



國際工作坊緣起

生態農業技術發展與協同經營國際工作坊

2050年 全球預計人口將達 96億人，然而近年全球各國農村地區受都市化、氣候變遷以及慣行農法對環境非友善之生產方式等影響，使農業生產環境不穩定、生物多樣性喪失，農業生態系統之供給、調節、文化與支持等服務功能（ecosystem service）受到衝擊，已嚴重威脅農業之生產、生活與生態三生功能之永續性，以及糧食之生產與供給。行政院農業委員會花蓮區農業改良場因應城市發展壓迫鄉村可能帶來之風險，應用並改良生態工程之原則與技術，期增進水田生態系統之功能及服務，並以科學方法加以評估和監測。除試驗研究外，亦期望藉由國際交流事務，推升臺灣農村與農業生態永續發展之科技研發於國際之能見度。

107年度 花蓮區農業試驗改良場和東華大學研究團隊之計畫方向，擬引進國際專家知識，結合在地生態農業協同經驗，透過部落試驗場域田間參訪行程，促進國際交流，期能增進農村社區的自給自足能力，促進當地農林漁牧等農業生產地景和海景的保全活用，達到在地經濟、社會和生態永續性的目標。

延續106年度 辦理「國際水田地景多樣性經營工作坊」成果，本次工作坊擬借鏡國際上推動里山倡議生態農業的經營尺度，著眼農村整體的「生產、生活、生態」環境，將農村居民與周圍自然環境長期交互作用下所形成的生物棲地和人類土地利用的動態鑲嵌斑塊景觀，即「社會-生態-生產地景和海景」及其國際指標，與國內推動生態農業發展現況作一結合，共同規劃生態農業為主之國際合作事務。

本次工作坊將分別邀請花蓮改良場與東華大學分享新社部落與復興無菸部落生態農業在地經營的經驗，並邀請部落代表、農業與海洋生態學學者、國際性從事生態農業活動專家、國內協助部落建立生態農業之業界代表與政府機關...等，來一起共同交流：

- (1) 探討生態農業環境指標架構之評估手法與未來研究方向；
- (2) 探討生態農業權益關係人在地偕同經營模式與策略之兩大議題，藉此共識意見能回饋部落在地生態農業永續經營。



The introduction of the international workshop

International Workshop of Agroecological Technology Development and Collaborative Management

In recent years, rural areas have been impacted by urbanization, climate change and conventional farming method which is environmentally unfriendly. These factors cause the unstable producing environment of farming, biodiversity losing, farming ecosystem services, such as supply, control, culture and support, influenced. The world's population is estimated to reach 9.6 billion by 2050, the challenge is that we have to increase the food production with limited farmlands.

In response to the possible risks in rural brought by urbanization, Hualien District Agricultural Research and Extension Station (HDARES) has been trying to improve the ecosystem in the paddy field by applying the technology of ecological engineering and scientific measurement. In addition to domestic research, we expect to increase visibility of Taiwan's agroecological technology by holding international event.

In 2018, HADRES works with Tong Hwa University, planning to combine the experience of international experts with local farming method. The objective of the project is reaching self-sustainability on agriculture, forestry, fishery and animal husbandry locally by inviting international experts to visit the farmlands in the tribes and having more discussions in local farming issues.

“International Workshop of Agroecological Technology Development and Collaborative Management” is based on the concept of Satoyama Initiative which takes both agricultural protection and environmental protection into consideration.

In this workshop, HADRES and Tong Hwa University will share their experience on managing agroecological farming in Panterongan Tribe and Fuxing Tribe. What's more, we invite representatives from the tribes, domestic and international experts, industries and government to work together and discuss the following topics: 1. Method of Estimating the Indices of Agroecology Environment; 2. Collaborative Management Models and Strategies of Stakeholders.