

**XXI. DEPARTMENT OF SCIENCE AND TECHNOLOGY****A. OFFICE OF THE SECRETARY****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

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

**PERFORMANCE INFORMATION**

<b>ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)</b>	<b>BASELINE</b>	<b>2020 TARGETS</b>
Increased benefits to Filipinos from scientific knowledge and cutting-edge technological innovations		
<b>STRATEGIC SCIENCE AND TECHNOLOGY (S&amp;T) PROGRAM</b>		
Outcome Indicators		
1. Percentage of projects completed within the required period	12%	16%
2. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences or with IP filed or approved	87%	90%
3. Percentage of priorities in the Harmonized National R&D Agenda (HNRDA) addressed	81%	81%
Output Indicators		
1. Number of projects funded	175	173
2. Number of grantees supported	60	173
3. Percentage of programs / projects received that are evaluated and approved within the standard period of 90 days	75%	75%
<b>S&amp;T PROGRAM FOR REGIONAL AND COUNTRYSIDE DEVELOPMENT</b>		
Outcome Indicators		
1. Percentage increase in productivity generated	19%	17%
2. Percentage increase in employment generated	14%	8%
3. Percentage of clients who rate the assistance as satisfactory or better	96%	92%
Output Indicators		
1. Number of S&T interventions provided	49,784	15,558
2. Number of MSMEs, LGUs, HEIs, communities and other customers assisted	31,064	18,425
3. Percentage of requests for technical assistance that are acted upon within the ISO standard time	95%	93%

**B. ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

Increased benefits to Filipinos from scientific knowledge and technologies in ICT and Microelectronics

**PERFORMANCE INFORMATION**

<b>ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)</b>	<b>BASELINE</b>	<b>2020 TARGETS</b>
Increased benefits to Filipinos from scientific knowledge and technologies in ICT and Microelectronics		
<b>ADVANCED SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT PROGRAM</b>		
Outcome Indicators		
1. Number of partnerships with public and private stakeholders and international organizations	10	5
2. Amount of revenue generated from partnerships	1,000,000	1,000,000
Output Indicators		
1. Number of projects completed	12	3
2. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, or with IP filed or approved	90%	90%
3. Percentage of projects implemented within the approved timeframe	90%	90%
<b>ADVANCED SCIENCE AND TECHNOLOGY TRANSFER PROGRAM</b>		
Outcome Indicators		
1. Amount of revenue generated from technology transfer and technical assistance	15,100,000	12,000,000
2. Percentage of clients who rate the quality of technical assistance provided as satisfactory or better	90%	90%
Output Indicators		
1. Number of knowledge / technologies diffused	10	10
2. Number of technologies transferred / commercialized through technology transfer agreement	3	3
3. Percentage of request for technical assistance that have been provided within the required timeframe	90%	90%

**C. FOOD AND NUTRITION RESEARCH INSTITUTE****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

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

**PERFORMANCE INFORMATION**

<b>ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)</b>	<b>BASELINE</b>	<b>2020 TARGETS</b>
Increased benefits to Filipinos from scientific knowledge and food and nutrition technologies		

**FOOD AND NUTRITION RESEARCH AND DEVELOPMENT PROGRAM****Outcome Indicator**

1. Percentage 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	15%	15%
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2. Amount of revenue generated from partnerships		Php 100,000
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**Output Indicators**

1. Number of projects completed	28	13
2. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, or with IP filed or approved	20%	20%
3. Percentage of projects implemented within the approved timeframe	100%	100%

**NUTRITIONAL ASSESSMENT AND MONITORING PROGRAM****Outcome Indicator**

1. Percentage of national government agencies and local government units that adopt / refer to the results of the National Nutrition Survey	-	100%
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**Output Indicators**

1. Number of nutrition and nutrition-related indicators collected / generated and made available to the public within the prescribed time period	-	400
2. Number of feedback conferences / dissemination fora conducted	-	24
3. Number of projects / studies completed	2	5

**FOOD AND NUTRITION TECHNOLOGY AND KNOWLEDGE DIFFUSION PROGRAM****Outcome Indicators**

1. Percentage increase in the utilization of science-based intervention (technologies / products / services / models transferred and utilized; tools and guidelines adopted)	20%	20%
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2. Percentage of technology transfer beneficiaries that rate the technology as satisfactory or better	-	95%
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**Output Indicators**

1. Number of technology transfer agreements forged	20	20
2. Number of technical services rendered	3,000	3,000
3. Percentage of request for technical services provided within the required timeframe	95%	95%

**D. FOREST PRODUCTS RESEARCH AND DEVELOPMENT INSTITUTE****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

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

**PERFORMANCE INFORMATION**

<b>ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)</b>	<b>BASELINE</b>	<b>2020 TARGETS</b>
Increased benefits to Filipinos from scientific knowledge and forest-based product technological innovations		
<b>FOREST PRODUCTS RESEARCH AND DEVELOPMENT PROGRAM</b>		
Outcome Indicators		
1. Number of partnerships with public and private stakeholders and international organizations	-	3
2. Amount of revenue generated from partnerships	-	Php 20M
Output Indicators		
1. Number of projects completed	12	12
2. Percentage of projects implemented within the approved timeframe	100%	90%
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, and / or with IP filed or approved	90%	90%
<b>FOREST PRODUCTS TECHNOLOGY TRANSFER PROGRAM</b>		
Outcome Indicators		
1. Percentage of clients that rate the technology transfer as satisfactory or better	100%	90%
Output Indicators		
1. Number of knowledge / technologies diffused	-	20
2. Number of technologies transferred / commercialized through technology transfer agreement	-	10
3. Percentage of request for technology transfer that have been provided within the required timeframe	100%	90%
<b>FOREST PRODUCTS SCIENCE AND TECHNOLOGY SERVICES PROGRAM</b>		
Outcome Indicator		
1. Percentage of customers that rate the technical services rendered as satisfactory or better	100%	90%
Output Indicators		
1. Number of technical services rendered	2,128	2,000
2. Percentage of request for technical services that have been provided within the required timeframe	100%	90%
3. Number of clients benefiting from technical services	720	720

**E. INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

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

**PERFORMANCE INFORMATION****ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)****BASELINE****2020 TARGETS**

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

**INDUSTRIAL TECHNOLOGY RESEARCH AND DEVELOPMENT PROGRAM****Outcome Indicators**

1. Number of partnerships with public and private stakeholders and international organizations
2. Amount of revenue generated from partnerships

10

15

Php100,000,000

**Output Indicators**

1. Number of projects completed
2. Percentage of projects implemented within the approved timeframe
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, or with IP filed or approved

15

25

100%

100%

70%

50%

**INDUSTRIAL TECHNOLOGY TRANSFER PROGRAM****Outcome Indicators**

1. Percentage of clients that rate the technology transfer as satisfactory or better

90%

90%

**Output Indicators**

1. Number of knowledge / technologies diffused
2. Number of technologies transferred / commercialized through technology transfer agreement
3. Percentage of request for technology transfer that have been provided within the required timeframe

30

45

5

5

100%

100%

**INDUSTRIAL TECHNOLOGY TECHNICAL SERVICES PROGRAM****Outcome Indicator**

1. Percentage of customers that rate the technical services rendered as satisfactory or better

100%

90%

**Output Indicators**

1. Number of technical services rendered
2. Percentage of request for technical services that have been provided within the required timeframe
3. Number of clients benefiting from technical services

21,488

20,000

100%

90%

4,000

**F. METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

Increased benefits to Filipinos from scientific knowledge and technologies in cutting-edge metals and engineering innovations

**PERFORMANCE INFORMATION****ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)****BASELINE****2020 TARGETS**

Increased benefits to Filipinos from scientific knowledge and technologies in cutting-edge metals and engineering innovations

**METALS INDUSTRY RESEARCH PROGRAM****Outcome Indicators**

1. Number of partnerships with public and private stakeholders and international organizations
2. Amount of revenue generated from partnerships

30

25

Php 500,000

Php 500,000

**Output Indicators**

1. Number of projects completed
2. Percentage of projects implemented within the approved timeframe
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, and / or with IP filed or approved

49

22

96%

95%

60%

12%

**METALS INDUSTRY TECHNOLOGY TRANSFER PROGRAM****Outcome Indicators**

1. Percentage of clients that rate the technology transfer as satisfactory or better

70%

80%

**Output Indicators**

1. Number of technologies diffused
2. Number of technologies transferred / commercialized through technology transfer agreement
3. Percentage of request for technology transfer that have been provided within the required timeframe

20

25

8

7

60%

70%

**METALS INDUSTRY SCIENCE AND TECHNOLOGY SERVICES PROGRAM****Outcome Indicator**

1. Percentage of customers that rate the technical services rendered as satisfactory or better

99%

95%

**Output Indicators**

1. Number of technical services rendered
2. Percentage of request for technical services that have been provided within the required timeframe
3. Number of clients benefiting from technical services

6,281

4,800

94%

95%

2,416

2,000

**G. NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

Increased benefits to Filipinos from scientific knowledge by recognizing outstanding achievements and enhancing and fostering policy environment for the development of Science and Technology

## PERFORMANCE INFORMATION

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)BASELINE2019 TARGETS

Increased benefits to Filipinos from scientific knowledge by recognizing outstanding achievements and enhancing and fostering policy environment for the development of Science and Technology

## SCIENCE AND TECHNOLOGY RECOGNITION AND POLICY ADVISORY PROGRAM

## Outcome Indicators

1. Percentage of scientists given awards over nominations received

20%

20%

2. Number and percentage of policies, recommendations, formulated, submitted to concerned offices and accepted by said offices

6 / 80%

6 / 80%

## Output Indicators

1. Percentage of nominations for awards and incentives acted upon within the prescribed period

100%

100%

2. Percentage of benefits and privileges provided to national scientists and academy members within the prescribed period

50%

57%

3. Number of recognition, advisory, scientific linkages and PSHC-related activities

20

20

## H. NATIONAL RESEARCH COUNCIL OF THE PHILIPPINES

## STRATEGIC OBJECTIVES

## SECTOR OUTCOME

1. Technology adoption promoted and accelerated
2. Innovation stimulated

## ORGANIZATIONAL OUTCOME

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

## PERFORMANCE INFORMATION

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)BASELINE2019 TARGETS

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

## POLICY DEVELOPMENT FOR SCIENCE AND TECHNOLOGY ADVISORY PROGRAM

## Outcome Indicators

1. Percentage of Filipino researchers collaborating on problem-focused multi-disciplinary basic Research and Development programs

25%

26%

2. Percentage increase of stakeholders approving the policies formulated

90%

100%

## Output Indicators

1. Number of projects with policy implications presented in stakeholders' forum

5

6

2. Percentage of participants that rated the forum as satisfactory or better

90%

100%

3. Number of new approved NRCP members

192

400

**BASIC RESEARCH AND DEVELOPMENT MANAGEMENT PROGRAM****Outcome Indicators**

1. Percentage of priorities in the Harmonized National R&D Agenda (HNRDA) addressed	100%	100%
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2. Number of partnerships with local (public and private) and international organizations	5	6
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**Output Indicators**

1. Number of projects funded	12	12
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2. Number of projects monitored	18	18
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3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, or with IP filed or approved	100%	100%
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**I. PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated
3. Ecological integrity ensured and socioeconomic condition of resource-based communities improved through sustainable integrated area development

**ORGANIZATIONAL OUTCOME**

Enhanced safety and resiliency of Filipinos to disaster risks from extreme weather, flooding, storm surge and related events .

**PERFORMANCE INFORMATION****ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)****BASELINE****2019 TARGETS**

Enhanced safety and resiliency of Filipinos to disaster risks from extreme weather, flooding, storm surge and related events

**WEATHER AND CLIMATE FORECASTING AND WARNING PROGRAM****Outcome Indicator**

1. Percentage of 81 provinces including Metro Manila that have robust science-based weather related information and services in their disaster risk reduction plans	26.81%	94%
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**Output Indicators**

1. Percentage of timely weather and tropical cyclone warnings issued within fifteen (15) minutes of scheduled time	90%	94%
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2. Number of seasonal climate forecasts, climate impact assessment, tropical cyclone warning advisory (TCWA) for agriculture and farm weather forecasts and advisories issued	427	906
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3. Annual Mean 24-hour Forecast Track Error (in kilometers)	100 km	Typhoon - less than or equal to 100 km Tropical Storm - less than or equal to 120 km
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**FLOOD FORECASTING AND WARNING PROGRAM****Outcome Indicator**

1. Reduced number of casualties	-	0 casualty
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**Output Indicators**

1. Number of timely and accurate flood warnings issued	2,266	3,000
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2. Percentage of timely flood warning issued within fifteen (15) minutes of scheduled time	97.62%	94%
3. Number of hazard maps developed / generated / updated	4	4

#### RESEARCH AND DEVELOPMENT ON ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL AND ALLIED SCIENCES PROGRAM

##### Outcome Indicators

1. Percentage of stakeholders who rated the forecasting capability services as satisfactory or better	80%	90%
2. Percentage increase of LGUs that use the hazard maps	50%	80%

##### Output Indicators

1. Number of researches / studies completed / published / operationalized and development of real innovative / pioneering projects	8	7
2. Percentage of involvement on the localization of instruments, facilities and models through innovation, collaboration and linkages	100%	100%
3. Number of technical assistance on actions / policies adapted by the LGU	1	98

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

##### STRATEGIC OBJECTIVES

##### SECTOR OUTCOME

1. Technology adoption promoted and accelerated
2. Innovation stimulated

##### ORGANIZATIONAL OUTCOME

Increased benefits to Filipinos from science-based know-how and tools for agricultural productivity in the Agriculture, Aquatic and Natural Resources (AANR) sectors

##### PERFORMANCE INFORMATION

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

	BASELINE	2020 TARGETS
Increased benefits to Filipinos from science-based know-how and tools for agricultural productivity in the Agriculture, Aquatic and Natural Resources (AANR) sectors		
<b>NATIONAL AANR SECTOR R&amp;D PROGRAM</b>		
<b>Outcome Indicators</b>		
1. Percentage of priorities in the Harmonized National R&D Agenda (HNRDA) addressed	90%	90%
2. Number of partnerships with local (public and private) and international organizations	103	165
<b>Output Indicators</b>		
1. Number of projects funded	335	539
2. Number of projects monitored	525	597
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, or with IP filed or approved	89%	90%

**K. PHILIPPINE COUNCIL FOR HEALTH RESEARCH AND DEVELOPMENT****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

Increased benefits to Filipinos from scientific knowledge and technological innovations for healthcare

**PERFORMANCE INFORMATION**

<u>ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)</u>	<u>BASELINE</u>	<u>2019 TARGETS</u>
Increased benefits to Filipinos from scientific knowledge and technological innovations for healthcare		
<b>NATIONAL HEALTH RESEARCH AND DEVELOPMENT PROGRAM</b>		
Outcome Indicators		
1. Percentage of priorities in the National Unified Health Research Agenda (NUHRA) addressed	90%	90%
2. Number of partnerships with local (public and private) and international organizations	70	80
Output Indicators		
1. Number of projects funded	75	85
2. Number of projects monitored	200	250
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, or with IP filed or approved	45%	50%

**L. PHILIPPINE COUNCIL FOR INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH AND DEVELOPMENT (PCIEERD)****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

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

**PERFORMANCE INFORMATION**

<u>ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)</u>	<u>BASELINE</u>	<u>2020 TARGETS</u>
Increased benefits to Filipinos from scientific knowledge and technological innovations for productivity and competitiveness		
<b>NATIONAL INDUSTRY, ENERGY AND EMERGING TECHNOLOGY SECTORS R&amp;D PROGRAM</b>		
Outcome Indicators		
1. Percentage of priorities in the Harmonized National R&D Agenda (HNRDA) addressed	90%	90%

2. Number of partnerships with local (public and private) and international organizations	20	50
Output Indicators		
1. Number of projects funded	98	100
2. Number of projects monitored	287	200
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and/or international conferences, or with IP filed or approved	50%	55%

### M. PHILIPPINE INSTITUTE OF VOLCANOLOGY AND SEISMOLOGY

#### STRATEGIC OBJECTIVES

#### SECTOR OUTCOME

1. Technology adoption promoted and accelerated
2. Innovation stimulated
3. Ecological integrity ensured and socioeconomic condition of resource-based communities improved through sustainable integrated area development

#### ORGANIZATIONAL OUTCOME

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

#### PERFORMANCE INFORMATION

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

#### BASELINE

#### 2020 TARGETS

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

#### VOLCANO, EARTHQUAKE AND TSUNAMI MONITORING AND WARNING PROGRAM

##### Outcome Indicator

- |   |      |     |
|---|------|-----|
| 1. Percentage of bulletins and warnings where the event follows within the predicted time | 100% | 80% |
|---|------|-----|

##### Output Indicators

- |   |        |              |
|---|--------|--------------|
| 1. Number of warnings and bulletins issued                                  | 1,276  | event-driven |
| 2. Percentage of bulletins and warnings issued within the set standard time | 98.75% | 85%          |

#### VOLCANO, EARTHQUAKE AND TSUNAMI HAZARDS MAPPING, RISK ASSESSMENT AND RESEARCH AND DEVELOPMENT PROGRAM

##### Outcome Indicator

- |  |        |     |
|--|--------|-----|
| 1. Percentage of stakeholders who availed and rated PHIVOLCS products and services as satisfactory or better | 99.08% | 85% |
|--|--------|-----|

##### Output Indicators

- |  |       |     |
|--|-------|-----|
| 1. Number of hazards maps, risk assessments reports generated / updated  | 26    | 15  |
| 2. Number of hazards maps, risk assessments certifications issued to clients   | 2,031 | 600 |
| 3. Number of technical papers presented in scientific meetings or published / submitted for publication in refereed journals | 18    | 5   |

#### VOLCANO, EARTHQUAKE AND TSUNAMI DISASTER PREPAREDNESS AND RISK REDUCTION PROGRAM

##### Outcome Indicators

- |  |   |   |
|--|---|---|
| 1. Number of communities or institutions assisted by PHIVOLCS on mainstreaming DRR in local development or disaster management and contingency plans | 3 | 2 |
|--|---|---|

2. Percentage of stakeholders who availed and rated PHIVOLCS products and services as satisfactory or better	93.50%	85%
Output Indicators		
1. Number of PHIVOLCS-organized DRR activities conducted	12	10
2. Number of stakeholders trained on DRR	480	400
3. Number of REDAS license issued to trained stakeholders	355	240

#### N. PHILIPPINE NUCLEAR RESEARCH INSTITUTE

##### STRATEGIC OBJECTIVES

##### SECTOR OUTCOME

1. Technology adoption promoted and accelerated
2. Innovation stimulated

##### ORGANIZATIONAL OUTCOME

1. Increased benefits to Filipinos from science-based R&D know-how and tools in cutting-edge nuclear and radiation technologies
2. Increased benefits to Filipinos from safe and secure utilization of nuclear and radiation technologies and materials

##### PERFORMANCE INFORMATION

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

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

##### BASELINE

##### 2020 TARGETS

##### NUCLEAR RESEARCH AND DEVELOPMENT PROGRAM

###### Outcome Indicators

1. Number of partnerships with public and private stakeholders and international organizations	14	15
2. Amount of revenue generated from partnerships	Php 109.53M	Php 100M

###### Output Indicators

1. Percentage of technologies transferred within the expected timeframe	100%	100%
2. Percentage of projects implemented within the approved timeframe	100%	100%
3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, and / or IP filed or approved	100%	100%

##### NUCLEAR SCIENCE AND TECHNOLOGY SERVICES AND ADVISORY PROGRAM

###### Outcome Indicators

1. Percentage of clients that rate the technology transfer as satisfactory or better	99%	99%
2. Percentage of clients who rate the technical services as satisfactory or better	97%	97%

###### Output Indicators

1. Number of knowledge / technologies diffused	44	24
2. Number of technologies transferred / commercialized through technology transfer agreement	1	1
3. Number of technical services rendered by sector	64,064	68,000

Increased benefits to Filipinos from safe and secure utilization of nuclear and radiation technologies and materials

#### NUCLEAR REGULATIONS, SECURITY AND SAFEGUARDS PROGRAM

##### Outcome Indicators

1. Percentage benefit incidence of satisfactory implementation of safeguards agreement and physical security system	100%	100%
2. Percentage benefit incidence of satisfactory regulatory issuances	90%	90%
3. Percentage of compliance to regulatory standards	100%	100%

##### Output Indicators

1. Number of regulations, guides, notices, bulletins or associated documents issued	9	6
2. Number 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	4%	15%
3. Number of nuclear security / safeguards and regulatory activities implemented	18	10

#### O. PHILIPPINE SCIENCE HIGH SCHOOL

##### STRATEGIC OBJECTIVES

##### SECTOR OUTCOME

1. Lifelong learning opportunities for all ensured
2. Innovation stimulated

##### ORGANIZATIONAL OUTCOME

Increased competitiveness of Filipinos in Science and Engineering

##### PERFORMANCE INFORMATION

##### ORGANIZATIONAL OUTCOMES (00s) / PERFORMANCE INDICATORS (PIs)

Increased competitiveness of Filipinos in Science and Engineering

##### SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) SECONDARY EDUCATION ON SCHOLARSHIP BASIS PROGRAM

##### Outcome Indicators

1. Percentage of PSHS graduates pursuing STEM courses	90%	90%
2. Percentage of winnings / awards / recognition from the total number of STEM-related international (ASEAN included) competitions participated by the PSHS Scholars	80%	80%
3. Percentile of PSHS students in Math in the US-based Scholastic Aptitude Test (SAT)	80th percentile	80th percentile
<b>Output Indicators</b>		
1. Number of scholars supported	8,388	9,384
2. Cohort survival rate: Percentage of scholars who advance to the succeeding grade level until they complete the 6-year scholarship period	90%	90%
3. Percentage of winnings, awards and recognition from total number of national and international competitions participated	90%	90%

4. Rank of the campuses based on the overall UPCAT scores of the PSHS student-takers

Top 20

Top 20

#### SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM) PROMOTION PROGRAM

##### Outcome Indicator

1. Percentage of municipalities with applicants to the National Competitive Examination (NCE)

50%

50%

##### Output Indicators

1. Number of municipality recipients of promotional activities

137

137

2. Percentage of freshmen who were able to get a

85%

90%

General Weighted Average (GWA) of 2.5 or better

in the second quarter of the school year

### P. PHILIPPINE TEXTILE RESEARCH INSTITUTE

#### STRATEGIC OBJECTIVES

#### SECTOR OUTCOME

1. Technology adoption promoted and accelerated
2. Innovation stimulated

#### ORGANIZATIONAL OUTCOME

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

#### PERFORMANCE INFORMATION

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

##### BASELINE

##### 2020 TARGETS

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

#### TEXTILE AND OTHER TEXTILE-RELATED RESEARCH AND DEVELOPMENT PROGRAM

##### Outcome Indicators

1. Number of partnerships with public and private stakeholders and international organizations

2

5

2. Amount of revenue generated from partnerships

Php 5M

Php 20M

##### Output Indicators

1. Number of projects completed

9

11

2. Percentage of projects implemented within the approved timeframe

100%

100%

3. Percentage of projects completed which are published in peer-reviewed journals, presented in national and / or international conferences, and / or with IP filed or approved

14%

19%

#### TEXTILE S&T SERVICES PROGRAM

##### Outcome Indicator

1. Percentage of customers that rate the technical services rendered as satisfactory or better

92%

92%

##### Output Indicators

1. Number of technical services rendered

21,195

22,254

2. Percentage of request for technical services that have been provided within the required timeframe

95%

95%

3. Number of clients benefiting from technical services

200

250

**TEXTILE TECHNOLOGY TRANSFER PROGRAM****Outcome Indicators**

1. Percentage of clients that rate the technology transfer as satisfactory or better	90%	92%
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**Output Indicators**

1. Number of knowledge / technologies diffused	5	5
2. Number of technologies transferred / commercialized through technology transfer agreement	5	8
3. Percentage of request for technology transfer that have been provided within the required timeframe	90%	100%

**Q. SCIENCE EDUCATION INSTITUTE****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Lifelong learning opportunities for all ensured
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

Competitiveness of Filipinos in Science, Technology, Engineering and Mathematics (STEM) enhanced

**PERFORMANCE INFORMATION****ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)****BASELINE****2020 TARGETS**

Competitiveness of Filipinos in Science, Technology, Engineering and Mathematics (STEM) enhanced

**SCIENCE AND TECHNOLOGY SCHOLARSHIP PROGRAM****Outcome Indicators**

1. Percentage of scholars employed in STEM-related fields	50%	65%
2. Percentage of municipalities served	95%	97%
<b>Output Indicators</b>		
1. Number of scholars supported		
Undergraduate level	17,491	28,900
Masters program	2,407	4,264
Doctoral program	720	1,927
2. Percentage of scholars graduating within the scheduled full-time program		
Undergraduate level	97%	85%
Masters program	77%	70%
Doctoral program	42%	40%
3. Percentage of scholarship payments with a variance of actual payment to scheduled payment of more than one (1) day	95%	90%

**SCIENCE AND TECHNOLOGY EDUCATION DEVELOPMENT PROGRAM****Outcome Indicator**

1. Percentage of beneficiaries who rated the training and promotional program as satisfactory or better	100%	90%
<b>Output Indicators</b>		
1. Number of trainings and promotional programs conducted	82	110
2. Number of innovative learning resources developed and disseminated / deployed / established	2	4

3. Number of applications processed within two (2) months of receipt	10	50
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**R. SCIENCE AND TECHNOLOGY INFORMATION INSTITUTE****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

Public Science and Technology awareness increased

**PERFORMANCE INFORMATION****ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)****BASELINE****2020 TARGETS**

Public Science and Technology awareness increased

**SCIENCE AND TECHNOLOGY INFORMATION PROGRAM****Output Indicators**

1. Percentage of clients who rate the library services as satisfactory or better	90%	90%
2. Number of STARBOOKS sites installed	100	100
3. Number of promotion services and advocacy activities conducted	1,408	1,336

**S. TECHNOLOGY APPLICATION AND PROMOTION INSTITUTE****STRATEGIC OBJECTIVES****SECTOR OUTCOME**

1. Technology adoption promoted and accelerated
2. Innovation stimulated

**ORGANIZATIONAL OUTCOME**

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

**PERFORMANCE INFORMATION****ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)****BASELINE****2020 TARGETS**

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

**TECHNOLOGY APPLICATION AND INVENTION DEVELOPMENT PROGRAM****Outcome Indicators**

1. Percentage increase in Intellectual Property protection filing for local technologies in the IPO Philippines	163%	468%
2. Percentage increase in the commercialization and adoption by industry / community of technologies diffused / supported	5%	5%



Output Indicators		
1. Number of pre-commercialization support provided for technologies, inventions and innovation	54	45
2. Number of inventions, innovations and technologies promoted and commercialized	46	50
3. Percentage of requests that are acted upon within 3 days of request	96%	95%
4. Number of technical advisory services rendered	1,495	1,600