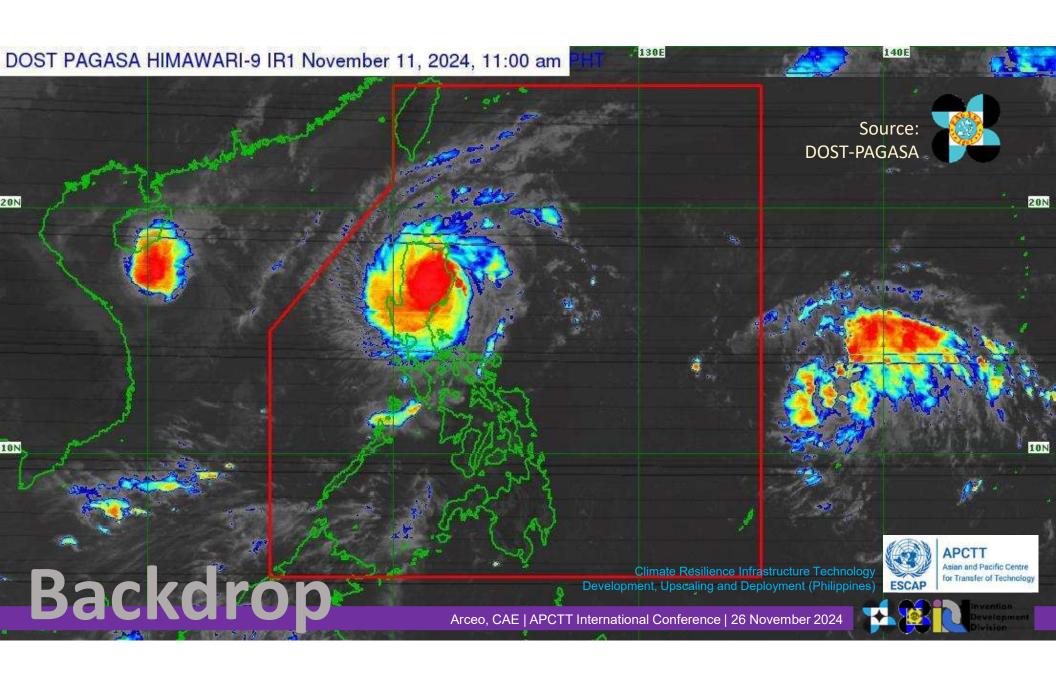
Climate Resilience Infrastructure Technology Development, Upscaling and Deployment: Philippine Experiences and Prospects

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

International Conference on Technologies for Climate Resilience Infrastructure 26 November 2024 | Via MSTeams







Some PH investments (2024)





Department of Finance

At least P1 billion (US\$16.9 million)



National Irrigation Administration

P70.2 trillion (US\$1.19 billion)



Climate Change Commission

P94.6 million (US\$1.6 million)



National Housing Authority

P2.68 billion (US\$45.5 million)







Some PH investments (2024)



National Disaster Risk Reduction and Management

For aid, relief and rehabilitation

P20.5 billion (US\$347.8 million)

Quick Response Fund

P7.9 billion (US\$134 million)

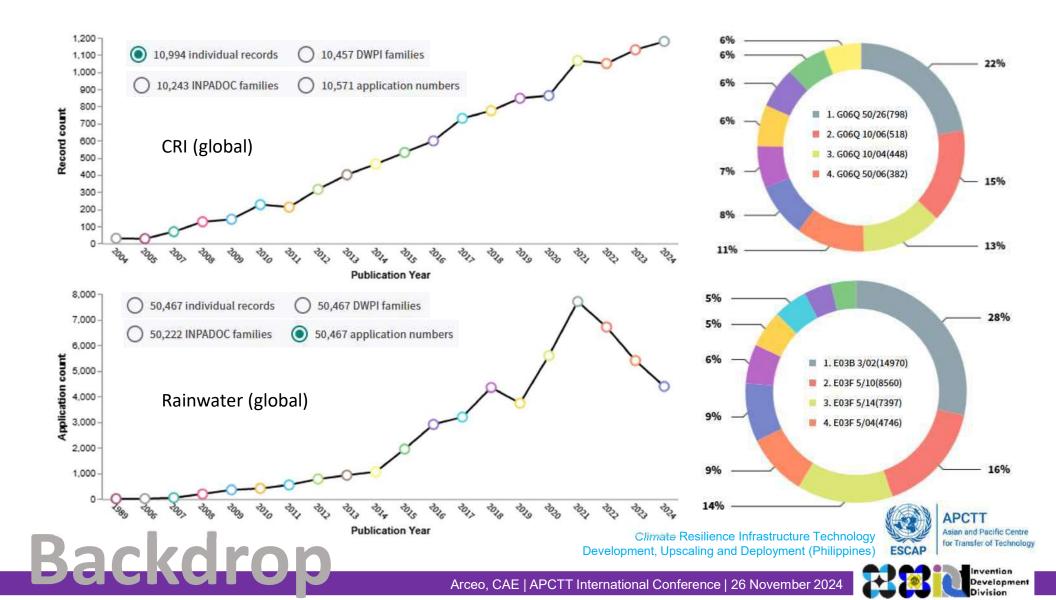
DA - OSEC	P	1,000,000,000
DepEd - OSEC		3,000,000,000
DOH - OSEC		500,000,000
DILG - BFP		50,000,000
DILG - PNP		50,000,000
DND - OCD		500,000,000
DPWH - OSEC		1,000,000,000
DSWD - OSEC		1,750,000,000
DOTr - PCG	<u> </u>	75,000,000
TOTAL	P	7,925,000,000

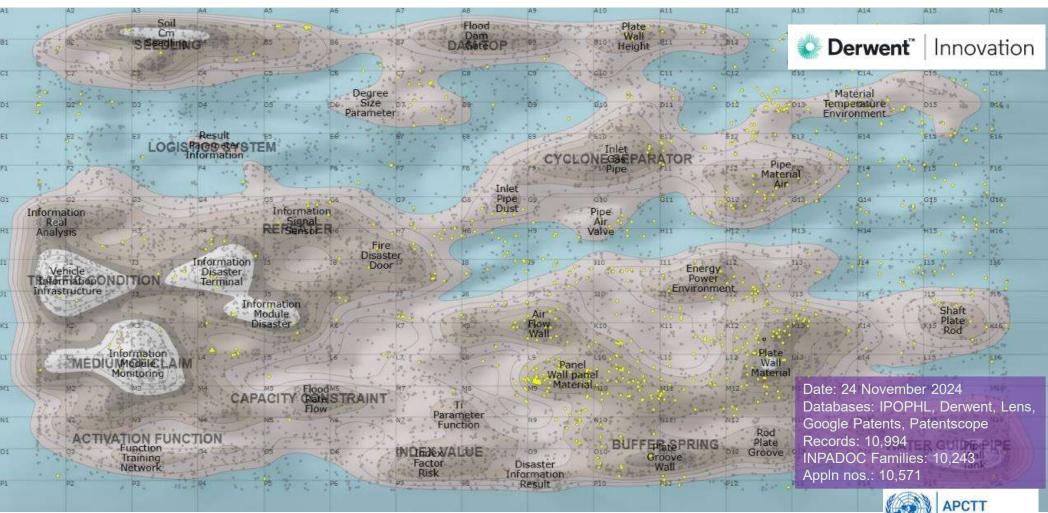








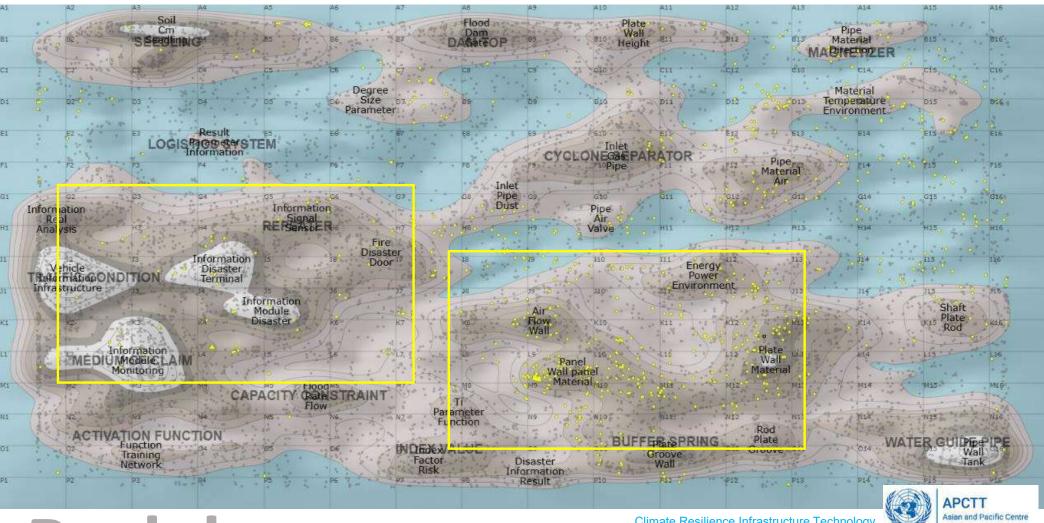




Backdrop



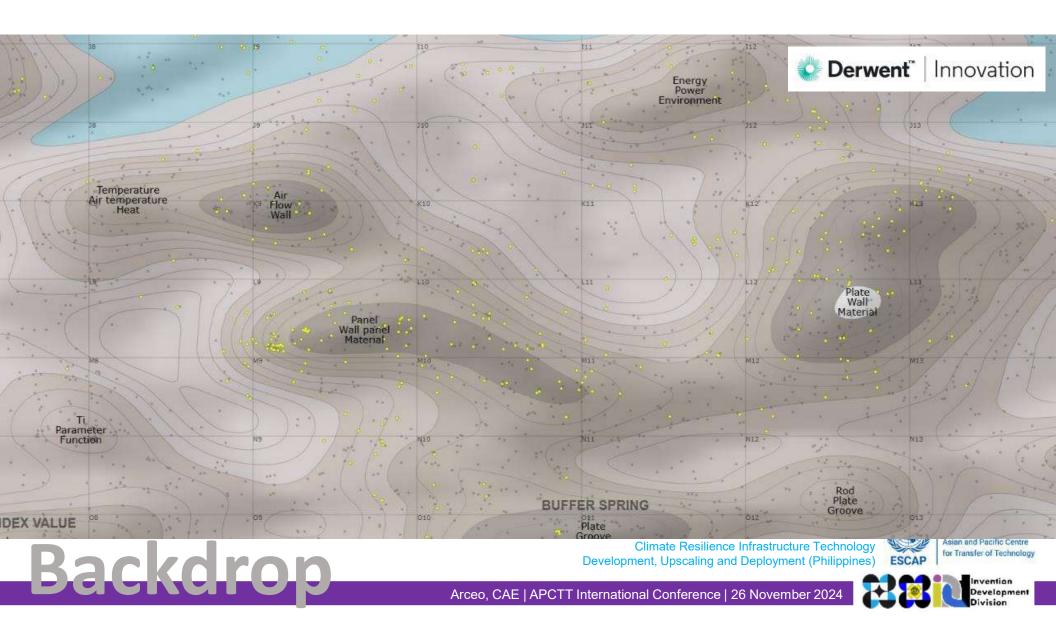


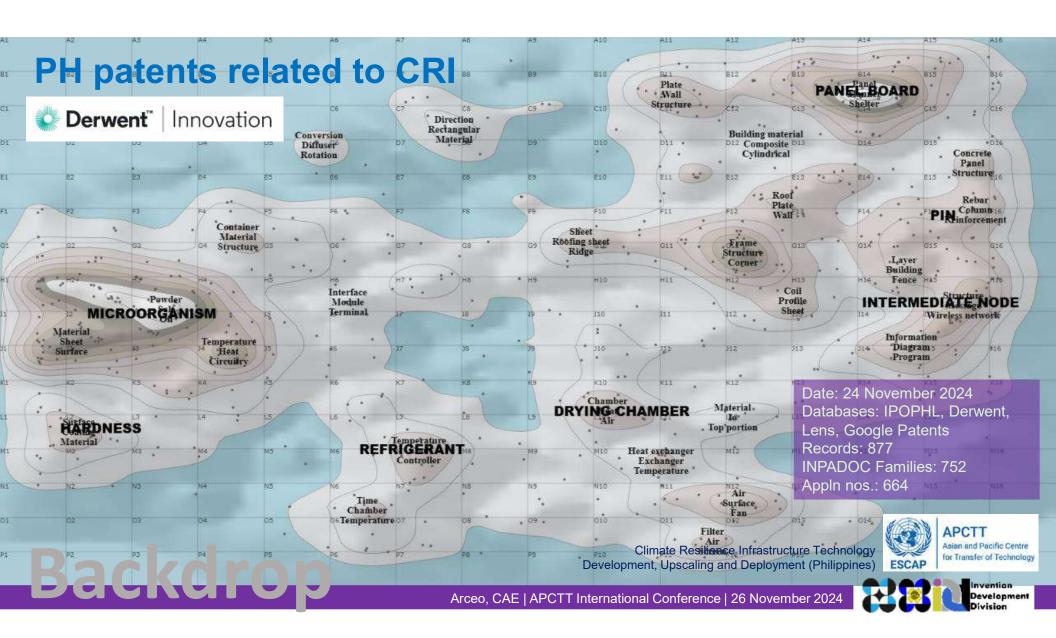




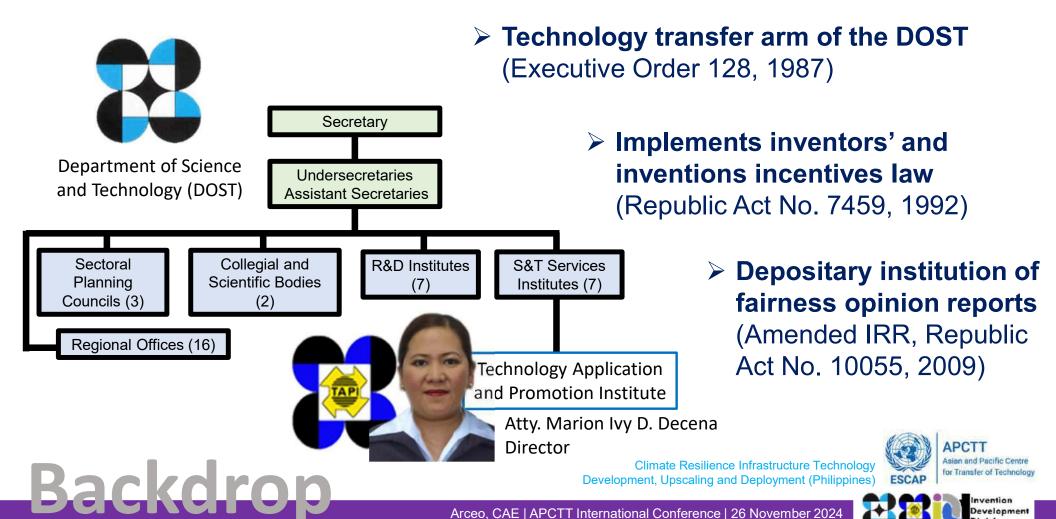


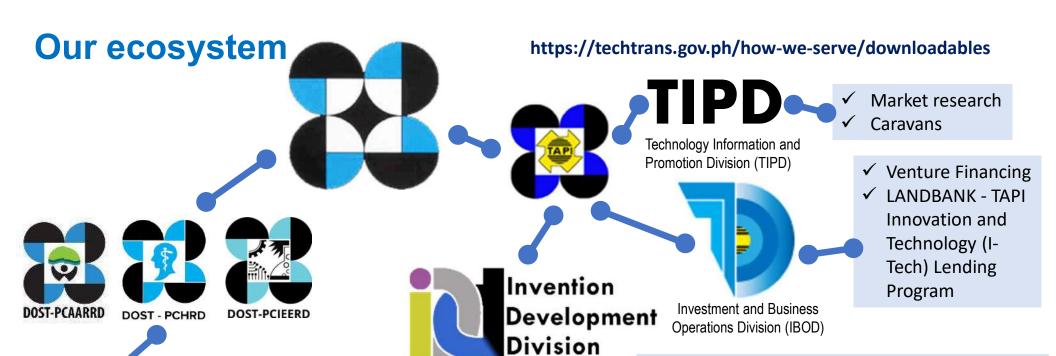




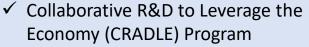


Who we are









✓ Business Innovation through S&T (BIST) for Industry Program ✓ GALING (formerly Testing, Concept-Proto, IBID, IBED)

- Technology Innovation and Commercialization (TECHNiCOM)
- ✓ IPR and Expanded IPR Assistance Programs
- ✓ Invent School Program







COUNTRY'S FIRST-EVER ADVANCED FREEDOM-TO OPERATE TRAINING ONGOING

28 June 2019

The Technology Application and Promotion Institute of the Department of Science and Technology (DOST-TAPI) conducting the first ever Advanced Freedom-to-Operate Training and presently being held at the Dusit Thani Manila, Ma 28 June 2019. The training is in collaboration with the Swedish Patent and Registration Office (PRV).

The two-day live-in training is an event being organized by the DOST through TAPI under the project entitled "Su Commercialization of 500 DOST Generated Technologies & Strengthening the Country's Intellectual Property &



https://www.linkedin.com/pulse/certified-patent-valuation-analyst-philippines-david-wanetick/



Certified Patent Valuation Analyst in the Philippines







September 6, 2018















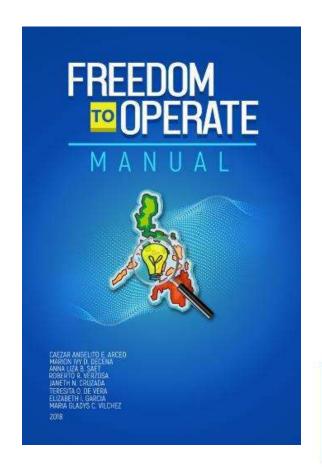


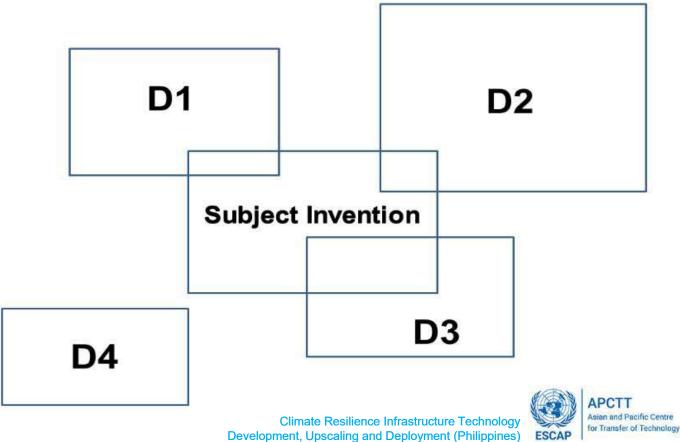






© 2018 by Caezar AE. Arceo In-House Patent Seminar on FTO and Design Practice Workshop for the Sapalo Velez Bundang & Bulilan







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



2020:

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



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







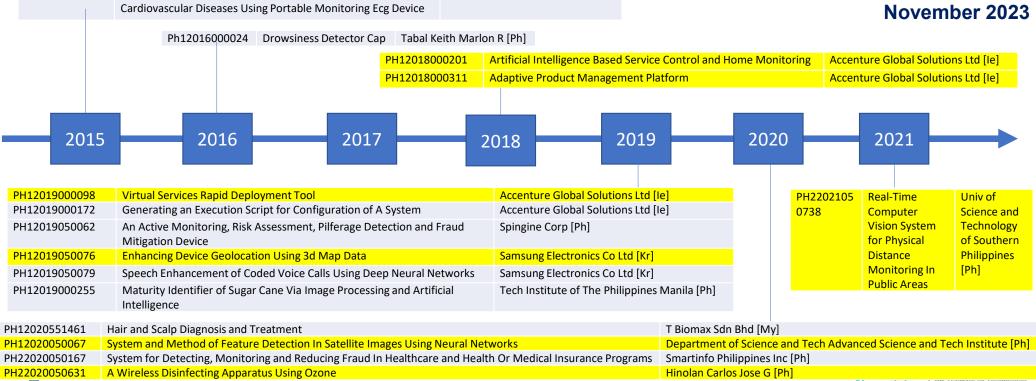
Some AI patents from PH

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]



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

Arceo, CAE. Al Asia Expo,08 November 2023



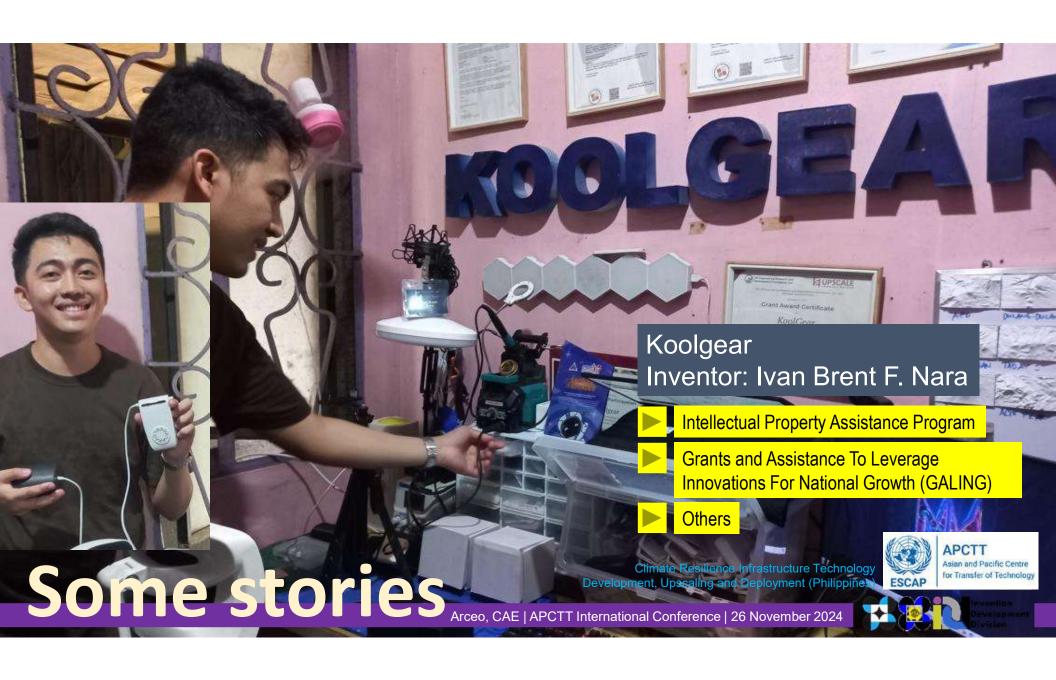
Development, Upscaling and Deployment (Philippines)

ESCAP

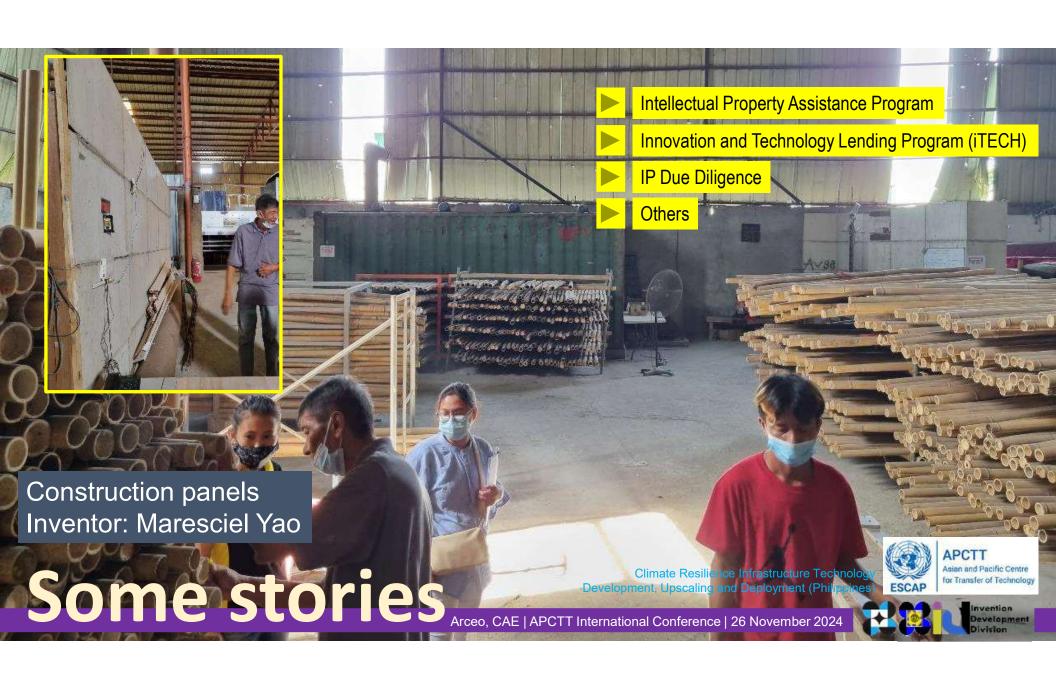
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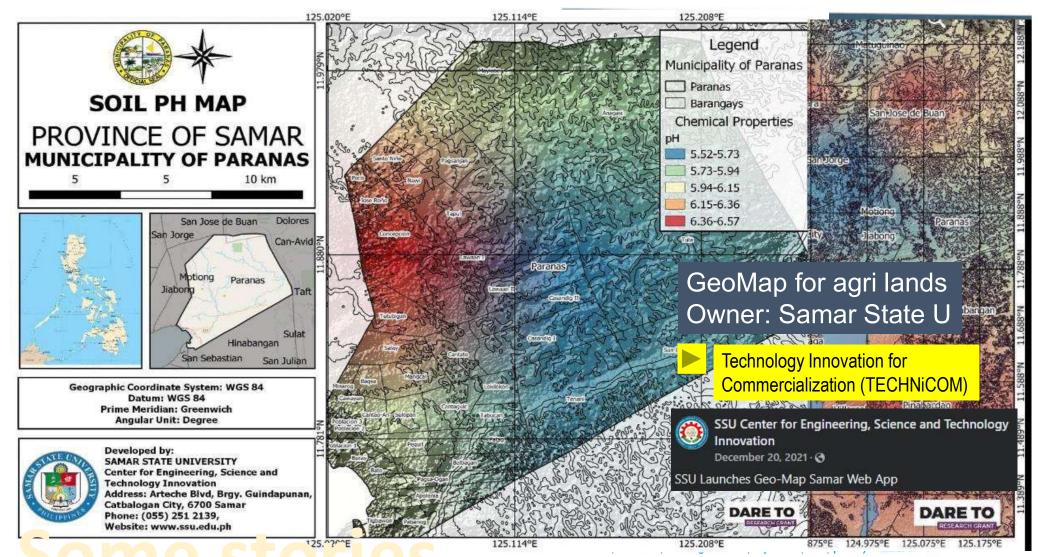


























Type a location to start hazard assessment

Q 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.

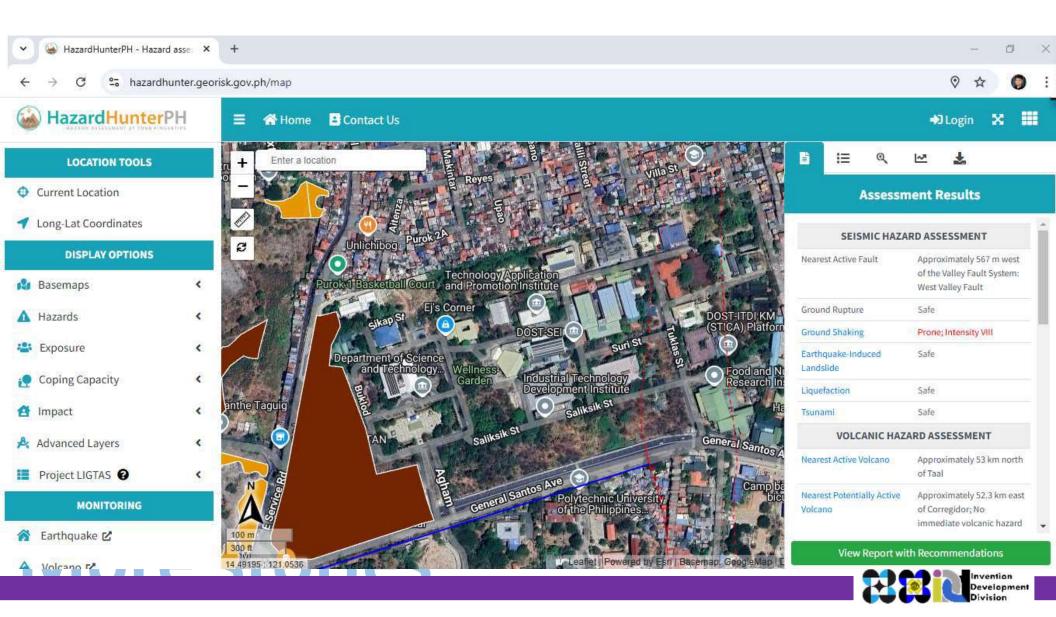
All hazard information used for assessment has been generated by government agencies.

Know more about HazardHunterPH here.

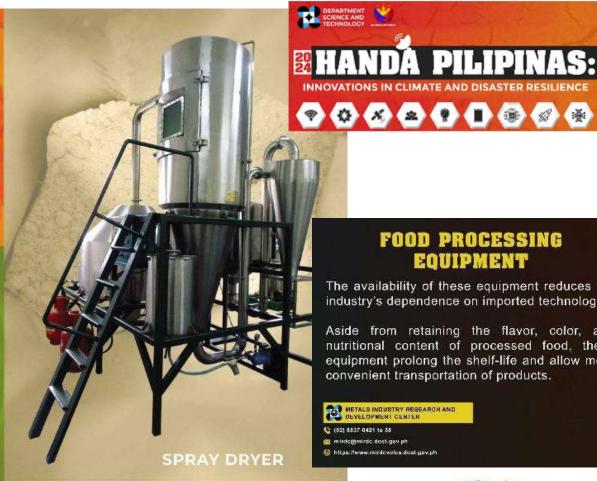














The availability of these equipment reduces the industry's dependence on imported technologies.

Aside from retaining the flavor, color, and nutritional content of processed food, these equipment prolong the shelf-life and allow more convenient transportation of products.

METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

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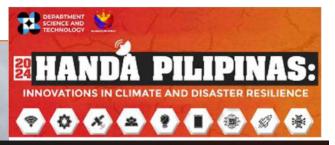












REIINNDRROPS

REIINNDRROPS proposes to build upon the gains from the Resilient Education Information Infrastructure for the New Normal (REIINN) by utilizing REIINN's technology demonstrators to cover four Disaster Risk Reduction and Management (DRRM) aspects: disaster prevention and mitigation, preparedness, response, rehabilitation and recovery. While REIINN is originally geared towards narrowing the digital divide, there is an opportunity for its core technologies, LokalFi and RuralCasting, to be reconfigured as interventions that addresses the need for an alternative and complementary communication channel when conventional communication infrastructures fail during calamities. REIINNDRROPS is intended to be robust and can be readily deployed in times of emergencies and disasters.

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



APCTT
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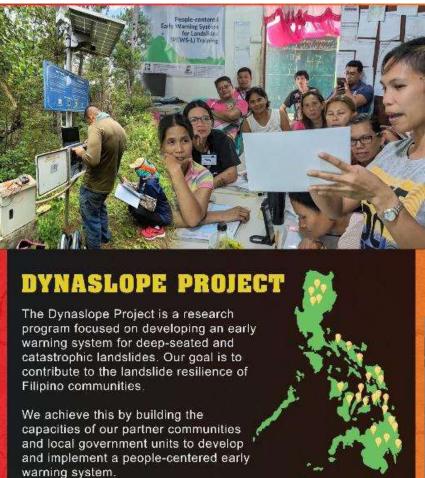


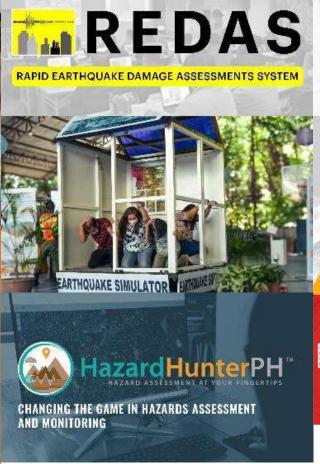


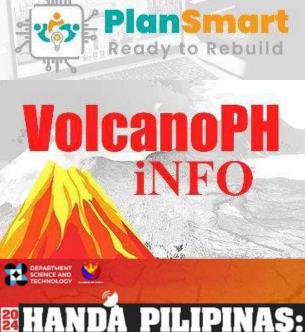








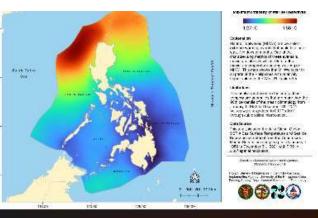




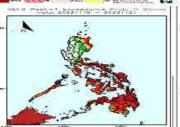


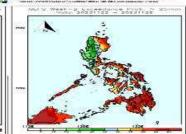




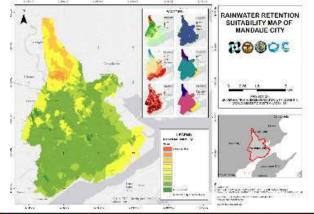








Survey of Heatwaves in the Philippine Seas (SHIPS)



SMART-TUrF Program City-Wide Urban Flood Modeling limate Resilience Infrastructure Technology (CURB Flood) Projectelopment, Upscaling and Deployment (Philippines)



S2S FORECAST













Latest Added Technologies

View More











List of Technologies Produced











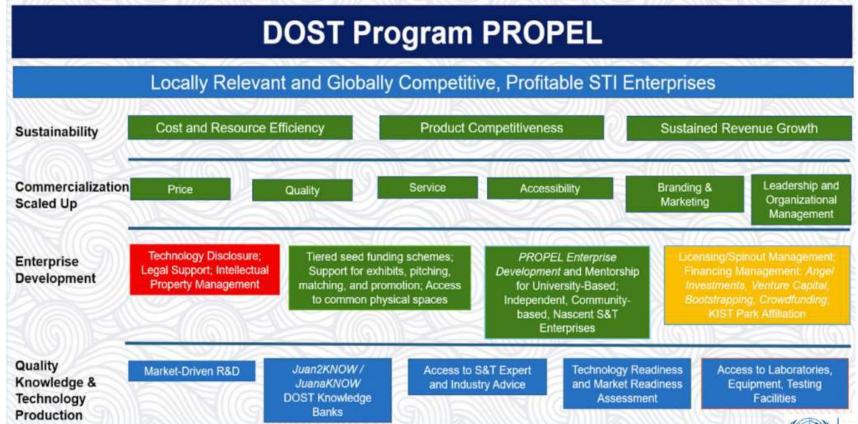
APCTT
Asian and Pacific Centre
for Transfer of Technology







New program









To the beyond...

At least 60% of IP-protected technologies have CRI applications

Socio-political aspects

Procurement process (for government)

PH Technology Transfer Act









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