



EDITORIAL

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We have reached the end of 2022 with the 19th Edition of the RealizAção Extension and Culture Magazine, presenting ten articles and two experience reports which demonstrate the continuity of extension work that was maintained, even during the COVID-19 pandemic, contributing to education, income generation, health and sustainability, in various communities.

In this edition, readers will be able to learn about university extension works that have been developed for a longer time, as well as appreciate actions that arose from the needs of people, and the universities themselves, due to the global health crisis moment, which was the COVID-19 pandemic.

In the articles and reports, we will find discussions that produced impacts in the places of their execution, but which, however, can be replicated to other locations and audiences.

Furthermore, it is worth noting that the thematic areas of the actions described in the manuscripts permeate education, culture, communication, environment, health, technology and production and work and income. Following, the published articles:

ARTICLES

With the perspective of university extension that should prolong over time, which seeks to understand its target audience, its demands and its objectives, carrying out dialogical interaction with the community to be served, we visualize the article **FISH FARMING IN THE MUNICIPALITY OF AMAMBAI-MS: DEMAND, SUPPLY**

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AND PRODUCTION (HERRIG; ALBUQUERQUE, 2022). In the manuscript, as described by the authors, it is evident that academic research is an indispensable tool for understanding local, national and global socioeconomic conjunctures. They are the ones that allow building inferences and planning for the construction of public policies that can invest and enhance sectors such as fish farming and serve branches such as Family Agriculture, expanding employment and income, turning the economy and acting sustainably. After analyzing the results, it was possible to identify the need for joint actions between governmental entities, universities, associations and companies.

Another extension action with the same aspect is present in the article **KNOWLEDGE TRANSFER FROM STUDENTS AND RURAL PRODUCERS ABOUT THE IMPORTANCE OF PARTICLE SIZE IN CORN SILAGE FOR DAIRY COWS (MUNIZ, et al., 2022).** As the authors observe: This study aimed to identify the producer's main problems in milk production, integrating research and rural extension with the active participation of university students. The action allowed the exchange of knowledge between academia and the field, identifying in practice complex issues about the impact of the physical characteristics of food on ruminal kinetics, in order to impact the productivity of the entire rural enterprise, in addition to subsidizing social exchanges and disseminating through extension the knowledge acquired by research.

Next, we will present articles in which extension actions that developed in years prior to the pandemic and that still bring social, technological, environmental and cultural impacts to the communities in which they are inserted were discussed. Thus, the manuscript **ORGANIC GARDEN AT THE "TENGATUI MARANGATU" INDIGENOUS MUNICIPAL SCHOOL: CHALLENGE FOR PEDAGOGICAL LEARNING (VERA; INFRA; MORAIS, 2022)** aimed to carry out a demonstrative, in the modality of associated/polyculture culture of Agroecological production, where the production would be used in school meals, also, produce a seed bank, rescue traditional cultivation practices and contribute to the teaching-learning process of students. It is verified that the extension action impacted the community socially, environmentally and culturally.

With the same characteristic of still producing positive impacts for its target audience, in the specific case of a cultural and pedagogical nature, the **PROJECT OF A PLAYFUL OCA AT THE CEI-UFGD CHILD EDUCATION CENTER IN THE MUNICIPALITY OF DOURADOS-MS (PEREIRA et al., 2022),** which aimed at the development of the playful oca project at CEI “Maria Alice Silvestre” (former CEI-

UFGD) with a wooden and bamboo structure. The project methodology consisted of a preliminary analysis, elaboration of a physical model of the oca, study of the materials used, sizing of the wooden structure and monitoring of the execution and guidelines on the care with the use and maintenance. The oca project was designed according to the needs presented by the institution's team and executed with the approval of the indigenous families of the school. After completion, the level of service of the project in relation to the expectations of the pedagogical proposals was evaluated as satisfactory. In addition, the extension provided interaction between academics and the community, with the application of knowledge learned in class to benefit it directly.

Also, considering extension works that present results that prolong over time, we have the manuscript **NATIVE JATAÍ BEE AND ITS CONTRIBUTIONS TO A HEALTHIER LIFE IN THE TAQUARAL CORUMBÁ-MS SETTLEMENT (CONCEIÇÃO, 2022)**. As the authors state, the creation of native bee species endemic to the region contributes to the maintenance of the ecosystem's biodiversity. Meliponiculture is a pleasant activity that does not require sophisticated equipment for its execution and can be developed on the property to obtain honey and income. It does not require high investments in the acquisition of equipment to assemble a meliponary and the hives can be produced with the reuse of pieces of PVC pipe, used in civil construction or even surplus pipe used in the lining of artesian wells. In this sense, the impacts of the action are related to environmental and social sustainability and the health of beneficiaries.

The article **EVALUATION OF THE WELFARE OF CALVES RAISED IN THE SYSTEMS "ARGENTINO" X "HOUSE": A CASE STUDY (OLIVEIRA et al., 2022)** also brings in its wake results that can benefit and impact the animal production of various communities. The work aimed to evaluate the thermal environment inside the different facilities and the influence of these different environments for calves in relation to rectal temperature, and the weight gain of animals in the house and Argentine systems. Both systems provided similar characteristics of performance variables and body temperature in calves, and can be indicated after evaluation of the economic aspects of production without harming the welfare of production animals.

The extension project **ANALYSIS OF THE REAL ESTATE MARKET IN THE CITY OF DOURADOS – MS (CARVALHO; CAVALHEIRO, 2022)** was discussed in the article with the same title, delimiting itself to the period from 2018 to 2020, however, the action was also in force in the years 2021 and 2022, demonstrating

that it continues to collaborate with academic knowledge and with the knowledge and guidance of society. The importance of a study on the sector is seen, with the main objective of analyzing the recent evolution of the real estate sector through the analysis of investments.

Also related to the area of financial education, we glimpse the article **FINANCES LEARNING: DEVELOPMENT OF A DIGITAL GAME ON FINANCIAL EDUCATION AIMED AT ELEMENTARY SCHOOLS IN DOURADOS-MS AND REGION (FERNANDES, 2022)**. The project developed a digital game called Finances Learning, which addresses financial education, with consumption issues, where, in each phase, situations are presented that allow the player to make decisions about knowing how to consume, and the passage to the next phases will depend on decisions that avoid consumerism and, in addition to having fun with actions that involve individual, collective, social and environmental responsibility, thus, aiming to develop skills for intelligent resource management. The prototype built will be tested and made available to elementary schools in Dourados-MS and region.

Other extension actions took place in the pandemic period (between 2020 and 2021) indicating that the extension work was maintained and reinvented to meet the demands of society. The manuscript **USE OF THE SOLID WASTE MANAGEMENT PLAN (SWMP) IN ORGANIZATIONS (SHWINGEL, 2022)** described an action that aimed to train managers of public and private organizations for the management and disposal of solid waste in a correct and responsible manner, in addition to showing how the incorrect destination of these wastes can impact the environment, in the three spheres of the sustainability tripod. This is a qualitative study, with data collection through documentary survey, participant observation and questionnaire applied to course participants. The course contributes to the dissemination of information about solid waste from its classification to its disposal and highlighted the applicability of the SWMP within organizations.

During the years 2021 and the beginning of 2022, the action **IMPLEMENTATION OF IRRIGATION AND GREENHOUSE SYSTEM AT THE SCHOOL FARM OF THE FEDERAL INSTITUTE — CAMPUS NAVIRAÍ (CENTURION, et.al., 2022)** was carried out through the project of a Center for Agroecology Studies (NEA), funded by the National Council for Scientific and Technological Development (CNPq), which aims to promote organic agriculture. The objective of building the structures was achieved and for both teachers and students, it

was possible to exchange and obtain experience through the practical work provided together.

REPORT

The reports presented describe quite diverse extension experiences. The first **ACTIONS AT THE UFGD STUDY BASES: REPORTS ON RESEARCH, TEACHING AND EXTENSION PROJECTS CARRIED OUT THERE (SILVA et al., 2022)** describes what the Study Bases of the Federal University of Grande Dourados are, presents its installation history and the benefits/results generated for the communities served with activities carried out in these spaces. In addition to the exposition of the physical structure of each location, initiatives with research, extension projects, courses and other actions promoted since 2013 in both the deactivated Bases and those still in operation in two regions of the state of Mato Grosso do Sul are explained, some of them financed by CNPq and/or in partnership with relevant institutions.

The second, **CONVERSATION CYCLE ON "DEMOCRACY, CONSTITUTION AND FUNDAMENTAL HUMAN RIGHTS" (SDG 16): DIALOGUES BETWEEN RESEARCH, EXTENSION AND DISSEMINATION (NASCIMENTO; LEZAINSKI, 2022)**, aimed to narrate the experience of the Extension Project Conversation Cycle on "Democracy, Constitution and Fundamental Human Rights" (SDG 16) promoted as an activity of the Faculty of Law and International Relations of UFGD. The project was developed in 2021, in remote format, considering a concern for articulation between teaching, research and extension during a period still of sanitary isolation. This narrative of experience promoted by the project intends to demonstrate the importance of promoting different extension formats that prepare the student for different formative competences, including not ignoring the academic career as a life project. The conclusion reached is that the experience presented good results and that it can be reproduced in the future, since it has established interinstitutional bridges and connections that contribute to the strengthening of training and the