the Mayor of the City of Bydgoszcz, Mr Rafał Bruski. Media patronage was held by: TVP Bydgoszcz and Polish Radio PiK

✓ **Other activities:**

- ✓ On May 9-12, 2022 took place a conference of young scientists and their supervisors, "International PhD student conference. Research and Innovation in Agricultural, Livestock and Food Sciences" organised at the Department of Agricultural, Environmental and Food Sciences of the University of Molise

<http://ecoset.utp.edu.pl/2022/07/18/international-phd-student-conference-university-of-molise-italy/>

- ✓ On May 30-June 3, 2022, the International Wicker Workshop was held. Six representatives of Ondokuz Mays University attended the workshop.

<http://ecoset.utp.edu.pl/2022/06/22/international-wicker-workshop-at-bydgoszcz-university-of-science-and-technology/>

- ✓ Eight grant applications were submitted (of which 4 were co-financed),
- ✓ As a result of establishing partnerships within the Project, the agreements on scientific and didactic cooperation were signed with the following universities:
 - 19.02.2021 - University of Beira Interior,
 - 27.04.2021 - University of Maryland,
 - 01.10.2021 - Adana Science and Technology University,
 - 25.05.2022 – Ondokuz Mayıs University.