AI for Climate Action and Resilience: Philippine Experiences and Prospects

Caezar Angelito E. Arceo
Technology Application and Promotion Institute (TAPI)
Department of Science and Technology (DOST)
Philippines

Technology and Innovation Conclave 2.0
Ministry of Earth Sciences, Prithvi Bhavan,
Lodi Road New Delhi, India | 29 January 2026

ESCAP APCTT Asian and Pacific Centre for Transfer of Technology

TAPI

Invention Development Division

Backdrop

90.8%
Digital readiness

81%
Having internet access

20%
Philippine firms aware of AI, other 4IR techs

14.9%
Philippine businesses using AI

7.9%
ICT sector

5.94%
BPO sector

- Key barriers to AI adoption include limited digital infrastructure, skills gaps, low AI awareness, and insufficient funding opportunities.
- Regional disparities in digital infrastructure and business activity further hinder AI adoption, causing less developed regions to lag behind technologically.
- Despite government initiatives such as DTI's National AI Strategy Roadmap and the Center for AI Research, several barriers persist, especially for MSMEs.

THE PHILIPPINE STAR

Philstar.com | September 14, 2025
Source: PIDS, Readiness for AI Adoption of Philippine Business and Industry

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58%
use generative AI for skill development and learning

14.9%
use AI for writing tasks

46%
Filipinos use generative AI monthly at work

71%
digitalization and data science workers (industry with highest AI usage)

65%
information technology professionals (industry with 2nd highest AI usage)

INQUIRER.NET

INQUIRER.NET| November 21, 2024

Source: Jobstreet; SEEK, Decoding Global Talent Report 2024

- Filipino workers **aged 18–24** are twice as likely to use generative AI compared with other age groups.
- **82%** of Filipinos believe AI will change some aspects of their work, with **35%** expecting a major impact that could eliminate or significantly transform their careers.
- Craft or physical workers are the most concerned about AI's impact, with **56%** expecting significant job changes, while technical and engineering workers are the least concerned (**28–30%**).
- Despite concerns, over **70%** of Filipino workers are willing to reskill to stay relevant in the age of AI, with **24%** open to reskilling only when absolutely necessary.

Backdrop

Women empowerment during disasters

Agriculture-related climate-related AI R&D

PCAARRD-GIA	USD 6,488,644.81
DOST-GIA	USD 14,000,815.97

Ongoing	USD 17,645,493.76
Completed	USD 5,399,618.53

Role of Women in Disaster Risk Reduction and Management

Nasaan si Nanay?: A Phenomenological Analysis of Household-Level Disaster Risk Management in Pama Sawata, Caloocan City, Philippines.

Backdrop

Some PH AI patents related to CRI

Source:
Engr. Wilfredo O. Calaguan, Intellectual Property Office of the Philippines

Arceo, CAE. AI Asia Expo
08 November 2023

Ph22015000315	Method for Predicting Physical Attributes of Milled Rice Using Image Processing Software	Philippine Rice Res Institute Philrice [Ph]
Ph22015000316	Method of Image Acquisition of Milled Rice for Image Processing	Philippine Rice Res Institute Philrice [Ph]
Ph12015000419	Method and System for Detecting and Classifying Cardiovascular Diseases Using Portable Monitoring Ecg Device	Montano Vincent D [Ph]

Ph12016000024	Drowsiness Detector Cap	Tabal Keith Marlon R [Ph]

PH12018000201	Artificial Intelligence Based Service Control and Home Monitoring	Accenture Global Solutions Ltd [Ie]
PH12018000311	Adaptive Product Management Platform	Accenture Global Solutions Ltd [Ie]

2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021

PH12019000098	Virtual Services Rapid Deployment Tool	Accenture Global Solutions Ltd [Ie]
PH12019000172	Generating an Execution Script for Configuration of A System	Accenture Global Solutions Ltd [Ie]
PH12019050062	An Active Monitoring, Risk Assessment, Pilferage Detection and Fraud Mitigation Device	Spingine Corp [Ph]
PH12019050076	Enhancing Device Geolocation Using 3d Map Data	Samsung Electronics Co Ltd [Kr]
PH12019050079	Speech Enhancement of Coded Voice Calls Using Deep Neural Networks	Samsung Electronics Co Ltd [Kr]
PH12019000255	Maturity Identifier of Sugar Cane Via Image Processing and Artificial Intelligence	Tech Institute of The Philippines Manila [Ph]

PH22021050738	System for Physical Distance	Science and Technology of Southern Philippines

PH12020050631	A Wireless Disinfecting Apparatus Using Ozone	Hinolan Carlos Jose G [Ph]

Backdrop

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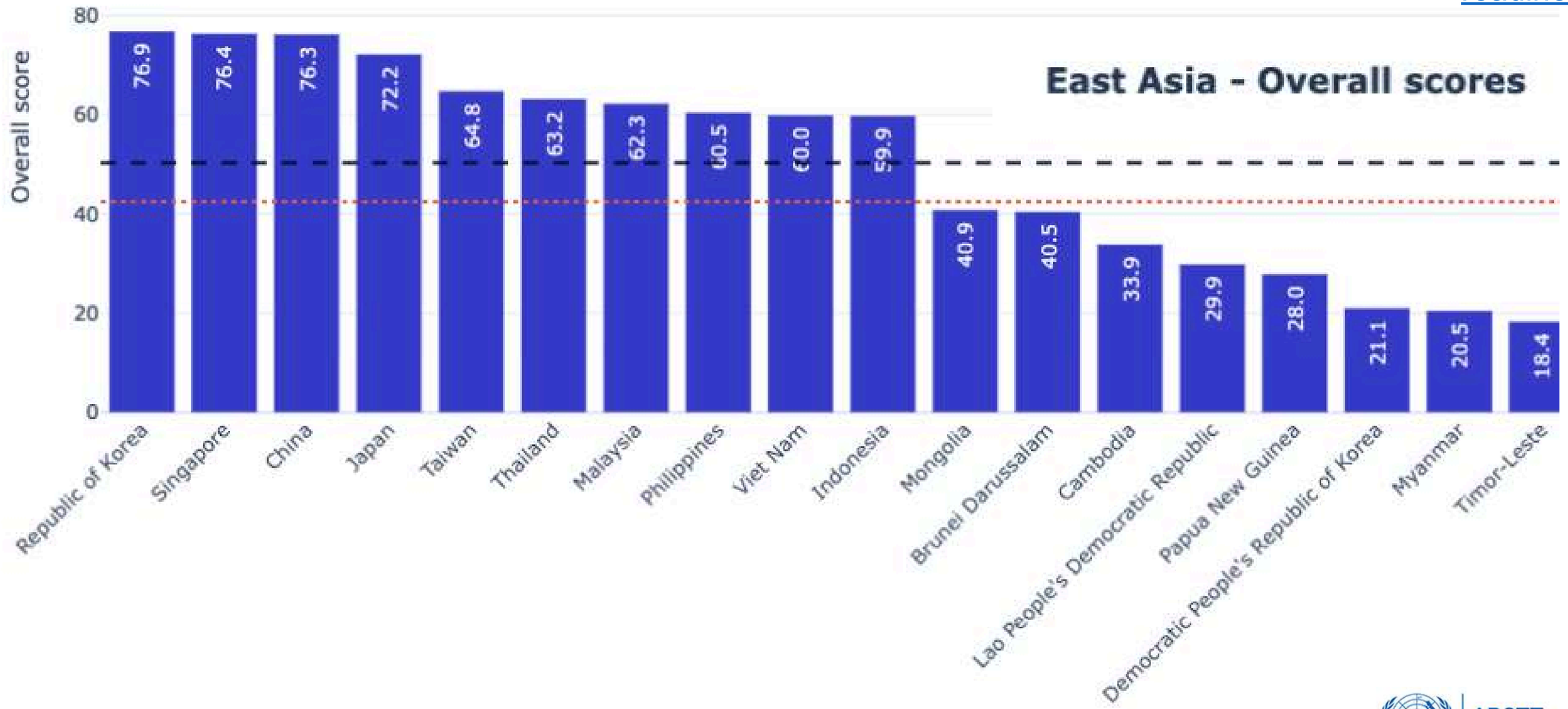
AI readiness index

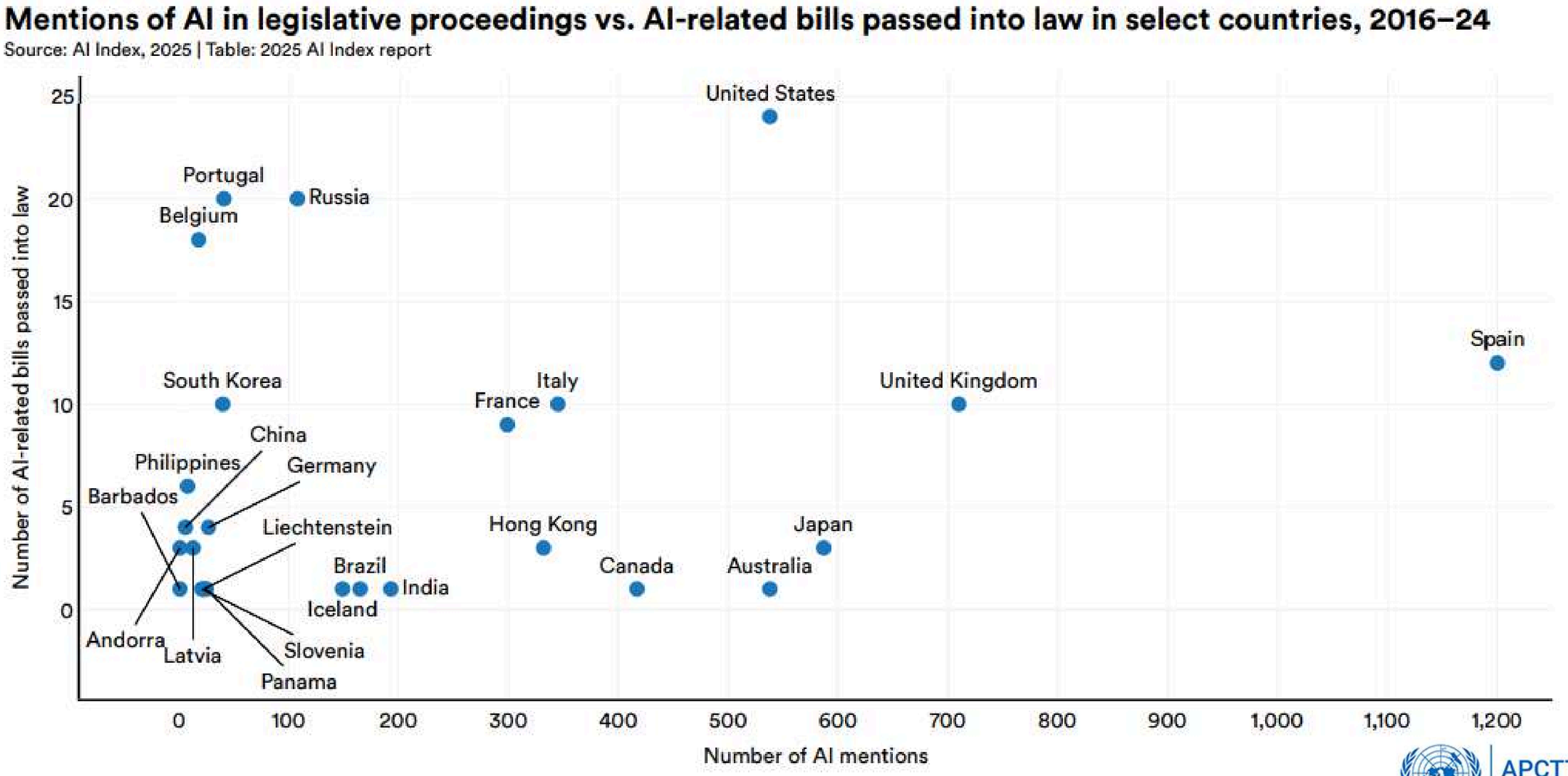
https://oxfordinsights.com/ai-readiness/



Backdrop

AI readiness index

https://hai.stanford.edu/ai-index/2025-ai-index-report



Backdrop

PH framework

Republic Act No. 11293
"Philippine Innovation Act"

Republic Act No. 10055
“Ph Technology Transfer Act"

Republic Act No. 11337
"Innovative Startup Act"

Republic Act No. 11032
“Ease of Doing Business"

Republic Act No. 10667
“Philippine Competition Act"

Guides

The National Innovation Council:

Member Agencies	Renato Solidum Jr.	*Secretary of Science and Technology*
	Alfredo E. Pascual	*Secretary of Trade and Industry*
	Domingo F. Panganiban	*Secretary of Agriculture*
	Toni Yulo-Loyzaga	*Secretary of Environment and Natural Resources*
	Ted Herbosa	*Secretary of Health*
	Raphael Lotilla	*Secretary of Energy*
	Jaime Bautista	*Secretary of Transportation*
	Gilbert Teodoro	*Secretary of National Defense*
	Ivan John Uy	*Secretary of Information and Communications Technology*
	J. Prospero E. De Vera III	*Chairperson of the Commission on Higher Education*
	Rowel S. Barba	*Director-General of the Intellectual Property Office of the Philippines*
Executive Members	Mark Sultan P. Gersava	*Representative for the Micro, Small, and Medium Enterprises Sector*
	Monchito P. Ibrahim	*Representative for the Business Sector*
	Earl Martin S. Valencia	*Representative for the Business Sector*
	Gisella P. Concepcion	*Representative for the Academe and Scientific Community*
	Ria Liza C. Canlas	*Representative for the Academe and Scientific Community*
		Representative for the Academe and Scientific

NIASD 2023-2032

National Innovation Agenda and Strategy Document

Pillar 1: Pro-active, Smart, and Innovative People

1. Learning and Education
2. Health and Well-being

Pillar 2: Competitive and Resilient Economy

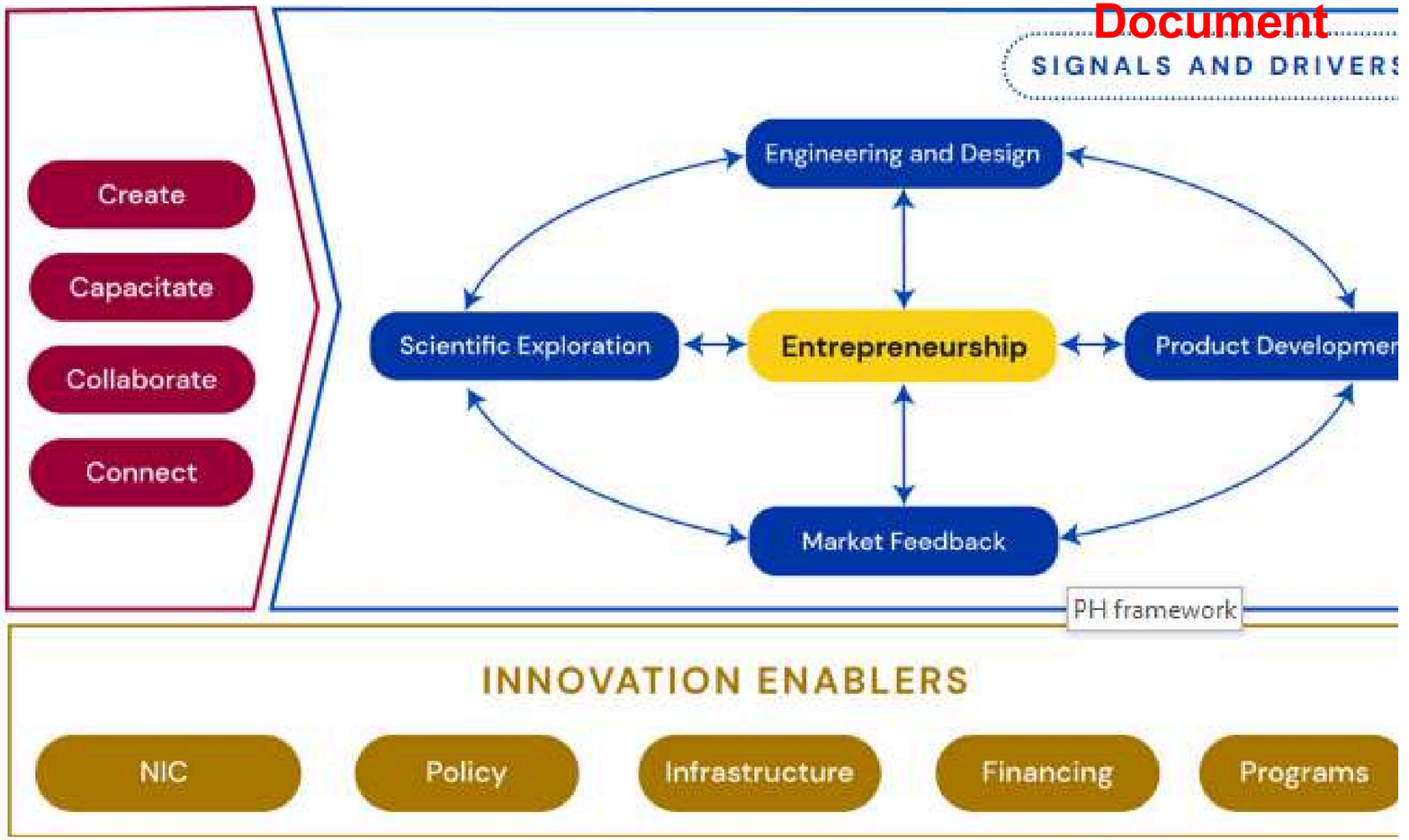
3. Food and Agribusiness
4. Finance
5. Manufacturing and Trade
6. Transportation and Logistics

Pillar 3: Collaborative and Reliable Institutions

7. Public Administration
8. Security and Defense

Pillar 4: Efficient, Clean, and Sustainable Environment

9. Energy
10. Blue Economy and Water



Guides

NAISR 2.0

Philippines' National AI Strategy Roadmap

Guides

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cade

Topics Policy updates In focus Resources Actors Policy calendar

2 May 2025

Philippines: DICT mandates unified ICT planning standards across government

The Department of Information and Communications Technology (DICT) has issued a new policy requiring all government bodies to adopt unified standards in their Information Systems Strategic Plans (ISSPs).

The policy, outlined in Department Circular No. HRA-001 s. 2025 applies to national agencies, government-owned and controlled corporations, state universities and colleges, and other covered entities. It mandates that all ICT planning be aligned with national priorities through a centralised framework, with quality assurance and oversight provided by the DICT and the Medium-Term Information and Communications Technology Harmonization Initiative (MITHI) Steering Committee.

According to DICT Secretary Henry Aguda, the objective is to eliminate redundancy, improve digital preparedness, and ensure that government ICT investments directly support citizen-focused public services. Agencies must use the standard ISSP template and meet minimum quality requirements set by the DICT. Submissions are to be sent directly to the MITHI Secretariat. Aguda added that the policy is

Guides

Who we are

- **Technology transfer arm of the DOST** (Executive Order 128, 1987)
- **Implements inventors' and inventions incentives law** (Republic Act No. 7459, 1992)
- **Depositary institution of fairness opinion reports** (Amended IRR, Republic Act No. 10055, 2009)

Department of Science and Technology (DOST)

Secretary

Undersecretaries
Assistant Secretaries

Sectoral Planning Councils (3)

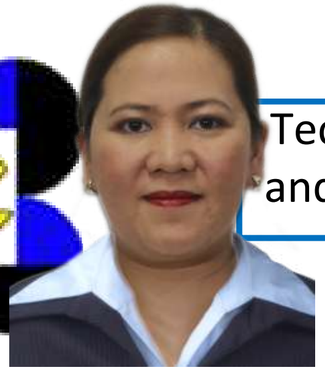
Collegial and Scientific Bodies (2)

R&D Institutes (7)

S&T Services Institutes (7)

Regional Offices (16)

Technology Application and Promotion Institute



Atty. Marion Ivy D. Decena
Director

Structures

INNOVATION PATHWAY

RESEARCH
IDEATION: Basic and Applied

COMMERCIALIZATION
Full Commercial Deployment and Market Expansion

PROGRAMS

"Towards Market Entry"

Structures

Our ecosystem

https://techtrans.gov.ph/how-we-serve/downloadables

TIPD

Technology Information and Promotion Division (TIPD)

- Market research
- Caravans

Investment and Business Operations Division (IBOD)

- Venture Financing
- LANDBANK - TAPI Innovation and Technology (I-Tech) Lending Program

DOST-PCAARRD

DOST - PCHRD

DOST-PCIEERD

Invention Development Division

- GALING (formerly Testing, Concept-Proto, IBID, IBED)
- Technology Innovation and Commercialization (TECHNiCOM)
- IPR and Expanded IPR Assistance Programs
- Invent School Program

https://s4cp.dost.gov.ph/

- Collaborative R&D to Leverage the Economy (CRADLE) Program
- Business Innovation through S&T (BIST) for Industry Program

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Climate Resilient Infrastructure Technology Development, Upscaling and Deployment (Philippines)

AI for Climate Action and Resilience: Philippine Experiences (Philippines)

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Invention Development Division

DOST-TAPI Priority Areas 2026

1. Waste Security, and Water Resource and Waste Management
2. Medical/Health Technologies
3. Renewable Energy
4. Climate Resilience and Disaster Risk Reduction
5. Agriculture/Forestry
6. Chemical Technologies
7. Electronics Industry
8. Information and Communication Technologies
9. Construction Technologies
10. Manufacturing - Automotive assembly and EV supply chain
11. Supply Chain and Logistics Management

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INNOVATION PATHWAY

RESEARCH
IDEATION: Basic and Applied

COMMERCIALIZATION
Full Commercial Deployment and Market Expansion

STAGE OF TECH DEVELOPMENT
Late Stage R&D to Commercialization

Pre-Commercialization:
- GALiNG Program
- TECHNiCOM Program

Protection
- IP Rights Assistance Program (IPRAP)
- Expanded IPRAP

Commercialization
- i-TECH Lending Program
- Expanded Venture Financing Program
- HIRANG 2.0 for Spin-offs

Promotion and Marketing
- Marketing Assistance Program (MAP)
- National / Regional Invention Contest (NICE / RICE)
- SPICE Travel Assistance Program

"Towards Market Entry"

Structures

Some PH technologies with CRI applications

Concept Prototyping

2021-2024:
- 14/23 technologies
- P1.4M (US$24K), or 64% of total funds

IBED, IBID, Testing

2011-2022:
- 46 / 82 technologies
- P17.4M (US$311K), or 40.89% of total funds

hirang 1.0

2020:
- Capacitated 7 R&D Institutes
- 12 valuation reports
- 12 signed term sheets

hirang 2.0

2024:
- 5 / 12 technologies
- Spinoffs as strict output (ongoing)

Ideation | **Precommercialization** | **Commercialization** | **Market**

GALING

Grants and Assistance to Leverage Innovations for National Growth

2023-2024:
- 18 / 27 technologies
- P2.2M (US$39K), or 68.98% of total funds

TECHNiCOM
Technology Innovation for Commercialization

2011-2019:
- 33 / 60 technologies
- P144.9M (US$2.69M), or 54.83% of total funds

2022-2024:
- 22 / 29 technologies
- P66.9M (US$1.19M), or 76.49% of total funds

Venture Financing

2015-2024:
- 25 / 74 technologies
- P30.3M (US$541K), or 40.20% of total funds

iTech

2018-2022:
- 3 / 7 technologies
- P19.3M (US$35.4M), or 54.60% of total funds

Structures

GATES Program

Geospatial Analytics and Technology Solutions

NAIS PH

National AI Strategy of the Philippines

Purpose

build a National Spatial Data Infrastructure (SDI) and enable smarter, data-driven governance

utilize AI to boost economic competitiveness, improve governance, and enhance public services in agriculture, healthcare, and disaster resilience.

Efforts

Key projects:

1. geospatial data discovery, cleansing, and standardization to create an AI-ready data architecture
2. core infrastructure, including a **Data Lakehouse** and the GATES user interface for advanced visualization
3. specific geospatial analytics interfaces, including decision-support tools and **AI chatbots** for agency-specific needs
4. policy alignment, sustainability, and ethical AI frameworks while managing capacity building and stakeholder training

P2.3B (USD39.1M) funding
113 projects

Efforts

PROPEL

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

DOST DOST-ASTI DOST-TAPI

Office of the Assistant Secretary for Technology Transfer, Communications, and Commercialization, DOST

Primary Role:
Commercialization and market acceleration of Philippine innovations.

Position in the Innovation Pipeline:
Post-R&D to pre-market / market entry

Core Focus:
Moving validated technologies toward commercial readiness
Business development, investor readiness, and industry linkage
Integration of DOST services (IP, incubation, funding, promotion)

Distinct Value Proposition:
Transforms technologies into viable enterprises and products.

Efforts

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Invention Development Division

PHITEST

Philippine Technology Evaluation and Standards for Testing

Office of the Assistant Secretary for Technology Transfer, Communications, and Commercialization, DOST

Primary Role:

Technology validation, testing, and credibility assurance.

Position in the Innovation Pipeline:

Late R&D to early commercialization (proof-of-performance stage)

Core Focus:

Scientific, technical, and functional validation
Standardized testing protocols
Alignment with national and international standards
Strengthening HEI-based innovation credibility

Distinct Value Proposition:

Transforms research outputs into trusted, evidence-based technologies

Efforts

Office of the Assistant Secretary for Technology Transfer, Communications, and Commercialization, DOST

PROJECT ASCEND

Primary Role:

System-level capacity building and institutional strengthening to enable innovation, sustainability, and inclusive development.

Position in the Innovation Ecosystem:

Enabling environment / ecosystem and policy level

Core Focus:

Institutional capacity, governance, and human capital development
Regional or national scaling
Policy reform, financing mechanisms, and cross-country knowledge transfer
Sustainability, inclusivity, and resilience

Distinct Value Proposition:

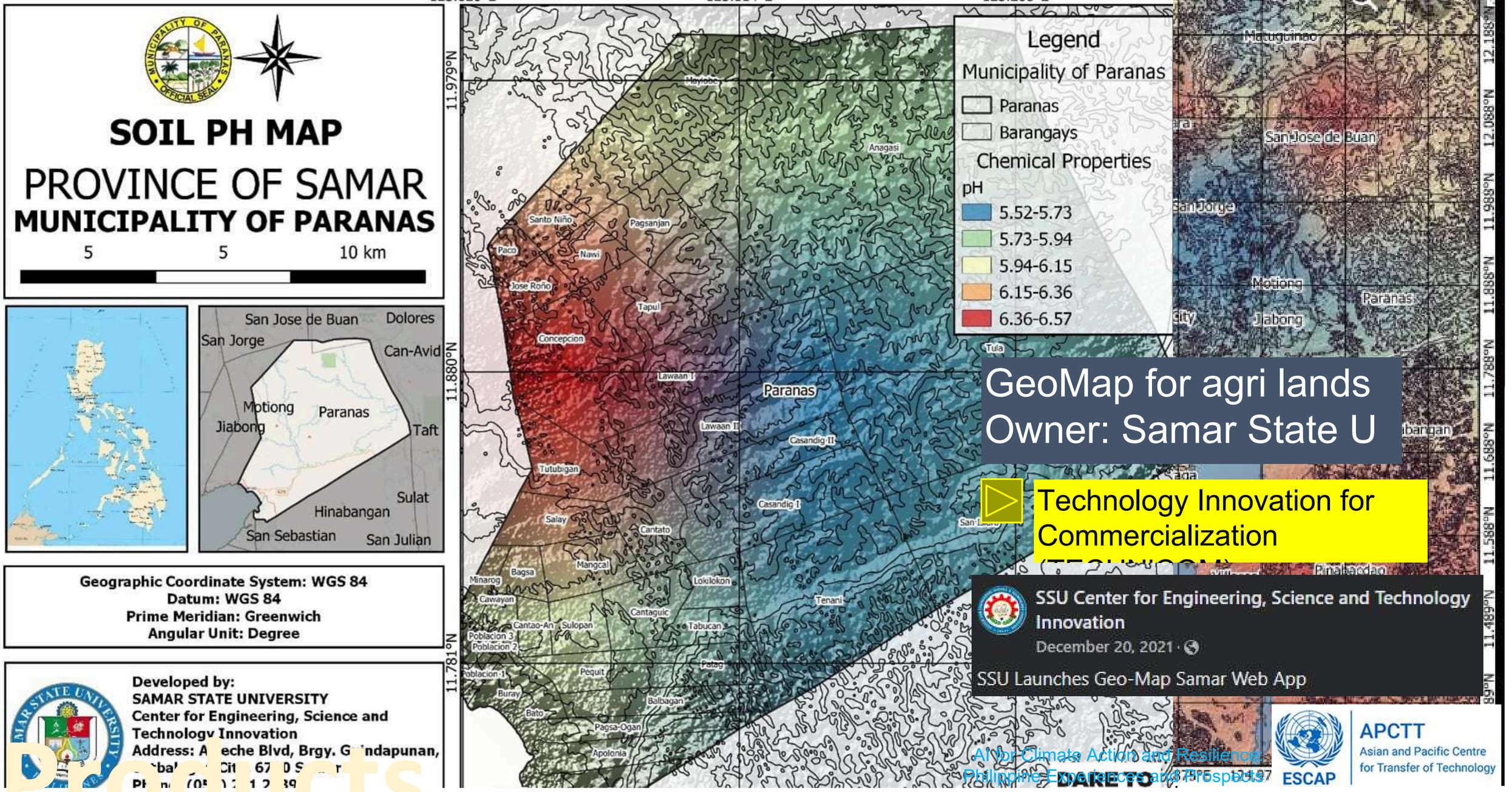
Transforms institutions and systems to sustainably support innovation and development at scale.

Efforts

Key Differences in Deliverables (Side-by-Side)

	PROPEL Accelerating Innovations in the Philippines, Propelling Innovations from the Philippines.	PHITEST Philippine Technology Evaluation and Standards for Testing	PROJECT ASCEND
Primary Output Type	Commercialization-ready innovations	Validated and credible technologies	Strengthened institutions and systems
Typical Deliverables	Business models, pitch decks, licensing agreements, market entry plans	Validation reports, test data, compliance or credibility certifications	Policy frameworks, capacity-building programs, financing and implementation models
Level of Intervention	Firm / technology / startup level	Technology / HEI / R&D level	National, sectoral, or regional level
Immediate Beneficiaries	Innovators, startups, MSMEs	HEIs, researchers, technology developers	Governments, agencies, sectors, academe, communities
Time Horizon	Short- to medium-term market outcomes	Medium-term readiness and adoption	Medium- to long-term systemic impact

Efforts


SOIL PH MAP
PROVINCE OF SAMAR
MUNICIPALITY OF PARANAS
5 5 10 km
San Jose de Buan
Dolores
San Jorge
Can-Avid
Motiong
Paranas
Jiabong
Taft
Sulat
Hinabangan
San Sebastian
San Julian
Geographic Coordinate System: WGS 84
Datum: WGS 84
Prime Meridian: Greenwich
Angular Unit: Degree
Developed by:
SAMAR STATE UNIVERSITY
Center for Engineering, Science and Technology Innovation
125.020°E
125.114°E
125.208°E
11.979°N
11.880°N
11.781°N
Legend
Municipality of Paranas
Paranas
Barangays
Chemical Properties
pH
5.52-5.73
5.73-5.94
5.94-6.15
6.15-6.36
6.36-6.57
Hayiabe
Anagasi
Santo Niño
Pagsanjan
Paco
Nawi
Jose Roño
Tapul
Concepcion
Lawaan I
Paranas
Lawaan II
Casandig II
Tutubigan
Casandig I
Salay
Cantato
Mangcal
Bagsa
Minarog
Lokilokon
Cawayan
Tenani
Cantaguic
Cantao-An
Sulopan
Tabucan
Poblacion 3
Poblacion 2
Poblacion 1
Pequit
Patag
Buray
Balbagan
Bato
Pagsa-Ogan
Apolonia
Magtuguinao
San Jose de Buan
San Jorge
Motiong
Jiabong
Paranas
City
Tula
GeoMap for agri lands
Owner: Samar State U
Technology Innovation for Commercialization
SSU Center for Engineering, Science and Technology Innovation
December 20, 2021
SSU Launches Geo-Map Samar Web App
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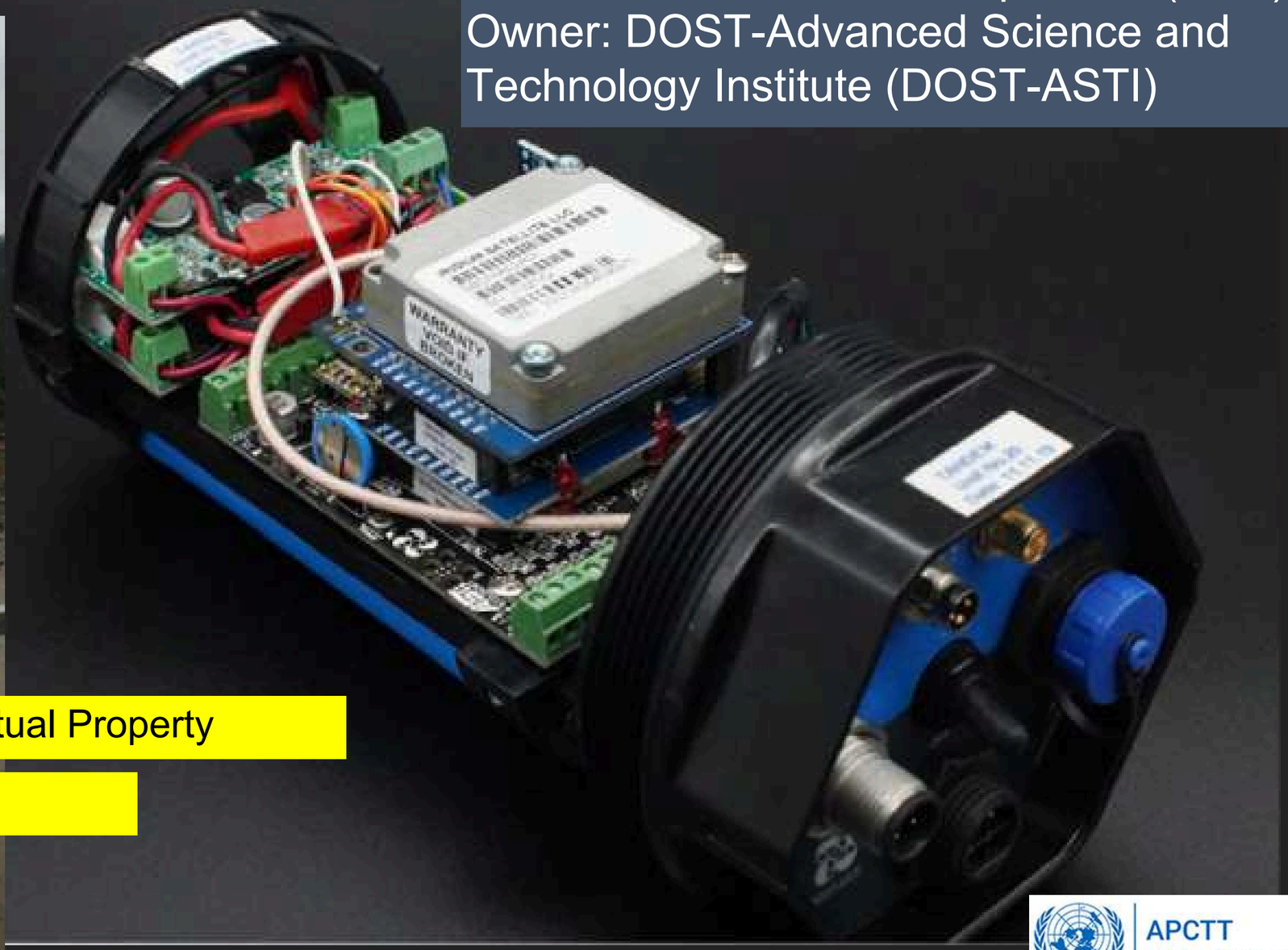
Products



Advanced remote data acquisition (aRQ)
Owner: DOST-Advanced Science and Technology Institute (DOST-ASTI)

- Intellectual Property
- IP Due
- Others

Products

HIRAYA TECH. SOLUTIONS

An advanced pressure management system that uses AI analytics to reduce non-revenue water [Hiraya Intelligent Modular Optimization (HIMO)]

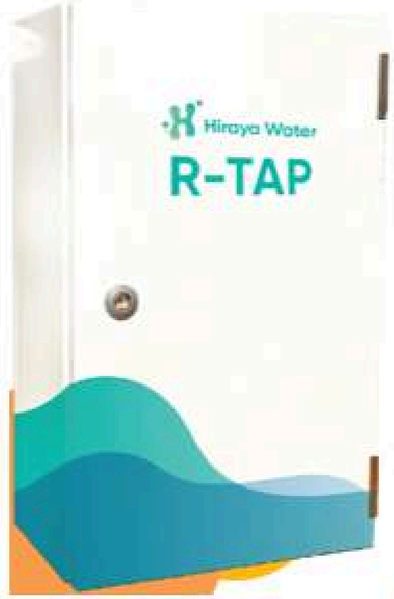
- Investment leads in USA
- On-going contracts with local water districts and service provides
- Expansion plans to related industries

SPICE Program
International Exhibition and Market Entry :
1. Consumer Electronics Show (CES) 2025
2. World Invent Singapore 2024

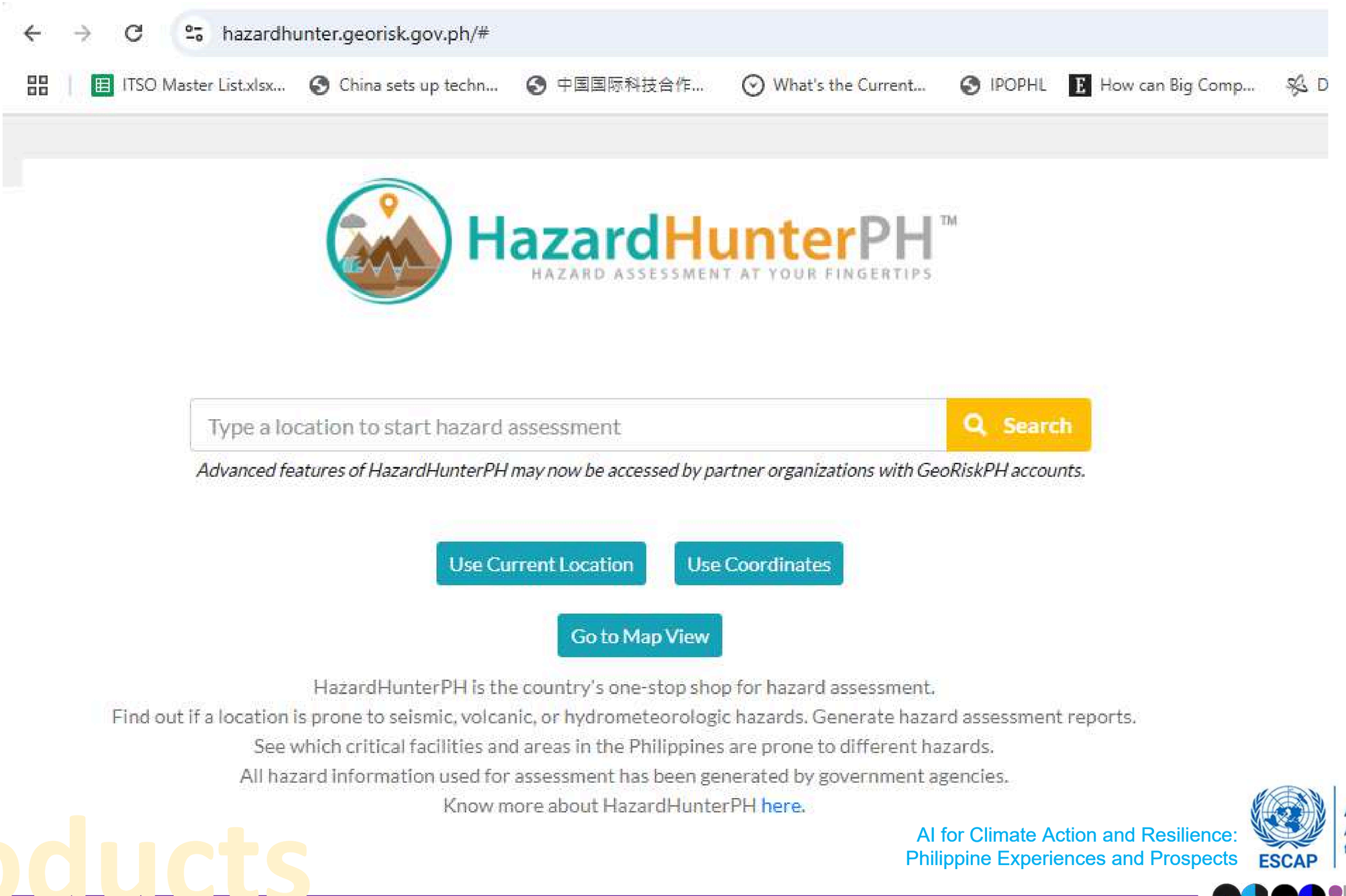
Expanded Venture Financing
Local Market Entry and Expansion – tapping new markets for expansion

TECHNiCOM Program
Scaling of Operation: Field and Market Testing to Different Water Service Providers in the Philippines

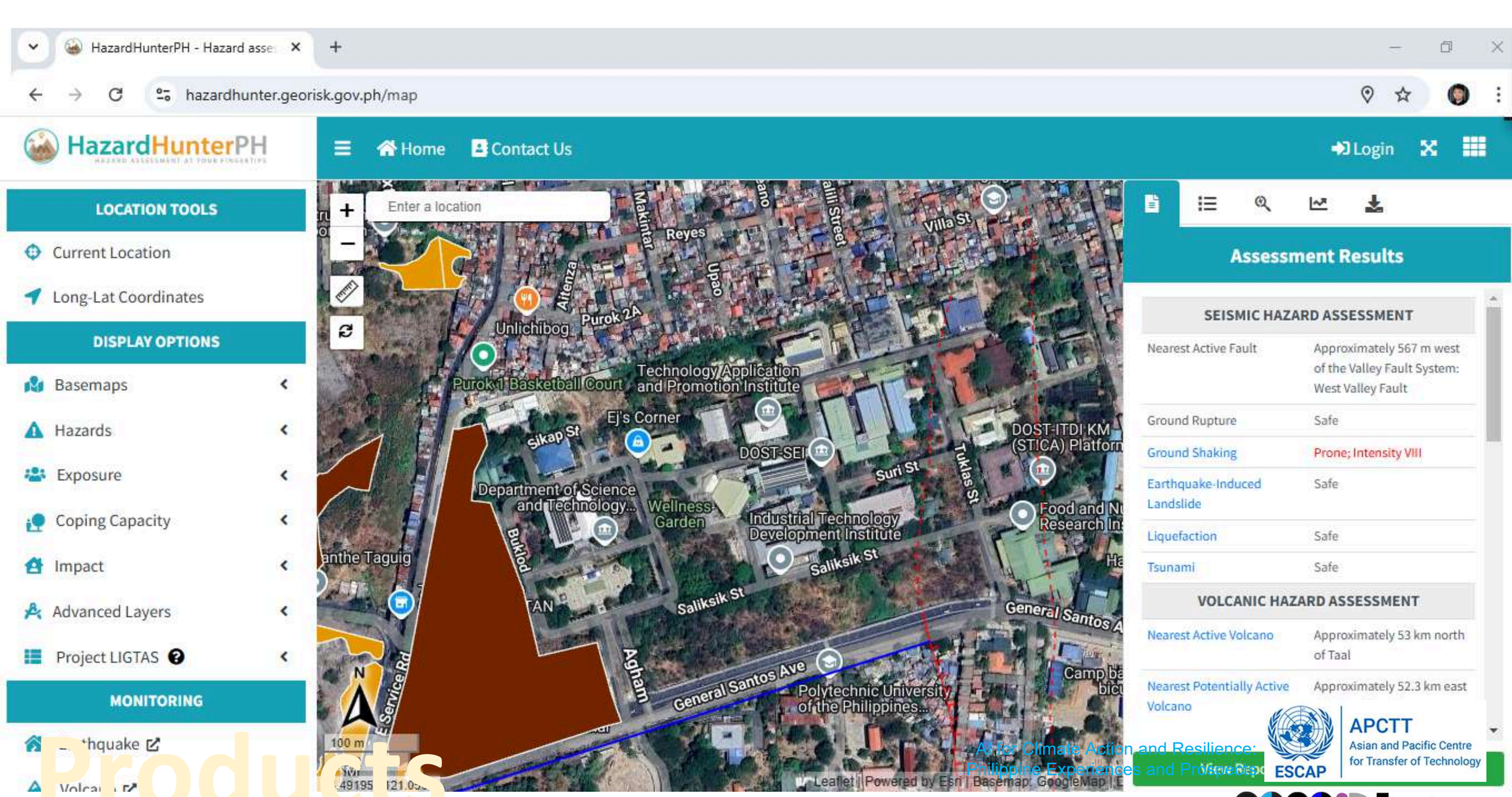
GALING Program
IMPROVEMENT OF PROTOTYPE: Commercial prototyping of an invention



Products


hazardhunter.georisk.gov.ph/#
ITSO Master List.xlsx...
China sets up techn...
中国国际科技合作...
What's the Current...
IPOPHL
How can Big Comp...
HazardHunterPH™
HAZARD ASSESSMENT AT YOUR FINGERTIPS
Type a location to start hazard assessment
Search
Advanced features of HazardHunterPH may now be accessed by partner organizations with GeoRiskPH accounts.
Use Current Location
Use Coordinates
Go to Map View
HazardHunterPH is the country's one-stop shop for hazard assessment.
Find out if a location is prone to seismic, volcanic, or hydrometeorologic hazards. Generate hazard assessment reports.
See which critical facilities and areas in the Philippines are prone to different hazards.
All hazard information used for assessment has been generated by government agencies.
Know more about HazardHunterPH here.

Products



Products

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DEPARTMENT SCIENCE AND TECHNOLOGY

2024 HANDA PILIPINAS:

INNOVATIONS IN CLIMATE AND DISASTER RESILIENCE

MASID TECHNOLOGIES

The ASTI-developed Technologies for Meteorological Data Acquisition Stations for Information Dissemination (MASID) consist of locally-developed weather monitoring and warning stations collectively known as PhilSensors. These PhilSensors were designed to automatically gather on-site weather data and alert communities during approaching disasters. Collected data are recorded near-to-real time on the PhilSensors website for public use.

Among these PhilSensors are the Automated Weather Station (AWS), Automated Rain Gauge (ARG), Water Level Monitoring Station (WLMS), Water Level and Rain Monitoring Station (WRMS, also known as Tandem), Agrometeorological Station (AGROMET), Flood Early Warning Station (FEWS), Community Tsunami Alerting Station (CTAS), and Meteorological Buoy Station (Metbuoy).

ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE

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info@asti.dost.gov.ph

www.asti.dost.gov.ph

MASID

PhilSensors

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DEPARTMENT SCIENCE AND TECHNOLOGY

2024 HANDA PILIPINAS:

INNOVATIONS IN CLIMATE AND DISASTER RESILIENCE

KOOHA

Kooha is an Android application empowering users to collect real-time participatory photo and sensor data using smartphones and other mobile devices. Named after the Filipino word "kuha," meaning capture, this tool aims to foster public participation in data collection, thereby generating a wealth of real-time data for various applications. The gathered data can then be used to create new knowledge and yield actionable insights across multiple sectors, including environmental monitoring in Disaster Risk Reduction and Management (DRRM).

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kooha

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DYNASLOPE PROJECT

The Dynaslope Project is a research program focused on developing an early warning system for deep-seated and catastrophic landslides. Our goal is to contribute to the landslide resilience of Filipino communities.

We achieve this by building the capacities of our partner communities and local government units to develop and implement a people-centered early warning system.

REDAS

RAPID EARTHQUAKE DAMAGE ASSESSMENTS SYSTEM

HazardHunterPH™

HAZARD ASSESSMENT AT YOUR FINGERTIPS

CHANGING THE GAME IN HAZARDS ASSESSMENT AND MONITORING

PlanSmart

Ready to Rebuild

VolcanoPH iNFO

DEPARTMENT SCIENCE AND TECHNOLOGY

BAGONG PILIPINAS

2024 HANDA PILIPINAS:

INNOVATIONS IN CLIMATE AND DISASTER RESILIENCE

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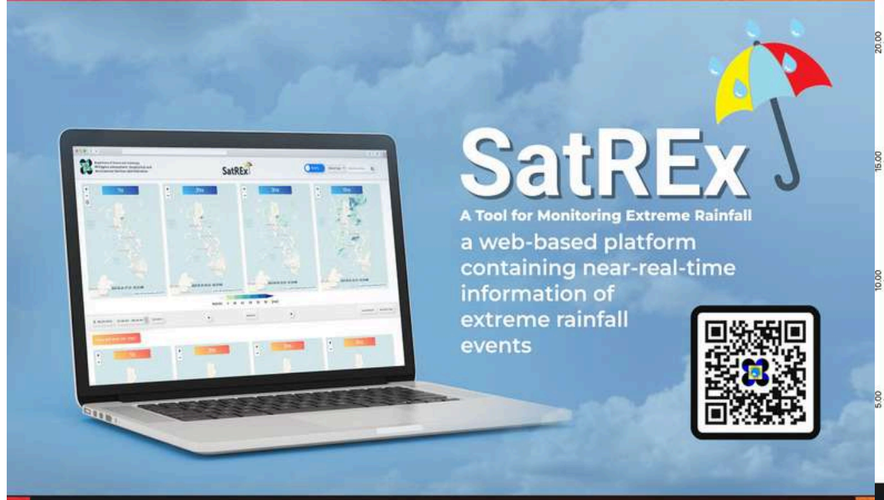
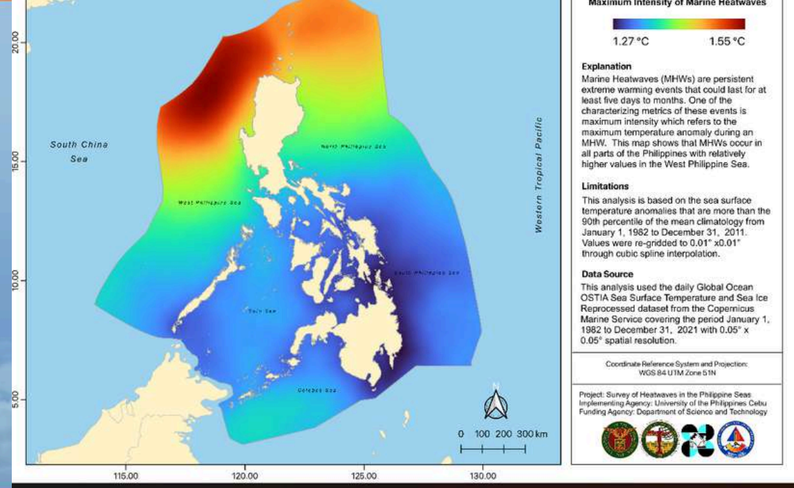
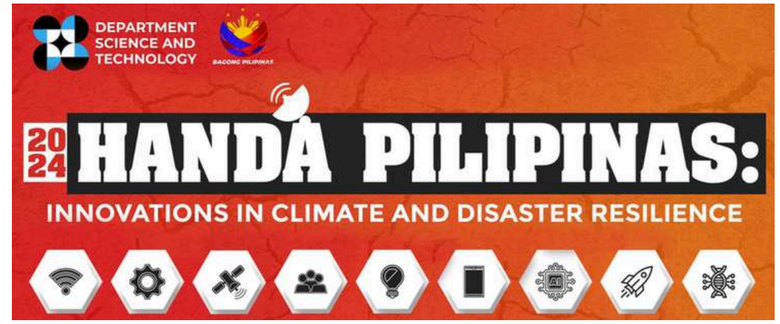
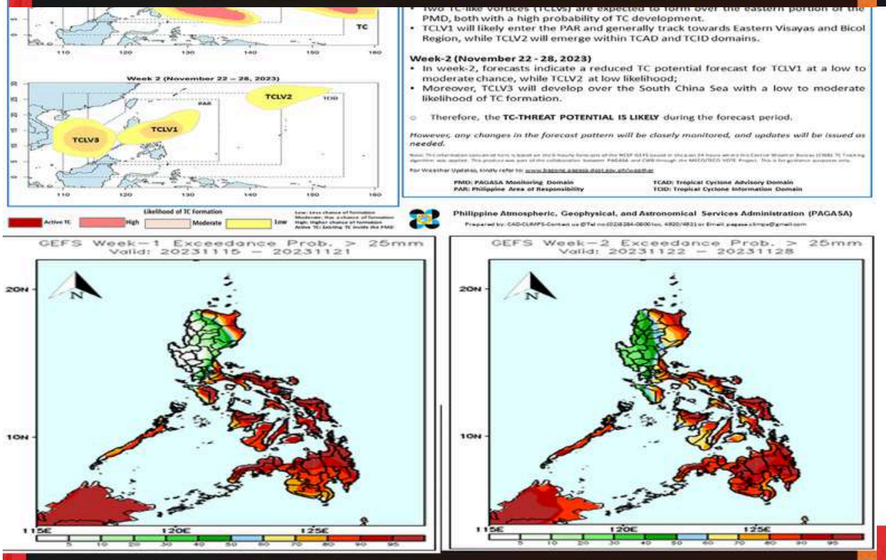




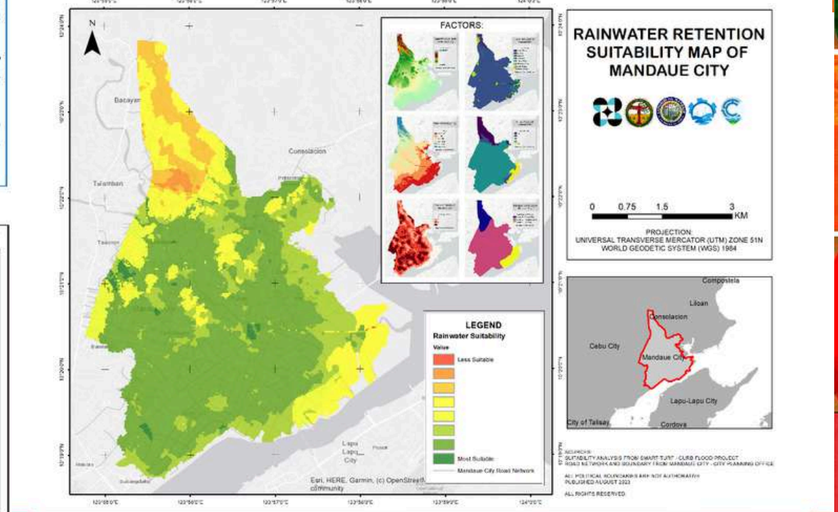


SATELLITE-BASED MONITORING OF RANFALL EXTREME

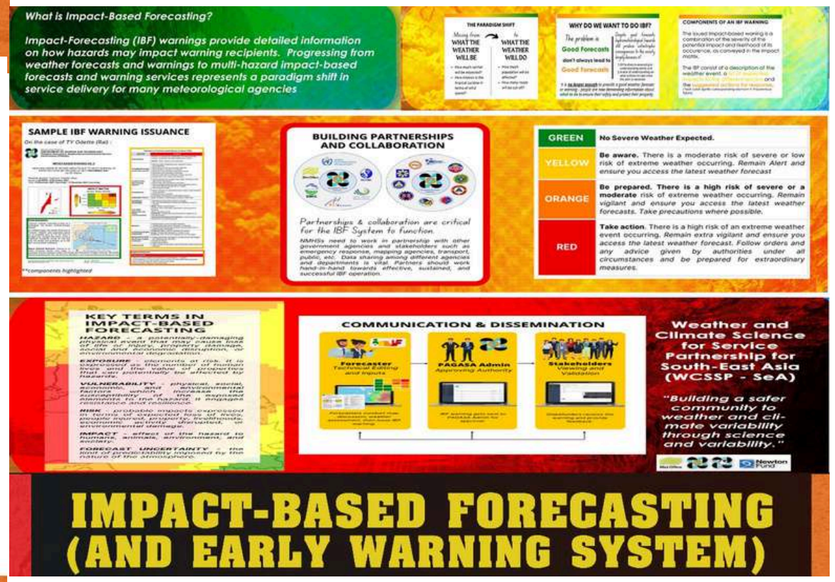


S2S FORECAST

Survey of Heatwaves in the Philippine Seas (SHIPS)



SMART-TUrF Program City-Wide Urban Flood Modeling (CURB Flood) Project



IMPACT-BASED FORECASTING (AND EARLY WARNING SYSTEM)

Products

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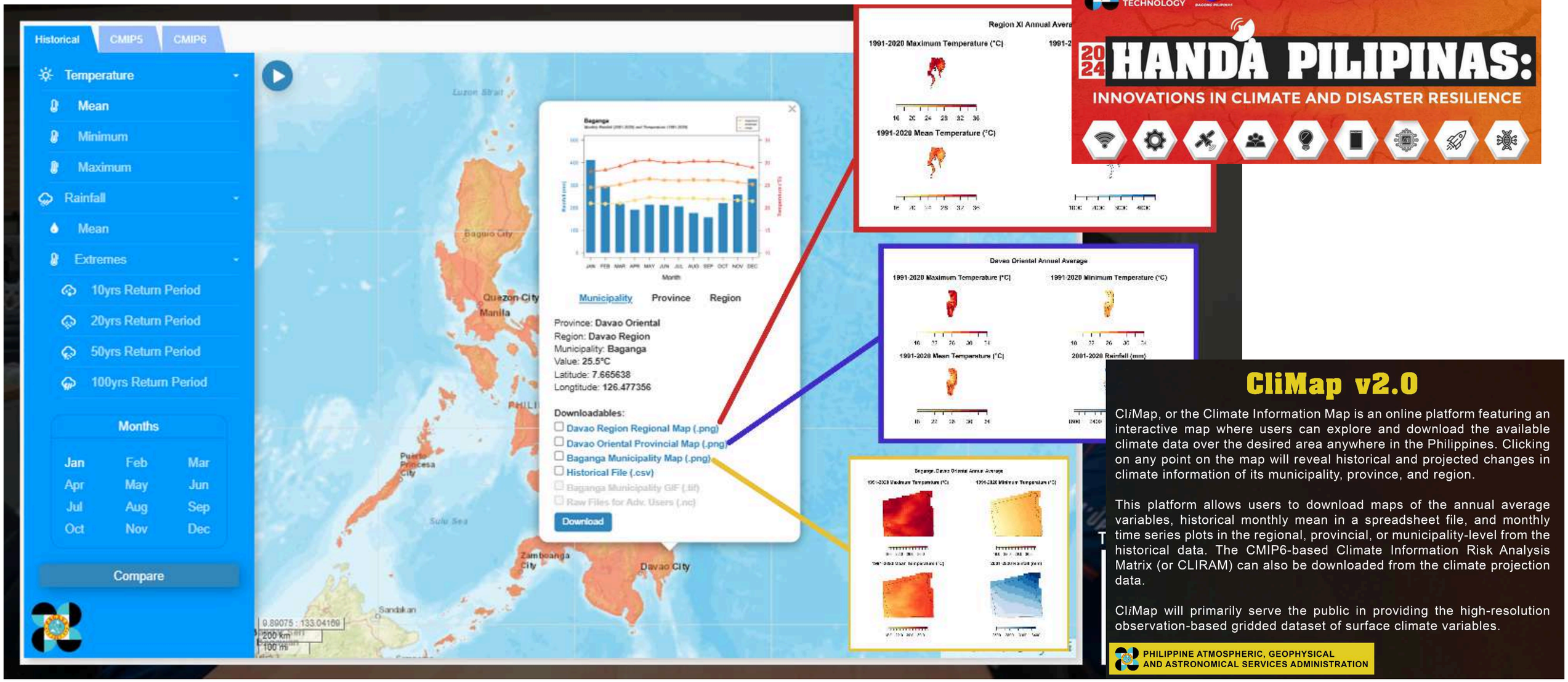

DEPARTMENT SCIENCE AND TECHNOLOGY

BAGONG PILIPINAS

2024 HANDA PILIPINAS:

INNOVATIONS IN CLIMATE AND DISASTER RESILIENCE

CliMap v2.0

CliMap, or the Climate Information Map is an online platform featuring an interactive map where users can explore and download the available climate data over the desired area anywhere in the Philippines. Clicking on any point on the map will reveal historical and projected changes in climate information of its municipality, province, and region.

This platform allows users to download maps of the annual average variables, historical monthly mean in a spreadsheet file, and monthly time series plots in the regional, provincial, or municipality-level from the historical data. The CMIP6-based Climate Information Risk Analysis Matrix (or CLIRAM) can also be downloaded from the climate projection data.

CliMap will primarily serve the public in providing the high-resolution observation-based gridded dataset of surface climate variables.

PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION

Products

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2024 HANDA PILIPINAS:

INNOVATIONS IN CLIMATE AND DISASTER RESILIENCE

LIGHTNING DETECTION SY

DOST-PAGASA introduces the new Lightning Alert Sy operational use at the Ninoy Aquino International Airport t the safety of airport crew and passengers, as well as airc other facilities.

It monitors threatening lightning strikes from a reference poin using state-of-the-art equipment to monitor any lightning within the aerodome and issue corresponding lightning aler or Red alert.

The system sends critical information to NAIA Managem Airport operations unit to aid their decision-making whether continue monitoring or halt airport operations during thun activities to ensure the safety of ground personnel and airline passengers.

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Our one-stop shop: DOST's Techub portal

techub.dost.gov.ph

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List of Technologies Produced

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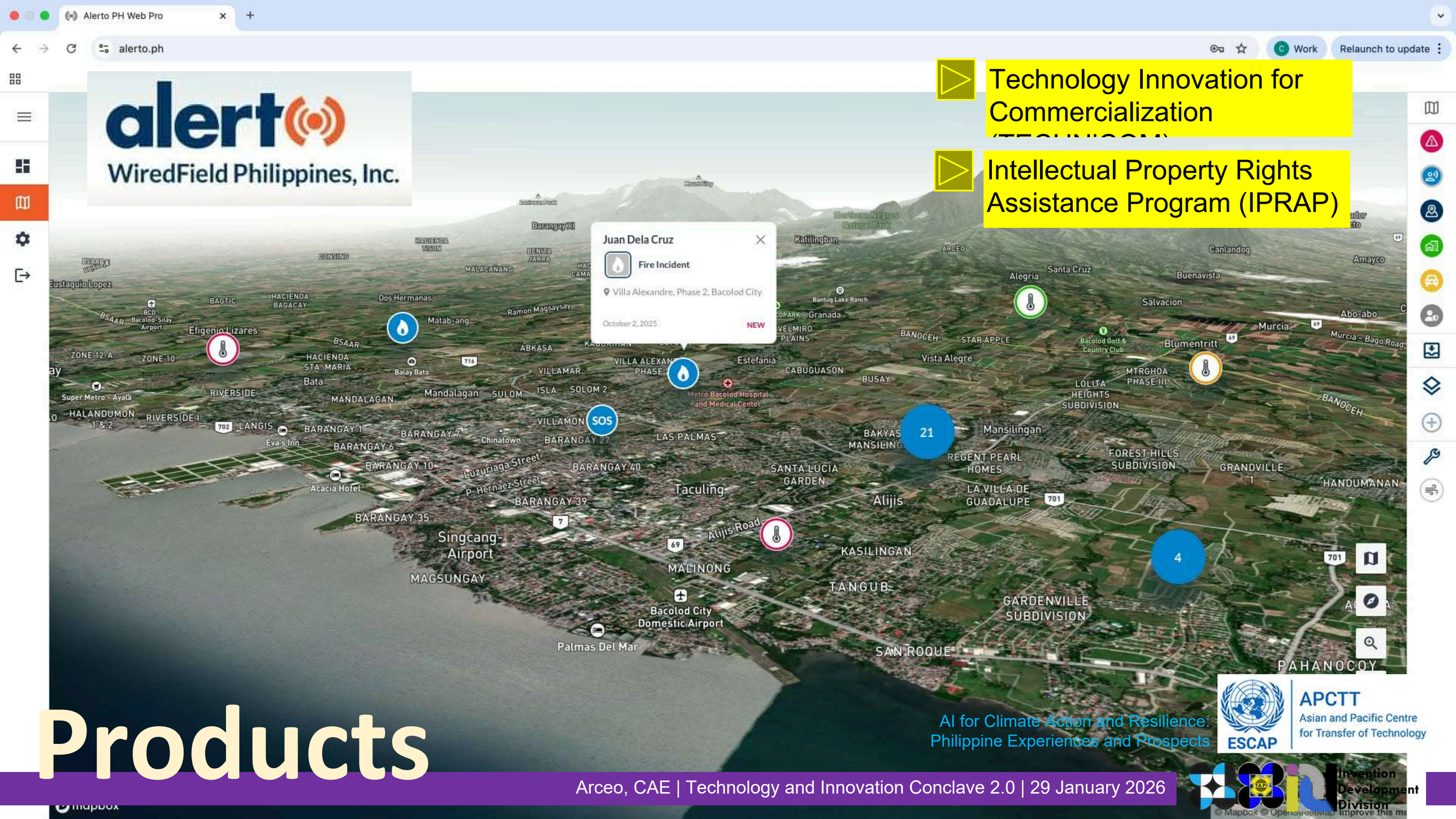
Alerto PH Web Pro
alerto.ph
Work
Relaunch to update
alert
WiredField Philippines, Inc.
Technology Innovation for Commercialization
Intellectual Property Rights Assistance Program (IPRAP)
Juan Dela Cruz
Fire Incident
Villa Alexandre, Phase 2, Bacolod City
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Work

- Technology Innovation for Commercialization
- Intellectual Property Rights Assistance Program (IPRAP)

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OUR MISSION

We empower companies to build a culture of environmental responsibility for their employees.

Products

To the beyond…

Slow but still (sort of) at par with our neighbors.

Socio-political aspects.

Procurement process (for government).

PH Technology Transfer Act.

AI for Climate Action and Resilience: Philippine Experiences and Prospects

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