

## XX. DEPARTMENT OF SCIENCE AND TECHNOLOGY

## A. OFFICE OF THE SECRETARY

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

1. Globally competitive and innovative production and knowledge services sectors achieved
2. Improved preparedness and adaptive capacities to changing natural systems

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and cutting-edge technological innovations increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Enhance capacity to apply world-class science in finding innovative ways to address pressing national problems particularly those related to inclusive growth
2. Enable local industries particularly the small producers to improve productivity and competitiveness, and to move up the global value chain
3. Invest in the continuing development of S&T human resources and techno-scientific infrastructure

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Widespread benefits to Filipinos from scientific knowledge and cutting-edge technological innovations increased		
Development, adoption and implementation of Harmonized R&D agenda	-	90% of priorities in the Harmonized R&D Agenda addressed
Increase in the number of MSMEs assisted	2016 - 2,150	7% increase in the number of MSMEs assisted
	2015 - 1,984	
	2014 - 1,841	
PH ranking in technological readiness and innovation pillars of the World Economic Forum (WEF) Global Competitiveness Index	Ranking in the WEF Global Competitiveness Index	Better than 68 out of 140 in technological readiness and 48 out of 140 in innovation pillars of WEF Global Competitiveness Index
	Technological readiness ranking - 68th (2015-2016); 69th (2014-2015); 77th (2013-2014)	
	Innovation ranking - 48th (2015-2016); 52nd (2014-2015); 69th (2013-2014)	

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: SCIENCE AND TECHNOLOGY POLICY ADVISORY SERVICES

Number of plans and policy advisories updated, issued and disseminated	4
Percentage of stakeholders who rate DOST plans/policy advisories as satisfactory or better	90%
Percentage of plans/policy advisories that have been updated, issued and disseminated within the last three (3) years	90%

## MFO 2: SCIENCE AND TECHNOLOGY FUNDING SERVICES

Number of programs/projects reviewed	88
Percentage of projects completed over the last three (3) years whose findings were published in recognized journals or utilized by commercial entity	87%
Percentage of projects that have been evaluated at least twice within the last two (2) years	95%

## MFO 3: REGIONAL SCIENCE AND TECHNOLOGY SERVICES

## Technology Transfer

Number of firms/other entities provided with S&T assistance	2,972
Number of jobs created (in terms of person)	24,478
Number of technology interventions	5,392
Percentage of clients who rate the assistance as satisfactory or better	90%
Percentage of requests for assistance that are acted upon within the standard time	90%

## S&amp;T Services

Number of firms benefitting from technical and consultancy services provided	21,632
Percentage of clients who rate the technical services as satisfactory or better	90%
Percentage of requests for technical assistance that are acted upon within the ISO standard time	90%

## B. ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production and knowledge services sector achieved.

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and ICT and microelectronics technologies increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Implement a balance between long term and short term researches in Information and Communications Technology (ICT) and Electronics
2. Develop innovative products, solutions and applications
3. Provide technical advisory services to address the technological needs of Philippine institutions and enterprises

ORGANIZATIONAL OUTCOMES (Oos) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Widespread benefits to Filipinos from scientific knowledge and ICT and microelectronics technologies increased		
Percentage benefit incidence of ASTI services among target local firms and institutions	56% local firms and institutions benefited from the technical advisory services rendered in 2013	>70% of target local firms and institutions
MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets	
MFO 1: RESEARCH AND DEVELOPMENT		
Number of projects completed and disseminated		12
Percentage of projects completed in the last five (5) years that are published in recognized media or adopted by the industry		90%
Percentage of projects completed within the timeframe in accordance with the original project approval		90%
MFO 2: TECHNICAL ADVISORY SERVICES		
Number of technical advisory services rendered		4,800
Percentage of clients who rated the technical services as satisfactory or better		90%
Percentage of technical services provided within three (3) days of request		90%

## C. FOOD AND NUTRITION RESEARCH INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

1. Elimination of malnutrition through innovation and science-based technologies, products and services
2. Provision of quality, safe and affordable food for all
3. Combat hunger and malnutrition thru food biodiversity and sustainable development

## ORGANIZATIONAL OUTCOME

Increased benefits to Filipinos of scientific knowledge and food and nutrition technologies

## PERFORMANCE INFORMATION

## KEY STRATEGIES

1. Enforce the roll-out of the intervention model in the priority provinces
2. Intensify advocacy activities and monitoring of implementation in targeted areas / local government units
3. Promotion and marketing of new and existing food and nutrition technologies
4. Enhancement of technology transfer
5. Accelerate technological cooperation
6. Intensify linkages with partners

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Increased benefits to Filipinos of scientific knowledge and food and nutrition technologies		
Percentage of reduction of malnutrition prevalence in a municipality or barangay in each of the priority 25 provinces where S&T – based intervention model can be showcased	The target of 15% reduction in malnutrition prevalence was based on the results of the DOST PINOY (Package for the Improvement of Nutrition Of Young Children).	>15% reduction in malnutrition prevalence in a municipality or barangay in each of the priority 25 provinces where S&T- based intervention model was showcased
Percentage increase in the utilization of science-based interventions (technologies / products / services / models transferred and utilized; tools and guidelines adopted; policies developed and adopted)	The target of 20% increase is based on the average of the last five (5) years accomplishments / utilization of science-based intervention.	>20% increase in utilization of science-based intervention (e.g. technologies / products / services / models transferred and utilized; tools and guidelines adopted; policies developed and adopted for the reduction of malnutrition

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets
<b>MFO 1: SCIENTIFIC RESEARCH AND DEVELOPMENT</b>	
Number of projects completed	30
Percentage of projects completed in the last five (5) years that are published in recognized media or adopted by the industry	67%
Percentage of projects completed within the timeframe in accordance with original project approval	100%
<b>MFO 2: TECHNICAL ADVISORY SERVICES</b>	
Number of technical services rendered	3,000
Percentage of clients who rate the technical services as satisfactory or better	95%
Percentage of technical services provided within three (3) days of request	95%

## D. FOREST PRODUCTS RESEARCH AND DEVELOPMENT INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production and knowledge services sectors achieved.

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and forest-based product technological innovations increased

## PERFORMANCE INFORMATION

## KEY STRATEGIES

1. Improve the Research and Development (R&D) interventions through acquisition of new technical equipment.
2. Accelerate the delivery of technical advisory services to the globally competitive and innovative production and knowledge services sectors by implementing and maintaining the ISO 9001:2008 Quality Management System and PNS ISO / IEC 17025 accreditation of the FPRDI Testing Laboratories for paper, furniture and plywood.



ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Widespread benefits to Filipinos from scientific knowledge and forest-based product technological innovations increased		
Percentage benefit incidence of FPRDI services to target local firms and institutions	90% of 2,222 target local firms and individuals derived from the 5 years average historical data.	>90% of target local firms and institutions

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets
MFO 1: SCIENTIFIC RESEARCH AND DEVELOPMENT	
Number of projects completed	12
Percentage of projects completed in the last five (5) years that are published in recognized media or adopted by the industry	90%
Percentage of projects completed within the timeframe in accordance with original project approval	90%
MFO 2: TECHNICAL ADVISORY SERVICES	
Number of technical services rendered	1,560
Percentage of clients who rate the technical services as satisfactory or better	90%
Percentage of technical services provided within 3 days of request	90%

## E. INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production and knowledge services sectors achieved

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and technologies for industry productivity and competitiveness increased

## PERFORMANCE INFORMATION

## KEY STRATEGIES

1. Implement more focused R&D projects
2. Render a variety of Scientific and Technological services to its clients from different sectors
3. Diffuse / transfer the results of its R&D undertakings to adopters nationwide

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Widespread benefits to Filipinos from scientific knowledge and technologies for industry productivity and competitiveness increased		
Percentage benefit incidence of ITDI services to target manufacturing MSMEs	90% of 3,300 MSMEs engaged in industry oriented business derived from the five-year average historical data	>90% of total target MSMEs

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: SCIENTIFIC RESEARCH AND DEVELOPMENT

No. of R & D programs/projects completed and disseminated	15
% of projects completed in the last 5 years that are published in recognized media or adopted by industry	70%
% of projects completed within the timeframe in accordance with original project approval	90%

## MFO 2: TECHNICAL ADVISORY SERVICES

No. of technical services advisory services provided	12,000
% of clients who rate the technical services as satisfactory or better	90%
% of requests for technical advice that are acted upon within 3 days of request	90%

## F. METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production and knowledge services sectors achieved

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and cutting-edge metals and engineering innovations increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Implementation of the program to support the productivity and competitiveness of the Metals and Engineering (M&E) industries
2. Implementation of the Small Enterprise Technology Upgrading Program (SET-UP)
3. Development of Technology Investment Package Series
4. Maintenance of the ISO / IEC 17025 Accreditation of the MIRDC Laboratories

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)BASELINE2017 TARGETS

Widespread benefits to Filipinos from scientific knowledge and cutting-edge metals and engineering innovations increased

Percentage benefit incidence of MIRDC services to target local metals and engineering firms	92% - average percentage of local firms in the metals, engineering and allied industries	>90% of target local firms in the metals, engineering and allied industries
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MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: SCIENTIFIC RESEARCH AND DEVELOPMENT

No. of projects completed	36
% of projects completed in the last 5 years that are published in recognized media or adopted by the industry	60%
% of projects completed within the timeframe in accordance with original project approval	90%

## MFO 2: TECHNICAL ADVISORY SERVICES

No. of technical advisory services rendered	4,507
% of clients who rate the technical services as satisfactory or better	90%
% of requests that are acted upon within 3 days of request	90%

## G. NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

1. Globally competitive and innovative production and knowledge services sectors achieved
2. Improved preparedness and adaptive capacities to changing natural systems

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and cutting-edge technological innovations by enhancing and fostering the policy environment for the development of Science and Technology

## PERFORMANCE INFORMATION

## KEY STRATEGIES

1. Formulation of policy recommendations on relevant science and technology concerns
2. Promotion and recognition of outstanding scientific and technological achievements of scientists / researchers
3. Provision of benefits, privileges, awards and incentives to scientists / researchers
4. Development and maintenance of Science and Technology linkages and collaborations with other equivalent organizations
5. Management of the Philippine Science Heritage Center

## ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)

## BASELINE

## 2017 TARGETS

Widespread benefits to Filipinos from scientific knowledge and cutting-edge technological innovations by enhancing and fostering the policy environment for the development of Science and Technology

Percentage of priority issues as identified and addressed under the harmonized national Science and Technology agenda resolved

90% of priority issues under the harmonized Science and Technology agenda identified and 50% addressed

>90% of priority issues under the harmonized Science and Technology agenda identified and 60% addressed

## MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)

## 2017 Targets

## MFO 1: PROMOTION OF SCIENTIFIC ACHIEVEMENT

Number of Researchers/Scientists given awards and incentives	447
Annual percentage change in the number of nominations	5%
Notice of nominations disseminated three (3) months before deadline for nominations	2,500

Number of promotional activities conducted	8
Percentage of stakeholders who rate the activity as satisfactory or better	10%
Percentage of events that commenced within 30 minutes of scheduled time	90%

## H. NATIONAL RESEARCH COUNCIL OF THE PHILIPPINES

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

1. Globally competitive and innovative production and knowledge services sectors achieved.
2. Improved preparedness and adaptive capacities to changing Natural System.

## ORGANIZATIONAL OUTCOME

Problem-focused multi-disciplinary basic research, policy formulation and collaboration among Filipino researchers enhanced

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Plan and program multi-disciplinary Research and Development activities from annual to multi-year with the involvement of National Research Council of the Philippines (NRCP) member-researchers from State Universities and Colleges (SUCs) to undertake locally-based researchers
2. Strengthen research translation through paper presentations, policy fora, publications and patents

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Problem-focused multi-disciplinary basic research, policy formulation and collaboration among Filipino researchers enhanced		
Percentage of NRCP priority basic multi-disciplinary Research and Development programs addressed	14 priority programs comprised of 56 projects targeted for implementation from 2015-2016	>90% of priority basic multi-disciplinary programs addressed
Percentage of total Filipino researchers collaborating on problem-focused multi-disciplinary basic Research & Development programs	Currently NRCP has an estimate of 3,409 members	>25% of all local-based Filipino researchers (15,000) are NRCP members

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets
MFO 1: SCIENCE AND TECHNOLOGY POLICY SERVICES	
Number of policy advisory provided	25
Percentage of policy advisories rated satisfactory or better	90%
Percentage of policy advisories that have been updated, issued and disseminated within the last three (3) years	90%

## MFO 2: RESEARCH AND DEVELOPMENT MANAGEMENT SERVICES

Number of proposals evaluated	35
Percentage of projects recommended for approval that subsequently received funding through the governing council/EXECOM	90%
Percentage of proposals acted upon within four (4) months of receipt of complete proposal	90%
Number of on-going projects monitored	20
Percentage of completed projects that are published in recognized journals or utilized in DOST Institutes	90%
Percentage of monitored projects reviewed within the year	90%

## I. PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Knowledge, S&T for productivity, economic growth, and job creation

## ORGANIZATIONAL OUTCOME

Extensive application by Filipinos of accurate and robust science-based weather related information and services to enhance their safety and resiliency to disaster risks

## PERFORMANCE INFORMATION

## KEY STRATEGIES

1. Improve weather and flood forecasting system
2. Develop and implement field maintenance and calibration procedures for basic and other instruments
3. Program for advancing scientific research and application and linkages
4. Enhance human resource and organization development systems
5. Promote PAGASA Brand as the preferred provider of weather and other related services and advocate for sustainable support
6. Strengthen effective utilization of resources

ORGANIZATIONAL OUTCOMES (Oos) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Extensive application by Filipinos of accurate and robust science-based weather related information and services to enhance their safety and resiliency to disaster risks		
Percentage of 1,504 cities and municipalities (82 provinces) that have robust science-based weather related information and services in their disaster risk reduction plans	100% of 28 provinces	100% of 28 vulnerable provinces

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets
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## MFO 1: WEATHER, CLIMATE AND FLOOD FORECASTING/WARNING and OTHER RELATED SERVICES

Number of weather and flood warnings issued	2,211
Average percentage of forecasts of wind and rainfall associated with tropical cyclones that have variance of 20% or less to actual	92%
Percentage of weather and flood warning issued within five (5) minutes variance of scheduled time	92%

## J. PHILIPPINE COUNCIL FOR AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH AND DEVELOPMENT

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production and knowledge services achieved for the agriculture, aquatic and natural resources (AANR) sectors.

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from science-based know-how and tools for agricultural productivity increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Compliance to Harmonized National R&D Agenda 2013-2017
2. Translation of PCAARRD Corporate Plan
3. Implementation of PCAARRD Industry Strategic S&T Programs (ISPs)
4. Establishment and Maintenance of Inter-agency Linkages
5. Resource Generation through Partnership and Collaborations
6. Monitoring and Evaluation

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)BASELINE2017 TARGETS

Widespread benefits to Filipinos from science-based know-how and tools for agricultural productivity increased

Percentage of priorities in the Harmonized R&D agenda addressed

90% of priorities in the Harmonized R&D agenda addressed

>90% of priorities in the Harmonized R&D agenda addressed

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: AGRICULTURE, AQUATIC AND NATURAL RESOURCES SECTORS RESEARCH AND DEVELOPMENT POLICY SERVICES

No. of Policy Advisories Provided	38
Average % of policy advisories rated satisfactory or better	100%
% of policy advisories that have been updated, issued and disseminated within the last three (3) years	10%

## MFO 2: RESEARCH AND DEVELOPMENT MANAGEMENT SERVICES FOR AGRICULTURE, AQUATIC AND NATURAL RESOURCES SECTOR

No. of proposals evaluated	220
% of projects recommended for approval that subsequently received funding through the Governing Council/ EXECOM	90%
% of proposals acted upon within four (4) months	100%
No. of projects monitored	266
% of projects completed in the past four years that are published in recognized journals or utilized in the agriculture, aquatic and natural resources sector	100%
% of monitored projects reviewed within the year	100%

## K. PHILIPPINE COUNCIL FOR HEALTH RESEARCH AND DEVELOPMENT

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Improved Health Status of the Population.

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific and technological innovations for healthcare increased

## PERFORMANCE INFORMATION

ORGANIZATIONAL OUTCOMES (Oos) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Widespread benefits to Filipinos from scientific and technological innovations for healthcare increased		
Percentage of priorities in the National Unified Health Research Agenda (NUHRA) addressed	80% of Health Technology Development of National Unified Health Research Agenda	>90% of NUHRA priorities addressed

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets
<b>MFO 1: HEALTH SECTOR RESEARCH AND DEVELOPMENT POLICY SERVICES</b>	
No. of policy advisories provided	10
Average % of policy advisories rated satisfactory or better	80%
% of policy advisories that have been updated, issued and disseminated within the last three (3) years	80%
<b>MFO 2: RESEARCH AND DEVELOPMENT MANAGEMENT SERVICES FOR THE HEALTH SECTOR</b>	
No. of proposals evaluated	300
% of projects recommended for approval that subsequently received funding through the Governing Council/ EXECOM	90%
% of project proposals acted upon within four (4) months	90%
No. of ongoing projects monitored	200
% of projects completed in the past four (4) years that are published in recognized journals or utilized in the health sector	70%
% of monitored projects reviewed within the year	95%

## L. PHILIPPINE COUNCIL FOR INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH AND DEVELOPMENT (PCIEERD)

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production sectors achieved.

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and technological innovations for productivity and competitiveness increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Call for Proposal with specific research areas and range of funding support for identified R&D priority thrusts
2. Newly / updated sectoral roadmaps in consultation with partners and stakeholders
3. Defined work instructions / guidelines and criteria in evaluating project proposals and monitoring of projects

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)BASELINE2017 TARGETS

Widespread benefits to Filipinos from scientific knowledge and technological innovations for productivity and competitiveness increased

Percentage of priorities in the Harmonized R&D agenda addressed

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>90% of priorities in the Harmonized R&D agenda addressed

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH AND DEVELOPMENT POLICY SERVICES

No. of policy advisories provided	16
Average % of policy advisories rated satisfactory or better	90%
% of policy advisories that have been updated, issued and disseminated within the last three (3) years	90%

## MFO 2: RESEARCH AND DEVELOPMENT MANAGEMENT SERVICES FOR INDUSTRY, ENERGY AND EMERGING TECHNOLOGY

No. of proposals evaluated	160
% of projects recommended for approval that subsequently received funding through the Governing Council/ EXECOM	90%
% of project proposals acted upon within four (4) months	90%
No. of projects monitored	160
% of projects completed within the past four (4) years that are published in recognized journals or utilized by the industry	90%
% of monitored projects reviewed within the year	90%

## M. PHILIPPINE INSTITUTE OF VOLCANOLOGY AND SEISMOLOGY

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Improved preparedness and adaptive capacities of communities to changing natural systems

## ORGANIZATIONAL OUTCOME

Enhanced safety and resiliency of Filipinos to volcanic eruptions, earthquakes, tsunamis and other related hazards



## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Provide highly accurate and timely warning and information
2. Accurate prediction and simulation of geologic phenomena
3. Empower partners to lead in reducing risks from geologic hazards down to the barangay level
4. Enhanced collaboration with stakeholders

ORGANIZATIONAL OUTCOMES (Oos) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Enhanced safety and resiliency of Filipinos to volcanic eruptions, earthquakes, tsunamis and other related hazards		
Percentage of 1,504 cities and municipalities (82 provinces) that have mainstreamed use of hazard and risk information and warning on earthquakes, tsunamis, volcanic eruptions and related events in their disaster risk reduction plans	-	>30% (452) of cities and municipalities

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets
MFO 1: TECHNICAL ADVISORY SERVICES FOR GEOLOGIC AND GEOPHYSICAL PHENOMENA	
Number of bulletins and warnings issued	As necessary
Percentage of bulletins and warnings where the event follows within the predicted time	80%
Percentage of bulletins and warnings issued within the set standard time	80%
Number of hazards and risk maps, and evaluation report issued	600
Percentage of stakeholders who rated PHIVOLCS products as satisfactory or better	80%
Percentage of hazard and risk maps, and evaluation reports produced according to schedule	80%
MFO 2: DISASTER PREPAREDNESS AND RISK REDUCTION SERVICES	
Number of Disaster Risk Reduction (DRR) activities conducted	250
Average number of participants per disaster risk reduction activities	90
Percentage of participants who rated DRR activities as satisfactory or better	80%
Percentage of DRR activities conducted as scheduled	80%

## N. PHILIPPINE NUCLEAR RESEARCH INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

1. Globally competitive and innovative production sectors achieved
2. Resilience of natural systems enhanced with improved adaptive capacities of human communities

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from science-based R&D know-how and tools in safe and secure cutting-edge nuclear and radiation technologies increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Strengthen core competencies in nuclear S&T through the development of centers of excellence
2. Strengthen regulatory effectiveness through an updated regulatory regime and a continuing process of consultations with stakeholders
3. Establish / Upgrade facilities for the efficient conduct of research and delivery of services
4. Enhance public awareness of nuclear safety and peaceful applications of nuclear S&T
5. Implement a comprehensive human resource development program in nuclear S&T and nuclear regulations
6. Establish stronger collaboration with the academe, professional organizations, the private and public sectors through linkages, joint undertakings, and networking
7. Enhance bilateral, regional and international / multilateral collaboration in nuclear S&T
8. Optimize the application of Information and Communication Technology (ICT) for improved PNRI operations, more efficient data access / exchange and stronger national and international linkages
9. Institutionalize an Integrated Management System (IMS) for PNRI operations
10. Increase self-reliance and achieve a high degree of sustainability for the PNRI through the intensification of efforts to market its products and services

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)	BASELINE	2017 TARGETS
Widespread benefits to Filipinos from science-based R&D know-how and tools in safe and secure cutting-edge nuclear and radiation technologies increased		
Percentage benefit incidence of PNRI services to target local firms and institutions	3,720 - actual number of firms / institutions which availed of PNRI nuclear / radiation technology products / services in 2013	>10% increase in number of firms and institutions availing nuclear / radiation technology products / services
Percentage benefit incidence of nuclear regulatory services among total establishments that need to comply	95% - average percentage of licensees who comply with PNRI regulations from 2009 - 2013	>90% of establishments using radiation technology complied with regulatory requirements

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)	2017 Targets
<b>MFO 1: SCIENTIFIC RESEARCH AND DEVELOPMENT</b>	
No. of R&D programs/projects completed and disseminated	6
% of projects completed in the last 5 years that are published in recognized media or adopted by industry	85%
% of projects completed within the timeframe in accordance with original project approval	85%
<b>MFO 2: TECHNICAL ADVISORY SERVICES</b>	
No. of technical/consultative services rendered	35,000
% of clients who rate the technical service as satisfactory or better	85%
% of requests for technical assistance that are acted upon within 2 days of request	85%
<b>MFO 3: NUCLEAR REGULATORY SERVICES</b>	
No. of site inspections	115
% of detected violations that are acted upon within five (5) minutes	85%
% of sites that have been inspected more than twice in the last three (3) years	85%

No. of licenses and permits issued	265
No. of violation of regulations detected over the last five (5) years as a percentage of the average number of licenses and permits issued over the last five (5) years	15%
% of permit or license applications processed within fourteen (14) days of receipt	85%

## O. PHILIPPINE SCIENCE HIGH SCHOOL

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

S&amp;T for productivity, innovation, and job creation

## ORGANIZATIONAL OUTCOME

Competitiveness of Filipinos in science and engineering increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

1. Provision of quality education through student performance
2. Cultivation of a culture of science through knowledge development
3. Growth and expansion of service delivery
4. Governance through streamlined administration and PAPS management
5. Promotion of culture of science in various communities
6. Sustained development of competitive resources

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)BASELINE2017 TARGETS

Competitiveness of Filipinos in science and engineering increased

Competitiveness ranking of PSHS students in international Scholastics Aptitude Test (SAT)

&gt;1,500 average SAT Score for all PSHS students subjected to ISAT

1,500 SAT score

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: PROVISION OF SPECIALIZED SECONDARY SCIENCE EDUCATION

Number of students supported	8,083
Percentage of students graduating within the prescribed years of scholarship period	95%
Release of students' stipend within 5 working days from release of NCA	5 days
Number of applicants in the National Competitive Examination (NCE)	23,000
Percentage of G-7 students with a General Weighted Average (GWA) of 2.5 and above by the 2nd Quarter of the school year	85%
Number of days to release test results of NCE qualifiers 5 days after approval by the PSHS System Board of Trustees (BOT)	5 days
Number of policies updated/formulated, programs planned and standards developed to improve students performance	2
Percentage of clients (students) who rate the policies/programs as satisfactory or better	85%
Policies, programs and standards implemented within 15 days from PSHS System Board of Trustees (BOT) approval	15 days

## P. PHILIPPINE TEXTILE RESEARCH INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production and knowledge services sectors achieved

## ORGANIZATIONAL OUTCOME

Widespread benefits to Filipinos from scientific knowledge and technological innovations for the productivity and competitiveness of textile, garment and allied industries and other institutions increased

## PERFORMANCE INFORMATION

## KEY STRATEGIES

1. Establish Regional Weaving / Innovation Centers towards the promotion of regional competencies and capabilities for increased textile production in the regions, promoting countryside development in the process
2. Promote sustained manufacturing activities of textile and allied industry partners through enabling technologies towards global competitiveness and by ensuring access to / availability of indigenous and Philippine Tropical Fabric (PTF) materials for the handloom weaving community, textile manufacturers, knitters, processors and those in the allied trades
3. Strengthen and expand research in and development of other materials and their applications (i.e., silk, hyacinth, bamboo, cotton, recycled polyester, composites, non-wovens) utilizing environmentally-sound technologies and methodologies towards self-sustainability and optimized use of natural and available resources
4. Ensure sustained institutional capability through continuous training, study missions and the conduct of joint undertakings with foreign counterparts / institutions

## ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)

## BASELINE

## 2017 TARGETS

Widespread benefits to Filipinos from scientific knowledge and technological innovations for the productivity and competitiveness of textile, garment and allied industries and other institutions increased

Percentage benefit incidence of PTRI services among target MSMEs / local firms in textile, garment, allied industries and other institutions

80% of target local firms in the textile, garment, allied industries and other institutions

>90% of target local firms in the textile, garment, allied industries and other institutions

## MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)

## 2017 Targets

## MFO 1: SCIENTIFIC RESEARCH AND DEVELOPMENT

Number of R&D programs/ projects completed and disseminated	9
Percentage of projects completed in the last five years adopted by the industry or published in a recognized journal	12%
Percentage of projects completed within the timeframe in accordance with original project approval	90%

## MFO 2: TECHNICAL ADVISORY SERVICES

Number of technical / consultative services rendered	19,800
Percentage of clients who rate the technical services as satisfactory or better	90%
Percentage of requests for technical assistance that are responded to within two (2) days	95%

## Q. SCIENCE EDUCATION INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

S&T for productivity, innovation, and job creation

## ORGANIZATIONAL OUTCOME

Competitiveness of Filipinos in science and engineering increased

## PERFORMANCE INFORMATION

## KEY STRATEGIES

1. Administration and implementation of undergraduate and graduate scholarship programs
2. Conduct of trainings on special topics in STEM (Science, Technology, Engineering and Mathematics)
3. Development of programs on innovative approaches in Science Education
4. Participation in local and international Science and Mathematics competitions
5. Conduct of mentoring and other science promotion programs for the youth
6. Conduct of researches / surveys / studies in Human Resource Development and Science Education

## ORGANIZATIONAL OUTCOMES (Oos) / PERFORMANCE INDICATORS (PIs)

## BASELINE

## 2017 TARGETS

Competitiveness of Filipinos in science and engineering increased

Undergraduate S&T scholarship democratization improved

There is an increase in the number of municipalities represented from 1,295 in 2013 to 1,443 in 2014. The additional 148 municipalities represents an 11% increase within the period.

Number of municipalities with at least one scholar increased by 10% per year

Graduate scholarship completion improved

Of the 570 scholars who were in final stages of completion of their degrees in 2013, 365 or 64% graduated within the year while of the 363 scholars in 2014, 274 or 75% were able to graduate, a marked 11% increase in the no. of graduates in 2014.

Completion improved by at least 5%

Undergraduate scholarship completion improved

Of the 1,736 scholars in their final year in college, 1,562 or 89.98% were able to graduate in 2013. In 2014, of the 1,236 scholars, a total of 1,102 or 89.16% were able to graduate.

Completion improved by at least 5%

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: SCIENCE AND TECHNOLOGY HUMAN RESOURCES DEVELOPMENT SERVICES

Number of scholars supported	
Undergraduate level	19,058
Masters program	2,669
Doctoral program	996
Percentage of scholars graduating within scheduled full-time course program	
Undergraduate level	85%
Masters program	70%
Doctoral program	40%
Percentage of scholarship payments with a variance of actual payment to scheduled payment of more than one day	90%
Number of events facilitated	50
Percentage of stakeholders who rate events as satisfactory or better	90%
Percentage of events that commence within thirty (30) minutes of scheduled time	90%
Number of trainings provided/conducted	30
Percentage of stakeholders who rate trainings as satisfactory or better	90%
Percentage of trainings that commence within thirty (30) minutes of scheduled time	90%

## R. SCIENCE AND TECHNOLOGY INFORMATION INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

1. Globally competitive and innovative production and knowledge services sectors achieved; and
2. Improved preparedness and adaptive capacities to changing natural systems

## ORGANIZATIONAL OUTCOME

Public science and technology awareness increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

Public Science and Technology awareness increased

ORGANIZATIONAL OUTCOMES (Oos) / PERFORMANCE INDICATORS (PIs)BASELINE2017 TARGETS

Public science and technology awareness increased

Percentage increase in public S&T awareness survey

For 2014, an internal survey will be conducted as baseline data for 2015. For 2015, an outsourcing company will be hired to conduct the said survey and every 3-5 years thereafter.

>5% improvement in public S&T awareness

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: SCIENCE and TECHNOLOGY INFORMATION SERVICES

Number of clients served	1,202,371
Percentage of clients who rate the service as satisfactory or better	90%
Percentage of inquiries where reference materials were provided within five (5) minutes	90%
Number of promotion services rendered	1,079
Percentage of clients who rate the service as satisfactory or better	90%
Percentage of services rendered monthly	90%

## S. TECHNOLOGY APPLICATION AND PROMOTION INSTITUTE

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

Globally competitive and innovative production and knowledge services sectors achieved

## ORGANIZATIONAL OUTCOME

Filipinos protecting and venturing for innovative and emerging technology-based projects increased

## PERFORMANCE INFORMATION

KEY STRATEGIES

Provide technical, financial and consultancy services to Science and Technology stakeholders

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)BASELINE2017 TARGETS

Filipinos protecting and venturing for innovative and emerging technology-based projects increased

Percentage of applications for patenting assistance approved	No. of assistance provided - 60	>90% of patent assistance applications approved for financial support
Percentage of technology venture financing project proposals approved	No. of project proposals received / evaluated - 30	80% of technology venture financing project proposals assessed and supported
	No. of projects approved - 10	

MAJOR FINAL OUTPUTS (MFOs) / PERFORMANCE INDICATORS (PIs)2017 Targets

## MFO 1: TECHNICAL ADVISORY SERVICES

Number of technical advisory services rendered	1,200
Percentage of clients who rate the technical services as satisfactory or better	100%
Percentage of requests that are acted upon within 3 days of request	95%