School of Agriculture and Forestry

BaTAWA

Extension Program
2019-2022

Republic of the Philippines
Mountain Province State Polytechnic College
Bontoc, Mountain Province

AGROFORESTRY AND FORESTRY EXTENSION PROGRAM

I. CONTEXT OF EXTENSION

Extension is viewed as a strong force in technology transfer, knowledge enhancement and skills development leading to individual or group empowerment making the individual or group an asset for community transformation. It is a continuous educational process assisting people by providing information, ideas, technology and others enabling them to become agents for change in their respective communities.

In the Philippines, higher education institutions are mandated to render extension services hand and hand with instruction, research and production. This is in recognition of the vital role colleges and universities play on the development of communities especially the underserved and depressed.

Mountain Province State Polytechnic College (MPSPC) is an institution of higher learning in the Central Cordillera. Created through the passage of Republic Act No. 7182. It is hoped that a critical mass of professionals and leaders will produced and become instrumental in poverty alleviation in the province as well as in the region (Chakas, 2004). Moreover, as a fountain of knowledge, the college will play a vital role in spurring development in the province by providing training, programs, technical; assistance, and other services through its clients and through its extension services.

The College of Forestry is comprised of five programs; Agriculture, Forestry, Agroforestry, Environmental Science, and Agri-business. Each unit is mandated to perform the four-fold functions of the college research, extension, production, and instruction.

The extension program of the College of Forestry is aligned to the National, Regional and Provincial Agenda for economic growth and development, the Vision, Mission, Goals, and Objectives of the college and thrust of the administration in the acronym HERITAGE. This will serve as guide for personnel of the department in doing his or her services as catalyst for rural development.

The college, through the College of Forestry has engaged in the generation of technologies for years. However, these technologies did not reach all target clientele because there is no extension program as basis for adoption. Motivation of clients will start adopting when they see in actual technologies. The techno-demo will showcase the connection of research and extension since this is where technologies generated are applied.

These services include all activities related to provision of information and service required by various stakeholders, especially in the rural areas, to assists and support them in the development of their own technical, organizational, and management skills and practices with the end goal of improving livelihood and well-being.

It covers training, farm business advisory, demonstration and information as well as communication support services (PCARRD et.al. 2015). Davis and Heemskerk (2012) further indicated that extension has evolved to be considered as a system that is integral and central to innovation systems. It focuses in facilitating and learning rather than simply training clients.

II. PROGRAM DESCRIPTION

A. GOALS AND OBJECTIVES

Goal:

The goal of the College of Forestry is to help develop resilient communities within its service area.

Objectives

1. To extend ecologically sensitive practices, technologies, and innovations in agroforestry, forestry, agriculture, environmental science, and agri-business that will contribute to the betterment of the community;
2. To conduct advocacy on climate change adaptation and mitigation; and
3. To share expertise on watershed management for maximum benefits.

B. FRAMEWORK

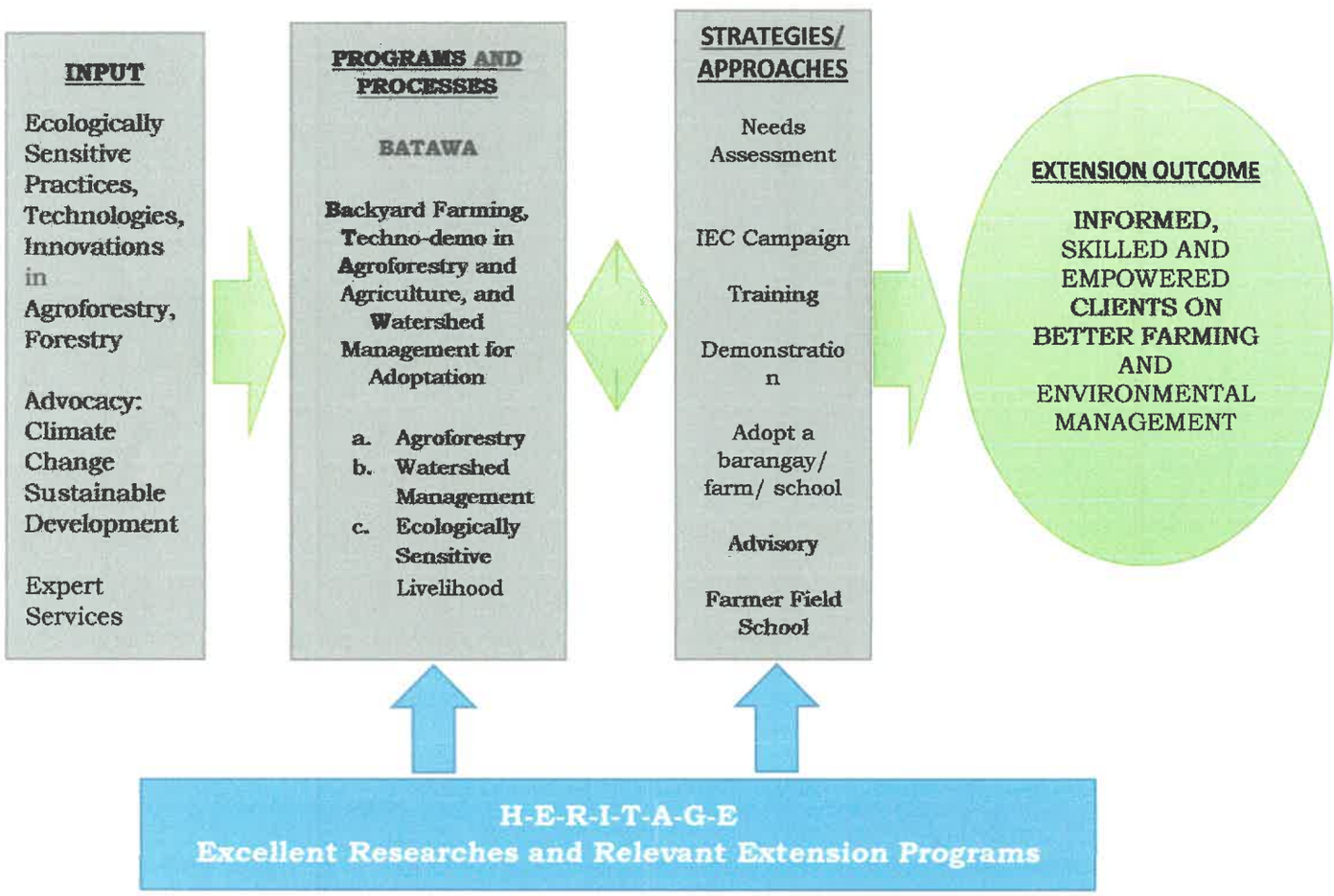

Figure 1. Framework of the College of Forestry Extension Program

The College of Forestry Extension Program will be guided by the acronym BATAWA which was anchored on "Excellent Researches and Extension Services of the College Thrust HERITAGE.

The acronym BATAWA refers to the different expertise the department can offer and provide to clients aside from advocacy on climate change sustainable development. This expertise is backyard farming, techno-demo on Agroforestry and Agriculture, watershed management

C. Strategies

a. IEC Campaign
b. Training
c. Demonstration
d. Advisory
e. Farmer Field School

III. EXTENSION PROGRAM COMPONENTS

The BATAWA extension program of the College of Forestry has four components encompassing the extension services of the five academic programs as presented in figure 2.

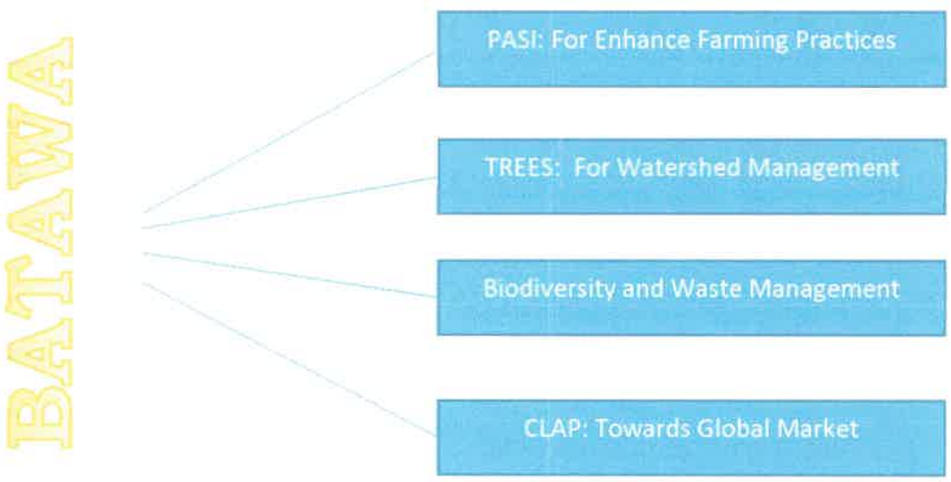

Figure 2. Program components for the BATAWA Extension Program

The Program component *PASI: For enhance Farming Practices* is an acronym that embodies the extension and community service of the **Diploma in Agricultural Technology-Bachelor in Agricultural Technology (DAT-BAT).** The program aims to provides Science and Technologies (S&T) developed by the college in the field of agriculture to clients that will enhance their knowledge and skills making them better farmer, resilient against impact of climate change and more productive in their field of endeavor. The acronym PASI means:

P- Promotion of site specific S&T generated by the College

A- Advocacy of best practices in response to climate change and emerging challenges in the field of agriculture

S- Sharing of expertise through technical advisories

I- Influence clients towards adoption of S&T through establishment of model farms

The component ***TREES: For Watershed Management*** encapsulated the extension services of the **Bachelor of Science in Forestry (BSF) and Agroforestry.** *Watershed Management* component includes physical features such as climate, soil, topography, tributaries, and socio-economic profile. Other services will be on Forest Reforestation Program to enhance watersheds in Bauko and Tadian municipalities, and Environmental Awareness Drive to provide areas for dissemination of pertinent laws, policies and regulations.

Promote Watershed Resources Rehabilitation through projects and activities on nursery establishment and management, agroforestry technologies. and production and enhancement of adopt –a-forest/PO/Farmer/barangay project;

Advocate on the proper utilization of non-timber forest product to enhance livelihood; Advocate on climate change resilience and disaster risk reduction; and Develop and produce learning materials

Agroforestry focuses on the method or practice of integrating the raising of trees into farming to provide fruits, forage, shelter for animals or crops, and other benefits. Services will cater Integrated Pest Management, Fruit, Vine food processing, post –harvest, farming systems, Indigenous Knowledge and Skill on endemic plants, aquatic, and packaging. Aquatic component will focus on the production of endemic fish and shells because with increasing human populations, the effects are bound to intensify unless preventive actions are undertaken. This will include knowledge on the effects of pollutants and habitat change that will help improved habitat restoration and pollution control.

Ecologically Sensitive Livelihood. This will focus on livelihood, research-based products, environmental services, and indigenous knowledge and skills which may be transmitted through nursery establishment, demonstration farms, food processing, and packaging. This will focus also on farmers training program specifically on coffee.

The Component ***Biodiversity and Waste Management*** is the banner extension program of the **Bachelor of Science in Environmental Science (BSES)**. Biodiversity conservation as extension component/activity of the BSES program aims to increase the stands of endemic, rare, and vulnerable floral species of Mountain Province by involving the community people through community extension. Published researches on the biodiversity of forest/shrubland ecosystems as well as published successful results of researches on the propagation techniques for identified rare, endemic, endangered and vulnerable floral species of the Province shall serve as technology or reference to be extended through hands-on field work/immersion in communities needing/requesting assistance in terms of biodiversity conservation (i.e. through in-situ conservation). Also, published ethnobotanical studies on endemic floral species can serve as materials for community education that shall awaken their interest to help in biodiversity conservation.

Environmental Pollution and Waste Management. Activities in this extension project shall be more on environmental advocacy which include information education on environment and waste management which may be done through radio programs and technology transfer classes. Technology

classes will focus on recycling of solid waste and the target clientele shall be the youth. This is to instill in them the importance of waste management and hopefully encourage them to make solid waste recycling a part of their usual activities. Another activity will be the provision of technical assistance on the development of barangay environment and waste management plan which shall become part of the Barangay Profile.

The component ***Channeling Local Agri-preneurship to the Global Market*** (CLAP-Towards Global Market) encompasses the extension services of the **Bachelor of Science in Agribusiness Management (BSABM)/ Bachelor of Science in Entrepreneurship (BSE).** It supports business undertakings of MSME's. Moreover, it will focus on connecting agricultural products from farm to the market.

IV. IMPLEMENTATION

The implementation process of the BATAWA extension program of College of Forestry can be either holistic approach or sub program approach. Holistic approach when experts from various department collaborated in addressing the issues and concern of clients. While sub-program approach if the issues and concerns of clients require services of one department considered as subject matter experts. The program aims to answer clients' needs which may come in the form of trainings, advocacies, and others. Moreover, the clients' needs shape the program, as it may be modified to suit their dynamic needs. Expectedly, the program is carried out with the help of extension partners in and out of the institution. The implementation process flow is presented in figure 3.

Client's needs which are not reflected under the programs may directly be referred to the Extension Unit where they can feedback to the College of Forestry.

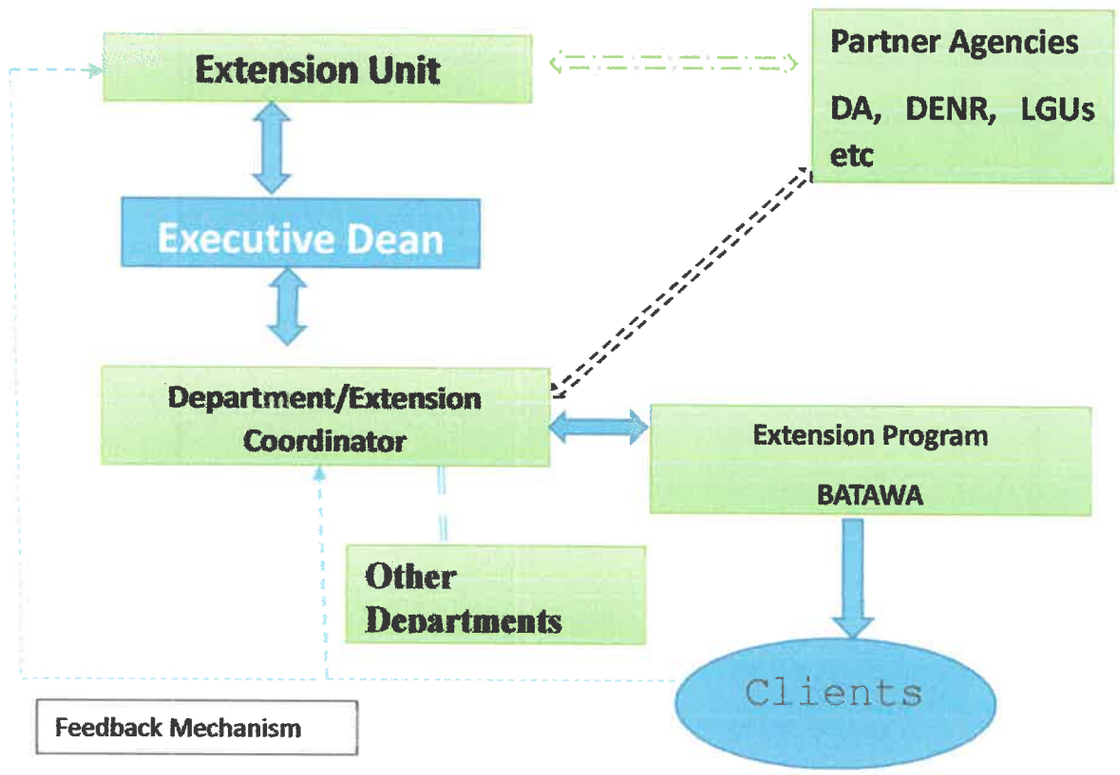

Figure 3. Extension Program Implementation Process

Key Players in the BaTAWA Extension Program

KEY PLAYER	FUNCTION	COMPOSITION
Partner	Technical advisory/consultancy, logistic and meals	DA, DENR. Local Government Units
Client	Recipient of the Extension Service	Farmers, PO's, Government and non-government agencies
Implementers	Trainers, Experts service provider, advocacy	College of Forestry Faculty
Departmental Extension Coordinator	Collate reports for submission, act as catalase to all extension activities	Departmental Extension Coordinator Campus Extension Coordinator
Research Unit	Provider of mature technologies	Researchers
Extension Unit	Monitoring and evaluation, provides resources, approve Extension activities for implementation	Extension Director, Extension Staff

Stages of the Implementation Process

1. **Conduct of Training Needs Assessment to target clients**
   Except for short term extension services like request of clients for certain training or information drive, Training Need Assessment (TNA) for long term engagement basis in crafting interventions. The result of TNA is very crucial in evaluating the impact of interventions to the clients.
2. **TNA Validation and Manifestation of Commitment**
   The TNA validation follows after the assessment. The results will be presented to them and the extension community will validate and prioritize the series of activities that will be conducted.
3. **Preparation and Packaging of Extension Activities**
   Project design will be prepared based on the results of TNA. The project which contains the various interventions to be conducted should be approved for approval. The stakeholders themselves may give suggestions in the activities that will be carried out.
4. **Capability Building of College of Forestry Extensionists**
   The College of forestry faculty shall be capacitated through a series of workshops, trainings and seminars conducted by the college or other institutions.
5. **Development and packaging of IECs and POTs**
   Matured technologies developed by the faculty of the College of Forestry should be translated into various forms of IEC materials and Package of Technologies (POT) to be use during extension activities.
6. **Linkages and Partnership**

The College of Forestry will collaborate with the LGUs, and line agencies in the locality. Partnership should be covered by Memorandum of Agreement(MOA).

7. **Implementation of Activities**

The activities will be implemented thereafter the designs have been approved. Training, seminars, hands-on, demonstration and workshops will be the principal types of activities to be conducted.

8. **Monitoring and Evaluation**

Monitoring and evaluation will be conducted by the extension unit to ensure the conduct of activity as planned. Moreover, result of the monitoring will be feedback to the concern program for proper action. Evaluation will be done after the conduct of the activities.

9. **Impact Assessment**

An impact assessment study will be conducted to establish the impact of extension projects. This will be conducted by the extension unit at least one year after the completion of the project.

V. EXTENSION EVALUATION AND MONITORING

COF EXTENSION PROGRAM MONITORING AND EVALUATION CHECKLIST

Program Title: **BaTAWA** (**Ba**ckyard Farming, **T**echno-demo in **A**groforestry and Agriculture, and **W**atershed Management for Adaptation)

Program Component	Activities	Extension Services Delivery	Pre-work: Administrative Forms	Implementation Results Monitoring Tools	Outcome Evaluation Tools
A. Diploma in Agricultural Technology-Bachelor in Agricultural Technology (DAT-BAT)					
PASI	IEC Material Development	Capability Building, Training	Activity Designs, Terminal Reports, Communication letters, Training Needs Analysis	Progress/Terminal Report, Mentoring Tools	Learning Sessions, Sustainability Plan
	Capability building of clients	Trainings, Demonstration, Technical Advisory, Farmer Field School	Activity Designs, Terminal Reports, Communication letters	Terminal Report, Attendance, Profile Sheet of Speakers, Summary of Evaluation	Field Monitoring and Evaluation form
	Establishment of Model farms	Demonstration, Technical Advisory	Training Needs Assessment, Activity Design, Communication Letters	Terminal report	Field Monitoring and Evaluation Forms
	Extension Research	Assessment/Evaluation	Research proposals, Activity Design, Communication Letters,	Terminal report, Research Write-up	Field Monitoring, Research Monitoring Tool
B. Bachelor of Science in Forestry (BSF) and Bachelor of Science in Agroforestry (BSAF)					
Watershed Management	IEC Material Development	Capability Building, Training	Activity Designs, Terminal Reports,	Progress/Terminal Report, Mentoring Tools	Learning Sessions,

			Communication letters, Training Needs Analysis		Sustainability Plan
	Capability building of clients	Trainings, Demonstration, Technical Advisory, Farmer Field School	Activity Designs, Terminal Reports, Communication letters	Terminal Report, Attendance, Profile Sheet of Speakers, Summary of Evaluation	Field Monitoring and Evaluation form
	Establishment of Model farms	Establishment of Model farms	Demonstration, Technical Advisory	Training Needs Assessment, Activity Design, Communication Letters	Terminal report
	Extension Research	Extension Research	Assessment/Evaluation	Research proposals, Activity Design, Communication Letters,	Terminal report, Research Write-up
C. Bachelor of Science in Environmental Science (BSES)					
Environmental Pollution and Waste Management	IEC Material Development	Capability Building, Training	Activity Designs, Terminal Reports, Communication letters, Training Needs Analysis	Progress/Terminal Report, Mentoring Tools	Learning Sessions, Sustainability Plan
	Capability building of clients	Trainings, Demonstration, Technical Advisory, Farmer Field School	Activity Designs, Terminal Reports, Communication letters	Terminal Report, Attendance, Profile Sheet of Speakers, Summary of Evaluation	Field Monitoring and Evaluation form
	Establishment of Model farms	Demonstration, Technical Advisory	Training Needs Assessment, Activity Design, Communication Letters	Terminal report	Field Monitoring and Evaluation Forms

	Extension Research	Assessment/Evaluation	Research proposals, Activity Design, Communication Letters,	Terminal report, Research Write-up	Field Monitoring, Research Monitoring Tool
Biodiversity Conservation	IEC Material Development	Capability Building, Training	Activity Designs, Terminal Reports, Communication letters, Training Needs Analysis	Progress/Terminal Report, Mentoring Tools	Learning Sessions, Sustainability Plan
	Capability building of clients	Trainings, Demonstration, Technical Advisory, Farmer Field School	Activity Designs, Terminal Reports, Communication letters	Terminal Report, Attendance, Profile Sheet of Speakers, Summary of Evaluation	Field Monitoring and Evaluation form
	Establishment of Model farms	Demonstration, Technical Advisory	Training Needs Assessment, Activity Design, Communication Letters	Terminal report	Field Monitoring and Evaluation Forms
	Extension Research	Assessment/Evaluation	Research proposals, Activity Design, Communication Letters,	Terminal report, Research Write-up	Field Monitoring, Research Monitoring Tool
D. Bachelor of Science in Agribusiness Management (BSABM)/ Bachelor of Science in Entrepreneurship (BSE)					
Channeling Local Agri-preneurship to the Global Market	IEC Material Development	Capability Building, Training	Activity Designs, Terminal Reports, Communication letters, Training Needs Analysis	Progress/Terminal Report, Mentoring Tools	Learning Sessions, Sustainability Plan
	Capability building of clients	Trainings, Demonstration, Technical Advisory, Farmer Field School	Activity Designs, Terminal Reports, Communication letters	Terminal Report, Attendance, Profile Sheet of Speakers, Summary of Evaluation	Field Monitoring and Evaluation form

	Establishment of Model farms	Demonstration, Technical Advisory	Training Needs Assessment, Activity Design, Communication Letters	Terminal report	Field Monitoring and Evaluation Forms
	Extension Research	Assessment/Evaluation	Research proposals, Activity Design, Communication Letters,	Terminal report, Research Write-up	Field Monitoring, Research Monitoring Tool

VI. RECOMMENDATION AND APPROVAL

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