



FY 2026 NATIONAL EXPENDITURE PROGRAM

DEPARTMENT OF SCIENCE AND TECHNOLOGY

HOUSE OF REPRESENTATIVES
AUGUST 27, 2025

Solutions and Opportunities for All



www.dost.gov.ph



osec@dost.gov.ph



DOST Philippines

#OneDOST4U



DOST OVERVIEW

MANDATE

To provide central direction, leadership and coordination of scientific and technological efforts and ensure that the results therefrom are geared and utilized in areas of maximum economic and social benefits for the people. (E.O. 128)

MISSION

To direct, lead, and coordinate the country's scientific, technological and innovative efforts geared towards maximum economic and social benefits for the people.

VISION

DOST as the leading enabler and provider of science, technology and innovation (STI) explicit solutions towards national development.

ORGANIZATIONAL STRUCTURE

DOST OFFICE OF THE SECRETARY

SECTORAL PLANNING COUNCILS (3)



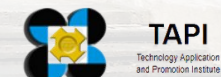
COLLEGIAL AND SCIENTIFIC BODIES (2)



R&D INSTITUTES (7)



S&T SERVICES (6)



REGIONAL OFFICES (17)

PROVINCIAL S&T OFFICES (80)

STRATEGIC PLAN



DEPARTMENT OF SCIENCE AND TECHNOLOGY DOST STRATEGIC PLAN FRAMEWORK 2023-2028

MISSION

To direct, lead, and coordinate the country's scientific, technological, and innovative efforts geared towards maximum economic and social benefits for the people

CORE VALUES

SCIENCE: Service, Commitment, Innovation, Ethics, Nurturance, Collaboration, Excellence

VISION

DOST as the leading enabler and provider of science, technology, and innovation (STI) - explicit solutions towards national development.

Outcome 1 HUMAN WELL-BEING PROMOTED

S1: Achieve quality science education and enhance knowledge and socio-economic contribution of S&T talents
S2: Ensure food security
S3: Improve health and nutrition
S4: Improve access to clean water, clothing, shelter, and efficient transport systems

Outcome 2 WEALTH CREATION FOSTERED

S5: Advance research, development and innovation
S6: Scale-up technology adoption, utilization and commercialization
S7: Strengthen provision of STI support services for the production and manufacturing sectors
S8: Boost intellectual property protection and management for locally-developed technologies

Outcome 3 WEALTH PROTECTION REINFORCED

S9: Advance disaster risk reduction management and processes
S10: Improve monitoring and warning systems for risk reduction
S11: Strengthen capacities for local disaster risk reduction and management (DRRM)
S12: Enhance climate and disaster risk resilience

Outcome 4 SUSTAINABILITY INSTITUTIONALIZED

S13: Intensify environmental sustainability
S14: Enhance ecosystem resilience
S15: Establish smart and sustainable communities
S16: Improve access to clean and green energy

STRATEGIES

Outcome 5 DOST SYSTEM GOVERNANCE STRENGTHENED AND HARMONIZED

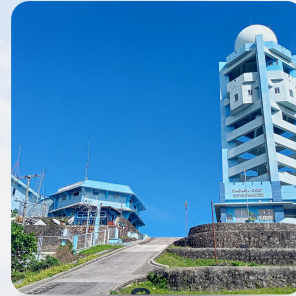
S17: Institutionalize science communication
S18: Build robust institutional capacity
S19: Roll-out S&T-enabled systems for seamless operations
S20: Enhance linkages for science, technology, innovation, and entrepreneurial cooperation

STRATEGIES



DOST

Major Programs, Activities and Projects (PAPs)



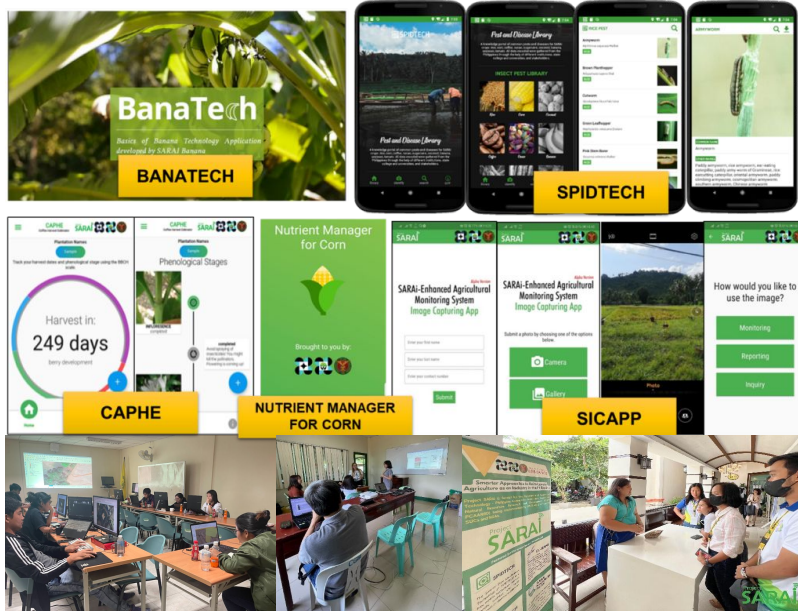


PILLAR 1: PROMOTING HUMAN WELL-BEING

Food Security

PILLAR 1
PROMOTING OF HUMAN WELL-BEING

Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines (SARAI) Program



Trained LGUs and partners on SARAI in **4 provinces**; and initiated SARAI CENTRO planning with DOST Regional Offices and LGUs.

Coconut Hybridization Program (CHP) Program



Studied **15 coconut types**, fertilized **670 palms** at CAPSU, and **trained experts** on better farming methods.

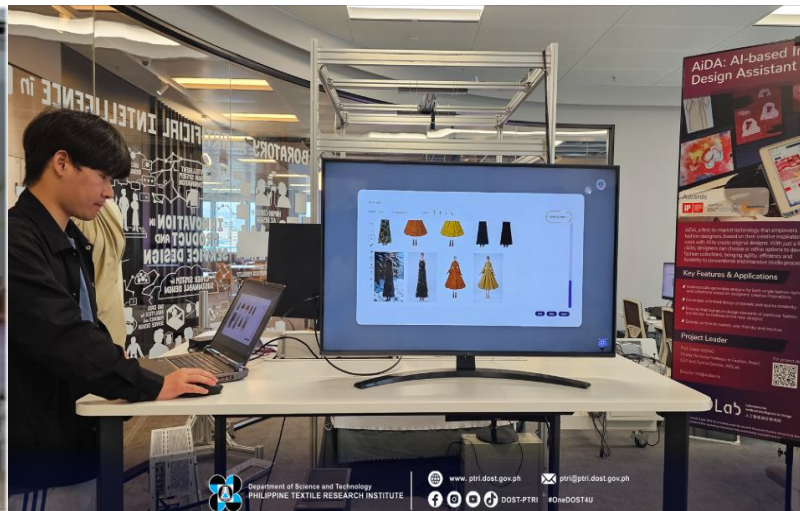
Food Security

Advancing Computing, Analytics, Big Data and Artificial Intelligence in the Philippines (ACABAI-PH)

DOST-Nexus for Artificial Intelligence Research and Application (DOST-NA/RA)

TexSCAN:
Textile Screening and Quality Control using Artificial Intelligence (AI) and Neural Networks

Integrang AI technology in Philippine Food Composition Table (PhilFCT) Database



Food Security

Development of Local Agricultural Machinery

i-POND: LoRaWAN-based Pond Water Quality Control and Monitoring System for Shrimp Farms



Automated Control and Monitoring System for Recirculating Aquaculture System (RAS)



ISDA CV: Integrated Seafood Dimension Acquisition using Computer Vision



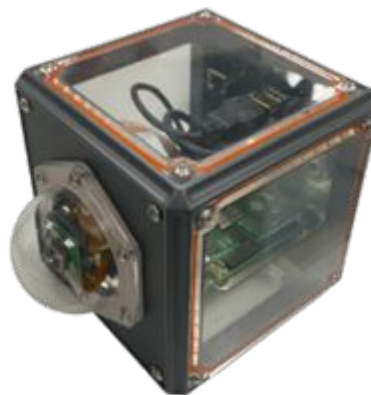
Food Security

FASTRAC LITE: Development and Validation of Robot for Optimized and Autonomous Mission-Enhancement Responses (ROAMER)



Built and tested a robot prototype, improved its features, and conducted field demonstrations at **Dole Philippines** (banana plantation) and **UP Los Baños** (cacao plantation).

Smart Aquafarm Feeder and Monitoring System in Highly Turbid Condition (SaqFeeder)



Started data collection with ASEAN-IVO team and **developed a submersible camera and auto feeder** for fish farms.

Food Security

Mobile Modular Food Processing Facility



Deployed **5 FoodtrIP systems nationwide**, field-tested new food products, and launched aseptic processing at DOST-ITDI.



Upgraded agri-trading centers with better packaging and logistics for fresher, semi-processed products.

Benguet Cold Chain (BCC):

Fully operational; License to Operate secured Nov 2024

Agrizkaya & Sapang

Cooperatives: Equipped with advanced tools; licenses/electrical setup in progress; exploring solar energy for sustainability

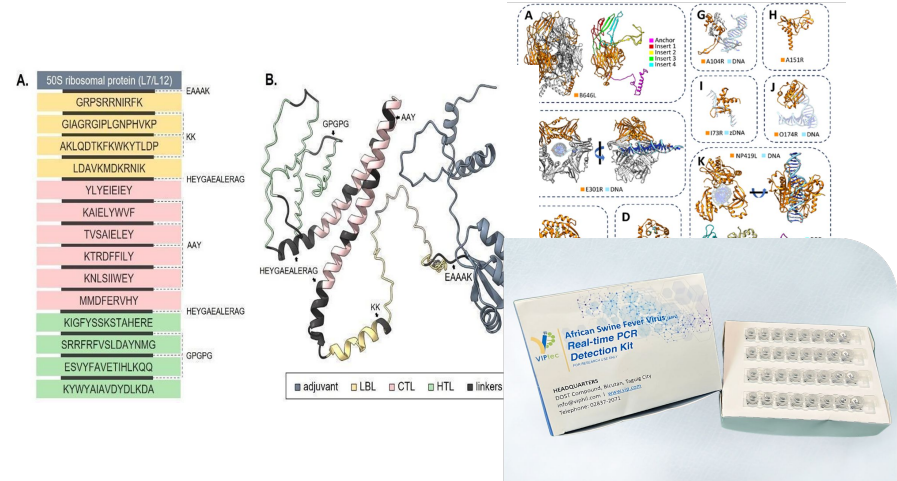
Davao Food Terminal Complex (DFTC):

Operational; cold storage services to start in 2025 to cut postharvest losses

Research on African Swine Fever (ASF)



Set up 4 pilot sites with AFIS and began sugarcane farming; completed first cropping in 5 sites and started ratooning in 3 sites



- Developed locally optimized **TUSLOB® and VIPtec® diagnostic kits for rapid, field-ready ASF Virus detection.**
- Designed a **stable, antigenic, and non-allergenic ASFV vaccine** construct from 100 annotated proteomes.
- Initiated international collaboration with the University of California, Davis to advance ASFV research.

Food Security



Upcoming Initiatives:

- **NANO AIRS:** Uses renewable energy to boost oxygen in fish ponds, helping fish grow better and farms run greener.
- **Coconut Scale Insect Program:** Combines research and action for long-lasting ways to control coconut pests.
- **HARABUST:** Promotes smart, affordable pest control to protect sugarcane crops, cut costs, and boost profits.
- **RENEW Mango:** Uses eco-friendly nutrient, pest, and water management to boost mango harvests by 10%.
- **Milkfish Aquaculture:** Develops genetic tools to improve fish breeding and tracking, cutting growth time and costs.

Health and Nutrition

R&D Program on Food Product and Technology Development



COCO-DAIRY MILK BLENDS



NUTRI-JUICES
(calamansi & carrot-mango)



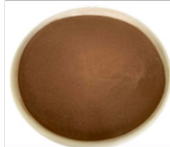
INSTANT NUTRITIOUS MEALS



Coconut-based Cereal Mix (CCM)
for Supplementation Feeding of
School-Age Children



Coconut-based food products as viable functional food
Coconut Cereal Flakes and Coconut Skimmed Milk with Cocoa



Developed and tested fortified foods, healthy drinks, and functional products; completed plant-based beverages, improved Nutribun, and seaweed-based salt reducers.

Ready-to-Eat: Pack of Hope and Pack of Duty



Developed RTE meals (*chicken corn soup, beef curry, bangus sisig, etc.*)

Continued field testing of RTE meals and developed self-heating packaging for retort pouch products

Health & Nutrition

National Nutrition Surveys (NNS)



Shared **2023 NNS results** at National Nutrition Summits and **began 2025 nutrition survey data collection.**

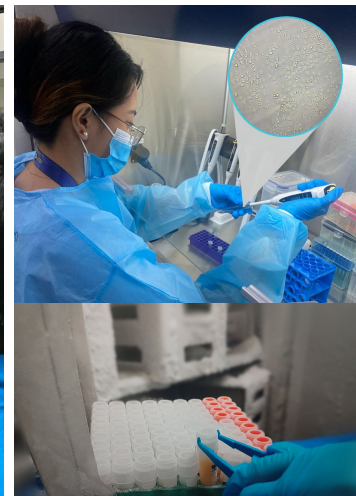
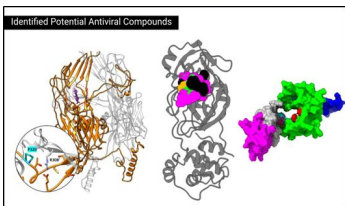
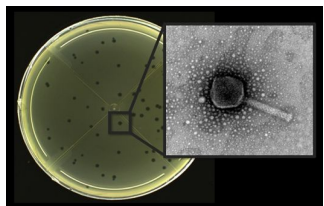
Omic Technologies for Health Program



- (1) Developed improved **Sexual Assault Investigation Kit (SAI.Kit)** and moved it toward commercialization; (2) Supported **Philippine Cancer Center's 2024–2028 plan** with multi-omics; and (3) **Completed phase 1** of Filipino Genomes Research and shared findings at Pagtanaw symposium

Health & Nutrition

Virology and Vaccine Program (VIP)

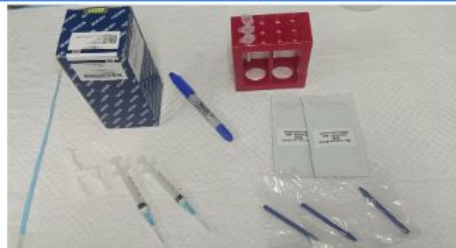


- Advanced ASF research: sequenced first **PH ASF genome**, developed **ASFv DNA Extraction & qPCR kits**, and validated **TUSLOB®/VIPtec®** kits with BAI
- Expanded innovation pipeline: designed **vaccine candidates**, developed **ASF-HEVNP prototype**, and filed patents/trademarks
- Strengthened research capacity: trained **90 staff**, established key facilities (*BSL-2 lab, TEM, confocal microscope, Plant Virology Lab*), and completed major infrastructure
- Generated knowledge outputs: created databases (*papaya diseases, plant metabolites, viral proteins*), identified **60** antiviral compounds, produced **24** publications, and won **9** awards

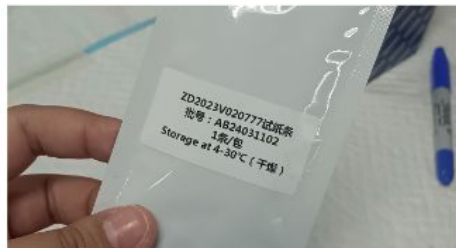
Health & Nutrition

Diagnostics Program

Schisto POC (e-ASIA)



Materials and POC tests utilized during field collection. This includes the LFIA kit and the cotton-syringe utilized for the extraction of DNA.



The LFIA kit from QIMR Berghofer Medical Research Institute.

SMART RITM (e-ASIA)



Initial run of health facility surveys in Kalamansig, Sultan Kudarat.



RITM Research Team with the RHU staff and BHWs.

HIV-QUASR LAMP



Manila HealthTek's Lab-in-a-Mug, utilized to perform all LAMP assay experiments done by the project.



Transilluminator utilized by the project to visualize QUASR-LAMP results.

- Validated **CRISPR-Dx** for accurate **detection of SARS-CoV-2** and **tuberculosis**.
- Produced a locally made **Cas12a enzyme** with performance comparable to commercial versions.
- Advanced the **HIV-1 QUASR-LAMP detection kit** with strong specificity and sensitivity.
- Developed and began testing an **AI-based image analysis** prototype for **cancer diagnosis and surgical assistance**.
- Initiated **three** new diagnostics projects.

Health & Nutrition

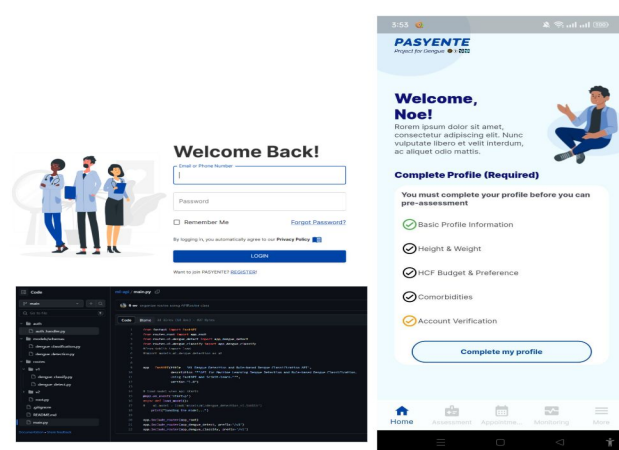
Re-emerging and Emerging Diseases (RED) Program



Presentation and Launching of the Antimicrobial Resistance (AMR) R&D Scoping and Assessment Results



Whole genome sequencing library prep underway for bacterial samples as part of the AMR Genosurv Project.



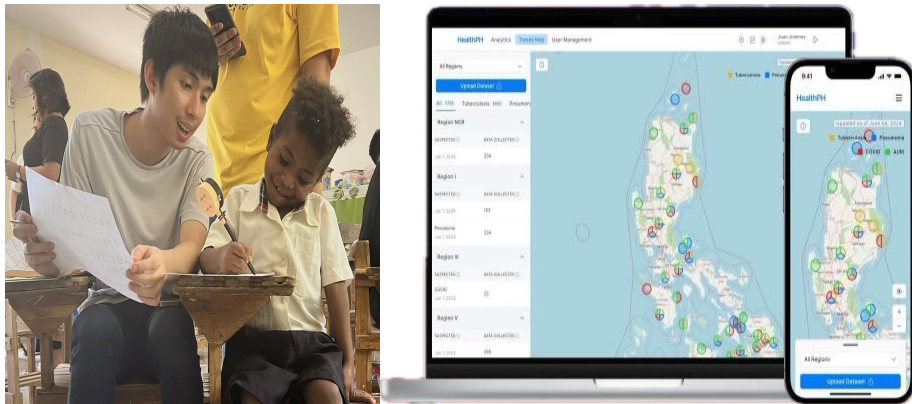
The PASYENTE Project: A clinical decision support system for Dengue management

Prioritized AMR research under the RED Program in support of ICAMR.

- Completed **AMR R&D Scoping and Assessment** to identify research gaps.
- Advanced the **PASYENTE project** with ML models, database, APIs, and mobile/web apps for dengue decision support.
- Launched **11 new research projects**, including on measles, STI testing in women, and liver health.

Health & Nutrition

Digital and Frontier Technologies for Health



- Developed **i-SULAT system and Pen** for early childhood handwriting assessment.
- Created **HealthPH dashboard** to map disease symptoms from social media data.
- Developed **AINA food recognition system** with 51,000-image database and prototype app for dietary assessment

Biomedical Engineering for Health



- Delivered **46 high-quality prostheses** via a mobile workshop.
- Integrated **mobile assistive van service** into PhilHealth benefits.
- Signed MOU with **Pasig City** to continue prosthetics support.



Health & Nutrition

Tuklas Lunas Program



- Developed **standardized dosage forms: 4 anti-inflammatory, 5 anti-diabetes, 5 anti-cancer, and 1 multi-indication formulation**, all pre-clinical ready.
- Created a **molecular docking pipeline**, narrowing *11 million compounds* to *5 promising candidates* for **prostate cancer treatment**.
- Secured a **patent for an isolated *Streptomyces* strain and its antibiotic metabolites**.
- Isolated **10 bioactive compounds** undergoing bioactivity and toxicity testing.
- Began pilot-scale manufacturing and pre-clinical studies of fern-based ointments for anti-inflammatory use, with Phase 1 trial preparations underway.

Health & Nutrition

Upcoming Initiatives



Cerv.ai+: Uses AI to improve early detection of cervical cancer by analyzing screening images more accurately.



UP SUQAT: Aims to ensure herbal medicines and supplements are safe, pure, and effective through standard testing.



AUS-MF: Develops automated systems to disinfect medical facilities, keeping them cleaner and safer for staff and patients.

Access to Clean Water

PILLAR 1
PROMOTING OF HUMAN WELL-BEING

Desalination Water Treatment System for Brackish and Seawater in Coastal Areas



Tested and improved **seawater pre-treatment** using Manila Bay samples; Designed **solar-powered system**; and Built and evaluated **desalination system** for trial and full-scale use.

Upgraded Emergency Water Disinfection System (UpEDS / SAFEWATRS)



Deployed **22 SAFEWATRS units** in multiple locations, including *Ilocos Sur, Tarlac, Batangas, Pampanga, La Union, Pangasinan, Quezon City, Rizal, Sorsogon, Masbate, and Zamboanga City*

Additional units deployed in Balibago Waterworks (*Arayat*) and Malalison Island (*Culasi, Antique*)

Education

PILLAR 1

PROMOTING OF HUMAN WELL-BEING

DOST Scholarship Program

No. of Supported Scholars

SY 2024-2025

SY 2025-2026

No. of Graduates

Class 2024

Class 2025

Secondary



10,619

10,807

1,508

1,592

Undergraduate



46,234

48,615

9,793

9,927

Graduate



4,524

5,091

1,219

1,471



Upcoming Initiative:

BEST for IP:
Supports Indigenous Peoples in pursuing STEM education, helping them become skilled professionals and community leaders through STI.

Socio-economic Contribution of S&T Talents

PILLAR 1

PROMOTING OF HUMAN WELL-BEING

Balik Scientist Program (BSP)



51 Balik Scientists engaged
(Jan.-Dec. 2024)

32 Balik Scientists engaged
(Jan.-Jun. 2025)

S&T Fellows Program



63 S&T fellows engaged
(Jan.-Dec. 2024)

57 S&T fellows engaged
(Jan.-Jun. 2025)



PILLAR 2: FOSTERING WEALTH CREATION

Support to Enterprises

PILLAR 2
FOSTERING WEALTH CREATION

Small Enterprise Technology Upgrading Program (SETUP)



SETUP 4.0
Small Enterprise Technology
Upgrading Program

Accomplishments	2024	2025 (As of June)
Firms/other entities assisted	22,271	8,857
Jobs created	9,223	3,539
STI interventions provided	18,243	5,579
Number of projects funded	659	169
Amount of funding assistance	P776M	P249M



FOOD PROCESSING



FURNITURE



**GIFTS, DECORS &
HANDICRAFTS**



**INFORMATION AND COMMUNICATIONS
TECHNOLOGY (ICT)**



METALS & ENGINEERING



**HEALTH AND
WELLNESS PRODUCTS**

Support to Enterprises

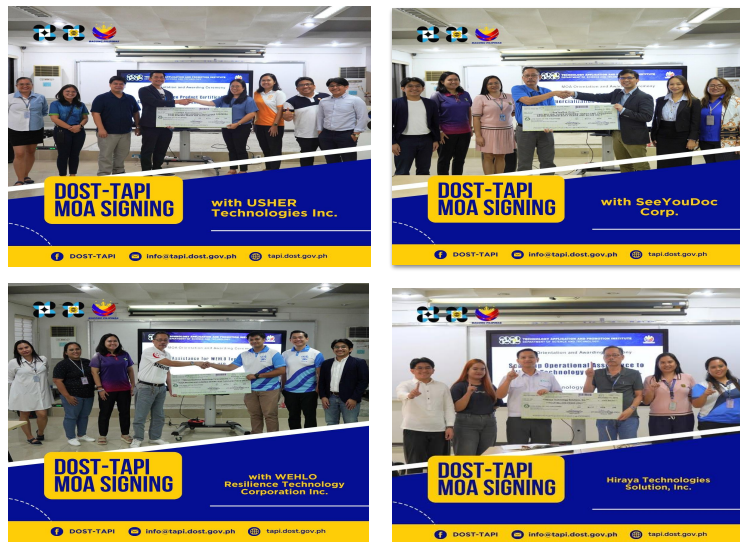
Technology Innovation and Commercialization (TECHNICOM) 2.0 Program



2024–2025 (1st Sem)

Supported **17** clients and disbursed **₱63.6M** to
boost technology readiness levels.

Expanded Venture Financing Program (eVFP)



2024–2025 (1st Sem)

Supported **11** startups/spinoffs with **₱46.35M** in
funding for innovation commercialization.

DOST Technology Business Incubation (TBI) Program

PILLAR 2
FOSTERING WEALTH CREATION

DOST-PCAARRD National Agri-Aqua Technology Business Incubation (ATBI) Program

It aims to effectively support the use and commercialization of mature technologies in the AANR sector by establishing and developing viable agribusinesses through technology incubation.

DOST-PCIEERD TBI Program

It aims to help startup technology-based businesses by providing a range of resources, services and facilities needed during the development stage. The goal of TBI is to produce firms that will leave the incubation program financially viable and able to sustain operation and compete in the market

TEKI in Health Program and HeaRTNovation Hubs Program

It aims to support researchers and research institutions on pre-commercialization activities of health technologies and innovations for utilization through community adoption or creation of spin-off companies. The HeaRTNovation Hubs Program supports the establishment of innovation hubs.

PCAARRD ATBI

2025 Allocation	P19.07M
2026 NEP	P46.01M

PCIEERD TBI

2025 Allocation	P73.23M
2026 NEP	P74.37M

PCHRD TBI

2025 Allocation	P8.95M
2026 NEP	P22.22M

TOTAL

2025 Allocation	P200.12
2026 NEP	P171.14

95

TBIs across the Country

As of July 2025

PCAARRD - 25
PCIEERD - 59
PCHRD - 11

DOST Startup Grant Fund (SGF) Program

DOST-PCAARRD SGF

Intends to support startup/spinoff companies that are preferably under the DOST-PCAARRD ATBI Program planning to commercialize and/or are currently commercializing PCAARRD-funded/assisted technologies. This also includes non-PCAARRD-funded technologies which will be evaluated on a case-to-case basis.

DOST-PCIEERD SGF

Provides funding support to technology-based startups in translating their early-stage technologies into market-ready products.

DOST PCHRD SGF

Aims to provide financial assistance for the conduct of research and development (R&D) activities of Filipino-owned health startups to promote the health startup ecosystem within the country.

PCAARRD SGF

2025 Allocation	P20.31M
2026 NEP	P25.00M

PCIEERD SGF

2025 Allocation	P12.76M
2026 NEP	P58.21M

PCHRD SGF

2025 Allocation	P5M
2026 NEP	P10M

TOTAL

2025 Allocation	P55.31M
2026 NEP	P68.54M

91

**STARTUP
Projects
supported
across the
country**

As of July 2025

**PCAARRD - 21
PCIEERD - 61
PCHRD - 9**



Community Empowerment through Science and Technology (CEST)

744
communities assisted
(Jan.-Dec. 2024)

401
communities assisted
(Jan.-Jun. 2025)



Innovations for Filipinos Working Distantly from the Philippines (iFWD PH)

In 2024, the program trained 271 OFWs, supported 17 businesses, and partnered with DMW, OWWA, and others.; on the other hand, in 2025 (1st Sem), it trained 279 OFWs, supported 18 businesses, and joined the National Reintegration Network.

Knowledge, Innovation, Science, and Technology (KIST) Parks

PILLAR 2
FOSTERING WEALTH CREATION



In 2024, the program adopted key KIST policies, added PCCI to evaluation committee, and boosted regional support.

In 2025 (1st Sem), the program drafted new KIST guidelines, oriented 33 HEIs, endorsed DLSU-Laguna, began evaluating University of Perpetual Help-Molino, and met with potential BatStateU KIST park locators

One-stop Laboratory Services for Global Competitiveness (OneLab)

PILLAR 2

FOSTERING WEALTH CREATION

Regional Standards and Testing Laboratories

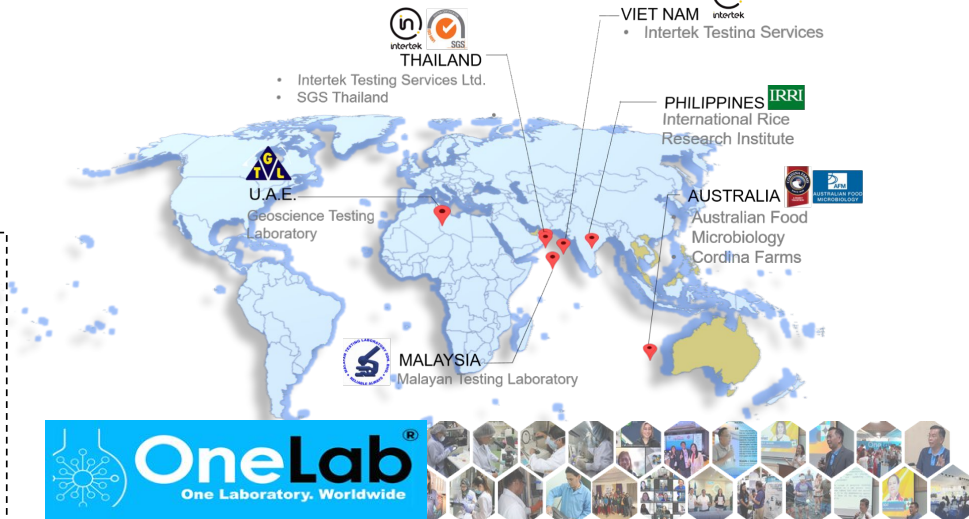
Research and Development Institutes



Non-DOST Laboratories



International Laboratories



In 2024, the program delivered 268,000+ tests on 189,000 samples for ~65,000 customers; rolled out 135 new services; added 9 members; set up 4 SUCs as sample receiving stations

On the other hand, in 2025, the program performed 139,000+ tests; launched 90 new services; inaugurated **LabMove** for faster sample transport; established 2 satellite labs; gained new international member

Metals and Engineering Innovation Centers (MEICs)



2024–2025 (1st Sem)

- Turned over **3 MEICs (Batch 1)** to partner SUCs
- Inaugurated **8 MEICs (Batch 2)**, expanding regional innovation hubs
- Strengthened **industry linkages** through R&D projects, trainers' training, and local benchmarking

Advanced Manufacturing Center (AMCen) / Technological Readiness and Innovation Through Advanced Manufacturing in the Philippines (TRIAMPH)



- Recognized as **PH's 3rd Advanced Manufacturing Institute**; earned ASTM safety certification; completed 6 R&D projects; launched 2 satellites; and introduced AM curriculum in schools.

Support to Inventors

Expanded Intellectual Property Rights Assistance Program (eIPRAP)



2024–2025 (1st Sem):

Filed **18** Patent Cooperation Treaty (PCT) applications
and **59** National Phase Entries to sustain patent activity

Grants and Assistance to Leverage Innovations for National Growth (GALING) Program



2024–2025 (1st Sem):

Supported **13** clients with **₱2.2M** to
enhance technology readiness levels.

Support to Inventors

National Invention Contest and Exhibits (NICE)



2024 NICE & Presidential Awards

- **Outstanding Invention (TUKLAS):** Continuous Screw-type Salt Washer
- **Outstanding Utility Model (UNLAD):** Turbo Rice Steamer
- **Outstanding Industrial Design (BANGHAY):** Plastic Segmented Fish
- **Outstanding Creative Research – Gov't Funded (LIKHA):** Salt Harvesting Equipment
- **Outstanding Student Creative Research (SIBOL – College):** Impulse Excitation Technique (IET) Pro
- **SIBOL High School Awards:** Head Covering Emergency Alarm System, Life Saver, Monitoring Device

Participation to International Exhibits and Contests



2024–2025 (1st Sem):

Showcased **70** local technologies abroad, won **39** awards, and built global partnerships.

Support to Scholars

Science, Technology, Engineering and Mathematics (STEM) Research Program



2024–2025 (1st Sem):

Filed **441** IPRs, with **224** granted

Scholars Technopreneurship Training Program (STTP) under the S&T Scholarship Program



2024–2025 (1st Sem):

Trained **599** scholars across **6** regions in technopreneurship and innovation.

Bamboo R&D Program

Philippines breaks Guinness record in bamboo planting, drives climate resilience



Guinness World Record adjudicator Sonia Ushiriguchi, virtually verified that the Guinness World Record for '**People Planting Bamboo**' was achieved by the Philippines during the conduct of the 2024 NSTW in Cagayan de Oro City last November 28.

Human Security and Defense R&D Program



- Developed **cross-laminated bamboo** reinforced with Ultra-high Molecular Weight Polyethylene and silicon carbide, passing Level IIIA ballistic testing.
- Tested laminated bamboo-UHMWPE armor panels for vehicles, passing partial Level IIIA with no penetration.
- Identified Bandala, Kawayan Tinik, and pineapple leaf waste as raw materials for alpha-cellulose in propellant production.

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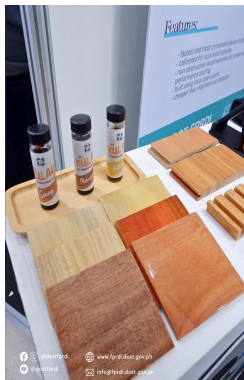


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Bamboo R&D Program

Gubat Obra: Forest Based Creative S&T Program



- Launched the **SOLIDrum**, a giant bamboo tom drum shell as a sustainable local alternative to imports.
- Developed natural dye-based wood stains and high-value products from senile sugar palms, including innovative furniture prototypes.
- Produced **38 creative prototypes from Karogomoi (Pandanus simplex Merr.)**, featuring furniture and handcrafted light fixtures blending tradition and innovation.

Bamboo and other NWFPs Research and Development Program



- Developed bamboo pyroligneous liquid as eco-friendly pesticide against crop pests
- Advanced bamboo-based products (hygiene, filters, wound care, cosmetics) and produced 500+ liters of pyroligneous liquid for pest control
- Secured *Silyang Pinoy* trademark & patent filing; donated units to DOST Day Care; won Silver Prize in Korea; initiated talks with DepEd for pilot testing
- Conducted demos in Luzon & Visayas; developed prototype sandwich panel from agri-forest wastes

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Flavors and Fragrances from the Forest Program



Registered **Bari Tea** and passed safety tests; promoted bamboo leaves as eco-feed to support farmers; and advanced agarwood R&D through global partnerships.



Signed 3 MOAs on barrel innovation, showcased eco-friendly scents, and developed insect-repellent incense from forest by-products.

NICER: Accelerating Salt Research And Innovation Center (ASIN CENTER)



Set up the **ASIN R&D Center** with solar and cooked salt tech; improved salt quality, and studied the local salt industry; conducted benchmarking and training in India and Japan; **launched the ASIN Caravan**; deployed better drying tech, prepared 2 designs for production; and secured 1 copyright and trademark, with more IP filings underway.



Textile Innovations

PILLAR 2
FOSTERING WEALTH CREATION

FRONTIER:(Fostering the Revitalization of Nascent Textile Innovation Ecosystems in the Region)

*Natural Textile Fiber
Innovation Hub (NTFIH)*



Established **4** NTFIHs,
forged **3** new partnerships,
and generated **15** jobs.

Handloom Weaving



Trained **28** women weavers,
established **12** Handloom
Weaving Hubs benefiting **640**
families, and trained **146**
more to strengthen the sector.

Natural Dyes



Established **2** NatDyes
Hubs and trained **80**
individuals; expanded
partnerships for **3** more
hubs in progress.

*Regional Yarn Production and
Innovation Center (RYPIC)*



Partnered with LGUs and
agencies to boost local
textile production through
**new fiber treatment and
spinning equipment.**

CREATTEEVS: Creativity and Equity through Accelerated Technology Engagements and Entrepreneurships for Vulnerable Sectors



5 handlooms turned over to BuCor–Correctional Institution for Women, Mandaluyong

110 individuals trained on **basic handloom weaving** (28 PDLs in Mandaluyong & members of 4 community weaving groups)

Nonwoven Innovations Program: Diversification of Philippine Textiles through Nonwoven Innovations



500 meters of nonwoven fabric produced from pineapple, abaca, bamboo, and banana; sold over 1,000 pairs of footwear; introduced the country's first **Heat Flow and Acoustic Absorption Analyzers**; and developed 25 alternative leather accessories

SEDA Pilipinas: Regional Silk Production Ecosystem through Innovation and Sustainability



- **2 Silk Innovation Centers** in operation (*Misamis Oriental and Kalinga*) maintained
- **25** active silk cocoon producers with a total of 15 ha. of mulberry plantation
- **70** people trained in silk cocoon production and processing

SAFATOS: Shoes and Footwear Accessories R&D for the Footwear, Leather Goods, and Tannery Industries Development Act (RA 9290)



- Engaged **10** academe/industry partners
- Produced **50** footwear pairs from banana, bamboo, abaca, pineapple
- Introduced **PH's first in-shoe pressure dynamic tester**
- Scoped **10** manufacturers (Marikina, Laguna, Cebu, Davao)
- Partnered with **Creative Definitions** to test/refine natural fiber-based leather

BARM Textiles: Mapping, Scoping and Profiling of BARM Textiles towards Developing Inclusive Innovation Ecosystem



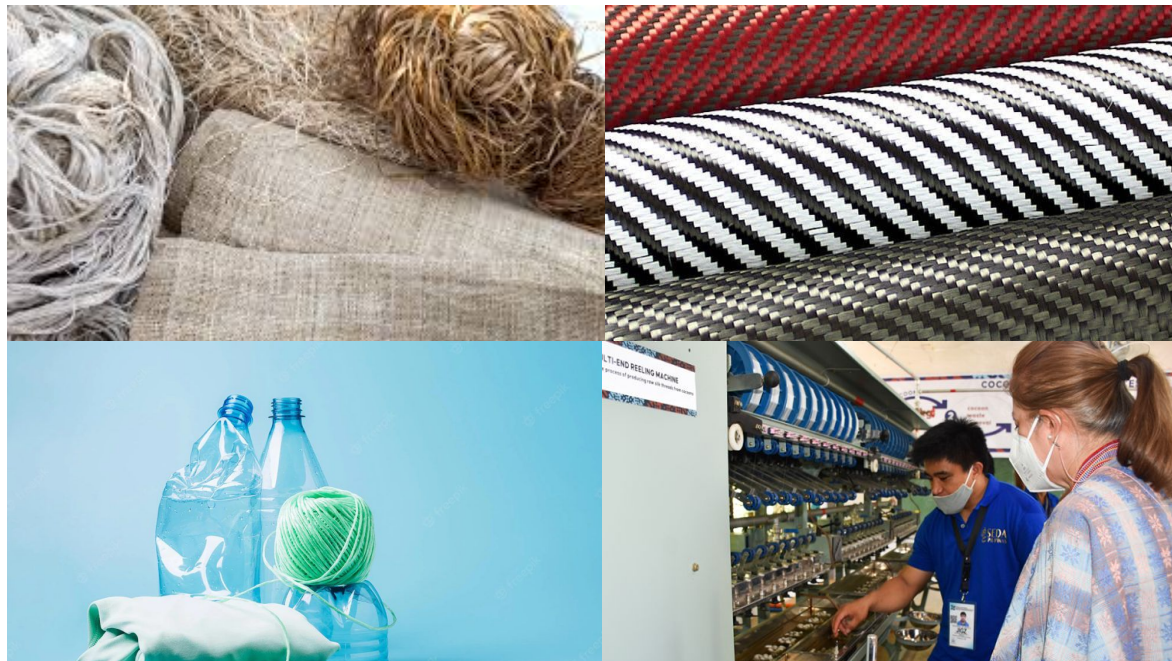
15 weaving communities in BARM were mapped, scoped, and profiled; **46** handwoven textiles and designs were documented; and **3** stakeholder engagements were organized.

COMBATex: Camouflage, Optical, Mechanical, Ballistic, and Armored Textiles R&D Program



Mobilized the Philippine Textile Consortium and partners to develop and standardize PTF-based military uniform prototypes for the Philippine Army.

Textile Innovations



Upcoming Initiatives:

- **FRONTIER:** Set up regional hubs to develop natural fibers and turn textile waste into eco-friendly products.
- **SusTELAbility FIBERCYCL:** Recycle PET bottles into locally made textile fibers to cut imports and waste.
- **Composite Textiles:** Create new materials for home and creative industries using innovative textile blends.
- **SMART-SILK:** Boost the Philippine silk industry through tech, research, and support for local farmers.

Program PROPEL: Accelerating Innovations in the Philippines, Propelling Innovations from the Philippines

PILLAR 2
FOSTERING WEALTH CREATION



- Expanded platforms at the **grassroots level** to localize S&T solutions and innovations
- Addressed **daily community challenges** aligned with **sustainable development goals**
- Created a **dynamic platform** connecting S&T enterprises with peers, mentors, industry partners, and investors

PROPEL

Accelerating Innovations in the Philippines, Propelling Innovations from the Philippines.



PILLAR 3: REINFORCING WEALTH PROTECTION



Weather and Climate Forecasting and Warning Program

Establishment of New PAGASA Weather Stations



Establishment permanent weather stations i.e., synoptic stations, for the provision of meteorological information

Flood Forecasting and Warning Program

Development of Flood Forecasting and Early Warning System for Greater Metro Manila and Surrounding Provinces of Laguna Lake Complex for Disaster Mitigation



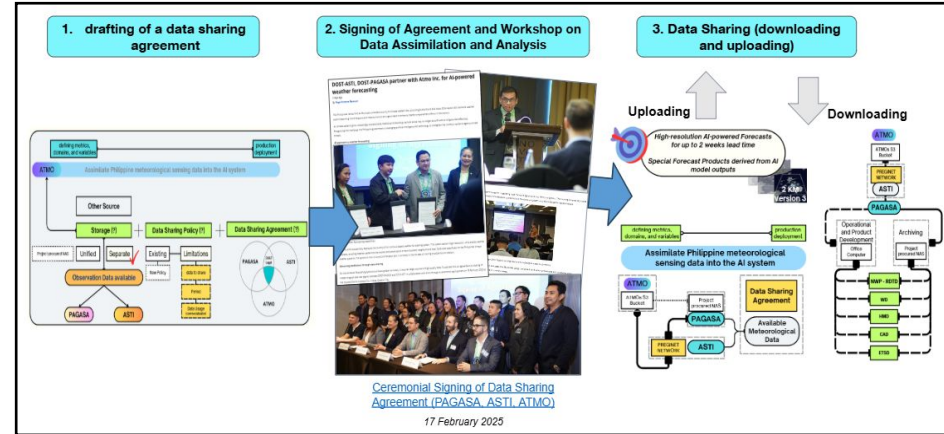
Upcoming initiative: *Establishment of Integrated Hydrological Data Management System (HDMS) for Flood Forecasters and Flood Forecasting and Warning Systems*

Multi-Hazard Impact-Based Forecasting and Early Warning System for the Philippines (MH-IBF-EWS Project)



- Developed historical database on tropical cyclone impacts
- Began development of nationwide severe wind risk information
- Developed national impact tables through consultation meetings
- Generated probabilistic hazard maps for severe wind
- Produced probabilistic forecasts for rainfall and wind
- Completed exposure database for project sites

AI-Powered Weather Forecasting for a Resilient Philippines (AI4RP)



- Procured AI-powered weather forecasting software subscription
- Deployed and operationalized system at philippines.atmo.ai
- Explored ASTI computing resources for possible migration
- Formalized Data Sharing Agreement with PAGASA to strengthen data sharing and collaboration

Doppler Weather Radar Restoration Project



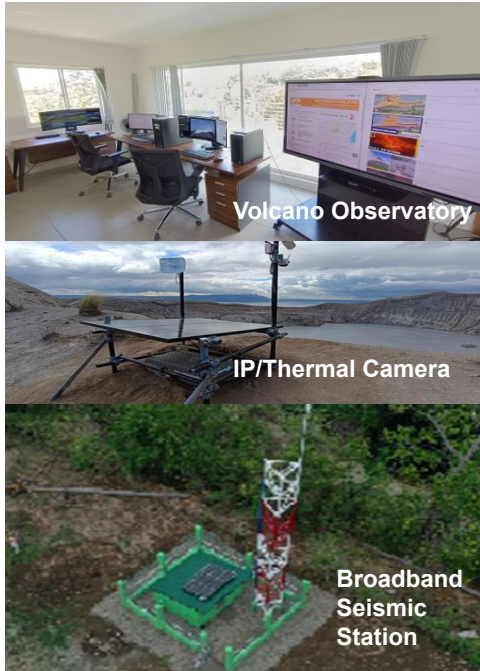
- Completed retrofitting of PAGASA Iloilo Radar Station building
- Radar equipment arrival at Iloilo port expected on **21 Aug 2025**
- Installation, testing, training, and commissioning targeted by **06 Oct 2025**

Upcoming initiative: Establishment of New Doppler Radar

Completion of National Meteorological and Climate Center (NMCC) Building



National Volcano Monitoring and Warning Program



National Earthquake Monitoring and Information Program



- Commissioned **9 new seismic stations**
(Rizal, Biliran, Leyte, Samar, Cebu, Laguna, La Union, Camiguin de Babuyan Island, Davao del Norte)
- Established **1 volcano broadband station**
(Mt. Apo, Kidapawan City)

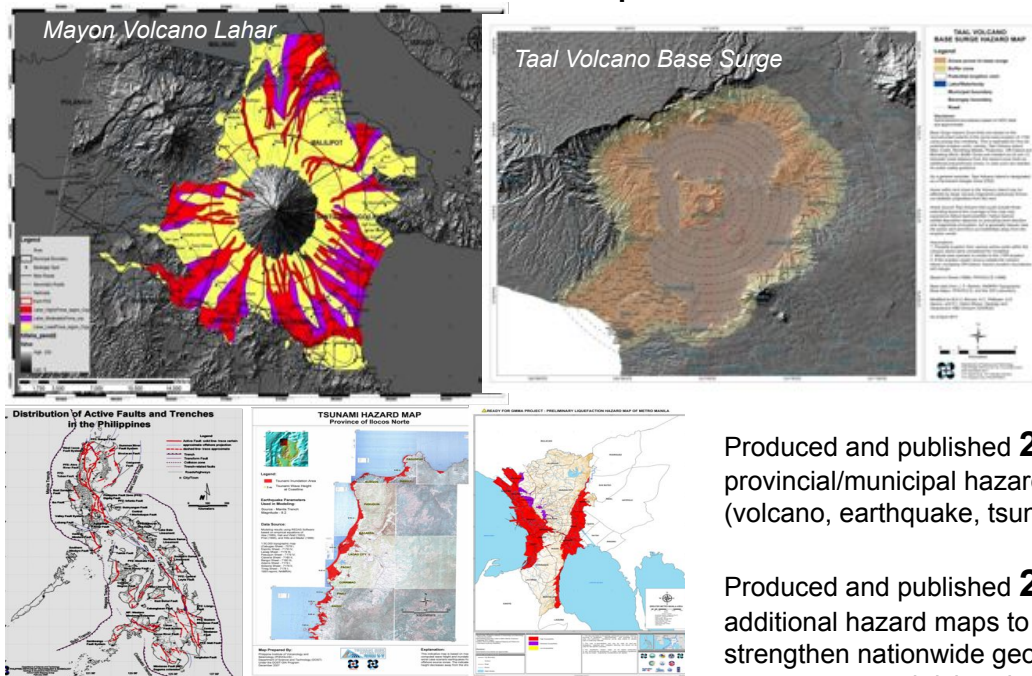
National Tsunami Monitoring and Early Warning Program



Volcano, Earthquake and Tsunami Hazards Mapping, Risk Assessment and Research and Development Program

PILLAR 3
REINFORCING WEALTH PROTECTION

Hazards Maps



Produced and published **235**
provincial/municipal hazard maps
(volcano, earthquake, tsunami)

Produced and published **230**
additional hazard maps to
strengthen nationwide geohazard
assessment and risk reduction

PHIVOLCS Desktop and Mobile Applications *GeoRisk Philippines*

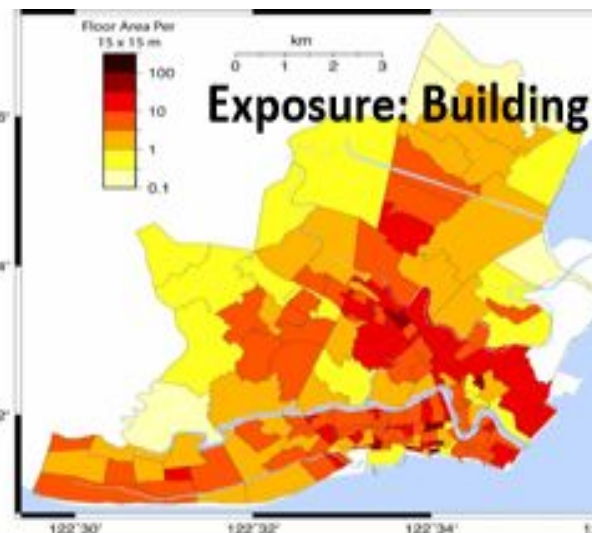


Launched **HazardHunterPH Pro**, **GeoAnalyticsPH Pro**, and **GeoRiskPH Integrated Platform**

Held the 1st GeoRiskPH Convention and Training Workshop

Volcano, Earthquake and Tsunami Disaster Preparedness and Risk Reduction Program

Rapid Earthquake Damage Assessment System (REDAS)



- Conducted **26 REDAS software trainings** nationwide
- Conducted **8 trainings** for DepEd teachers & DRR focal persons

PILLAR 4: INSTITUTIONALIZING SUSTAINABILITY

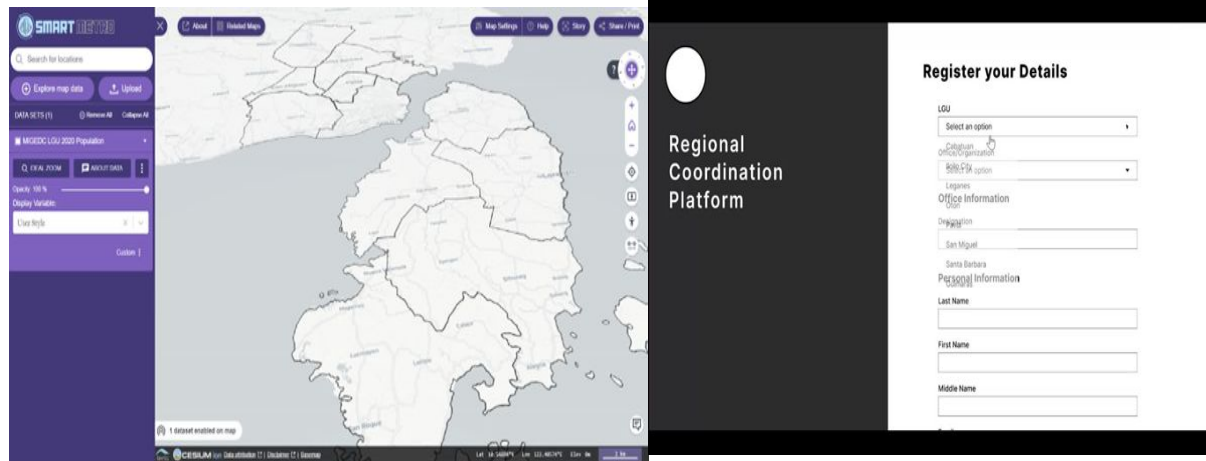
Smart and Sustainable Communities Program (SSCP)



(Concept of Smart and Sustainable Community by Andrea Mei B. Resane, DOST-STI; Designed through Jimeng AI)

- Launched “Empowering Communities through SMART Roadmaps and Technologies”
- Held national workshops & virtual S&T Summit
- Expanded reach to **91 LGUs**
- Forged partnerships with **DOT** and 5 science foundations
- Rolled out **Online SSCP Caravan**
- Launched **Philippine Smart & Sustainable Communities Awards**
- Collaborated with **World Bank** to strengthen framework
- Completed **26 new community roadmaps**

Modern Geospatial and Collaborative Solutions for the Development of Smart Regions (Smart METRO)



- Shortlisted existing technologies (e.g., **MINERVA**, **PATURO** sensors, **ALerTO–ADZU**, **Traffic AI–CarSU**) for integration into **Smart METRO** platform
- Continued development of **web-based regional coordination platform** for decision-making, public service delivery & info-sharing

Technologies for Adoption



Floating Solid Waste Collector System

The System includes **water hyacinth harvester, two (2) transfer barges, and onshore conveyor and advanced flooding and pollution management** in urban waterways.



Microbial-based Bioremediation Technology

The GMAP aims to restore mined-out areas in places like Mogpog, Marinduque, Surigao del Norte, Zambales, and Cebu, enhancing carbon sequestration and reducing heavy metal contamination. This involves using microbes and plants to clean up and restore stressed environments.

Upcoming initiative: Development of eco-friendly and affordable pest control and improvement of crop quality through SUGARCARE: Sustainable and Unified Gains through Agroecological Responses and Control using Resilient Eco-solutions (with four (4) component projects)

Circular Innovation, Resource Conservation and Utilization for Leveraging Advancement in Technology and Enterprise Towards Sustainability

- **Develop** evidence-based policies & frameworks for a sustainable circular economy (**PRIME-CE**)
- **Enhance** environmental resilience in Siargao via community-driven circular economy innovations (**GREENWAVE**)
- **Produce** biodegradable cups & takeaway boxes from natural fibers (**BIOCUPS & BOXES**)
- **Establish** a circular economy model to valorize crustacean wastes into high-value biomaterials (**CRUSTACIRC**)
- **Reduce** energy use in plastic-to-pyrolysis oil conversion via electron beam-assisted pyrolysis (**PYROBEAM**)
- **Develop** portable emergency water filtration system using upscaled wood wastes (**PAGPAWI**)



Science, Technology, and Innovation for Circular Economy (STI4CE) initiative

- Launched **53 innovative research and development projects** tackling plastic waste and promoting sustainable industries. Key initiatives include:
 - Biodegradable Alternatives:** Developing polymers from plant-based oils and cassava starch to create compostable, eco-friendly solutions for plastic pollution.
 - Recycling Innovations:** Improving recycled plastics' mechanical properties with advanced radiation technologies, including the Post-radiation Reactive Extrusion of Plastic Waste (PREx Plastic) project.
 - Sustainable Construction Materials:** Producing eco-cement and lightweight composites from agro-industrial waste and Pulangui reservoir sediments to cut CO2 emissions in construction.
 - Citizen Science Initiatives:** Engaging the public through the PlastiZen project to collect marine litter data and support the National Plan of Action for Marine Litter.

HANDA Pilipinas: Innovations in Disaster Risk Reduction and Management (DRRM) Exposition

PILLAR 3
REINFORCING WEALTH PROTECTION

HANDA PILIPINAS PROGRAM IMPLEMENTATION MAP

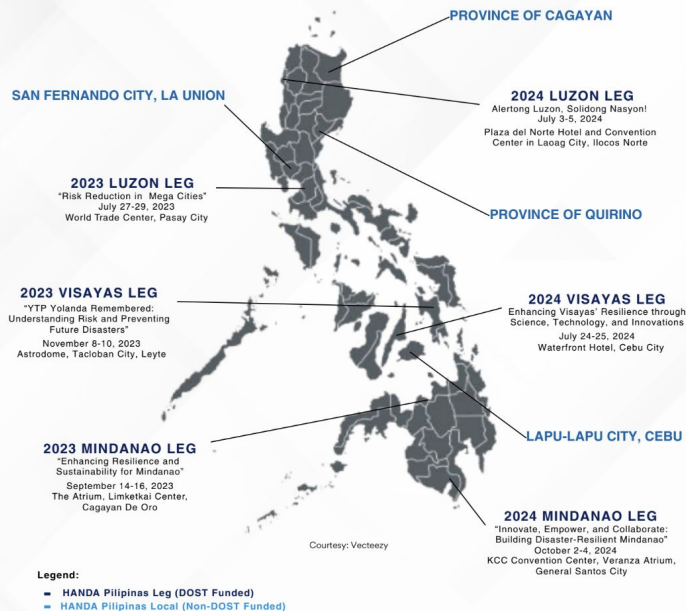


Figure 2: HANDA Pilipinas Program Implementation for 2023-2024



2024 HANDA PILIPINAS



"Alertong Luzon, Solidong Nasyon"



"Reinforced Visayan Resilience through STI"



"Enhancing Resilience and Sustainability for Mindanao"

2025 HANDA PILIPINAS



"Handa Pilipinas para sa Bagong Pilipinas" (Luzon)



STRENGTHENING AND HARMONIZING DOST SYSTEM GOVERNANCE

Science Communication Program



- DOSTv
- EXPERTTALK
- SIYENSIKAT
- BANTAY BULKAN
- RADYO SIYENSYA
- Science PINAS



STARBOOKS - The First Digital
Science Library

S&T Promotion and Advocacy Activities



- S&T Posts
- RapiDOST
- DOST Digest
- e-newsletters
- Philippine Journal of Science (PJS) issues
- Press/photo releases
- Media engagements
- AV services
- Social media posts
- Other S&T information literacy and advocacy activities
- Operation of S&T Center for Information Services

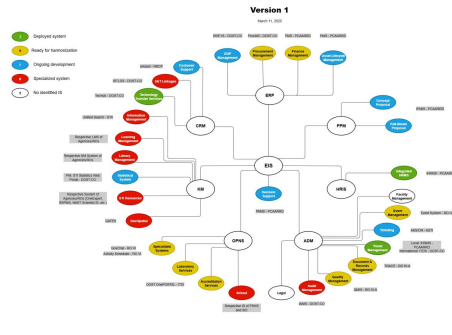


National Youth Science, Technology,
and Innovation Festival
(NYSTIF)

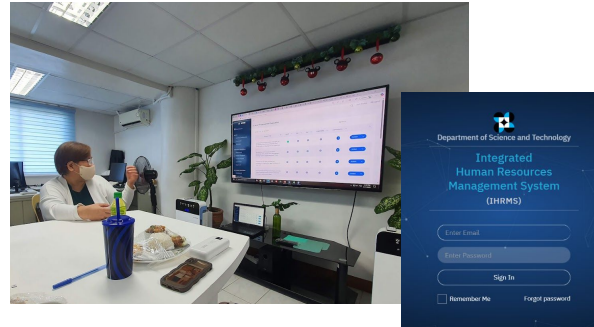


National Science, Technology, and
Innovation Week
(NSTW)

DOST Digital Transformation (DOST DX)



Development of the DOST DX Solutions Map



Deployment of the iHRMS- part of the Phase 1 of IS Harmonization



Conduct of the DOST-AAAEP Training capacitating DOST personnel on Enterprise Architecture (EA) and Business Processing Model (BPMN)



Completed the DOST DX 101 Training Series

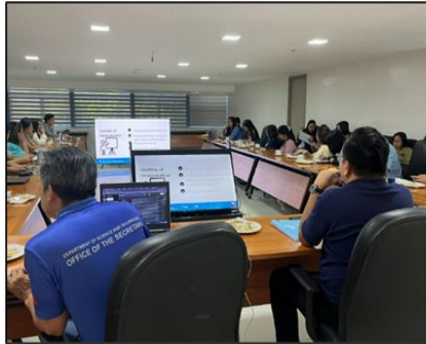


Crafting of the 19 DOST ICT Policies



Activation of Project LODixR

Geospatial Analytics and Technology Solutions (GATES) Program



- Developed **alpha version of Data Inventory and Management System** for geospatial data
- Initiated **agency engagements** via round-table discussions for collaboration
- Created **mock-up interactive platform** mapping all DOST projects using GATES data
- Organized **capacity-building activities** and drafted related plans (Policy, Capacity Building, Knowledge Management)
- Supported **GATES Program implementation** in ASTI and PHIVOLCS

Awards and Recognition for Scientific Excellence



- National Scientists through Presidential Proclamations
- Environmental Science Award

2025 PAHAYAG SECOND QUARTER

SURVEY PERIOD: June 27-30, 2025 | Base: 1,500

PUBLICUS ASIA INC.
EST. 2003
Enabling realities

APPROVAL AND TRUST RATINGS OF THE TOP 10 GOVERNMENT AGENCIES



DOST approval and trust rating

Enacted STI Bills

PHIVOLCS Modernization Act



(RA 12180 was signed into law on April 24, 2025)

Virology and Vaccine Institute of the Philippines (VIP) Act



(Both the House of Representatives and the Senate approved the bill creating the Virology Institute of the Philippines on June 9, 2025.)

Philippine National Nuclear Energy Safety Act



(Both the Senate and the House of Representatives ratified the bill on June 13, 2025.)

Expanded Philippine Science High School System Act



(Both the Senate and House of Representatives ratified the final version of the Expanded PSHS System Act on June 10, 2025.)

National Measurement Infrastructure System Act



(RA 9236 or the "National Metrology Act of 2003," aims to standardize and modernize units and measurements in the Philippines.)



PROPOSED FY 2026 DEPARTMENT BUDGET

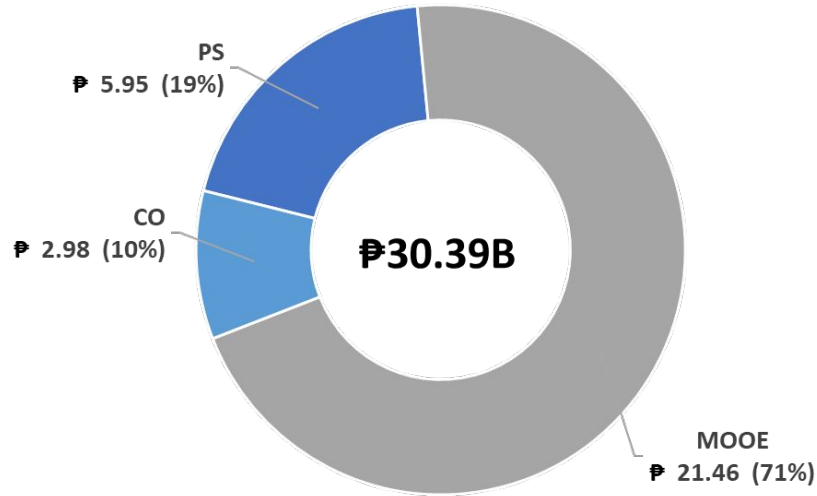
₱ 30.39 B

(per NEP)

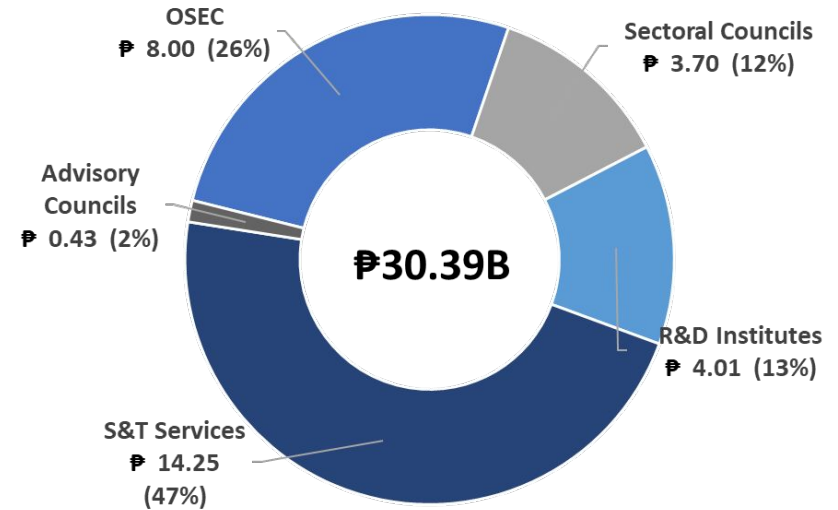
with RLIP

CONTINUE

By Allotment Class

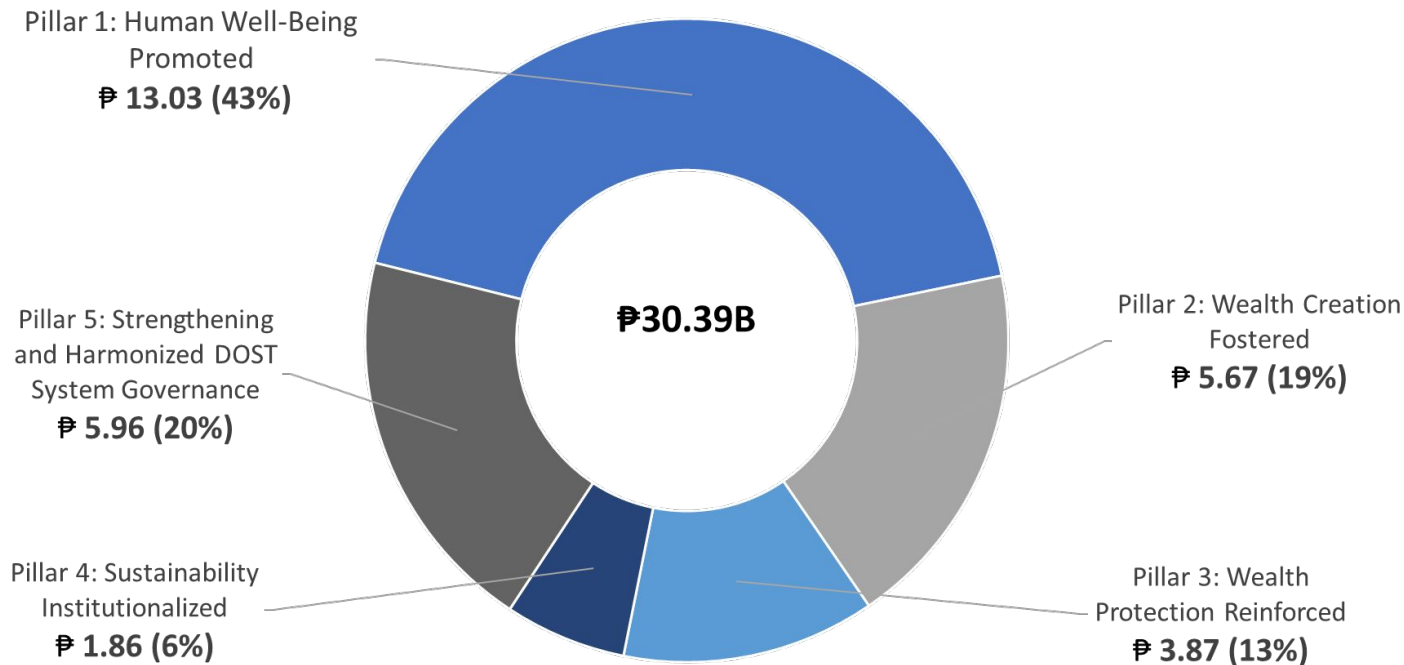


By Attached Agency



In Billion Pesos, including RLIP

Budget Distribution per DOST Pillars



In Billion Pesos, including RLIP

Financial Accomplishments

Current Appropriations

BUDGET DETAILS

2024

(December 31)

₱27.8 Billion

Allotment

95% BUR as to Obligation

89% BUR as to Disbursement

2025

₱29 Billion

Allotment

As of June 30

49% BUR as to Obligation

82% BUR as to Disbursement

As of July 31

54% BUR as to Obligation

84% BUR as to Disbursement

**Disbursement Rate = Disbursement over Obligation*



*“Sa Bagong Pilipinas,
agham ay ramdam.”*

THANK YOU.

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