PROJECT NOTIFICATION

Ref. No.: 21-CP-11-GE-DLN-A-PN2100069-001

Date of Issue	04 September 2021
Project Code	21-CP-11-GE-DLN-A
Title	Self-learning e-Course on Smart Livestock Value Chains
Launch date	1 December 2021
Hosting Country(ies)	APO Secretariat
Modality	Digital Learning
Implementing Organization(s)	APO Secretariat
Participating Country(ies)	Open
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Qualifications of Participants	Open
Nomination of Participants	Not Applicable
Closing Date for Nominations	Not Applicable

1. Objectives

    a. Understand the challenges and opportunities in livestock value chains.

    b. Learn about the concepts and principles of precision livestock farming (PLF).

    c. Examine case studies of successful implementation of PLF and its contributions to value chains.

2. Background

Livestock production is a major industry that includes cattle, buffalo, sheep, goats, horses, pigs, poultry (chickens, ducks, turkeys, etc.), milk, meat, and eggs. It accounts for 40% of total agricultural GDP. In addition to meat and milk production, livestock farming contributes to the leather, fiber, fertilizer, and fuel sectors, as well as capital accumulation.

The UN FAO reported in 2019 that the global demand for livestock products was anticipated to double by 2050, most of which was expected in developing countries. The sector is therefore expected to fulfill future demand, ensure consistent quality, and achieve sustainability without causing irreparable damage to the environment. The key to this is PLF. Recent digital innovations enable more productive, efficient livestock management by collecting information and taking actions in a timely, precise manner for individual animals or flocks as needed. PLF allows farmers to significantly improve the way they care for and manage livestock through automated, continuous data collection and measurement with the use of cameras, microphones, and sensors. These innovations contribute to product safety, animal health and welfare, and environmental sustainability. PLF also contributes to achieving many of the UN Sustainable Development Goals.

This course will give participants an overview of the status of and challenges in livestock production, applications of PLF and other innovations, and good practices to improve livestock productivity sustainably in APO member countries.

3. Modality of Implementation

    a. The course is offered through the APO e-learning platform: http://eAPO-tokyo.org

    b. Participants should register on this portal and create their own accounts.

    c. Certificates of completion will be provided for those who satisfactorily complete all the modules of the course, including quizzes and a final examination.

4. Scope and Methodology

The course will comprise five modules:

Module 1:
Opportunities and challenges in the livestock industry

Module 2:
Overview of smart livestock farming: Key considerations

Module 3:
PLF: Concepts and principles

Module 4:
PLF: Case studies of successful PLF implementation

Module 5:
Applications of PLF to livestock value chains in the Asia-Pacific

Final examination

Methodology

Module study, additional study material for participants, quizzes for self-assessment, and a final examination.

5. Requirements

a. Have necessary devices and software comprising a computer/smartphone, updated browser, microphone, and speaker or headphones.

b. Access to internet connections.

c. Completion of all modules, quizzes, and final examination.

d. The APO e-certificate will be given to participants who score a minimum of 70% on the final examination.

6. Financial Arrangements

The APO will meet the assignment costs for resource persons to develop the course modules including quizzes and a final examination.

7. Actions by Member Countries

a. Promote the courses nationwide.

b. Provide the link to the APO e-learning platform on the NPO's website and social network services.

8. Actions by the APO Secretariat

a. Identify and assign the resource person(s) to develop the course.

b. Announce course commencement on the APO website and social network services.

Dr. AKP Mochtan
Secretary-General