

NATIONAL RESEARCH COUNCIL OF THE PHILIPPINES

CY 2017

Major Programs and Projects Categorized in Accordance with the Five Key Results Areas Under E.O. No. 43, s. 2011

Program Title	Brief Description/Objectives	Beneficiaries	Implementing Agency/ies	Project Duration		Actual Y2017 Budget Released	Status	Harmonized National R&D Agenda (HNRDA) PRIORITY PROGRAMS
				Start	End			
Sustainable Communities Program	<p>This research program aims to establish scientifically crafted sustainability management solutions (action plans/roadmaps/models) to the pressing ecological problems, as well as the encompassing social issues affecting the different communities in the country. The program is into geographical, community-based (people), ecosystem-based (environment), and transdisciplinary in approach which will diagnose problems and challenges on ecological and sociological components that hinders sustainability of the ecosystem and surrounding communities in order to come up with scientific solutions and policy recommendations. This program will focus more on its flagship theme called the Saklolo ng Lawa Program or the "SakLaw Program," which is a comprehensive research program that is aimed on providing bio-physical and reflecting the current status of the lake ecosystem and on describing the socio-cultural components of the communities around the lake. Findings from these researches will serve as critical input that will be provided to policy making bodies and relevant stakeholders for planning and programs aimed to address the continuous degradation of this ecosystem and improve the lives of the surrounding communities specially the most vulnerable sectors that are highly dependent on the lake's resources.</p> <p>The program will apply the principles governing a sustainable community i.e. a community that is economically, environmentally, and socially healthy and resilient. It meets challenges through integrated solutions rather than through fragmented approaches that meet one of those goals at the expense of the others. And it takes a long-term perspective – one that's focused on both the present and future, well beyond the next budget or election cycle" (Institute for Sustainable Communities).</p>	Communities on vulnerable ecosystems, Policy Makers (LGUs and NGAs), Academe and Science Communities	SCUs, Private Colleges and Universities, NGAs	2017	2022	3,600,661.10	Ongoing	Basic Research Priority Program

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Re-engineering the Philippines towards Inclusive Nation-building Program	The inclusive nation-building program aims on transforming the country into a nation united in its ethnic diversity; just and humane among its people's interrelations; respectful, even appreciative of their diverse and divergent ways of life, arts, languages, practices, and cultures; fostering and nurturing their cultural integrity together with economic self-sufficiency. This revisioned national development adheres to moral and ethical principles; reclaims the rich past (including archaeological roots) and resilient present (through Filipinnovation in the arts and cultures). This nationalist direction utilizes innovative strategies for comprehensive development of communities, and maximizes educational reforms on all levels, complemented by multimedia dissemination, towards encompassing positive social change.	Academe (Students, Educators, Administrators, Scientists) - knowledge advancement for instruction, strategic planning, advance research; Communities especially the vulnerable sectors (poorest of the poor, settlers on high-risk areas [e.g. landslide prone/coastal and flood-prone]); Government (NGAs, LGUs, Policy makers, Research Development Institutions - policy recommendations, frameworks/strategies/tools; Industry (Agriculture, Biotechnology, Medical-Pharmaceutical)	SCUs, Private Colleges and Universities, NGAs	2017	2022	1,640,213.36	Ongoing	Basic Research Priority Programs

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Health Sufficiency	<p>This project is a research and development initiative to support the objective of the national government in improving the quality of life of every Filipino through scientific-based data which will be generated from basic research undertakings aimed to describe the Filipinos' current health status, knowledge, attitude and practices on disease control and management (including those from different ethnic groups), public health measures, trends and changes in Filipinos' health status over time, and evaluation of the existing policies and programs towards achieving the Sustainable Development Goals in securing better health for Filipinos today and for years to come.</p> <p>Meanwhile, with various emerging and re-emerging diseases the Philippines is currently facing, this will also be an initiative for generation of new knowledge on possible alternative sources of health improvement initiatives for disease control and management through fundamental researches on natural products development. The program will include biodiversity studies grounded on taxonomic classification and identification of microorganisms, plants and animals in search of discovering potential sources of bioactive compounds. Breakthroughs from taxonomic studies will pave the way for the development of next generation chemotherapeutic agents and antimicrobial drugs from the discoveries of molecules with wide ranging bioactivities including antibiotics, antifungal and anticancer properties isolated from various organisms</p> <p>New data on sources of natural products will provide libraries of organisms for bioassay screening which will serve as catalyst for drug discovery. Further, the biogeographical distribution of these actinobacteria and actinomycetes in the Philippine archipelago may facilitate the effective conservation of "biodiversity hot spots" and stimulate conservation policy actions and sufficient protection of these valuable resources</p>	<p>Academe (Students, Educators, Administrators, Scientists) - knowledge advancement for instruction, strategic planning, advance research; Communities especially the vulnerable sectors (poorest of the poor, settlers on high-risk areas [e.g. landslide prone/coastal and flood-prone]); Government (NGAs, LGUs, Policy makers, Research Development Institutions - policy recommendations, frameworks/strategies/tools; Industry (Agriculture, Biotechnology, Medical-Pharmaceutical)</p>	<p>SCUs, Private Colleges and Universities, NGAs</p>	2017	2022	6,700,000.00	New	Basic Research Priority Program

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Food and Nutrition Security (SAPAT Program)	<p>This research program will provide science-based data to address critical knowledge gaps in the four key elements of food security, i.e. accessibility, availability, utilization and stability. The program will mainly capitalize on biodiversity researches in aid of harnessing our knowledge base on ecosystem functioning and the provision of goods and services that are essential to human health and well-being. Biodiversity is the source of the components of production (crops, livestock, fisheries), and the genetic diversity within these that ensures continuing improvements in food production, allows adaptation to current needs and ensures adaptability to future ones. The continued decline of biodiversity, including loss or degradation of ecosystems, is reducing the ability of biodiversity and ecosystems to provide essential life-sustaining services and, in many cases, leads to negative outcomes for health and well-being.</p> <p>On the other hand, food safety is a critical component for sustainable development, hence, it is critical to human nutrition and food security. Safer food contributes to less illness, therefore increases productivity and improves livelihood. Poor nutrition and foodborne diseases often combine to a vicious cycle of worsening health. Therefore, food safety must be systematically integrated into policies and interventions to improve nutrition and food security. Thus, this program will also explore fundamental researches towards better understanding of abiotic and biotic factors that threatens safety of food from farm to table.</p>	General public especially the vulnerable sectors, policy-makers (National and Local levels), academe and science community	SCUs, Private Colleges and Universities, NGAs	2017	2022	1,992,475.54	New	Basic Research Priority Program

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Water Security	The Philippines will experience a high degree of water shortage in year 2040. The agriculture sector which is a major component of the country's economy will be mostly affected. Climate change and the world's growing population are considered to be the drivers of widespread water shortage (WRI Technical Note, 2015; UN Report on Climate Change, 2009). This program will help mitigate this foreseen water shortage due to natural and human activities that render water undrinkable, unavailable and inaccessible. New processes, methodologies, cutting-edge S&T-based approaches will be explored.	General public, policy-makers, communities	SCUs, Private Colleges and Universities, NGAs	2017	2022	638,000.00	Ongoing	Basic Research Priority Program
Clean Energy Program	This program aims to investigate alternative energy sources in the Philippines. The challenge is clear—and daunting. As our country continue to modernize and industrialize, its energy needs are expected to double over the next 20 years. The challenge is to meet these needs while trying to stem accelerating greenhouse gas emissions (GHGs) that contribute to climate change. Thus, researches on cleaner energy sources is very important. Above all, this program will lay out how renewable energy can save the government money, bring jobs to the country, create wealth, expand access to energy for the most vulnerable in poor communities, and foster national energy independence. (CONTINUED nex page)	General public especially the vulnerable sectors, policy makers (National and Local levels), academe and science communities	SCUs, Private Colleges and Universities, NGAs	2017	2022	539,650.00	New	Basic Research Priority Program

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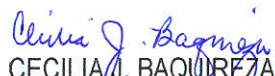
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Clean Energy Program	In the past years, the economic boost of the Philippines has resulted in many Filipinos lifted out of poverty. This success would not have been possible without the energy to fuel it, and there lies both the future promise of success and some perils. The demands for energy has dramatically risen for the pass years. In response to these challenges, energy sectors have evolved to focus on cleaner and more sustainable energy projects. What began, earlier this decade, as interventions in electricity expansion projects—oil and gas sectors, and power sector reforms—have now advanced to investments in alternative source of energy and renewable energy. This program will contribute in addressing this problem.							
TOTAL						15,111,000.00		

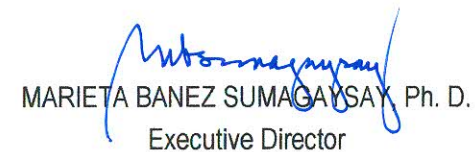
-  Beneficiaries
-  Project Status
-  HNRDA Priority Program

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