

# **Caraga State University**



## **RESEARCH, DEVELOPMENT AND EXTENSION AGENDA 2011-2016**

# INTRODUCTION

Caraga Region's economy is dependent on the existing natural endowments such as forests, mineral resources, vast land for agriculture, and the aquatic ecosystems (seas, marsh, lakes and estuaries) that house the diverse marine and aquatic resources. The strength of this kind of economy relies on how well the residents manage these resources considering that these are highly vulnerable and some are even non-renewable. For the economy of the region to become sustainable, basic information are indispensable in making logical decisions. Likewise, technologies are necessary to improve productivity at a minimum cost to the environment. Understanding the culture and social backgrounds of the people who are the stewards of the environment can also be the way to enhance their management system of these resources. In addition, provision of basic literacy as well as improving the understanding on the basic sciences and mathematics can help improve the quality of life of the Caraga people, making them less dependent on resource-degrading way of life.

## VISION

A premier institution of higher Learning in Caraga Region committed to global excellence in science and technology, and humanities towards sustainable development.

## MISSION

Caraga State University is committed to the four-fold functions (quality instruction, research, extension, and production) of higher education by:

- providing quality and relevant education in science and technology, and humanities;
- developing competent individuals who are scientifically trained, technologically skilled, and morally upright;
- contributing in the creation of an ecologically sound and healthy environment;
- participating actively in transnational collaboration, industry linkages and global networks.

## KEY RESULT AREAS AND GOALS

### ***KRA 1: Efficient and Participative Leadership***

Goals:

1. To regularly engage in an active interaction with the Board of Regents (BOR) on Strategic Planning Process;
2. To conduct a regular review and evaluation across campuses in terms of:
  - a. Efficiency features (systems, policies, processes, - systematizes work)
  - b. Effectiveness features (results in terms of teaching highlighted in licensure results, among others.
  - c. Response-ability features

3. To institutionalize Key Business Processes across campuses in terms of:
  - a. Fund Sourcing
  - b. Infrastructure System
  - c. People Management
  - d. Partnering
  - e. Financial Management
  - f. Program Management
  - g. Feedback Mechanism
4. To build a culture of participation across;
5. To set acceptable standards of quality across disciplines, programs, offices, campuses and individuals in the following:
  - a. Leadership
  - b. Outcomes
  - c. Linkages & Collaborative Arrangements
  - d. Interpersonal relations
6. To lobby for environmental awareness across all curricular offerings

***KRA 2: Quality and Relevant Education***

Goals:

1. To implement programs in line with both the mandate and current requirements;
2. To identify/set linkages offering similar relevant programs;
3. To generate new knowledge and technologies relevant to the development of the region;
4. To offer programs focusing on social, cultural, economic and developmental needs of the region and the country as a way to complement the global market;
5. To review periodically the curricular offerings to meet the needs of the industry and community;
6. To provide efficient delivery of instruction for the environmental management program;
7. To redesign accredited curricular programs for increased Science and Technology and Humanities orientation;
8. To design new programs that are relevant to current needs and requirements in Science, Technology and the Humanities;
9. To craft a strong Human Resource Development Program for the care, use and regeneration of natural resources.

### ***KRA 3: Teaching/Non-Teaching and Student Development***

Goals:

1. To provide ongoing faculty development, addressing: personal mastery, improved teaching competence, effective interpersonal and organizational relations and increased skills in research;
2. To expand student- personnel scholarship opportunities by allocating the appropriate funds and generating grants support from linkages.

### ***KRA 4: Environment***

Goals:

1. To green the premises of the CSU campuses;
2. To manage the use of resources ( human, physical and financial) in promoting relevant /approved programs;
3. To design a systematic utilization of the available land area.

### ***KRA 5: Linkages, Network and Collaboration***

Goals:

1. To increase external linkages
2. To open avenues for linkages by:
  - a) Expanding and strengthening the existing international, national and local linkages
  - b) Sending faculty and students to participate in international exchange program and training (academic/ leadership training) for academic and leadership development;
  - c) Seeking program partners in Science and Technology Education and Research
  - d) Setting an information center for linkages on instruction, research, field visits and exposure for students or faculty as well as for co-curricular activities

### ***KRA 6: Research***

Goals:

1. To become a valuable partner in research on science, technology and humanities to other institutions both local and international;
2. To set-up a research community in science, technology and humanities that foster and support creative research and other advanced scholarly activity;
3. To participate in international, national and regional programs that are collective in nature.

**SETTING THE CARAGA STATE UNIVERSITY  
RESEARCH, DEVELOPMENT AND EXTENSION AGENDA  
2011-2016**

The crafting of the CSU RDE Agenda was based on:

- **Previous work done and program initiatives of PA 2020, Medium-Term Philippine Development Plan (MTPDP), Caraga Regional Development Plan, and institutional priorities of government agencies**

Guided by its institutional mandate and its Vision, Mission, Goal and Objectives, the NORMISIST 2006 Research and Development Agenda was crafted. The institution's research agenda is in consonance with the PA 2020, Medium-term Philippine Development Plan (MTPDP), Caraga Regional Development Plan and institutional, regional and national priorities of government agencies such as DOST, CHED-National Higher Education, NEDA, Dept. of Agriculture. This is the foundation for the revision to come up with the **Caraga State University RDE Agenda for 2011-2016**.

- **Consultative meetings and workshops among the various stakeholders focusing on current priorities and areas of common concerns anchored on the regional and national development plans**

Consultative meetings and workshops were conducted among CSU and various stakeholders to obtain inputs important in making necessary revisions on the 2006 Research and Development Agenda. The revisions are intended to make the RDE Agenda consistent with the emerging development policies of the national government in the 21<sup>st</sup> century. The policy choices were based on the series of medium-term development plans or priorities prepared by different Government Agencies and Non-Government Organizations. The specific objectives of the meetings and workshops were: to validate the identified needs and current trends in the Caraga Region for Science and Technology interventions; establish a system for technology transfer and the management of intellectual property; and strengthen networking and community relations with NGAs, NGOs, HEIs and other stakeholders

**Participants of the consultative meetings**

- a) CSU Policy Makers and Researchers: Vice-Presidents; Deans; Directors of Gender and Development, Planning Office; Department Chairmen and Students
- b) NGAs: Department of Science and Technology; Department of Agriculture; Department of Education; Commission on Higher Education; Department of Environment and Natural Resources; Mines and Geosciences Bureau; Environment Management Bureau; Department of Trade and Industry; National Economic and Development Authority;
- c) Other HEIs: Father Saturnino Urios University; Agusan del Sur State College of Agriculture and Technology; Surigao del Sur Polytechnic State College; Surigao State College of Technology; and St. Joseph Institute of Technology;

- d) Private Institutions and Industry: Caraga Chamber of Commerce; Butuan Chamber of Commerce; Caraga Mining Chamber; Caraga Tree Farmers' Coop Foundation; Regional Agri-Fisheries Council (RAFC)
- e) Provincial-LGU of Agusan del Norte
- f) Provincial-LGU of Agusan del Sur
- g) City-LGU of Butuan City
- h) Indigenous People: Mamanwa and Manobo
- i) Regional representatives from Government and Non-Government Agencies and various stakeholders participated in the workshop. They presented Issues and Concerns which are current priorities in their agencies.

## **THE CSU RESEARCH, DEVELOPMENT AND EXTENSION (RDE) AGENDA 2011-2016**

The components of the CSU RDE Agenda spell out the strategic programs to be pursued for the period 2011-2016.

### **1. RDE Programs**

The RDE programs aim to support technological innovations and fast-track policy formulation in the areas of agriculture, forestry, mining, S&T education, and other priority areas. Resources and activities shall be focused in attaining the goal of poverty reduction, hunger mitigation and climate change mitigation and/or adaptation in Caraga Region.

Specifically, RDE programs shall include the following:

#### **a. RDE for Environmental Conservation and Management**

RDE efforts shall be directed towards the development of new energy sources such as the exploitation of lesser-known plant and animal species for production and utilization of alternative clean and environment-friendly fuels.

RDE efforts on water shall be directed towards appropriate watershed and wetland management, effective and efficient water management, water treatment technologies and water budget studies to optimize the use of available safe water.

RDE activities on the environmental conservation, preservation and management shall focus on finding better ways of managing non-renewable natural resources (land, water, minerals, and biodiversity) for sustainable economic development. Specifically, it shall look for possible solutions to the environmental alterations such as climate change in order to minimize hazardous environmental effects and reduce natural and human-induced disasters/risks.

#### **b. RDE in Support of Forestry, Agriculture, Mining and Ecotourism (FAME)**

##### **b.1. Support of Forestry, Agriculture and Fisheries Modernization**

RDE activities shall be directed to the development of modern technologies and their application for the improvement of production, postharvest handling and marketing of agricultural and forest commodities. Activities shall also focus in the development and improvement of research laboratories and facilities to enhance product competitiveness in forestry, agriculture and fishery sectors.

Linkages with international research institutions need to be strengthened to promote quality. RDE programs/projects and their outputs (e.g. publications, conference presentations, products/services, and technologies) need to be at par with international standards.

Development of strategies to optimize food production shall be pursued to reduce poverty and mitigate hunger in the rural areas while taking into consideration the effects of climate change and minimize or avoid human-induced disasters/risks.

## **b.2. Support to Industry Requirements**

RDE activities to address requirements in industry shall focus on the identification and development of new products and processes that will find commercial application and improve productivity. These shall include development and production of teaching and learning modules, software, non-traditional products utilizing wastes from wood-based, mineral-based and agri-based industries specifically those geared towards value-adding and/or value creation. Activities shall make use of recent trends in biotechnology, bioprocess technology and information and communication technology (ICT).

## **b.3. Support to Ecotourism**

RDE activities shall focus on developing strategies to optimize the value of historical, cultural, agricultural and other nature-based tourism endeavors. Ecological studies that could enhance environmental conservation while utilizing these resources for tourist attraction shall be given emphasis.

## **c. RDE in Mathematics, Natural Sciences, Engineering and Information Technology**

Basic RDE activities in Mathematical and Natural Sciences shall be conducted to develop new knowledge and serve as basis for new developments. The basic knowledge generated from these RDE activities shall serve as the foundation for future applications, particularly in the areas of Applied Mathematics, Computer Science and Information Technology, Engineering, Applied Physics, Applied Chemistry, Applied Biology (e.g. Agriculture, Forestry, and Medicine) and Environmental Science.

## **d. RDE for Enhancement of S&T Education**

RDE activities shall be directed towards development of strategies to improve the delivery of subject matter thereby encouraging critical thinking among the youth particularly the school children. Studies on the use of modern and traditional techniques in teaching (both young and adult learners) shall likewise be given emphasis to maximize transfer of information and knowledge.

## **e. RDE for the Enhancement in the Appreciation of Cultural Heritage**

Socio-cultural aspects of the society need to be fully understood since these are the facilitators in achieving a goal. Understanding the core values and other cultural aspects (language, traditions, mores, etc) of society is vital in attaining success in every program. RDE activities, therefore, shall focus on the documentation and analysis of the socio-cultural dimension of tribal communities and other ethnic groups in the mainstream civilization.

## **f. Sustainable Lowland and Upland Resources Development towards Hunger Mitigation and Job Creation**

RDE activities in sustainable development, sustainable agriculture, food safety, and good agricultural practices (GAPs) as well as the agreements, protocols, guidelines, and standards to promote positive effects on the so-called public goods, such as the environment and human health, have increasingly become the focus of government and non-governmental efforts, shaping what the Food and Agriculture Organization (FAO) calls "globalization with a human face."



RDE activities shall be directed to address the importance of appropriate input technologies, farming techniques, and other sustainable methods such as organic farming or ecological agriculture to reduce environmental degradation while making agriculture profitable to smallholders.

## **2. Undergraduate and Graduate Theses**

Theses (both undergraduate and graduate) shall be part of the research system of CSU. Theses shall be focused on areas that would contribute to the attainment of the Programs of Action set in this Agenda.

Theses shall conform to the RDE Agenda of the college where the curricular program falls.

## **3. Technology and Information Dissemination**

The technology transfer component of RDE shall be focused on techno-demonstration, on-site pilot testing, and dissemination of IEC materials in various media.

Technology demonstrations shall be in the form of income-generating projects that would be attractive to would-be takers of the technology. These will take on the examples of implementing the Science and Technology-Based Farms (STBF) of the Department of Science and Technology (DOST) or the Community Participatory Research (CPAR) of the Department of Agriculture (DA).

Appropriate transfer of relevant technologies shall be based on special needs of the stakeholders, taking into account intellectual property rights over those technologies and taking extra precautions that the same will not cause significant or potential damage to the environment.

## **4. Human Resources Development Program**

To augment the human resources addressing the technology and information needs of the Caraga Region, human resource development shall be a cyclic component of the RDE Agenda. Faculty members and other qualified personnel in the university shall be sent for advanced training (either on degree or non-degree program) to build and/or enhance capabilities to address the listed RDE programs.

Opportunities for researchers to be trained in international and national agencies for capability enhancement shall be sought in coordination with the CSU Scholarship Committee.

## STRATEGIES TO ACHIEVE THE AGENDA 2011-2016

### 1. **Establish linkage with stakeholders**

Linkages and networking with other stakeholders having similar objectives with CSU shall be established. This is aimed to optimize outputs through the distribution of tasks and assignments. This strategy is also aimed to maximize dissemination and understanding of a program/project since the approach shall be participatory.

### 2. **Internationalize research collaboration**

Partnership with international institutes may be in the form of joint research projects, the sharing of research facilities and major infrastructure, allowing access to research data and discoveries, and the linking of research centers and virtual networks. Collaboration can play a key role in the capability building of qualified personnel, for example through the co-supervision of Ph.D. students from other countries. The cost of research, especially in disciplines requiring specialized instrumentation or facilities, tend to make collaboration an imperative. Issues, such as climate change transcends national borders and demand international collaboration.

### 3. **Optimize public-private partnership**

RDE activities are directed to answer technological and information needs and problems of people. Tapping the local government units (LGUs) and the peoples' organizations (POs) working in the locality shortens the period from the generation of technology and/or information to the time these are available for utilization. With cooperations from LGUs and POs, some applicable technologies and/or information can already be utilized even when the RDE is still ongoing.

Joint programs allow complementation of services from LGUs, entrepreneurs and private industries and support the creation of technology-based, value-added and diverse products and services.

### 4. **Adopt a multi-disciplinary approach in conducting research**

For RDE activities to respond to problems and technological and/or information needs of society, a multi-disciplinary research shall be adopted. This approach minimizes the span of time required to address multi-faceted problems, while optimizing the budget to carry out activities of the RDE project.

### 5. **Encourage newcomers in RDE through group research**

In the RDE arena, the principle "No man is an island" shall be adopted. A team approach in RDE activities may encourage newcomers while allowing the old researchers to learn new techniques from the new ones. This strategy is also aimed to encourage maximum participation in RDE activities to keep the *Research Culture* aflame.

### 6. **Optimize human resource development**

Tap scholarship opportunities from national and international sponsors to build/enhance capabilities among faculty and other personnel doing RDE activities. The RDE Office and the Scholarship Committee shall work closely to determine the gaps in human resource

capability to prioritize the specialized fields which are wanting.

Hiring of faculty members shall also give emphasis on the research background and/or potential for research activities of the applicants. Hiring of personnel who have some backgrounds in research from universities and research institutions recognized for their prolific research and development outputs can greatly expand the researchers' pool in CSU.

#### **7. Provide support to researcher/s efforts**

Support the endeavors and efforts of researchers to keep their interests in RDE ablaze. Support can be in the form of facilitating procurement of supplies and materials, equipment and other important inputs in the conduct of the RDE activities. Other forms of support are in terms of travel grants to attend and/or present papers in scientific fora/gatherings, publication support and incentives through teaching load reduction.

#### **8. Create an atmosphere conducive to researchers**

Researchers require a place and scientific tools to do some critical thinking and apply the ideas using some tools. Equipped research laboratories connected to the Internet shall be provided to give researchers an atmosphere where they could think critically and act logically.

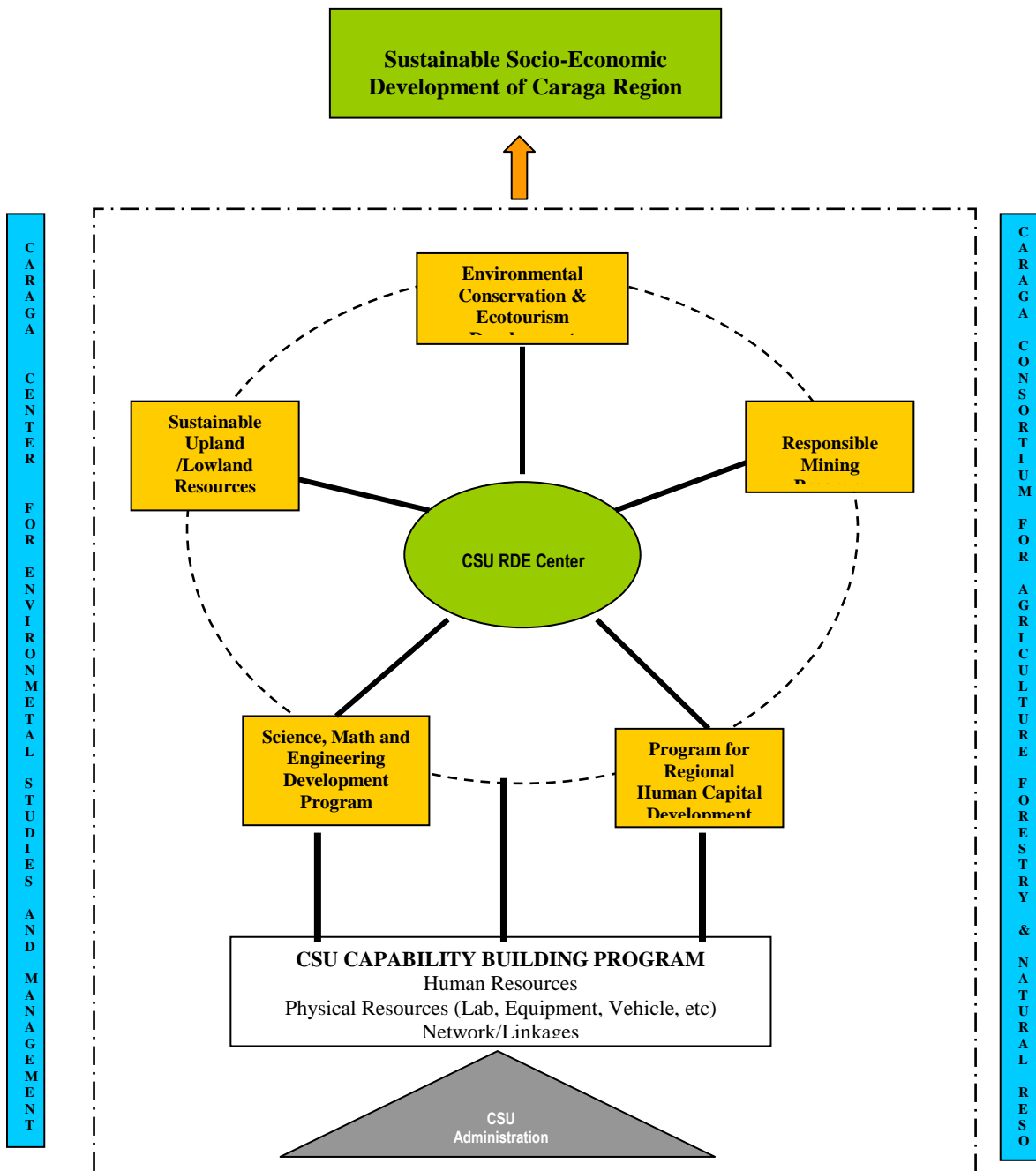
Researchers shall be accorded 'flexi-time' to give them freedom to work in times when the mind is active and full of bright ideas.

### **THE RDE IMPLEMENTATION AND M&E FRAMEWORK**

In consonance with the institutional, regional and national RDE priorities of government agencies, the CSU RDE Framework was formulated. It presents the **CSU RDE CENTER** as the umbrella for all research, development and extension programs of the university. The Center is created as the core for sustainable management of the region's natural resources towards improving livelihood, public health and socio-cultural aspects through the provision of basic knowledge, information, and technology. With this framework, the CSU RDE Programs aim to respond to the needs of the region in the following areas:

- 1) utilizing and developing the lowland and upland resources sustainably;
- 2) managing the mineral resources responsibly;
- 3) developing and maintaining the natural endowments for ecotourism;
- 4) upgrading human capacity through the understanding and appreciation of science and mathematics; and
- 5) cultivating values and culture through basic and functional literacy programs and the appreciation of the socio-cultural backgrounds of every sector of society.

The lines represent the interconnectivity of the various programs and to the nucleus, which is the **CSU RDE CENTER**. These likewise show the interrelatedness and interdependence of the programs in terms of human resources, facilities, capability building and other relevant areas of collaboration. The broken lines connecting the various programs indicate permeability of the system allowing new methodologies and linkages to be part of the system. The existence of CCESM and CCARRD along the sides represents the parallelism of the Center's programs to what these two CSU-based consortia are promoting.



**Fig. 1. Model of the CSU Research, Development and Extension System Implementation**

## **RDE PROGRAMS (2011-2016)**

### **Environmental Conservation & Ecotourism Development Program**

- a) The Faculty of Environmental Sciences under CAS and the College of Agricultural Sciences and Natural Resources (CASNR) will be the lead convener.
- b) Collaborators will be the faculty-researchers/extension workers from the:
  - 1) Faculty of Tourism and Technology at the CSU-Cabadbaran Campus
  - 2) Natural Sciences Department, Social and Languages Department, and the Mathematics Department of the College of Arts and Sciences (CAS)
  - 3) Information Technology and Engineering Department of the College of Engineering and Information Technology (CEIT)
  - 4) College of Science Education (CSE)
- c) The RDE program shall include:
  - a. socio-cultural aspects of ecotourism
  - b. tourism practices and management
  - c. ecological and economic aspects of tourism
  - d. environmental issues on ecotourism
  - e. basic literacy for communities within or near ecotourism sites
  - f. science and mathematics education for would-be ecotourism workers

### **Responsible Mining Program**

- a) The College of Engineering and Information Technology (CEIT) will be the lead convener.
- b) Collaborators will be the faculty-researchers from the:
  - 1. Natural Sciences Department, Social and Languages Department and the Mathematics Department of the College of Arts and Sciences (CAS)
  - 2. Natural Resources Management Department and the Agricultural Sciences Department of the College of Agricultural Sciences and Natural Resources (CASNR)
  - 3. College of Science Education (CSE)
  - 4. Faculty of Tourism and Technology at the CSU-Cabadbaran Campus.
- c) The RDE program shall include:
  - a. socio-cultural aspects of mining
  - b. mines and mining technology
  - c. Geology
  - d. material science
  - e. environmental issues on mining
  - f. basic literacy for mining communities
  - g. science and mathematics education for would-be miners

### **Sustainable Upland/Lowland Resources Development Program**

- a) The **College of Agricultural Sciences and Natural Resources (CASNR)** will be the lead convener.
- b) Collaborators will be the faculty-researchers from the:
  - 1. Natural Sciences Department, Social and Languages Department, and the Mathematics Department of the College of Arts and Sciences (CAS)
  - 2. Information Technology and Engineering Department of the College of Engineering and Information Technology (CEIT)
  - 3. College of Science Education (CSE)
  - 4. Faculty of Tourism and Technology at the CSU-Cabadbaran Campus.
- c) The RDE program shall include:
  - a. socio-cultural aspects of agriculture and forestry
  - b. agricultural and forestry technology
  - c. basic aspects of agricultural and soil science
  - d. basic aspects of forestry and wood science
  - e. environmental issues on agriculture and forestry
  - f. basic literacy for upland farming and wood-based communities
  - g. science and mathematics education for would-be agriculturalists and foresters

### **Science, Mathematics and Engineering Development Program**

- a) The **Natural Sciences Department, Social and Languages Department, and the Mathematics Department of the College of Arts and Sciences (CAS)** will be the lead convener.
- b) Collaborators will be the faculty-researchers/extension workers from the:
  - 1) Information Technology and Engineering Department of the College of Engineering and Information Technology (CEIT)
  - 2) College of Science Education (CSE)
  - 3) College of Agricultural Sciences and Natural Resources (CASNR)
  - 4) Faculty of Tourism and Technology at the CSU-Cabadbaran Campus
- c) The RDE program shall include:
  - a. socio-cultural aspects of science and mathematics appreciation
  - b. science and mathematics teaching strategies
  - c. ecological and economic applications of basic sciences and mathematics
  - d. basic science and mathematics education for the future

### **Program for Regional Human Capital Development**

- a) The College of Science Education (CSE) will be the lead convener
- b) Social and Languages Department of the College of Arts and Sciences (CAS) will be the co-convener

- c) Collaborators will be the faculty-researchers/extension workers from the:
  - 1) Information Technology and Engineering Department of the College of Engineering and Information Technology (CEIT)
  - 2) Natural Sciences Department, Social and Languages Department, and the Mathematics Department of the College of Arts and Sciences (CAS)
  - 3) College of Agricultural Sciences and Natural Resources (CASNR)
  - 4) Faculty of Tourism and Technology at the CSU-Cabadbaran Campus
- d) The RDE program shall include:
  - a. socio-cultural studies of various ethnic groups and disadvantaged groups in Caraga Region
  - b. nurturing of appropriate values, traditions, practices, mores, etc for sustainable rural development
  - c. ecological and economic implications of indigenous knowledge system (IKS)
  - d. basic science and mathematics education for the IPs
  - e. pedagogy for basic and functional literacy
  - f. skills enhancement program

### **RDE ACTION PLAN FOR 2011-2016**

#### **Key Area 1: Environmental Conservation and Eco-tourism Development in Mt. Hilong-Hilong Range, Lower Agusan River Basin and Butuan Bay towards Climate Change Adaptation**

Goals: Conserve the biodiversity and environmental integrity of Mt Hilong-Hilong Range, Lower Agusan River Basin and Butuan Bay

Specific Action Plan:

#### ***Completed and On-Going Activities: (2009-2012)***

1. Assessment of the Flora and Fauna Composition of Mt Hilong-Hilong Range, Agusan Marsh
2. Assessment of Agricultural and Tree Plantation Development in Agusan Marsh
3. Identification and Characterization of Ni-Hyperaccumulator Species At Carrascal Nickel Corporation in Sitio Gango, Brgy. Bonot, Carrascal, Surigao Del Sur
4. Rapid Assessment of the Existing and Proposed Protected and Watershed Areas Within Agusan River Basin
5. Evaluation of Mining Status in the Agusan River Basin
6. Aquatic Insects in Ecologically Important Freshwater Wetlands in Caraga Region
7. Assessment of the Mangrove Ecosystems in Caraga Region
9. Satellite-based Assessment of Erosion: A case in Agusan River Basin
10. Freshwater Ecology and Biodiversity of the Lower Agusan River Basin
11. Social Acceptability of Mining Operations in CARAGA Region

***Proposed Activities:***

1. Status and Distribution of the Flora and Fauna Composition of Mt Hilong-Hilong Range, Agusan Marsh, Lower Agusan River Basin and Butuan Bay
2. The Physical and Chemical Characterization of Mt Hilong-Hilong, Agusan Marsh, Lower Agusan River Basin and Butuan Bay Macro and Micro Habitats
3. The Social and Economic Activities on the Resource Use Pattern among Mt Hilong-Hilong, Agusan Marsh, Lower Agusan River Basin and Butuan Bay Residents
4. Ecological Modeling on Mt Hilong-Hilong, Agusan Marsh, Lower Agusan River Basin and Butuan Bay towards Biodiversity Conservation
5. Biodiversity Conservation and Sustainable Use Summer Camp for Youth and Kids
6. Continuing Environmental Education for the Various Sectors of Society towards Mt Hilong-Hilong, Lower Agusan River Basin and Butuan Bay Conservation
7. Carbon Sequestration Capacity of Mt Hilong-Hilong, Lower Agusan River Basin and Butuan Bay
8. NIPAS Law Implementation in Relation to Agusan Marsh Wildlife Sanctuary
9. Assessment of Environmental and Economic Impact of Small-Scale Mining Operations in Caraga Region
- 10.

**Strategies:**

1. Faculty members leading the research activities
2. Selected groups of students to conduct theses;
3. Partnership with LGUs Agusan del Norte and municipalities;
4. Partnership with NGOs e.g. Oceanfriends Foundation; Conservation International
5. Source out funding from Institute IGP, Foreign Donors, LGU Partners, Private Companies

**Expected Outputs:**

1. Publications in ISI Journals
2. Information System (complete with databases, on-line information, spatio-temporal maps)
3. Communication, Education & Public Awareness (CEPA) materials
4. Income generation

**Key Area 2: Sustainable lowland and upland resources development towards hunger mitigation and job creation**

Goal: Provide food for every table while taking note of the delicate balance between food production and environmental conservation

**Specific Action Plan:**

***Completed and On-Going Activities: (2009-2012)***

Agriculture

1. Community-based S&T interventions on integrated crop management (ICM) and good agricultural practices (GAP) for cardaba banana production in Caraga Region
2. Development of a mechanical banana chipper and dryer
3. Supply chain analysis on abaca in Caraga Region



4. Integrated solid waste management (SWM) and organic vegetable production in peri-urban areas of Butuan City
5. Tissue-cultured superior abaca planting material production
6. Cooperative modern corn farming in selected corn clusters integrating farm mechanization and planting of hybrid corn
7. Sustainable integrated organic farming
8. Carabao production and dispersal
9. Short Course in Dairy production
10. STBF on Improved Abaca Production
11. Promotion of Philippine Rice Self-Sufficiency Program

#### Forestry/Agroforestry

1. IPM in Industrial Tree Plantation Species
2. Provenance trial of ITPS as source for quality planting materials in ITP development
3. STBF on Falcata Nursery Management

#### ***Proposed Activities:***

#### Agriculture

1. Community participatory research (CPR) on abaca production and marketing in Caraga Region
2. Early agriculture science appreciation among elementary graders in Butuan City
3. Postharvest technology and processing of agricultural products
4. STBF on High-Value Vegetable Production
5. Advocacy of Public-Private-Academe Partnership (PPP) on Agri-Tourism and Green Energy Production

#### Forestry

1. Carbon sequestration of ITPS at Varying Ages and Management System
2. Agusan Marsh as a Carbon Sink
3. Advocacy of the National Greening Program (NGP)
- 4.

#### Strategies:

1. Faculty members leading the research activities
2. Selected groups of students to conduct theses
3. Partnership with LGUs Agusan del Norte and municipalities
4. Partnership with NGOs e.g. Oceanfriends Foundation; Conservation International
5. Source out funding from Institute IGP, Foreign Donors, LGU Partners, Private Companies

#### Expected Outputs:

1. Publications in ISI Journals
2. Information System (complete with databases, on-line information)
3. Communication, Education & Public Awareness (CEPA) materials
4. Income generation

### **Key Area 3: Human Capital Building and Moral Recovery Program in the Barangays**

Goals: Capacitate the Caraga populace for better quality of life

Specific Action Plan:

***Completed and On-Going Activities: (2009-2012)***

1. Functional Literacy Project in Pianing
2. Science Education Enhancement Project for Grade 3 Pupils
3. Philippine Rice Self Sufficiency Program (PRSSP) Multistakeholder Partnership
4. Establishment of the Pagatpatan Wetland Center
5. Vermicomposting in support to Organic Vegetable Production in Butuan City
6. Analysis of Solid Waste Management (SWM) in Butuan City
7. Waste Management in Barangay Dumalagan, Butuan City
8. Adopt A School : Manapa Integrated School - Secondary, Manapa, Buenavista, Agusan del Norte
9. Mining Operations Awareness Program
- 10.

***Proposed Activities:***

1. Functional Literacy Project for City Jail Inmates
2. Analysis of the entry competencies of freshmen students of CSU: Basis for Curricular Enhancement Program
3. Evaluation of the Support Services in CSU Towards Enhancing Learning Among Students
4. Development and Testing of Modules for Youth Environment Summer Camp
5. Development and Testing of Modules for Continuing Environmental Education for Adults
6. Development and Testing of Modules for Early Agriculture Appreciation Course Among School Children
7. Development and Testing of Modules for Early Science and Math Appreciation Course Among School Children
8. Spatio-Temporal Analysis of Dengue Cases in Caraga Region
9. Graduate Tracer Study
10. Monitoring and Evaluation of Faculty Performance Toward Improving Efficiency in Cabadbaran Campus
11. Enhancing Campus-wide Management and Academic Capability of Caraga State University Using GIS
12. Document Management System of CSU Board Resolutions

Strategies:

1. Identification of community outreach site
2. Training needs analysis
3. Consultative planning with stakeholders
4. Preparation of modules
5. Delivery of training
6. Skills assessment

Expected Outputs:

1. Publications in ISI Journals
2. Information System (complete with databases, on-line information)
3. Communication, Education & Public Awareness (CEPA) materials
4. Income generation

#### **Key Area 4: Information and Communication Technology (ICT) for Development of Caraga Region**

Goals: Empower the Caraga populace through provision of access to information for better quality of life

Specific Action Plan:

##### ***Completed and On-Going Activities: (2009-2012)***

1. i-school Project and e-skwela
2. Satellite-based Assessment of Erosion: A case in Agusan River Basin
3. Satellite-based Assessment of Sago (*Metroxylon sagu* Roettb.) Distribution and Abundance in Agusan River Basin

##### ***Proposed Activities:***

1. Development and Assessment of Automated Teachers Evaluation Rating
2. Pilot Testing e-Learning System in the four colleges of CSU Main Campus
3. Satellite-based Assessment of Mining in Caraga Region: A case in Mt. Hilong-Hilong Range
4. Disaster and Risk Management in Key Mining Areas in Caraga Region Through GIS-Based Decision Support System
5. Automation in Rain-sheltered Organic Vegetable Production
6. Early Warning System for Climate Change-Ready Corn and Rice Production in Caraga Region

Strategies:

1. Identification of community outreach site
2. Training needs analysis
3. Consultative planning with stakeholders
4. Preparation of modules
5. Delivery of training
6. Skills assessment
7. Satellite-based assessment
8. GIS Mapping

Expected Outputs:

1. Publications in ISI Journals
2. Information System (complete with databases, on-line information, spatio-temporal maps)
3. Communication, Education & Public Awareness (CEPA) materials
4. Income generation

#### **Key Area 5: Institutional Capacity Building**

Goals: Make CSU RDE more relevant and responsive to the S&T needs of Caraga Region

Specific Action Plan:

1. Establish the CSU RDE Center showcasing a 'corporate image'
2. Revive the Caraga Center for Environmental Studies and Management (CCESM)
3. Develop the CCESM office in support to Responsible Mining Program, Disaster and Risk Reduction and Climate Change Mitigation
4. Make CCESM a research and development center while performing as a foundation at the same time
5. As a foundation, make CCESM handles transactions related to proposal packaging, training, community outreach, fund generation and financial management
6. Develop or hire personnel to manage the day-to-day transactions of CCESM
7. Prioritize environment-related RDE in CSU to fit-in to CCESM's Mission and Vision

Strategy:

1. Assign 1 old building to be renovated as CSU RDE Center and CCESM office
2. Register CCESM as a foundation to the SEC
3. Draw a functional organizational structure for CCESM
4. Anchor the partnerships/linkages re environment conservation at CCESM
5. Start writing proposals to generate RDE funds, center operation fund and training funds
6. Conduct a proactive promotion of CCESM's operations and programs to gain support from partners
7. Advertise programs to get donations from NGOs and other sources

**INVENTORY OF APPROVED BUDGET VIS-À-VIS NATIONAL AND REGIONAL PRIORITIES  
FY 2012  
Caraga Region**

**DEPARTMENT/AGENCY: CARAGA STATE UNIVERSITY  
SECTOR: SOCIAL - EDUCATION**

<b>PROGRAM/ACTIVITIES/PROJECTS PER MFO</b>	<b>PROJECT DESCRIPTION (Brief description, start and end of project)</b>	<b>LOCATION (Province/City/Municipality)</b>	<b>AMOUNT (PhP)</b>	<b>EXPECTED OUTCOME/ RESULTS</b>
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(5)</b>	<b>(6)</b>
<b>RESEARCH SERVICES</b>				
<b>Conduct of R&amp;D Projects</b>				
<b>Research 1:</b> Integrated Pest Management in ITP	Support to wood-based industry in Caraga, 2012-2014	Agusan del Sur, Surigao del Sur, Agusan del Norte	450,000.00	Increased income among tree farmers
<b>Research 2:</b> Adoption of S&T Based ICM and GAP from Banana in Caraga Region	Support to production of banana chips and other products, 2010-2012	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	350,000.00	Increased income among banana farmers
<b>Research 3:</b> Aquatic insects in important freshwater wetlands in Caraga Region	Information for climate change adaptation and mitigation, 2010-2012	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	100,000.00	Improved adaptive capacity to Climate Change
<b>Research 4:</b> Freshwater Ecology and Biodiversity of the Lower Agusan River Basin	provide data on the status and relevance of the freshwater ecology in relation to environmental conservation, 2013-2015	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	1,300,000.00	Improved adaptive capacity to Climate Change

<b>Research 5:</b> Social Acceptability of Mining Operations in CARAGA Region	enhanced implementation of responsible mining in the Region and eradicate negative impressions towards mining operations, 2013-2015	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	750,000.00	Improved adaptive capacity to Climate Change; Increased income levels of communities
<b>Research 6:</b> Assessment of Environmental and Economic Impact of Small-Scale Mining Operations in Caraga Region	provide information on the impacts of mining operations and relates to the issue of climate change, 2013-2015	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	1,500,000.00	Improved adaptive capacity to Climate Change; Increased income levels of communities
<b>Research 7:</b> Enhancing Campus-wide Management and Academic Capability of Caraga State University Using GIS	Support to CSU administration for transparency and governance, 2012-2013	CSU, Butuan City	1,000,000.00	More transparent transaction
<b>Research 8:</b> Monitoring and Evaluation of Faculty Performance Toward Improving Efficiency in Cabadbaran Campus	Support to CSU administration for transparency and governance, 2012-2013	CSU, Butuan City	350,000.00	More transparent transaction
<b>Research 9:</b> Graduate Tracer Study	Provide information on the graduates of Caraga State University, 2012-2013	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	650,000.00	More transparent transaction
<b>Research 10:</b> Spatio-Temporal Analysis of Dengue Cases in Caraga Region	Provide statistical analysis on dengue cases in Caraga region for dengue management and control, 2012-2014	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	750,000.00	
<b>Research 11:</b> Document Management System of CSU Board Resolutions	Support to CSU administration for transparency and governance, 2012-2013	CSU, Butuan City	850,000.00	More transparent transaction

<b>Project 12:</b> . Establishment of the Pagatpatan Wetland Center'	In Support to Sustaining the Integrity of the Environment and Climate Change Mitigation and Adaption, 2012-2015	Butuan City	1,000,000.00	Improved adaptive capacity to Climate Change; Increased income levels of communities
<b>Training</b>	Support to the Attainment of Program Goals	-	220,000.00	Reduced Poverty and Literacy of the Poor and Vulnerable;
<b>Office Operation</b>	Support to the Attainment of Program Goals	-	352,000.00	Reduced Poverty and Literacy of the Poor and Vulnerable;

**INVENTORY OF APPROVED BUDGET VIS-À-VIS NATIONAL AND REGIONAL PRIORITIES  
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**DEPARTMENT/AGENCY: CARAGA STATE UNIVERSITY  
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PROGRAM/ACTIVITIES/PROJECTS PER MFO	PROJECT DESCRIPTION (Brief description, start and end of project)	LOCATION (Province/City/Municipality)	AMOUNT (Php)	EXPECTED OUTCOME/ RESULTS
(1)	(2)	(3)	(5)	(6)
<b>EXTENSION SERVICES</b>				
<b>Conduct of extension and community outreach projects</b>				
1. Agroforestry Program for Environmental Conservation and Livelihood in Buenavista, Agusan del Norte	In Support to Rapid, Inclusive and Sustained Economic Growth	Buenavista, Agusan del Norte	c/o LGU	Increased Livelihood and income among the residents
2. CSE Pianing Extension Program	In Support to Poverty Reduction and Empowerment of the Poor and Vulnerable	Butuan City	50,000.00	Empowerment among the barangay residents
3. Establishment of the Pagatpatan Wetland Center	In Support to Sustaining the Integrity of the Environment and Climate Change Mitigation and Adaption	Butuan City	65,000.00	Environmental Integrity and Climate Change Mitigation/ Adaptation
4. Goat-based mixed Farming System	In Support to Rapid, Inclusive and Sustained Economic Growth	Butuan City	10,000.00	Increased Livelihood and income among the residents
5. Rubber and Coffee-based Mixed Farming System	In Support to Rapid, Inclusive and Sustained Economic Growth	Butuan City	10,000.00	Increased Livelihood and income among the residents
6. Vermicomposting towards Organic Agriculture	In Support to Rapid, Inclusive and Sustained Economic Growth	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	15,000.00	Increased Livelihood and income among the residents



7. CSU Agro-Eco Park Project	In Support to Sustaining the Integrity of the Environment and Climate Change Mitigation and Adaption	CSU, Butuan City	c/o CHED	Environmental Integrity and Climate Change Mitigation/ Adaptation
8. Abaca Tissue Cultured Plantlet Production	In Support to Rapid, Inclusive and Sustained Economic Growth	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	25,000.00	Increased Livelihood and income among the residents
9. Moringa Tissue Cultured Plantlet Production and Farming System Technical Support	In Support to Rapid, Inclusive and Sustained Economic Growth	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	25,000.00	Increased Livelihood and income among the residents
10. Industrial Tree Plantation Species (ITPS) Provenance Trial and Clonal Nursery Development	In Support to Sustaining the Integrity of the Environment and Climate Change Mitigation and Adaption	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	8,000.00	Environmental Integrity and Climate Change Mitigation/ Adaptation
12. Field Demonstration on Vegetable Production	In Support to Rapid, Inclusive and Sustained Economic Growth	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	20,000.00	Increased Livelihood and income among the residents
13. National Wetland Summit	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation through Awareness Campaign on the Role of Wetlands in CC Adaptation	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	60,000.00	Environmental Integrity and Climate Change Mitigation/ Adaptation
14. Forum on Gender-Related Development Projects	Advocacy in support to Gender and Development	Butuan City and Agusan del Norte	30,000.00	Reduced Poverty and Literacy of the Poor and Vulnerable;
15. NIPAS Law Implementation in Relation to Agusan Marsh Wildlife Sanctuary	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation through Awareness Campaign on the Role of Wetlands in CC Adaptation	Agusan del Sur	50,000.00	Environmental Integrity and Climate Change Mitigation/ Adaptation
16. Promotion of Women Participation in Home-Based Nursery Management for Abaca, Banana and Moringa	Advocacy in support to Gender and Development	Butuan City and Agusan del Norte	20,000.00	Increased Livelihood and income among the residents

17. Advocacy of Public-Private-Academe Partnership (PPP) on Agri-Tourism and Green Energy Production with LGU-Butuan, Private Sector and Toyo University of Japan	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development	Butuan City and Agusan del Norte	30,000.00	Increased Livelihood and income among the residents
18. Advocacy of the National Greening Program (NGP)	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation through reforestation	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	45,000.00	Increased Livelihood and income among the residents
19. Promotion of Philippine Rice Self-Sufficiency Program (with FSUU, CSU, PhilRice and IRRI)	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development	Agusan del Norte and Agusan del Sur	15,000.00	Increased Livelihood and income among the residents
20. i-schools	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development	Agusan del Sur, Surigao del Sur, Agusan del Norte, Surigao del Norte, Dinagat Island	c/o CICT	Reduced Poverty and Literacy of the Poor and Vulnerable;
21. Waste Management in Barangay Dumalagan, Butuan City	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development	Butuan City	100,000.00	Reduced Poverty and Literacy of the Poor and Vulnerable;
22. Adopt A School : Manapa Integrated School - Secondary, Manapa, Buenavista, Agusan del Norte	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development	Buenavista, Agusan del Norte	10,000.00	Reduced Poverty and Literacy of the Poor and Vulnerable;
23. Balikatan Para sa La Union, Cabadbaran City	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development	Cabadbaran City	50,000.00	Reduced Poverty and Literacy of the Poor and Vulnerable;
<b>Training</b>	Support to the Attainment of Program Goals			Reduced Poverty and Literacy of the Poor and Vulnerable;
<b>Office Operation</b>	Support to the Attainment of Program Goals			Reduced Poverty and Literacy of the Poor and Vulnerable;

**AGENCY's ONGOING PROGRAMS AND PROJECTS**  
**FY 2013-2015**  
**Caraga Region**

DEPARTMENT/AGENCY: CARAGA STATE UNIVERSITY

SECTOR: SOCIAL - EDUCATION

PROGRAM/ACTIVITIES/ PROJECTS PER MFO	BRIEF DESCRIPTION, STATUS AND LOCATION OF PROJECT	MULTI-YEAR OBLIGATIONS						TOTAL AMOUNT (PhP)
		FY 2013		FY 2014		FY 2015		
		Performance Target	Amount (PhP)	Performance Target	Amount (PhP)	Performance Target	Amount (PhP)	
(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<b>RESEARCH SERVICES</b>								
<b>Conduct of R&amp;D Projects</b>								
<b>Research 1:</b> Integrated Pest Management in ITP	Support to wood-based industry in Caraga, 2012-2014	30% yield increase	450,000.00	additional 10% yield increase	450,000.00	-	-	900,000.00
<b>Research 2:</b> Adoption of S&T Based ICM and GAP from Banana in Caraga Region	Support to production of banana chips and other products, 2010-2012	30% yield increase	350,000.00	additional 10% yield increase	350,000.00	-	-	700,000.00
<b>Research 3:</b> Aquatic insects in important freshwater wetlands in Caraga Region	Information for climate change adaptation and mitigation, 2010-2012	200 Pamphlets/ Brochures; 50 Posters	100,000.00	-	-	-	-	100,000.00
<b>Research 4:</b> Freshwater Ecology and Biodiversity of the Lower Agusan River Basin	provide data on the status and relevance of the freshwater ecology in relation to environmental conservation, 2013-2015	Biodiversity Database	1,300,000.00	Biodiversity Database	1,300,000.00	200 Brochures; 5 Pictorial Books; GIS Maps; Database	1,000,000.00	3,600,000.00
<b>Research 5:</b> Social Acceptability of Mining Operations in CARAGA Region	enhanced implementation of responsible mining in the Region and eradicate negative impressions towards mining operations, 2013-2015	Database	750,000.00	Database	750,000.00	20 Barangays 10 IP Communities	750,000.00	225,000.00

<b>Research 6:</b> Assessment of Environmental and Economic Impact of Small-Scale Mining Operations in Caraga Region	provide information on the impacts of mining operations and relates to the issue of climate change, 2013-2015	Database	1,500,000.00	Database	1,000,000.00	10 Barangays	1,000,000.00	3,500,000.00
<b>Research 7:</b> Enhancing Campus-wide Management and Academic Capability of Caraga State University Using GIS	Support to CSU administration for transparency and governance, 2012-2013	Database	1,000,000.00	Database	350,000.00	100 brochures; 1 set of GIS maps	-	1,350,000.00
<b>Research 8:</b> Monitoring and Evaluation of Faculty Performance Toward Improving Efficiency in Cabadbaran Campus	Support to CSU administration for transparency and governance, 2012-2013	Database	350,000.00	Database	350,000.00	1 working M&E System	-	700,000.00
<b>Research 9:</b> Graduate Tracer Study	Provide information on the graduates of Caraga State University, 2012-2013	Database	650,000.00	Database	650,000.00	10 curricular programs	-	1,300,000.00
<b>Research 10:</b> Spatio-Temporal Analysis of Dengue Cases in Caraga Region	Provide statistical analysis on dengue cases in Caraga region for dengue management and control, 2012-2014	Database	750,000.00	Database	500,000.00	1 spatio-temporal map	-	1,250,000.00
<b>Research 11:</b> Document Management System of CSU Board Resolutions	Support to CSU administration for transparency and governance, 2012-2013	Database	850,000.00	1 Information System	350,000.00		-	1,200,000.00
<b>Training</b>	Support to CSU administration for transparency and governance, 2012-2013	60 Faculty trained	1,200,000.00	60 Faculty trained	1,200,000.00	60 Faculty trained	1,200,000.00	4,800,000.00
<b>Office Operation</b>	Support to CSU administration for transparency and governance, 2012-2013	Smooth delivery of service	500,000.00	Smooth delivery of service	500,000.00	Smooth delivery of service	500,000.00	2,000,000.00

**AGENCY's ONGOING PROGRAMS AND PROJECTS**  
**FY 2013-2016**  
**Caraga Region**

DEPARTMENT/AGENCY: CARAGA STATE UNIVERSITY  
 SECTOR: SOCIAL – EDUCATION

PROGRAM/ACTIVITIES/ PROJECTS PER MFO	BRIEF DESCRIPTION, STATUS AND LOCATION OF PROJECT	MULTI-YEAR OBLIGATIONS						TOTAL AMOUNT (PhP)
		FY 2013		FY 2014		FY 2015		
		Performance Target	Amount (PhP)	Performance Target	Amount (PhP)	Performance Target	Amount (PhP)	
(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(12)
<b>EXTENSION SERVICES</b>								
<b>Conduct of extension and community outreach projects</b>								
<b>Project 1:</b> Women Empowerment and Livelihood Through Integrated Waste Management and Urban Gardening	Enhance women empowerment and livelihood in the community, 2011-2014	3 RICs in the barangays	1,200,000.00	3 RICs in the barangays	1,000,000.00	-	-	2,200,000.00
<b>Project 2:</b> Waste Management in Barangay Dumalagan, Butuan City	Waste management in the community, 2011-2013	increased income	300,000.00	-	-	-	-	300,000.00
<b>Project 3:</b> Adopt A School : Manapa Integrated School - Secondary, Manapa, Buenavista, Agusan del Norte	Provide assistance in the areas of science and technologies, 2011-2013	increased passing in NAT	250,000.00	-	-	-	-	250,000.00
<b>Project 4:</b> Mining Operations Awareness Program	Provide awareness to the communities where mining operation is conducted in the region, 2012-2014	Improved awareness in 10 barangays	250,000.00	Improved awareness in 10 barangays	250,000.00	-	-	500,000.00
<b>Project 5:</b> Balikatan Para sa La Union, Cabadbaran, Agusan del Norte	Provide livelihood programs for poverty alleviation in La Union, 2010-2013	increased income	500,000.00	-	-	-	-	500,000.00

<b>Project 6.</b> National Wetland Summit	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation through Awareness Campaign on the Role of Wetlands in CC Adaptation	Improved awareness among science workers, LGU planners, disaster and risk managers	100,000.00	-	-	-	-	100,000.00
<b>Project 7.</b> Forum on Gender-Related Development Projects	Advocacy in support to Gender and Development	Improved awareness among women, LGU planners; Increased income among women	500,000.00	-	-	-	-	500,000.00
<b>Project 8.</b> NIPAS Law Implementation in Relation to Agusan Marsh Wildlife Sanctuary	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation through Awareness Campaign on the Role of Wetlands in CC Adaptation	Revised Implementation Plan and M&E for AMWS	350,000.00	-	-	-	-	350,000.00
<b>Project 9.</b> Promotion of Women Participation in Home-Based Nursery Management for Abaca, Banana and Moringa	Advocacy in support to Gender and Development	Improved awareness among women, LGU planners; Increased income among women	150,000.00	Improved awareness among women, LGU planners; Increased income among women	150,000.00		200,000.00	500,000.00
<b>Project 10.</b> Advocacy of Public-Private-Academe Partnership (PPP) on Agri-Tourism and Green Energy Production with LGU-Butuan, Private Sector and Toyo University of Japan	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development	Improved awareness among science workers, LGU planners, disaster and risk managers	250,000.00	Improved awareness among science workers, LGU planners, disaster and risk managers	250,000.00	-	-	500,000.00
<b>Project 11.</b> Clonal Nursery Establishment and Operation for the National Greening Program (NGP)	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation through reforestation; 2011-2014	200,000 cloned planting materials yearly	2,000,000.00	200,000 cloned planting materials yearly	1,500,000.00	200,000 cloned planting materials yearly	500,000.00	4,000,000.00

<b>Project 12.</b> Promotion of Philippine Rice Self-Sufficiency Program (with FSUU, CSU, PhilRice and IRRI)	Advocacy in support to the Disaster Risk Reduction and Climate Change Mitigation and Poverty Reduction, Economic Development; 2011-2012	Improved awareness among rice farmers, LGU planners, local agri-technicians	500,000.00	-	-	-	-	500,000.00
<b>Project 13.</b> Establishment of the Pagatpatan Wetland Center'	In Support to Sustaining the Integrity of the Environment and Climate Change Mitigation and Adaption	10% of farmers, fisherfolks, teachers, LGU planners, women, students aware of the importance of wetlands	500,000.00	50% of Butuan City Elementary Teachers and Pupils aware	500,000.00	50% of Butuan City High School Teachers and Pupils aware	3,000,000	1,300,000.00
<b>Training</b>	Support to CSU administration for transparency and governance, 2012-2013	60 Faculty trained	600,000.00	60 Faculty trained	600,000.00	60 Faculty trained	600,000.00	2,400,000.00
<b>Office Operation</b>	Support to CSU administration for transparency and governance, 2012-2013	Smooth delivery of service	500,000.00	Smooth delivery of service	500,000.00	Smooth delivery of service	500,000.00	2,000,000.00