

DOST-FPRDI

Fire Testing Services

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Tests ignitability and combustibility of wood samples, offering affordable local services for construction players to meet National Fire and Building Codes, enhancing safety of lives and properties in the Philippines.

Bamboo Charcoal Hand Soap

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The bamboo charcoal hand soap, developed by DOST-FPRDI, uses forest-based bamboo activated carbon to help remove germs. It is an eco-friendly, sustainable product created under the Bayanihan CoViD-19 efforts.

DOST-ASTI

VIROS-STEER

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The VIROS Project is a V2X data-driven traffic system enabling road assets to communicate with users for improved safety. Its output includes STEER, an intelligent traffic controller with wireless capability.

DOST-PCHRD

National Health Research Agenda in Disaster Risk Reduction and Climate Change Adaptation 2023-2028

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This agenda sets health-focused research priorities on climate change and disasters, integrating Sendai Framework lessons. It guides funding and collaboration to strengthen community resilience and national preparedness across all levels.

DOST-PCAARRD • with DENR- ERDB

Greenbelt Establishment using Maguey (Agave cantala Roxb)

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The S&T intervention of greenbelt establishment using maguey plant aims to improve the resiliency of forest watershed from adverse impacts of climate change like forest fires and soil erosion to ensure the protection of watersheds.

• with BSU

Early Warning System for Landslides in Benguet and Mountain Province

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The developed landslide susceptibility assessment protocol offers a strategic approach to addressing landslides by focusing on the root causes, trigger factors, and the likelihood or probability of occurrences and causes. This will allow better understanding of the phenomena and its dynamics and ultimately enables the development of early warning systems.

• with DOST- ITDI

LycoScan Detection Kit (LAMP-based detection kit for Philippine Tomato Yellow Leaf Curl Virus (TYLCV) strains)

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The LycoScan Detection Kit is a field-ready LAMP-based biosensor for early TYLCV detection, aiding farmers and technicians in timely crop protection, disease surveillance, and quarantine to prevent viral outbreaks.

- with DOST-PNRI

Aptamer Based Test kit for Detection and Removal of Cyanotoxins

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Rigitox is a test kit through an aptamer-based radiation-induced graft polymerization (RIGP) technique for rapid *in situ* quantitative detection and removal of cyanotoxins in Lake Systems.

- with UPLB

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

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SARAI is an action-research program that uses precision agriculture technologies to strengthen the agricultural sector in the Philippines and mitigate climate risks through the use of state-of-the-art technologies such as crop modeling, satellite and remote sensing, geographic information systems (GIS), climate information systems, information and communication technologies (ICT) and advanced agronomic studies. The program has developed several technologies for nine (9) targeted crops including CL-SEAMS, SPIDTECH, BANATECH and SARAI Knowledge Portal.

- with CSLU

Auto Furrow Irrigation System (AFIS)

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The AFIS technology incorporates irrigation flow models, irrigation management strategies, multi-sensors and control systems to help sugarcane growers implement an efficient irrigation system for their lands throughout dry spells and droughts.

- with DLSU

Mass rearing technology of *Comperiella calauanica*

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The native parasitoid *Comperiella calauanica* effectively controls the invasive coconut scale insect (CSI), reducing outbreaks to minor pest levels. Mass rearing technology is available to combat future CSI invasions nationwide.

- with PCA

Green Muscardine Fungus (GMF)

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The green muscardine fungus (GMF), *Metarhizium anisopliae*, is an effective biological control against coconut rhinoceros beetle (CRB), recommended for its efficacy, ease of use, and mass production to prevent coconut damage.

DOST-PAGASA

Interactive Heat Index Mapping and Prediction (iHeatMap)

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The iHeatMap platform offers real-time, high-resolution heat index data nationwide, featuring color-coded alerts, hourly forecasts, and a user-friendly desktop interface for precise heat monitoring and public safety.

IMPACT-BASED FORECASTING

Impact-Based Forecasting aims at building a safer community to weather and climate variability through science and innovation. Impact-based warnings provide detailed information on how hazards may impact warning recipients to multi-hazard impact-based forecast and warning services represent a paradigm shift in service delivery for meteorological agencies.

S2S (SUB-SEASONAL TO SEASONAL) FORECAST

The Tropical Cyclone Threat Potential Forecast (TCTPF) by DOST-PAGASA provides advanced, accurate 16-day cyclone forecasts, aiding LGUs, DRRMOs, and sector planners for timely disaster preparedness and response decisions.

ENSO ASSESSMENT SIMPLIFIED (EASi) Tools

The EASi Tool by PAGASA uses Power BI to visualize historical Philippine rainfall patterns based on ENSO phases—El Niño, La Niña, and Neutral. It features interactive maps, charts, and graphs, allowing users to explore region-specific data and analyze rainfall trends.

Chance of Rain

“Chance of Rain” provides rainfall probability in percentages, aiding daily decisions. Developed with JICA under a capability enhancement project to improve weather observation, forecasting, and public information.

Automated Lightning Density Mapping System

PAGASA’s Automated Lightning Density Mapping System uses MATLAB and QGIS to integrate lightning data with Himawari-9 imagery, providing high-resolution lightning maps that enhance storm analysis and weather monitoring nationwide.

DOST-PHIVOLCS

REDAS ((Rapid Earthquake Damage Assessment System)

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This software estimates impacts of earthquakes, floods, winds, tsunamis, lahars, and includes monitoring, alerts, and public reporting tools for enhanced disaster preparedness and response.

Intensity Meter

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An instrument installed in different areas in the Philippines, which is used to determine near real-time intensity of ground shaking during earthquakes.

Mobile Earthquake Simulator

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This aims to provide experiential learning to the users' particularly students who have not yet experienced an earthquake and teach them how to protect themselves during ground shaking. This mobile earthquake simulator demonstrates the sideways movement of the shaking and the earthquake intensity.

GeoRiskPH

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It aims to support the country's resilience against natural hazards and risks through enhancing the Philippines' disaster risk reduction and management efforts by providing geospatial information and tools for better decision-making.

PlanSmart

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PlanSmartPH is an automated planning tool web application envisioned to revolutionize the (DRRM) planning processes in the country by helping the government, especially local government units (LGUs), to efficiently plan to combat disasters, work smarter, and rebuild faster.

VolcanoPH Info

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A mobile application that provides real-time volcano bulletins, advisories, and updates with push notification informing users of the latest on activities of active volcanoes in the country. Users will be able to see the alert levels of active volcanoes, along with a 24-hour summary on its status, various monitoring parameters, and safety recommendations.

How Safe Is My House?

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Is a simple and easy-to-use web and mobile application tool that serves to understand and evaluate the integrity of your house and its vulnerability to strong earthquakes. The app aims to increase the awareness of proper construction practices and standard design, and highlight the importance of structural integrity in building safer and resilient Filipino communities.

DOST-MIRDC

Floating Solid Waste Collector System

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This collector system is geared to pioneer the cleansing of Metro Manila's waterways. It is designed to collect solid waste littered throughout the rivers and canals that channel through the cities, as well as gathering water hyacinths that contribute to flooding and clogging buildup.

Automatic Trash Rake

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Serve as a source of alternative technology to alleviate flooding caused by clogged water. ATR can gather an average of 5 cubic meters of rubbish, which is better than the prior manual technique. However, continued advancement of the waste rake is toward an automated facility. It can be remotely controlled, operated on a pre-programmed basis, or operated in a more complicated continuous system.

DOST-PCAARRD

Enhancing Agriculture Resiliency to El Niño through Knowledge and Capacity Building

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Enhance the resilience of Filipino farmers and other stakeholders against the impacts of El Niño by comprehensive information dissemination and facilitating the adoption of various water-saving technologies

Drought Tolerant Mungbean

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Mungbean is an affordable source of protein, supplying 20–25% protein, as well as carbohydrates, minerals, and vitamins. The NSIC (2007) Mg-15 Kinang, NSIC (2010) Mg-16 Mabunga 3, NSIC (2011) Mg-17 Mabunga 4, Pag-asa 7, and Pag-asa 9 are drought-tolerant mungbean varieties in the Philippines that you can plant in your backyard. These varieties can thrive in any soil type and can be grown in all regions of the country.

DOST-PTRI

Geotextile Testing Facility

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This is a modern testing facility that offers standardized and accredited tests for geotextile materials, to determine if a sample material is suitable for a particular engineering earth application.

PROTex(Protective, Re-engineered Occupational Technical Textiles)

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These are protective Outwears (POWs) for males and females made from water-repellent/antimicrobial natural textile fiber-blended fabrics such as pineapple leaf, bamboo, and bandala fibers. These are comfortable to wear and it reduces potential penetration of transmitted external fluids that may cause microbial and viral health-associated infections. compliant with the RA 9242 or Philippine Tropical Fabric Law.

DOST-ASTI

AI4Mapping

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AI4Mapping is a system and method that uses Artificial Intelligence (AI) and Machine Learning (ML) in generating current situation maps derived from the identified patterns, groupings, and learnings in the detected and captured series and segments of satellite images.

USHER TECHNOLOGIES

USHER ERI and USHERETTE System

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The USHER (Universal Structural Health Evaluation and Recording) System is a real-time structural health monitoring solution designed to enhance building safety during earthquakes. USHER supports disaster preparedness, real-time response, and post-event assessment, helping ensure compliance with national building standards. It empowers building owners, engineers, and local governments with actionable insights to protect lives and infrastructure, making structural monitoring more affordable, accessible, and efficient.

HOCLOMAC Disinfection Solution Generator

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HOCLOMAC is a portable device developed by USHER Technologies Inc. that generates hypochlorous acid (HOCl) on-site for safe and eco-friendly disinfection. Using just water, salt, and electricity, it produces HOCl—a powerful yet non-toxic disinfectant effective against viruses, bacteria, and other pathogens. Ideal for homes, offices, clinics, and public spaces, HOCLOMAC allows users to create and use their own disinfectant anytime, ensuring a sustainable, cost-efficient, and health-safe sanitation solution.

WEHLO: Localized Weather, Environment and Hydromet Impact Monitoring System

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WEHLO is a localized impact monitoring system that delivers real-time, hyperlocal data on weather, environmental conditions, and hydrometeorological risks. Designed for communities, LGUs, and institutions, WEHLO emphasizes localized data collection and site-specific monitoring to detect rainfall, temperature, humidity, air quality, and flood risks at the barangay or city level.

OZONE DYNAMIC VENTURES

Portable Unihoused Water Purification And Sterilization Apparatus

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During these times of calamities and disasters, supply of drinking water is the most important necessity in the evacuation site. Drinking water supply resources often face problems of contamination leading to waterborne diseases. Thus, the supply of good quality drinking water and its fastest availability is the biggest concern.

DOST-FNRI

TubigTalino

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Drinking water enriched with iodine to help prevent iodine deficiency, boost mental function and promote growth. Ideal for feeding program and relief operation where safe drinking water is important. Technology is very simple and relatively affordable compared to other food technologies. Ideal for those with water refilling stations. Has ready institutional clients.

Brown Rice Nutty Fruity Bar

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Contains dried fruits and nuts, brown rice crispier and coated with honey. Ideal for disaster relief operation and feeding program, for people on the go, physically active and health-conscious persons. Has ready institutional clients.

Nutri-Calamam-C Fruit Juice Drink

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Ready-to-drink juice made from calamansi extract. No artificial colors and fortified with immune-boosting vitamin C.

RTE Complementary Foods (Rice Mongo Blend, Momsie, Curls, Coco-Blend)

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Nutritious, ready-to-eat complementary foods like BIGMO, Momsie, and Coco-Blend are developed to combat child malnutrition, providing essential protein, energy, iron, and zinc for ages 6 months to 3 years.

High Protein Crackers

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High Protein Crackers are a flat, dry, baked snack made from a blend of natural, protein-rich ingredients such as butter, vegetable shortening, stevia powder, all-purpose flour, whole wheat flour, coconut flour, oats, sesame seeds, pumpkin seeds, and salt. These crackers offer a nutritious, on-the-go option for those seeking a healthier alternative to traditional snacks and also has a shelf life of up to six months when stored at room temperature, making them a convenient and lasting snack choice.

DOST-PCAARRD **Sulong Tulong sa Kalupaan (STK)**

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The project STK capacitated vegetable farmers affected by the Taal Volcanic eruption on appropriate soil health management practices. It provided soils-related services to the farmers and assists them in formulating soil and crop recommendations geared towards sustainable management.

DOST-PNRI

Radiation-Engineered Hemostatic Agents as Life Saving Devices (REHEAL)

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DOST-PNRI developed hemostatic agents as life-saving devices and first-line emergency treatments to be used immediately after injury or during hospital transfer. The hemostats, produced in granule and dressing form, were modified and sterilized using radiation and have been proven in vitro and in animal studies to be safe and effective in controlling bleeding.

Radiation Monitoring Stations in the Philippines

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DOST-PNRI oversees two networks of real-time radiation monitoring stations which continuously measure radiation levels across the country and in Southeast Asia to provide information to emergency responders and decision makers. The Philippines, through the DOST-PNRI, also operates the sole Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) Radionuclide Monitoring Station in the country. The CTBTO stations are placed in several locations worldwide to detect and locate potential nuclear testing activities.

Radiological Emergency Preparedness and Response

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In coordination with various government agencies and non-government organizations, the DOST-PNRI maintains the National Emergency Preparedness and Response Plan (RADPLAN) to establish an organized response capability for timely and effective actions in the event of a nuclear or radiological emergency.

DOST-ITDI

READY-TO-EAT FOOD (PACK OF HOPE)

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A line of disaster mitigation / relief food to immediately satisfy hunger of disaster survivors; available variants include Ginisang Munggo and Chicken Corn Soup. These packs are often designed for long shelf life and are perfect for disaster relief, humanitarian aid, or everyday preparedness.

READY-TO-EAT FOOD (PACK OF DUTY)

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Ready-to-eat food rations, also known as Meals-Ready-to-Eat (MREs), were developed in partnership with the Philippine Army and the Philippine National Police for use of men-in-uniform during combat and high-risk operations.

READY-TO-EAT FOOD (HARD BOILED CHICKEN EGG)

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Pre-cooked, ready-to-eat chicken egg developed for the convenience food market. Chicken egg is an all-natural source of protein. It can be stored without refrigeration for at least 5 months.

READY-TO-EAT FOOD (HARD BOILED QUAIL EGG)

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Pre-cooked, ready-to-eat or ready-to-use quail eggs were developed initially as an alternative emergency or disaster food ration. But through regular interactions with industry, ITDI discovered a niche market for the technology: the food and beverage industry, particularly 'kwek-kwek' stands.

ABACA FIBER Reinforced Composite

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The technology makes use of abaca fiber and thermoset resin to develop a naturally sustainable, environment-friendly, corrosion-resistant, and lightweight material with good thermal insulation and fuel-saving properties for boat, transportation, housing and other related applications.

Collapsible Toilet Bowl

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The Collapsible Toilet was developed to address the needs of evacuation sites for a clean toilet facility. It is made from corrugated board which is easily available in the market.

DOST-ASTI

REIINNDRROPS (Resilient Education Information Infrastructure for the New Normal: Disaster Risk Reduction through Communication and Preparedness Systems)

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This project is an innovative approach to provide the targeted stakeholders and unserved/underserved communities with an internet and non-internet-based distribution platform for digital resources. This would provide the targeted community with a variety of information for disaster awareness, mitigation, educational, general knowledge, and nearby sensor data.

ALaM (Automated Labeling Machine)

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The ASTI-ALaM project is dedicated to developing high-impact AI-based solutions for various domains, from agriculture, urban planning, and pre-disaster mapping, among others, providing decision-makers with invaluable tools to enhance their decision-making process using AI.

MASID (Meteorological Data Acquisition Stations for Information Dissemination)

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MASID is a service established to continue the efforts made by the Philippine government in strengthening the country's disaster preparedness and mitigation plan, specifically technical assistance, maintenance of the PhilSensors, operations and improvement of software tools (i.e., front-end, back-end), and provision of historical and near real-time data to end-users.

SARWAIS (Synthetic Aperture Radar and Automatic Identification System for Innovative Terrestrial Monitoring and Maritime Surveillance)

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The Project distributes Synthetic Aperture Radar (SAR) and AIS data to concerned government agencies and academic institutions to augment their need for spaceborne data for various research and operational applications. These include terrestrial monitoring, disaster management, land cover classification and environmental and agricultural monitoring.

DOST-FPRDI

Silyang Pinoy

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To provide quality furniture for the country's public schools, DOST-FPRDI designed and developed a multi-functional furniture with bamboo as the main raw material. Aptly called Silyang Pinoy, it makes use of engineered bamboo or e-bamboo and plywood, and metal for support.

DOST-PNRI

Nuclear Analytical Techniques for Water Quality Assessment and Soil Monitoring after Severe Flooding

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In the event of a calamity caused by severe flooding, PNRI researchers use these techniques to assess the quality of drinking water and check for contamination of soil and marine environments in the affected areas.

DOST-ITDI

Modular Rainwater Collection System

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This system is made from nanocomposite thermoplastic geomembrane and it is easy to install and deploy. It has made safe and easy rainwater harvesting and storage (up to 1 cubic meter) for reuse on-site, addressing water scarcity for non-potable domestic use especially during emergencies.

SAFEWATRS Mobile Water Disinfection System

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SAFEWATRS is a compact emergency disinfection system for converting floodwater into drinking water. It aims to address water shortage during calamities, emergency situations, and even in remote areas where water supply is not compliant to the Philippine National Standards for Drinking Water (PNSDW of 2017).

DOST-PTRI

DOST-PTRI Testing Laboratory Services

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These laboratories have the technical capability and advanced facilities to perform a wide range of mechanical, chemical, and microbiological testing on textile materials such as fibers, yarns, fabrics, garments, and technical textiles for medical, construction and civil works, automotive, agriculture, and packaging industries.

HIRAYA TECH

HIMO (Formerly R-TAP)

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