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# NEWS ALERTS

STRATEGIC COMMUNICATION AND INITIATIVES SERVICE



## New DENR order gives teeth to environmental law enforcement

Published June 21, 2021, 5:54 PM

by [Ellson Quismorio](#)

The Department of Environment and Natural Resources (DENR) has taken a major step toward strengthening environmental law enforcement in the country.



DENR Secretary Roy Cimatu answers questions from reporters during the agency's anniversary celebration last June 10, 2021 (Screengrab from Zoom meeting)

This, after DENR Secretary Roy A. Cimatu signed an administrative order for the establishment of the Environmental Law Enforcement and Protection Service (ELEPS).

"We have a growing number of fallen environmental heroes. This is how serious we do our jobs here at DENR, but I hope and pray that no more lives will be lost because of defending our environment," Cimatu said during the DENR's 34th founding anniversary celebration on June 10.

The ELEPS will serve as an interim service while the DENR awaits the approval of the proposed Environmental Protection and Enforcement Bureau (EPEB) bill that was filed in the Senate and House of Representatives.

Through ELEPS, enforcement officers will be able to conduct intelligence operations, issue notices of appearance for investigation, as well as implement cease and desist orders, closure orders, and notices of violation, and DENR enforcement orders for in flagrante violations, among others.

Under the DENR administrative order, ELEPS will cover "all environmental laws as enumerated in the Supreme Court Rules of Procedure for Environmental Cases involving enforcement or violations of environmental and natural resources laws, rules and regulations," such as Terrestrial Laws,



## New DENR order gives teeth to environmental law enforcement

Coastal, Marine, and Aquatic Resources Laws, Aerial Law, and other Environment and Natural Resources Laws.

ELEPS was created as a defined authority that will promote effective and strong enforcement of environmental laws, establish coordinative mechanisms, utilize science and technology, and develop highly competent manpower that will encompass existing enforcement units, such as the Environmental Protection and Enforcement Task Force (EPETF), Philippine Operations Group on Ivory and Illegal Wildlife (POGI), and other enforcement task forces of the DENR.

Among its several functions, ELEPS has end-to-end duties—from the enforcement, stoppage of ongoing violations, arrest, management of confiscated items, investigation, preparation for prosecution of environmental criminals until execution of decisions by the court.

ELEPS will also coordinate with the Department of Justice (DOJ), the Philippine National Police (PNP), Armed Forces of the Philippines (AFP), National Bureau of Investigation (NBI), and government-owned and controlled organizations to aid in the prevention and fight against environmental crimes.

Cimatu has directed DENR Undersecretary for Enforcement Benito de Leon to provide capacity building and enforcement trainings to the enforcement officers. However, the agency will not issue firearms to the officers pending the approval of the EPEB bill.



## DENR bumuo ng pansamantalang environmental law enforcement office



June 21, 2021 @ 4:53 PM 15 hours ago

MANILA, Philippines – Upang mapalakas ang environmental law enforcement sa bansa nilagdaan ni Department of Environment and Natural Resources (DENR) Secretary Roy A. Cimatu ang administrative order na magtatatag ng Environmental Law Enforcement and Protection Service (ELEPS).

Sa isang press release sinabi ng DENR ang ELEPS ay binuo kasunod ng Environmental Protection and Enforcement Task Force (EPETF) sa ilalim ng direksiyon ni Cimatu. Ito ay magsisilbing pansamantalang tanggapan habang hinihintay ng DENR ang pag-apruba sa iminungkahing Environmental Protection and Enforcement Bureau (EPEB) bill na nakahain sa senado at mababang kapulungan ng kongreso.

“We have a growing number of fallen environmental heroes. This is how serious we do our jobs here at DENR, but I hope and pray that no more lives will be lost because of defending our environment,” saad ni Cimatu sa DENR’s 34th founding anniversary celebration noong Hunyo 10.

“Our Department has many laws to implement, but we are lacking when it comes to enforcement. While we are waiting for the passage of EPEB, our secretary has allowed to craft this order to install an enforcement service for the effective protection of our forests and other natural resources,” sabi naman ni DENR Undersecretary for Policy, Planning, ang International Affairs Jonas R. Leones.

Ayon sa ulat sa ilalim ng DENR administrative order, sakop ng ELEPS ang lahat ng environmental laws na nakasaad sa Supreme Court Rules of Procedure for Environmental Cases kabilang na dito ang enforcement o violations of environmental and natural resources laws, rules and regulations, tulad ng Terrestrial Laws, Coastal, Marine, and Aquatic Resources Laws, Aerial Law at iba pang Environment and Natural Resources Laws.



## DENR bumuo ng pansamantalang environmental law enforcement office

Sinabi ng DENR ang ELEPS ay binuo upang “promote effective and strong enforcement of environmental laws, establish coordinative mechanisms, utilize science and technology, and develop highly competent manpower that will encompass existing enforcement units, such as the EPETF, Philippine Operations Group on Ivory and Illegal Wildlife (POGI), and other enforcement task forces of the DENR.”

Dahil na rin sa napakalaking sakop at tungkulin mula sa EPETF, ang enforcement units ng DENR regional offices, Mines and Geosciences Bureau, Environmental Management Bureau, Protected Area Management Office, Provincial Environment and Natural Resources Offices, at Community Environment and Natural Resources Offices ay sasailalim sa operational control ng ELEPS at ng supervising officials nito.

Ang DENR bureaus at attached agencies ay magpapanatili ng koordinasyon sa ELEPS sa pakikipagugnayan sa national at international organizations na lumalaban sa environmental crimes.

Manggagaling sa DENR Central Office ang lead team ng ELEPS upang maging akma ang daily operations nito.

Kabilang sa mga functions ng ELEPS ang end-to-end duties—from the enforcement, stoppage of ongoing violations, arrest, management of confiscated items, investigation, preparation for prosecution of environmental criminals until execution of decisions by the court.”

Makikipagtulungan din ang ELEPS sa Department of Justice, Philippine National Police, National Bureau of Investigation, at government-owned and controlled organizations upang mahadlangan at labanan ang environmental crimes.

Plano ring bigyan ng armas ang enforcement officers na ilalaan ng ahensiya, self-protective gears at buuin ang kakayahan ng mga ito upang epektibong magampanan ang kanilang tungkulin.

Sa pamamagitan ng ELEPS ang enforcement officers ay maaaring magsagawa ng: “intelligence operations, issue show cause orders or notices of appearance for investigation, as well as implement Cease and Desist Orders, Closure Orders, and Notices of Violation, and DENR Enforcement Orders for in flagrante violations, among others.” *Santi Celario*



## DENR arming own enforcers vs wildlife poachers, loggers

By: [Jhesset O. Enano](#) - Reporter / [@JhessetEnanoINQ](#)  
[Philippine Daily Inquirer](#) / 04:58 AM June 21, 2021



DANGEROUS PLACE The Philippines remains among the most dangerous countries for environmental defenders, according to Global Witness. Calls to arm forest rangers have been met with concern by environment groups. — PHOTO FROM COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE-REAL

MANILA, Philippines — While Congress is deliberating on several bills creating a permanent agency to enforce environmental laws, especially against wildlife poaching and illegal logging, the Department of Environment and Natural Resources (DENR) has formed an interim office to perform such crucial function.

“Our department has many laws to implement, but we are lacking when it comes to enforcement,” Environment Undersecretary Jonas Leones said in a statement on Sunday.

### Armed officers

A DENR administrative order, which was signed by Environment Secretary Roy Cimatu last week, established the Environmental Law Enforcement and Protection Service (Eleps) and aimed to strengthen the implementation of environmental laws in the country. The office will be under the environment chief.

Eleps will arm its officers to enforce all environment and natural resources laws, and coordinate with other law enforcement agencies, such as the Department of Justice, the Philippine National Police, the Armed Forces of the Philippines and the National Bureau of Investigation.

The DENR said the scope and function of the new unit would be bigger and wider than those of the current Environmental Protection and Enforcement Task Force, including operational control of enforcement units of the department’s regional, provincial, and community offices and bureaus.

“Through Eleps, enforcement officers will be able to conduct intelligence operations, issue notices of appearance for investigation, as well as implement cease-and-desist orders, closure orders and notices of violations,” the DENR statement said.



## DENR arming own enforcers vs wildlife poachers, loggers

Several bills calling for the creation of a permanent enforcement bureau under the DENR are pending in both chambers of Congress. These gained ground following the murders of several government environment workers and forest rangers in recent years.

In March, the House committees on government reorganization and on natural resources jointly heard four measures, namely House Bills Nos. 6973, 7873, 7670, and 8028, that seek the creation of the Environmental Protection and Enforcement Bureau (Epeb).

### Forensic lab, training

Under HB No. 6973, authored by Deputy Speaker Loren Legarda, the proposed agency is expected to establish a forensic laboratory, as well as an environment and natural resources law enforcement academy which will be responsible for the recruitment, development and conduct of basic and advanced environmental law enforcement training courses.

It may issue cease-and-desist orders even without judicial orders. Those who assault or intimidate environmental law officers and deputies will be charged under the Revised Penal Code.

In the Senate, two counterpart bills on the Epeb creation have been filed by Senators Nancy Binay and Ramon Revilla Jr.

Cimatu has expressed support for the measures, saying the bureau would establish a strong institution to focus on going after environmental law violators, like wildlife poachers and illegal loggers.

The Philippines remains among the most dangerous countries in the world for environmental defenders, according to conflict and corruption watchdog Global Witness.

### Slain green defenders

Its latest report showed the country as the deadliest in Asia for land and environmental defenders in 2019, with 43 persons killed, including land defenders, activists, and state government workers.

Environment groups, however, expressed concern over calls to arm forest rangers, saying this could lead to abuse.

The government should instead look into the drivers of environmental crimes, such as corruption and poverty, said Kalikasan People's Network for the Environment.

Readmore: <https://newsinfo.inquirer.net/1448616/denr-arming-own-enforcers-vs-wildlife-poachers-loggers#ixzz6ySlpLEol>

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## Manila Bay Phase 1 beach nourishment 80% complete, waters fit for fishing — DENR exec

Published June 21, 2021 12:19pm

The first phase of the beach nourishment project in Manila Bay is already 80% complete and the waters are now "fit for fishing," an official of the Department of Environment and Natural Resources said.

"Unti-unti na po nating nakikita ang resulta ng ating pinaghirapan sa pagsasaayos at pagpapaganda ng ating Manila Bay. 80% na pong kumpleto ang phase 1 beach nourishment project," DENR Undersecretary Benny Antiporda said in a Facebook post last week, according to a report by Corinne Catibayan on GMA News' Unang Balita on Monday.

(We are already seeing little by little the results of the rehabilitation and beautification of Manila Bay. The phase 1 of the beach nourishment project is now 80% complete.)

Antiporda added that the water quality has improved after the fecal coliform bacteria level has gone down to 142 most probable number per 100 ML (MPN/100ML). This means the waters are "fit for fishing."

"Bukod pa rito, mula sa milyon-milyong fecal coliform bacteria (o bacteria na nakukuha sa dumi ng tao), ay bumaba na po i to sa 142 MPN /100ML, kung kaya't fit for fishing na po i to," he said.

(Aside from this, from the millions of fecal coliform bacteria or the bacteria from human waste, the level has gone down to 142 MPN/100ML, that is why it is now fit for fishing.)

The DENR said it hopes to [complete phase 1 in July](#).

Meanwhile, construction is still ongoing at the dolomite artificial beach in the area, which already [has rock formations](#).



Personnel from the Department of Environment and Natural Resources (DENR) and bloggers set foot on the dolomite beach at Manila Bay near the US Embassy along Roxas Boulevard in Manila following the visit of DENR Secretary Roy Cimatu for a tree-planting activity on Wednesday, June 16, 2021. The beach now has rock formations. DANNY PATA





## Manila Bay Phase 1 beach nourishment 80% complete, waters fit for fishing — DENR exec

However, by the shoreline, trash were seen on Monday morning.

Critics earlier slammed the government for constructing the P389-M dolomite artificial beach during the COVID-19 pandemic. Environmentalists also claimed the dolomite would pose a health hazard.

The DENR however said the project was approved by Congress in 2019 and went through competitive bidding. It also said dolomite is "[not detrimental to the ecosystems of Manila Bay](#)". Crushed dolomite "does not pose a threat to human health because it is not inhalable," the DENR said. — KG, GMA News



## Phase 1 ng Manila Bay beach nourishment, 80% complete-- Antiporda

Hunyo 21, 2021 5:00pm GMT+08:00

Malapit nang makompleto ang unang bahagi ng beach nourishment project sa Manila Bay na layong malinis at mapaganda ang lugar.

"Unti-unti na po nating nakikita ang resulta ng ating pinaghirapan sa pagsasaayos at pagpapaganda ng ating Manila Bay," ayon kay Department of Environment and Natural Resources (DENR) Undersecretary Benny Antiporda, sa ulat ni Corinne Catibayan sa GMA News' Unang Balita nitong Lunes.

Dagdag pa ng opisyal sa kaniyang Facebook post, "80% na pong kumpleto ang phase 1 beach nourishment project."

Ayon kay Antiporda bumuti na ang water quality sa lugar matapos na maibaba ang fecal coliform bacteria level sa 142 most probable number per 100 ML (MPN/100ML).

Ang naturang antas ng kalidad ng tubig ay pasado na sa ligtas na pangingisda.

"Bukod pa rito, mula sa milyon-milyong fecal coliform bacteria (o bacteria na nakukuha sa dumi ng tao), ay bumaba na po ito sa 142 MPN/100ML, kung kaya't fit for fishing na po ito," paliwanag niya.

Inaasahan na makompleto ang phase 1 ng proyekto sa susunod na buwan.

Bukod sa paglilinis ng tubig ng dagat, patuloy din ang pagpapaganda ng lugar na tinatambakan ng dolomite artificial beach na may rock formation.

Kamakailan lang, binisita ng mga opisyal ng DENR sa pangunguna ni Roy Cimatu, ang naturang lugar sa Manila Bay na malapit sa US Embassy sa Roxas Boulevard sa Manila.

Bukod sa paglalagay ng mga dolomite, ilang puno rin ng niyog ang itinanim sa lugar.

Gayunman, kapansin-pansin pa rin ang mga basura na napapadpad sa baybayin kung saan isinasagawa ang bahagi ng proyekto. —FRJ, GMA



**Cenro Sta Cruz** is with **Marilou Valdenarro** and **15 others**.

11h · 🌐



See: [Solidarity with Philippine Environment Month Celebration](#)

The former President Corazon C. Aquino declared that the month of June is the "Philippine Environment Month" in effect of Proclamation No. 237 with date 4th April year 1988. It aims to give each one their time and effort towards protecting, improving and developing the environment and natural resources of our country.

In solidarity with the said celebration, CENRO Sta. Cruz, a partner of the Local Government of Siniloan, conducted a Clean-up and Tree Planting Activity in the town of Siniloan on 18 June 2021.

First, the staff of CENRO Sta planted 300 Molave (*Vitex parviflora*) and Narra (*Pterocarpus indicus forma indicus*). Cruz, Local Government of Siniloan, and Striking Force-Siniloan at CY 2015 National Greening Program (NGP) 50 ha. Indigenous Plantation located in Brgy. Magsaysay, Siniloan, Laguna The said NGP site is also one of the initiatives of CENRO Sta. Cruz to increase the survival rate by carrying out maintenance and protection activities such as replanting, fertilizers application, leavening, and fertilizing.

In fact, since November 2020, a total of 3,587 seeds of indigenous trees have been planted in the said NGP site and a total of 2.10 ha of the size that was planted. 3/4 participants from the Local Government of Siniloan, MENRO Siniloan, Member of the 4 Ps in Siniloan, Youth Council (SK) Siniloan, PNP Laguna, PGFNRO Laguna, Malvar Transport Cooperative, Gamma Epsilon Fraternity, and the staff of DENR CALABARZON, PENRO Laguna, and CENRO Sta. Cruz.

Second, along with Tree Planting Activity, also conducted a Clean-up Activity at Romelo River in Brgy. Wawa, Siniloan, Laguna. 25 sacks or 104 kilos of garbage (21 kg-rolling, 76 kg non-biodegradable, and 7 kg residual) were collected in the said activity.

Romelo river leads the number of Coliform in Laguna's 3th and 4th districts. That's why MBSCMO Laguna decided to clean this river for the continuous rehabilitation of Manila Bay this year.

Come, Come, Come, Let's Protect and Care for Mother Nature, DENR CENRO Sta is with you. Cruz

[#PhilippineEnvironmentMonth2021](#)

[#TayoAngKalikasan](#)

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## Maling pagtatapon ng ginamit na facemask, sobrang delikado

ni [Bong Revilla](#) - @Anak ng Teteng | June 21, 2021

Napakahalaga nang panawagan ng Department of Environment and Natural Resources (DENR) hinggil sa tamang pagtatapon ng ginamit na facemask dahil sa nasa 10 hanggang 15% ng hinahakot na basura araw-araw ay facemask at iba pang medical waste.

Kapansin-pansing sa mga lansangan, partikular sa maruruming lugar ay naglipana ang mga itinapong gamit na facemask at tila ordinaryo na lamang at hindi na alintana ng marami ang napakadelikadong dulot nito sa mas marami nating kababayan.

Ayon sa mga eksperto malaki ang negatibong epekto kung hindi maisasaayos ang tamang pagtatapon ng mga medical waste, partikular ang facemask hindi lamang sa kapaligiran kung hindi maging sa kaligtasan ng ating mga kababayan.

Ipinaliwanag pa ng DENR na malaking banta rin umano ang hindi tamang pagtatapon ng facemask sa kaligtasan ng mga hayop, lalo na sa karagatan kung saan ay hindi na mabilang ang dami ng nakakalat na facemask hanggang sa pinakamalalim na bahagi kapiling ng mga isda.

Dahil sa mga facemask ay parang nakalagay sa hukay ang isang paa ng mga humahakot ng basura dahil sa posible silang mahawa sa COVID-19 habang inaangkat ang mga basura mula sa iba't ibang tahanan na kanilang pinaglilingkuran.

Malaki rin ang posibilidad na ang pagtaas ng dami ng basura mula sa ginamit na facemask ay pagmulan rin ng virus at makawa sa mas marami at maging dahilan para maantala ang pagsugpo natin laban sa pandemyang ito.

Alam ninyo bang dahil sa kawalan natin ng disipilina, ang Pilipinas ay nasa top three producer ng plastic waste na itinatapon sa mga karagatan at ngayon ay nadagdagan pa ng gamit na facemask.

Halos buong mundo ang nagrereklamo laban sa pagkakalat natin sa mga karagatan kasunod ng mga China at Indonesia, ngunit taliwas ito sa ulat na inilabas ng global coalition na Break Free from Plastics na ang tunay na salarin ng malaking plastic pollution sa Asia ay ang multinational companies ng Europe at United States.

Dahil umano ito sa pangunguna ng mass producers ng mga inumin at food products, gamot, personal health aids at sigarilyo na ikinakalat umano sa 51 bansa at 43 porsiyento ng mga nakokolektang basura ay may tatak ng malalaking consumer brands.



## Maling pagtatapon ng ginamit na facemask, sobrang delikado

Ang plastic packaging na ginagamit sa shampoo na ibinibenta sa Southeast Asia ang nakikitang pinakadelikado at ngayon ay nadagdagan pa ito ng mabilis na pagtaas ng dami ng naangkat na basura mula sa facemask.

Mabuti at nangako na ang mga beverage giants tulad ng Coca Cola, Pepsico at Nestle na ang lahat ng kanilang produkto ay gagawing recyclable, reusable at compostable ang kanilang packaging pagsapit pa ng 2025.

May ilang miyembro naman ng Alliance to End Plastic Wastes ang nangakong gagastos ng \$1.5 bilyon sa susunod na limang taon para maresolba ang problema sa plastic wastes.

Ginagamit na rin sa kasalukuyan ang sophisticated incinerators sa Europe at US at sinusunog nila ang 42 porsiyento at 1.25 porsiyento ng kanilang mga basura, ayon sa pagkakasunod, sa halip na itapon ang kanilang plastic wastes sa landfills.

Sa buong Asya naman, ang China ay hindi na rin nagpahuli dahil sa mayroon na silang 300 waste-to-energy plants na kasalukuyan nang gumagana at kanila nang pinakikinabangan.

Ngunit sa Pilipinas ay mariing ipinagbabawal ng batas ang pagsusunog ng mga basura dahil sa problema sa polusyon at sa hangin ngunit hindi naman tayo tumitigil sa pag-aaral para maghanap ng paraan na magagawang enerhiya ang mga basura, kabilang na ang gasification at pyrolysis.

Kaso heto na naman ang problema natin sa pagdagsa ng mga gamit na facemask dahil ultimo mo ang mga nangangalakal ay napapansing ang pagdami ng basura nito at hindi malayong maging gabundok na ang sitwasyon sa mga landfill sa mga darating na panahon.

Sa pinakahuling ulat ng Population Commission (PopCom) nitong 2020 ay umabot na ang ating populasyon sa 109,581,178 at kalahati na lamang sa mga ito ang magtapon ng facemask ay mahigit sa 50 milyong facemask araw-araw ang nadagdag sa ating basura.

Wala pang inilalabas na pag-aaral ang Department of Health (DOH) kung gaano kataas ang bilang ng mga itinapong facemask na nagmula mismo sa mga nahawa ng COVID-19, hindi pa kabilang dito ang mga itinatapong Personal Protective Equipment (PPE) na napakarami rin.

Akmang-akma rito ang isinumite nating batas na tinawag na "Extended Producers Responsibility Act of 2020" na naglalayong mapalakas ang umiiral na dalawang dekada ng batas na Republic Act No. 9003 o ang "Ecological Solid Waste Management Act of 2000."



## Maling pagtatapon ng ginamit na facemask, sobrang delikado

Sa pamamagitan ng Extended Producers Responsibility (EPR) ay matutugunan ang tamang waste management at ang mga kumpanya ay obligadong balikatin ang treatment at disposal ng kanilang consumer products tulad ng mga packaging waste.

Obligado rin ang mga kumpanyang ito na sinupin at pamahalaan ang kanilang packaging materials tulad ng recycling o reusing upang maibsan ang pagkalat ng basura at maaari ring pamarisan ang ilang environment friendly measures sa kanilang produksiyon tulad ng paglipat na sa biodegradable packaging o paggamit ng multi-use containers.

Ngunit higit sa lahat ay napakahalagang magkaroon tayo disipilina at maging responsable sa pagtatapon natin ng ating basura, partikular ang facemask dahil posibleng ito pa ang magdulot sa atin ng kapahamakan.

Anak Ng Teteng!



## Plastic Credit Exchange revamps system, uses blockchain technology

June 21, 2021 | 4:43 pm



Plastic Credit Exchange (PCX), a Filipino non-profit plastic offset program, partnered with Microsoft to develop a public, blockchain-protected credit registry.

"It is important that the credit registry is trustworthy and available to the public," said PCX founder and chair Nanette Medved-Po in a statement. "By using blockchain technology to not only protect the ledger but provide transparency around additionality and protect against double counting, stakeholders will know where and how they positively impact the environment."

Similar to carbon markets that use carbon credits to limit companies' production of greenhouse gases, PCX uses plastic credits to limit the number of plastics that businesses produce.

Companies in the Philippines who have purchased plastic offsets include Nestle Philippines and Unilever Philippines. Meanwhile, companies like PepsiCo Snacks, Wyeth Nutrition, Century Pacific Food, Colgate-Palmolive, and NutriAsia have pursued plastic neutrality in the country.

According to PCX, these partnerships have helped divert over 18 million kilograms of plastic waste from the ocean.

"Sustainability and humanity's response to it is one of the greatest challenges of our lifetime — a planet-sized challenge that requires a planet-sized response," said Microsoft Philippines Country Manager Andres Ortola in a statement. "Technology can — and must — accelerate that response."





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## Plastic Credit Exchange revamps system, uses blockchain technology

Microsoft provided an Azure-based blockchain solution to beef up the credit registry's security, using a web application to integrate the blockchain into PCX's current operations.

PCX's blockchain-protected credit registry can be found [plasticcreditexchange.com](https://plasticcreditexchange.com), where it shows how much plastic credit each corporation has bought. — B. H. Lacsamana



## Coca-Cola, Plastic Bank® partnership on track with ocean-bound plastic collection targets while uplifting lives in Cavite community

Published June 21, 2021, 2:51 PM

by [Manila Bulletin](#)

Plastic pollution remains a pressing problem in the Philippines and around the world and requires the help and involvement of all sectors of society. Partnership is more critical than ever.

As partners, Coca-Cola Philippines and Plastic Bank® continue to mobilize the collection of ocean-bound plastic while improving the livelihood of local communities in the Philippines. Since their partnership was established in September last year, the partnership is 68% on track towards achieving their target collection of 100,000 kg of used recyclable plastic.



The PJS Junkshop in Cavite is currently being improved as one of the main partner branches of the Plastic Bank ecosystem supported by Coca-Cola. The facility, together with Sison Junkshop as the second main partner branch, will receive infrastructure improvements and will serve as one of the partner branches where bottles are collected and then delivered to plastic processors.

“Collective action to turn the tide on plastic waste is very important and our partnership with Plastic Bank is one of our various partnerships in the Philippines that help bring us closer to our vision of a world without waste. Our thrust is for more communities to look at recyclable plastic packaging as high value material that can be recycled and used multiple times so it doesn’t end up in the environment. We are pleased with the progress the project has made in improving infrastructure for collection and recycling and providing partner collectors with additional livelihood while they take part in helping the environment,” says Tony del Rosario, President of Coca-Cola Philippines and VP for East Franchise Operations of Coca-Cola ASEAN & South Pacific.

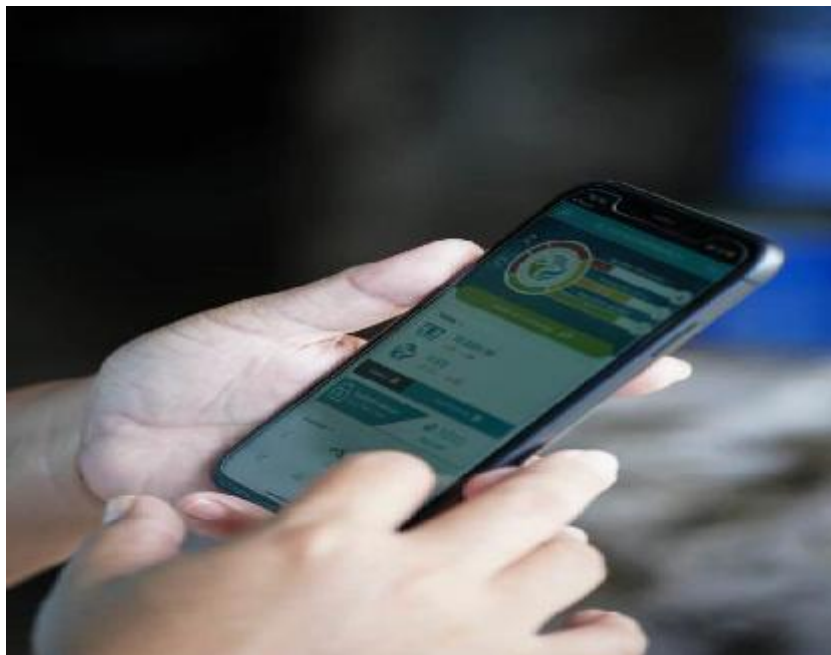
Despite mobility issues caused by the surge in COVID-19 cases in the first quarter of 2021, Coca-Cola Philippines and Plastic Bank managed to adapt and collected 68,797kg of plastic (or 3.4 million



## Coca-Cola, Plastic Bank® partnership on track with ocean-bound plastic collection targets while uplifting lives in Cavite community

bottles), engaged and empowered 88 collectors, and positively impacted five communities and 316 household members.

“This pandemic has not only helped us grow to adopt more digital processes but also helped us reassess what was essential in achieving our mission. It was through this learning and adaptation within the past two quarter that we were able to stabilize our plastic collection, better plan out our development programs and look to consistently deliver our intended impact in the second half of our partnership with Coca-Cola,” said Paolo delos Reyes, Plastic Bank Philippines Customer and Partnerships Manager.



Aside from improving the livelihood of local collectors, Coca-Cola Philippines and Plastic Bank empower communities through various training and skills development programs.

With the goal of organizing citywide collections, Plastic Bank continues to closely partner with the local government of General Trias, Cavite to activate collection points alongside communities, local junk shops, and individual collectors. Community members are encouraged to adopt Plastic Bank’s collection system that includes the use of the Plastic Bank App that ensures the traceability of the plastic collected. This helps to drive a more efficient collection process.

The program aims to sustainably improve the lives of collector communities. Aside from the premium they get from the material they collect, individual Plastic Bank collectors are also provided with the tools, resources and equipment they need including pedicabs, COVID-19 safety kits, and training sessions on financial and business literacy.



## Coca-Cola, Plastic Bank® partnership on track with ocean-bound plastic collection targets while uplifting lives in Cavite community

One of the program's partner collectors, Ronilo Cirujano is a 56-year-old family man who has been collecting recyclables from homes for 10 years. He has been using his own tricycle to easily move from one home to another in their community.

"Being a Plastic Bank collector helps me provide basic necessities for my wife and three children, especially during a pandemic when livelihood opportunities are harder to find. Through my income from collecting recyclables in General Trias, two of my children were able to finish their studies in college," Ronilo said.

Meanwhile, plans to improve existing structures of local junk shops (called Plastic Bank partner branches) are underway with improvements targeted to be completed in the middle of the third quarter of the year.



With the help of Plastic Bank incentives, Ronilo Cirujano, a collector, can provide food and assistance for his family despite the pandemic.

Coca-Cola remains committed to reaching its global vision of a World Without Waste. The company aims to help collect and recycle the equivalent of all the bottles and cans it sells by 2030 and partnership programs are critical to achieving this vision. The company, with the help of the Coca-Cola Foundation Philippines, is currently supporting nearly 40 communities in 22 provinces across the country.

Coca-Cola Philippines likewise continues to invest in the development of innovative and sustainable packaging solutions and is forging ahead with the launch of PETValue facility in General Trias Cavite – a joint partnership between its local bottler, Coca-Cola Beverages Philippines, and Thailand-based Indorama Ventures, a recognized global leader in packaging solutions and green technology.



## Coca-Cola, Plastic Bank® partnership on track with ocean-bound plastic collection targets while uplifting lives in Cavite community

Granted “pioneer status” by Board of Investments (BOI), this bottle-to-bottle recycling facility aims to produce around 16,000 metric tons of recycled PET resin every year. PETValue is expected to be operational by the first quarter of 2022.

To learn more about the World Without Waste vision of Coca-Cola, read the recently released [2020 World Without Waste Report](#). To learn more about the project, visit [plasticbank.com](https://plasticbank.com)



## Coca-Cola signs MOA with Manila for plastic bottle collection, recycling



WORLD WITHOUT WASTE installations in Kartilya ng Katipunan include: benches and chairs made from thousands of recycled PET plastic bottles, contour bottle collection bins, and information panels that illustrate the steps involved in proper used PET bottle disposal. (PR)



PARTNERS IN ACHIEVING A WORLD WITHOUT WASTE IN MANILA. CCBPI President and CEO Gareth McGeown and Manila City Mayor Isko Moreno sit comfortably on a bench made from over 3,000 pieces of transformed PET plastic bottles. The bench was manufactured by Winder Envirotech, a Davao-based recycling company. (PR)



## Coca-Cola signs MOA with Manila for plastic bottle collection, recycling



CCBPI REPRESENTATIVES led by President and CEO Gareth McGeown and Manila City LGU officials led by Mayor Isko Moreno and Vice Mayor Honey Lacuna. This PET bottle collection project for the city was made possible through the support of the Department of Tourism, Culture and Arts of Manila, as led by Director Charlie Dungo. (PR)

June 21, 2021

COCA-COLA Beverages Philippines Inc. (CCBPI), the bottling arm of Coca-Cola in the country, has signed a memorandum of agreement (MOA) with the City of Manila for the collection and recycling of PET bottles in the metro.

Under the MOA, clear PET plastic bottles -- regardless of brand or manufacturer -- deposited in contour bottle bins will be collected by Manila's Department of Public Services, and will then be hauled by CCBPI to its PETValue recycling facility in General Trias, Cavite. This is the first in a series of projects lined up for the City of Manila.

Recently, CCBPI representatives -- led by Gareth McGeown, CEO and president of CCBPI -- presented World Without Waste installations at the Kartilya ng Katipunan to Mayor Isko Moreno and Vice Mayor Honey Lacuna: Coca-Cola contour bottle bins for PET collection, educational panels on proper waste disposal, and park benches made from thousands of transformed PET plastic bottles.

The wide-reaching sustainability project for the city was made possible through the support of the Department of Tourism, Culture and Arts of Manila (DTCAM), as led by Director Charlie Dungo and his team.

The City of Manila is the latest addition to the growing number of cities and municipalities that CCBPI is partnering with as part of its World Without Waste initiative, the company's commitment to collecting and recycling every single bottle and can that it sells by 2030.



## Coca-Cola signs MOA with Manila for plastic bottle collection, recycling

"Coca-Cola and Manila, through the leadership of Mayor Isko, have always shared the same advocacies for sustainability and this partnership is just another testament to that," said McGeown. "We are very much excited to work with the City of Manila for PET plastic bottle collection, and in many more future projects that will realize our common goals."

McGeown added, "The ultimate aim is to collect every single PET plastic bottle within the city and divert it to PETValue. This would yield collective achievements-among them is helping keep Manila clean, while fostering the value of caring for the environment and strengthening the mindset for recycling."

### PET plastic bottles: Value beyond first use

Solid waste management remains a challenge across the country. PET plastic bottles are 100 percent recyclable and have value beyond their initial use -- and, therefore, should not end up in landfills or waterways. This recyclable material should re-enter the value chain as resource or feedstock for recycling, which will be processed at the PETValue facility.

Granted pioneer status in 2020 by the Philippine Board of Investments, PETValue Philippines -- a partnership between Coca-Cola and Indorama Ventures, a global leader in green tech and packaging solutions -- is the country's first, state-of-the-art, bottle-to-bottle, food-grade recycling facility. It will employ the safest and most advanced technology to sort, wash, and process used plastic bottles into new ones. The P1-billion facility is set to be completed in Q4 of 2021 and is expected to have a capacity to process around 3 billion pieces of plastic bottles annually.

### Manila homecoming

Earlier this year, CCBPI opened a new distribution hub in Manila -- a true homecoming marking Coca-Cola's return to the city. Coca-Cola's new Manila site utilizes a smart logistics system, promoting innovative and advanced technologies in the country, and will thus serve as a model site for all Coca-Cola distribution centers. This is in line with the company's commitment to support economic recovery through the expansion of its nationwide footprint, which in turn will generate more jobs for Filipinos.

"We have always put our words into action, and we've proven throughout our 109-year stay in the Philippines that the support of Filipinos is integral to that," said McGeown. "We are unwavering in our commitment to help in the country's stable economic recovery -- we will continue to work with the national government, local governments, and various organizations across the Philippines. We truly believe that, because we have been coming together in solidarity, our best days are ahead of us." (Sponsored Content)





## Rivers

By [Alex Magno](#)(Philstar.com)

- June 22, 2021 - 12:00am

This is an embarrassment. One global report widely carried by local media lists seven Philippine rivers among the top ten most responsible for ocean pollution. Pasig River tops the list as the most polluted river.

Another report estimates the Philippines account for about a third of the waste dumped into the world's oceans. That makes us the biggest ocean polluter among all countries, including those with economies many times the size of ours.

One may quibble about the details by which these estimates were arrived at. But we cannot quarrel with the overall observation: the country has among the worst environmental governance anywhere.

I recall a really embarrassing conversation I had with a Japanese scholar many decades ago. In a rather direct, un-Japanese way, he asked: Why do people here dispose of their trash in the streets?

That question haunts me to this day.

I have been to Tokyo before that conversation and observed how obsessed the Japanese were with cleanliness – in private as much as in public. During that visit, I encountered that artifact of this obsessiveness: a toilet set with several bidet settings to clean one's self along with temperature settings for the toilet seat.

I had worked in the slums of Bangkok with Thai NGOs and observed how the poor communities had somehow kept the waterways clean. They managed to keep much of their trash off the rivers.

At the time my Japanese friend asked me that disturbing question, the iconic tourism destination in Manila was a garbage dump in Vitas, Tondo we took to calling Smoky Mountain. It was an impressive monument to our people's poverty and the extent to which our society was so badly governed.

The decaying trash emitted methane continuously, earning the place its name. Even as the deadly stench of methane wafted into the most populous districts of the capital city, the dump continued to be used for years for sheer lack of a sanitary landfill.

To this day, a portion of the bay off Navotas is used as a dumping site. Some sort of fencing was put up to prevent the trash from drifting off to sea. But as the waste decomposes, all the toxins blend with the water, making Manila Bay the most polluted harbor in the world.

President Fidel Ramos was so incensed by the notoriety Smoky Mountain gained, he ordered the dump shut down. In its place, Payatas rose to become the main dump for this urban sprawl we call a city. It had the same moving images of poverty as the dump it replaced.

Payatas is not a sanitary landfill. It is, in fact, a most unsanitary landfill. The toxins produced by rotting trash seeps into the ground beneath it until it reaches the water table. As if by some stroke of engineering insanity, this leaking, steaming dump that is host to a large community of scavenging families sits astride the La Mesa Dam and Balara filters. All the drinking water consumed in this urban sprawl we call Mega Manila passes through the La Mesa Dam, filtered at Balara.



## Rivers

Over the past several years, the Payatas dumpsite has been ordered closed. But it is still there, having become a mountain that would not budge. There are no landfills, let alone sanitary landfills, in the vicinity. Trucks sneak in under the cover of darkness to dump trash where it is forbidden.

All over the city, trash piles accumulate in the streets. There is a simple answer for this, apart from there being no sanitary dumpsites. Urban legend has it that garbage collection contracts are the main sources of corruption for local governments.

We are not wanting for laws. The Solid Waste Management Act and the Clean Air Acts are mostly observed in the breach. They are also the most notoriously unfunded laws on the books.

Every year, as we move from the dry months to monsoon period, the MMDA makes it a point to clean up the hundreds of small waterways flowing through the city to avert flooding. Each year, at around this time, when the first rains come, the city floods anyway. The waterways are clogged with refuse almost as soon as they have been dredged and cleaned.

I do not remember anyone being prosecuted for throwing a plastic bag of trash into the river. Surely our local governments have ordinances penalizing the act.

Over the decades, the many years our garbage disposal system simply broke down, the rivers became the main waste disposal system for most cities. Citizen vigilance at protecting our waterways was simply non-existent.

For many years, we endured the most misnamed agency: the Manila Waterworks and Sewerage System. It neither delivered fresh water nor maintained any remote semblance of a sewerage system.

To this day, the private concessionaires who distribute water to the metropolitan area have yet to deliver the sewerage system stipulated in their service contracts. We do not treat wastewater to any significant extent before dumping it to the sea.

Our ranking as the world's worst polluter of the waters is well deserved.

Then there are the large cultural and anthropological questions for which we can only manage gossamer answers. It has been observed many times how Filipinos somehow failed to develop a culture that respects the commons.

In the walkup where I live, my neighbors sweep their floors clean every day – but push the dirt onto the corridors. The staircase is constantly littered with candy wrappers and plastic bottles. The commons is disrespected.

We need nothing less than a cultural revolution here.



## Reef balls enhance marine life in Masbate village

By Mar Serrano and Connie Calipay June 21, 2021, 6:14 pm



**THRIVING MARINE ECOSYSTEM.** Various species of fish shown in an undated photo are observed thriving in the Marine Protected Area of Colorada Point in Barangay Tigbao, Aroroy, Masbate. This was believed to be the result of the deployment of reef balls and planting of coral fragments by the mining firm Philippine Gold Processing & Refining Corporation starting in 2017. *(Photo courtesy of PGPRC)*

LEGAZPI CITY – Various species of fish, some turtles, lobsters, and other sea creatures have been observed thriving in the Marine Protected Area (MPA) of Colorada Point in Barangay Tigbao, Aroroy, Masbate.

This was attributed to the deployment of 2,203 reef balls and the planting of 29,273 coral fragments by the Philippine Gold Processing & Refining Corporation (PGPRC) starting in 2017.

In a statement on Monday, Marione Molintas, spokesperson of Filminera Resources Corp. (FRC) and PGPRC, which is its sister company, said the two firms partnered with the municipal government of Aroroy in undertaking the project to rehabilitate coral reefs that were destroyed due to dynamite fishing and other illegal fishing activities.

"A reef ball is an artificial reef designed to mimic the function of a natural reef. It was developed by US-based Reef Ball Foundation to restore ailing or destroyed coral reefs and create new fishing and scuba diving sites," the statement read.

Molintas noted that reef restoration is critical for the long-term sustainability of the marine ecosystem and the future of local fishermen.

PGPRC hired fisherfolk in the community to become wardens of the MPA and assistants in coral planting and propagation works.

The firm also implemented a goat dispersal project as part of its livelihood support program to the local fishers' organization.

PGPRC is wholly owned by Vancouver-based gold producer B2Gold. *(PNA)*



## 2 lalaking nagbebenta ng agarwood arestado ng NBI sa QC

PROVINCIAL

On Jun 21, 2021



ARESTADO sa entrapment operation ang dalawang lalaki na sangkot sa ilegal na pagbebenta ng agarwood o kahoy mula sa puno ng lapnisan.

Kinilala ang mga dinakip na sina Mark Gil Espino at Nathaniel Avelino.

Sa ulat, ikinasa ang operasyon laban sa dalawa nang makumpirma ng National Bureau of Investigation-Environmental Crime Division (NBI-ECD) ang pagbebenta ng mga ito ng agarwood sa halagang P150,000.00 kada kilo.

Kabilang sa nasamsam kina Espino at Avelino ang 17 kilo ng agarwood na ibinenta ng P1,955,000 sa nagpanggap na buyer.

Kasong paglabag sa RA 9147 o ang Wildlife Resources Conservation and Protection Act at PD 705 o ang Revised Forestry Code of the Philippines ang kinakaharap ng dalawa.



## Zamboanga Sibugay IMO joins NIA's tree planting activity



ZAMBOANGA. Personnel of the Zamboanga Sibugay Irrigation Management Office and members of the Marple Irrigators Association Incorporation plant last week 1,000 mahogany seedlings in two villages in Diplahan town. A photo handout shows participants of the tree planting activity strike a pose while during the event. (SunStar Zamboanga)

June 21, 2021

PERSONNEL of the National Irrigation Administration's (NIA) Zamboanga Sibugay Irrigation Management Office (IMO) and members of the Marple Irrigators Association Incorporation have planted 1,000 mahogany seedlings in two villages in the province.

The NIA Zamboanga Sibugay IMO said in a statement that the undertaking was in line with the agency's annual tree planting activity, which was held last week.

The mahogany seedlings were planted in Gaulan and Ditay villages in the town of Diplahan, Zamboanga Sibugay where the irrigation systems -- Lower Sibuguey I and Upper Sibuguey -- are located.

The tree planting activity, done annually simultaneous nationwide, is also in accordance to the National Greening Program of the country.

NIA conducts tree planting activity in celebration of its founding anniversary, which is from June 20 to 24 and in support to the Rehabilitation and Protection of Water Resources Supporting Irrigation Systems (RPWRSIS).

This year's founding anniversary is anchored on the theme: "Tubig-Kanlungan ay Pangalagaan, Patuloy na Daloy ng NIA sa gitna ng Pandemya." (SunStar Zamboanga)

Source: <https://www.sunstar.com.ph/article/1898438/Zamboanga/Local-News/Zamboanga-Sibugay-IMO-joins-NIAs-tree-planting-activity>



## Amazing! What you need to know about PH's abaca-based fabric that can filter toxic pollutants from wastewater

Published June 22, 2021, 12:00 AM

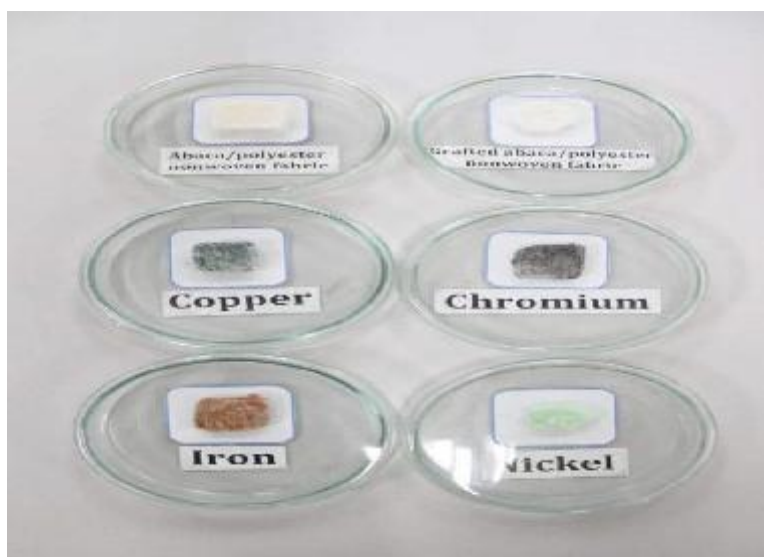
by [Charissa Luci-Atienza](#)

With the Philippines' standing as the world's largest producer of abaca, researchers from the Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI) seized the opportunity to develop a nonwoven fabric from the native abaca that can filter toxic pollutants from wastewater.



DOST-PNRI Radiation-Modified Abaca/Polyester Fabric (Photo from DOST-PNRI)

"The fabric can capture heavy metals such as lead, cadmium, nickel, chromium, mercury and arsenic, which can be harmful to human health and the environment," the DOST-PNRI said in a Facebook post on Monday, June 21.



(Photo from DOST-PNRI)



## Amazing! What you need to know about PH's abaca-based fabric that can filter toxic pollutants from wastewater

The development of the composite nonwoven fabric was made possible through radiation grafting which allows scientists to modify materials and graft various polymers that can have advanced properties such as filtering various contaminants from water.



(Photo from DOST-PNRI)

The DOST-PNRI said abaca's natural strength "makes it perfect for withstanding the grafting procedure, allowing it to serve as a base material."

"The materials are grafted using radiation at PNRI's Electron Beam Irradiation Facility, after which it is further processed into its final form as a synthesized filter for heavy metals."

Citing the studies conducted by its Chemistry Research Section, the DOST-PNRI said the fabric "is reusable and cheaper to use than commercial resins which have the same purpose, while also being on par, if not better, in filtering the waste."

The Institute noted that it was in 2019 that it was granted a utility model for the technology.

It vowed to continue developing radiation grafting for other applications.

"The radiation-grafted abaca fabric's application for wastewater treatment is just the tip of the iceberg," the DOST-PNRI said.

"A part from wastewater treatment, radiation-grafted materials can also be configured for recovering precious metals, harvesting uranium from seawater, and even as a catalyst for producing biodiesel," it added.



## Amazing! What you need to know about PH's abaca-based fabric that can filter toxic pollutants from wastewater

The PNRI cited that the abaca fabric won Outstanding Utility Model Award at the National Invention Contest and Exhibits (NICE) on March 5, 2020 at the SMX Convention Center Aura in Taguig City.

In November 2019, the fabric emerged as winner for the Regional Invention Contest and Exhibits (RICE) for the National Capital Region (NCR).

The product is an output of a project funded by the DOST-Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) in collaboration with Philippine Textile Research Institute (PTRI), which provided the abaca/polyester nonwoven fabric.

Source: <https://mb.com.ph/2021/06/22/amazing-what-you-need-to-know-about-phs-abaca-based-fabric-that-can-filter-toxic-pollutants-from-wastewater/>





## ASEAN welcomes Japan's \$10 billion support for decarbonization

Kyodo News

Posted at Jun 21 2021 10:27 PM

TOKYO - The Association of Southeast Asian Nations welcomed Japan's pledge in their special meeting Monday of \$10 billion in financial support for decarbonization efforts by its member states.

The joint statement released after the online meeting between ASEAN energy ministers and Japanese Minister of Economy, Trade and Industry Hiroshi Kajiyama said they shared the need for adequate financing to support the region's energy transitions involving measures to cut carbon dioxide emissions and accelerate renewable energy use.

"In light of the unprecedented challenges due to the COVID-19 pandemic, the meeting recognized the urgency of addressing sustainable post-pandemic recovery and affirmed the importance of energy transitions towards sustainable development," the statement said.

- [Honda to stop selling new gasoline cars, including hybrids, by 2040](#)

Japan's "Asia Energy Transition Initiative" will also include "human resources development through various training workshops, studies and reports, and knowledge sharing activities," it said.

The training on new technologies such as hydrogen use and carbon capture and storage will be provided to around 1,000 people in the region, Japanese officials said.

The initiative is aimed not only at reducing the region's greenhouse gas emissions but also expanding business opportunities for Japanese companies, they said.

While cooperating toward the United Nations' climate change conference to be held in November in Glasgow, Kajiyama told the meeting Japan will host the "Asia Energy Green Growth Partnership" ministerial meeting in October.



## Scientists urge climate crisis action

posted June 21, 2021 at 10:00 pm

by [Manila Standard](#)

Environmental scientists and advocates called for more aggressive climate resiliency interventions from government and the private sector to mitigate economic shocks from worsening extreme weather and natural disasters.

"Climate crisis is still, unfortunately, not a top-of-mind issue for many economies, including ours," said Dr. Carlos Primo David, ADRi program and Philippine Business for Environmental Stewardship (PBEST) convenor in a recent online forum organized by Stratbase Albert del Rosario Institute.

"Our window to address climate change is 30 years or roughly one generation. Not acting on climate change during this period may prove to be devastating for the planet. It is our generation that is starting to occupy the leadership roles of society. It is up to us then to recognize this threat and seriously address the climate crisis," he added.

Dr. Mahar Lagmay, executive director, Project NOAH, said early warning systems should be data driven and "people-centered" to save more lives and livelihoods.

"We must specify what kind of hazard will hit a community, and we must be able also to specify when that will happen. It must be time bound, using sensors, there's a technology already available," he said.

"Take for example the area that was hit during (typhoon) 'Ompong.' We have this landslide map that accurately predicted where the landslide would happen. If the people moved just 200 meters away, or maybe 300 meters away – that's the safest place in that area – then they could have increased their chances of survival," Lagmay added.

Quirino province Gov. Dakila Cua said the use of advanced Geographical Information System (GIS) can aid decision-making with accurate information in almost all aspects of planning.

"We have readily available risk assessment, hazard, vulnerability, capacity and resource maps that identify immediately the number of males, females, PWD, senior citizen, pregnant, etc. who for example, may be affected by flooding and landslides," said Cua, who is also the president of the Union of Local Authorities of the Philippines (ULAP) and national chairperson of the League of Provinces of the Philippines.

"As we chart our way through the challenges toward a sustainable recovery from this pandemic, may we find a deeper resolve and greater determination to seize every opportunity to proactively gear up toward sustainable and environment-friendly practices at least for the sake of our children's future," Cua said.

Stratbase ADRi President Prof. Dindo Manhit added: "Initiatives need to put emphasis on advancing the incorporation of circular business and economic models, investments in 'green' and sustainable urban designs, and the incorporation of digital technologies into services and infrastructure developments."

"Philippine communities will constantly remain vulnerable to shocks if immediate mitigation and adaptation of sustainable and best practices are not widely implemented," Manhit said.

## As climate heat worsens, a hungrier world is likely

A hotter world will mean a hungrier world. On the evidence so far, the world's farmers cannot adapt fast enough.



A sugarcane farmer in Talisay, Western Visayas in the Philippines. Image: [Beegee49, CC BY-NC-ND 3.0](#)

By Tim Radford, Climate News Network  
June 21, 2021

Researchers have once again warned that climate change is likely to mean [a hungrier world with less food on the table](#): by 2050, global crop yield could have fallen by 10 per cent. And by the century's end – and with a much larger burden of human population – farmers might be producing 25 per cent less than they do now.

The calculations come just a few weeks after a separate team of scientists predicted that uncontrolled global heating driven by continued profligate use of fossil fuels might change the global climate in ways that could [cut harvests by as much as a third](#).

Food is not separable from climate change: [modern agriculture and the global appetite for animal products](#) is both a major contributor to ever-greater greenhouse gas emissions and, in very different ways, a potential answer to some of those challenges.

Demand for food for ever-greater numbers of increasingly wealthier people has driven the destruction of [forests, savannahs and wetlands](#) that nurse life's variety, underwrite the planet's economy, and buffer nations against climate change.

But researchers have also found, again and again, that [with a different mindset and a shift of global appetite](#), it might be [possible to feed 10 billion people and preserve the planet's biodiversity](#).

If difficulties to adapt are observed in the US, what can we then expect of food producers in the tropics.

## As climate heat worsens, a hungrier world is likely

Enrica de Cian, associate professor in environmental economics, Ca'Foscari University

That is based on an assumption that climate change fuelled by greenhouse gas emissions doesn't change the nature of farming. And, increasingly, researchers believe that it will.

There has been repeated evidence that higher temperatures and rainfall shifts can reduce not just [total yields](#), but also [nutritional value](#). And the pattern of heatwave and drought promised by ever-rising temperatures suggests [the possibility not just of local but of global famine](#).

Scientists from the US and from Italy report in the journal [Environmental Economics and Management](#) that they matched their climate simulations with weather records from the past and applied them to 21 different forecasts of changes in temperature and rainfall, and the potential impact of these changes on just four staples: maize, rice, soybean and wheat. These four crops account for three-fourths of the world's calorie supply.

### Hesitant adapters

Farmers expect to be confronted by unwelcome weather, not least in an ever hotter and hungrier world. All the evidence is that heat waves, drought, windstorm and flooding are [likely with time to become more extreme and more frequent](#). So how farmers have [adapted in the recent past to shifts in the climate in the last few decades](#) might provide an answer as to their preparedness to adapt to the new world.

The new study suggests they may not adapt fast enough or surely enough. The researchers find that three decades from now, the global harvest could be 3 per cent less than it is now, or as much as 11 per cent. By 2100, yields may have fallen by 11 per cent, or as much as 25 per cent.

"Globally, farmers' capacity to adapt to climate change impacts, even over longer periods, might be limited," said [Ian Sue Wing of Boston University](#) in the US. "Even in the United States, the world's agricultural technology frontier, farmers have been able only slightly to compensate for the adverse impacts of extreme heat on yields of maize and soybeans over time-frames of decades."

And [his co-author Enrica de Cian of Ca'Foscari University in Venice](#), Italy said: "We asked ourselves: if difficulties to adapt are observed in the US, what can we then expect of food producers in the tropics, where 40 per cent of the world's population live and high temperature extremes are projected to rise more than in the major calorie crop-growing regions of the US?"

*This story was published with permission from [Climate News Network](#).*

22 JUNE 2021, Tuesday



**DENR**

# **NEWS ALERTS**

# **COVID-19 NEWS**

STRATEGIC COMMUNICATION AND INITIATIVES SERVICE



## PH records more cases of Delta coronavirus variant

By [CNN Philippines Staff](#)

Published Jun 21, 2021 10:07:11 AM



FILE PHOTO

Metro Manila (CNN Philippines, June 21) — The Department of Health on Monday reported four additional cases of the Delta (B.1.167.2) coronavirus variant, bringing the total to 17 cases.

The variant, first identified in India in February, is believed to be 60% more contagious than the Alpha (B.1.1.7) variant first detected in the United Kingdom. Health spokesperson Maria Rosario Vergeire said a person carrying the Delta variant can infect eight other individuals and they may stay longer in the hospital.

Three of the four additional Delta variant cases are Filipino seafarers from MV Eastern Hope, the DOH said. Upon detection of the virus, they were repatriated from South Korea to the Philippines on June 3. Two of them have recovered and have been discharged, while one is still admitted in a Metro Manila hospital.

The fourth case is a returning overseas Filipino who arrived from Saudi Arabia on May 24. The person has been tagged recovered on June 10, DOH added.

The ban on travelers coming from India, Pakistan, Nepal, Bangladesh, Sri Lanka, Oman, and the United Arab Emirates is in place until June 30 to prevent the entry of the Delta variant.

"Ang ating Pangulo mismo ang talagang very cautious siya, ayaw niyang makapasok ang Delta variant dito sa ating bansa dahil gusto niyang ma-preserve pa rin ang ating healthcare system at ayaw niyang maapektuhan ang ating bansa with this variant," Vergeire said in a media briefing.

[Translation: Our President is very cautious. He doesn't want the Delta variant to enter our country. He doesn't want our country to be affected and he wants us to preserve our healthcare system.]



## PH records more cases of Delta coronavirus variant

The health official added there is no need to revise current border controls and minimum public health standards, but their enforcement should be strengthened to prevent the spread of the more infectious variant. Vergeire added that studies show the Delta variant lessens the protection given by COVID-19 vaccines, but they can still prevent hospitalization and death.

Additional cases of other variants of concerns were also recorded during the latest genome sequencing conducted by the Philippine Genome Center. There were 14 more cases of the Alpha (B.1.1.7) variant cases, now with a total of 1,085, while 21 additional Beta (B.1.351) variant cases, bringing the total to 1,267.

Meanwhile, one more case of the P.3 variant, which was first detected in the Philippines in March. This variant is not yet labelled by the World Health Organization as a variant of concern.



## 5,249 bagong hawa ng COVID-19 sa bansa pinalobo lokal na kaso sa 1,364,239

(Philstar.com)

- June 21, 2021 - 5:40pm



Josefa Tolentino, 77, shows her vaccination card as she makes her way to her eye check-up at SM San Mateo on June 16, 2021. Fully-vaccinated senior citizens are now allowed by the Inter-Agency Task Force to enter private establishments in areas under general community quarantine and modified general community quarantine.

MANILA, Philippines — Nakapagtala ang Department of Health (DOH) ng 5,249 bagong infection ng coronavirus disease (COVID-19), Lunes, kung kaya nasa 1,364,239 na sumatutal ang nahahawaan nito sa bansa.

Batay sa mga bagong nakalap na datos ng Kagawaran ng Kalusugan, narito ang bagong mga pasok na datos para araw na ito:

- Lahat ng kaso: 1,364,239
- Nagpapagaling pa: 55,847, o 4.1% ng *total infections*
- Kagagaling lang: 7,053, dahilan para maging 1,284,643 na *lahat ng gumagaling*
- Kamamatay lang: 128, na siyang nag-aakyat sa *total local death toll sa 23,749*

Anong bago ngayong araw?

- Pinag-aaralan pa ngayon ng Palasyo ang [mungkahing](#) lumikha ng magkahiwalay na "safe spaces" sa trabaho sa pagitan ng mga bakunado at hindi pa bakunado laban sa COVID-19. Ito ang kinumpirma ni presidential spokesperson Harry Roque matapos ang itulak ni Presidential Adviser for Entrepreneurship Joey Concepcion habang nagbubukas ang ekonomiya.
- [Nadagdagan](#) pa ng apat na kaso ng "Delta" COVID-19 variant sa Pilipinas, ayon sa DOH, UP-Philippine Genome Center at UP-National Institutes of Health. Ang nasabing variant ay 60% mas nakahahawa sa mas nakahahawa na ngang "Alpha" variant.





## 5,249 bagong hawa ng COVID-19 sa bansa pinalobo lokal na kaso sa 1,364,239

- Inilinaw naman ni Roque na ["hindi" na talaga kailangan ng pagsusuot ng face shields sa tuwing nasa labas naman ng mga establisyamentong indoor](#). Aniya, hindi na raw kasi inapela ng Inter-Agency Task Force for the Management of Emerging Infectious Diseases ang naunang pahayag ni Pangulong Rodrigo Duterte tungkol dito.
- Bagama't pinag-uusapan na ng pamahalaan, sinabi naman ni Vergeire na [nananatiling "long-term goal" pa rin ang tuluyang pagtatanggal ng quarantine classifications sa Pilipinas](#): "That's not going to happen now or in the next month. This we can say that we are talking about it, that's correct, because it is important that we have a goal on when we will shift to that direction that we will slowly ease our restrictions," aniya.
- Ngayong nasa 8.4 milyon na sumatutal ang COVID-19 vaccine doses na naituturok sa Pilipinas, lumalabas na 2,153,942 katao na sa bansa ang nakakukumpleto ng kanilang dalawang doses.
- Samantala, lahat naman na ng preso sa Bocaue Municipal Jail sa Bulacan at 19 nilang kawani ang nababakunahan na laban sa COVID-19, ayon sa [ulat ng dzBB kanina](#).
- Umabot na sa 177.1 milyon ang tinatamaan ng COVID-19 sa buong daigdig, ayon sa huling datos ng [World Health Organization](#). Sa bilang na 'yan, patay na ang 3.84 milyong katao.

— James Relativo



## NAITALANG COVID-19 CASE SA BUONG MUNDO PUMALO SA HIGIT 100-M

written by [Rashid Locsin](#) June 21, 2021



Aabot na sa mahigit 100 milyon ang kumpirmadong kaso ng COVID-19 sa buong mundo.

Batay sa huling datos, nasa kabuuang 179, 259,991 ang tinamaan ng nakakahawang sakit sa iba't ibang bansa.

Sa naturang bilang, Estados Unidos pa rin ang bansang may pinakamaraming kaso ng nakamamatay na virus na aabot sa kabuuang 34, 406, 001.

Sinundan naman ng India na may 29, 935, 221 na nagpositibo sa pandemya.

Nasa 17,927,928 naman ang kaso sa Brazil habang 5,757,311 ang napaulat na kaso sa France.

Habang 3,882,107 naman ang bilang ng mga namatay sa virus, habang 163, 827, 935 naman ang naka-rekober o gumaling na sa COVID-19 sa buong mundo.



## Pagsuot ng face shields mandatory pa rin

By [Malou Escudero](#)(Pang-Masa)

-June 22, 2021 - 12:00am



Ito ang kambiyo kahapon ng Malacañang sa naunang pahayag at sa pamamagitan ng Twitter ay inihayag kagabi ni presidential spokesperson Harry Roque na sinunod ni Pangulong Rodrigo Duterte ang payo ng mga health experts dahil sa Delta variant o ang mas nakakahawang variant ng COVID-19 na unang nakita sa India.

The STAR/Edd Gumban

MANILA, Philippines — “Mandatory, pa rin ang pagsusuot ng face shields sa indoor at outdoor.”

Ito ang kambiyo kahapon ng Malacañang sa naunang pahayag at sa pamamagitan ng Twitter ay inihayag kagabi ni presidential spokesperson Harry Roque na sinunod ni Pangulong Rodrigo Duterte ang payo ng mga health experts dahil sa Delta variant o ang mas nakakahawang variant ng COVID-19 na unang nakita sa India.

“Acting on the advice of health experts, and in view of the Delta variant, PRRD declares that the wearing of face shields, both indoor and outdoor, is still mandatory, ” ani Roque sa kanyang tweet.

Matatandan na nagkaroon ng kalituhan tungkol sa pagsusuot ng face shields matapos kumpirmahin ni Roque ang sinabi ni Duterte kina Senate President Vicente “Tito” Sotto at Sen. Joel Villanueva na nais na lamang niyang sa loob ng ospital isuot ang face shields.

Dahil sa sinabi ng Pangulo, inihayag ni Roque na isa na itong polisiya pero kalaunan ay binawi rin dahil sa apela ng Inter-Agency Task Force on Emerging Infectious Diseases.

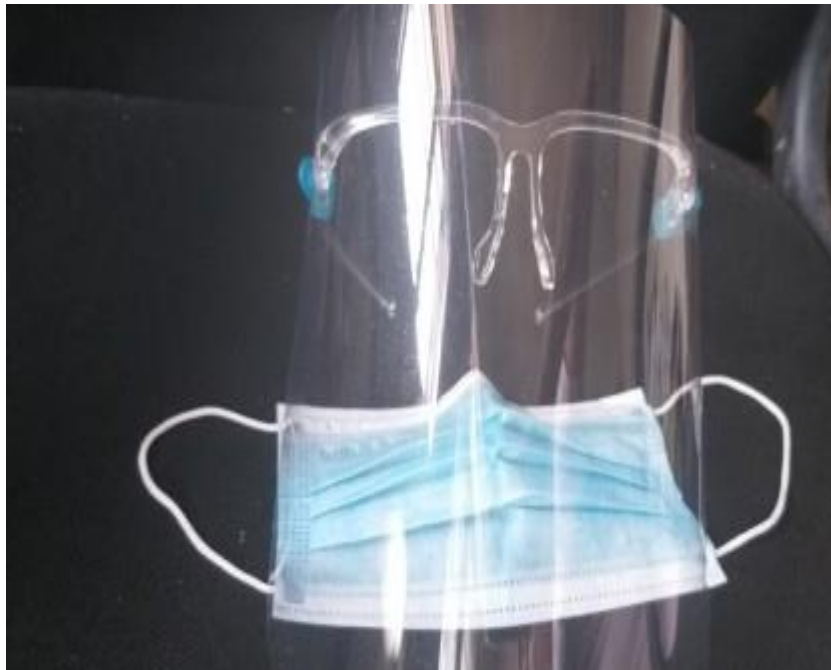
Sinabi ni Roque na hindi kasama sa inapela ng IATF ang hindi magsusuot ng face shields sa labas ng tahanan o gusali pero dakong alas-7:00 ng gabi ay inihayag niya sa tweet ang desisyon ng Pangulo.

Source: <https://www.philstar.com/pang-masa/police-metro/2021/06/22/2107174/pagsuot-ng-face-shields-mandatory-pa-rin/amp/>



## Face shields no longer required outdoors: Palace

By Azer Parrocha June 21, 2021, 3:15 pm



MANILA – The use of face shields is no longer required outdoors, Malacañang said on Monday amid confusion over the wearing of the said protective shields to prevent the spread of Covid-19.

Presidential Spokesperson Harry Roque said the wearing of face shields is no longer required outdoors because the Inter-Agency Task Force for the Management of Emerging Infectious Diseases (IATF-EID) only appealed to keep the rule on the use of face shields in enclosed public spaces such as commercial establishments, malls, and public transportation.

Prior to the IATF-EID's appeal, Roque confirmed that Duterte decided that people only be required to wear face shields in hospitals.

*"Ang malinawpo ganito, ha: Hindi na po kinakailangan ang face shield sa labas kasi hindi naman po inapila 'yan ng IATF. Ang inapela lang ng IATF yung pagsuot ng face shield sa loob kasama na po sa mga malls at iba pang mga commercial establishments at saka sa mga pampublikong transportasyon (What's clear is this: Face shields are no longer required outdoors because that is not what the IATF appealed. Their appeal is to use face shields indoors including malls, commercial establishments, and public transportation),"* Roque said in a Palace press briefing.

He also assured that individuals who are not wearing face shields outdoors will not be apprehended or punished by authorities.

*"Hindi po 'yan kasama doon sa inapela ng IATF. So yung hindi naman po inapela (That was not included in the appeal of the IATF. It was not appealed), that's immediately executory,"* he added.

Roque said Duterte will announce his final decision on the IATF-EID's appeal on the use of face shields in his regular public address on Monday night.

*"Mamayang gabi ay magkakaroon ng Talk to the People address kung saan ang polisiya sa face shields ay isa sa mapag-uusapan (Tonight there will be a Talk to the People address where the policy on face shields will be among the topics for discussion),"* he said.



## Face shields no longer required outdoors: Palace

In a Twitter post on Wednesday, Senate President Vicente Sotto III said Duterte has agreed that the public should only be required to wear a face shield when they go to hospitals.

Sotto, during a Senate Committee of the Whole hearing on Tuesday, noted that the Philippines is the only country in the world requiring the use of face shields in public spaces.

Roque earlier said there is a "scientific basis" that wearing both face masks and face shields contributes to the substantial reduction of Covid-19 infections in the country.

The IATF required the use of both face shields and face masks outside of their residence in December 2020. (PNA)



## Israeli experts in PH to share Covid-19 best practices

By Joyce Ann L. Rocamora June 21, 2021, 12:05 am



**EXPERTS.** National Task Force Against Covid-19 chief implementer Secretary Carlito Galvez Jr. (left) welcomes three Israeli medical experts at the Ninoy Aquino International Airport Terminal 3 in Pasay City on Sunday (June 20, 2021). With Galvez is Dr. Avi Ben-Zaken, deputy director of Israel's Medical Technology and Infrastructure Administration and former head of the Covid-19 Control Center of the Israeli Ministry of Health. *(PNA photo by Avito Dalan)*

MANILA – Three Israeli experts arrived in Manila on Sunday to assist the Philippines in its coronavirus disease 2019 (Covid-19) response and to share Israel's best practices as one of the world leaders in vaccinating its population.

The team is composed of Avi Ben-Zaken, deputy director of medical technologies and infrastructure development at Ichilov Hospital; Dafna Segol, senior strategic planner at Covid-19 control center of the Israeli Ministry of Health; and Adam Segal, logistics and operations manager at SLE, who's also experienced in resolving complex supply chain challenges.

From June 20 to 25, the delegation will meet with the Philippines' top medical experts and visit some vaccination sites and cold storage facilities in Metro Manila.

"The inputs from our guest will enable us to fine-tune our approaches so that we can get the anti-Covid jab into the arms of as many Filipinos in the most effective and efficient ways possible," vaccine czar Carlito Galvez Jr. said after welcoming the delegation at the Ninoy Aquino International Airport.

"We are optimistic that this week will provide us an opportunity to share our best practices, lessons learned, and recommendations on how we can further improve our vaccination systems and procedures, and realize our goal of achieving herd immunity within this year," he added.

Galvez said the Israeli delegation would discuss how to boost vaccine uptake, efficiently deploy jabs, and how to handle "sensitive" vaccines, specifically those manufactured by Pfizer and Moderna.

The visit also comes timely as the country signs a deal to procure 40 million doses of Pfizer-BioNTech jabs, which will arrive in the third and fourth quarter of the year.



## Israeli experts in PH to share Covid-19 best practices

"Israel is one of the world models in terms of efficient and swift deployment of vaccines so *iyon ang gusto nating malaman* (so that's what we want to learn) to have some sort of minimized wastage," Galvez told reporters in an interview.

Israel no longer requires its citizens to wear masks even indoors as its infections continue to decline following a robust vaccination program that has so far fully inoculated 59.49 percent of its population.

In an interview, Director Maria Soledad Antonio of the Bureau of International Health Cooperation bared that a visit from another Israeli delegation on "pandemic response" is also being eyed in July.

"*Hindi pa namin nabubuo 'yong program pero mayroong second batch, may plan mga July* (We have not yet finalized the program but there will be a second batch, the plan is by July)," she said.

This is the second time that a team of foreign experts visited the country to share technical advice about responding to the health crisis.

Last April 2020, a Chinese medical team also visited Manila as the government was trying to ramp up its testing and contact tracing capacities.

Since that visit, Antonio said the country had increased its testing capacity to at least 50,000 to 70,000 a day and even improved its isolation facilities.

"*Dahil successful ang vaccination rollout ng Israel, sila naman ang inimbitahan* (Because Israel was successful in its rollout, we invited them here)," she said. (PNA)



## SIRANG BAGA, GUSTO MO? HUWAG MAGPABAKUNA



June 21, 2021 @ 2:49 PM 14 hours ago

SA awtopsyang mga namamatay sa coronavirus disease-19 o COVID-19, malinaw ang natatagpuan ng mga doktor.

Sira ang baga ng mga ito.

Paliwanag ng mga doktor, sinisira ng virus ang mga pundasyon ng baga at kung hindi papalitan ito, tiyak na patay kang bata ka.

Inihahambing ng mga doktor ang baga sa isang gusali na kung sira na ang mga haligi at beam, walang ibang gagawin kundi gibain ito at palitan ng ibang gusali.

Lung transplant ang tawag sa pagpapalit ng baga na maaaring gawin ng isa, dalawa o higit pang beses.

### GALING SA PATAY NA TAO

Karaniwang galing sa patay na tao ang bagong baga na itatanim sa iyong sira at tinanggal na baga.

At batay sa karanasan, maaaring mabuhay ka pa ng 5, 10 o 20 taon.

'Yan ay kung hindi ka maimpeksyon, kapitan muli ng COVID-19 o iba pang virus o bakterya hanggang sa tuluyan ka nang tawagin ni San Pedro..kung sa langit ka pupunta.

### JOSHUA GARZA DOUBLE LUNG TRANSPLANT

Nagsimula ang pagbabakuna sa United States sa buwan ng Disyembre 2020 at nang dumating ang Enero 2021, nagmalaki si Joshua Garza na taga-Texas na hindi nito kailangan ang bakunang kontra-COVID-19.





## SIRANG BAGA, GUSTO MO? HUWAG MAGPABAKUNA

Dumating ang Pebrero 2, 2021, kinapitan siya ng COVID-19 at bumagsak siya kaya siya isinugod sa Houston Methodist Hospital na nagsasagawa ng pagpapalit-baga.

Isinailalim siya sa oxygen at nang bumuti ang kalagayan niya nitong Abril, doon na siya inoperahan at pinalitan ng baga mula sa mga donor.

Nasira ang kanyang dalawang baga, nagtubig, nagkabutas-butas, nagkaroon ng mga blood clot at kung hindi napalitan, tiyak na tepok na sana siya.

Nitong Mayo 27, pinalabas na siya sa ospital.

### TODO SISI SA 'DI PAGPAPABAKUNA

Todo sisi si Garza sa hindi pagpapabakuna noong nagkaroon siya ng tsansa na sana'y mabakunahan.

Nakita ang kanyang sarili na sampol ng mga hindi bilib sa bakuna at naiwanan niya sa ospital ang iba pang namamatay o kaya'y pinapalitan din ng mga baga.

Swerte si Garza at may mga nag-alok ng mga bagong baga na bibihirang mangyari.

### EH SA PINAS?

Sa Pilipinas ba, kung sira ang ating baga, kaya na bang magpalit ng baga ang ating mga ospital?

Ang Lung Center of the Philippines, sumubok noon na magpalit ng mga baga ngunit para sa mga hayop at naging matagumpay naman umano.

Nang nagsisimula na itong magpalit-baga para sa tao, nasunog naman ang ospital noong Mayo 1998 at hanggang ngayon, wala pang ganitong operasyon.

Sa ganitong sitwasyon, tiyak patay ang mga nagkaka-COVID sa Pinas na baga ang tinatamaan at sinisira.

### MAGPABAKUNA NA

Panawagan ni Garza sa lahat, kung andiyan na ang pagkakataon, magpabakuna na laban sa COVID-19.

Huwag paabuting ang araw na isugod tayo sa ospital sa pagkasira ng ating baga.

Si Garza, nakasurbayb sa operasyon sa palit-baga.

Kung tayo ang maopera at magpalit-baga, isa sa mga napakalaking problema ang napakalaking gastos.

Kung umaabot sa sa P700,000 hanggang lagpas sa milyong piso ang gastos sa heart transplant na unang ginawa sa Makati Medical Center noong Mayo 30, 1994, magkano naman ang lung transplant?



## SIRANG BAGA, GUSTO MO? HUWAG MAGPABAKUNA

### PINOY NA-LUNG TRANSPLANT DIN

Healthworker si Renato Aquino bilang phlebotomist o taga-kuha ng dugo mula sa tao at naninirahan sa Illinois, US.

Tinamaan siya ng COVID-19 noong Mayo 14, 2020, nasira rin ang kanyang baga at nabuhay siya sa ventilator o oxygen sa ilang buwan.

Dumating ang Pebrero 2021, dinala siya ng kanyang pamilya sa Northwestern Memorial Hospital sa Chicago na nagsasagawa ng double lung transplant at naging matagumpay ang operasyon.

Pareho niyang tinamaan ng COVID-19 ang kanyang donor subalit namatay ito sa ibang kadahilanan.

Upang hindi mahawa si Aquino, nilinis nang husto ng mga doktor ang baga ng donor bago ipinalit sa kanyang baga.

Kung tatanungin si Aquino ukol sa pagpapabakuna, tiyak na uulitin lang niya ang sinabi ni Garza.

### MAGPABAKUNA NA TAYO

May mahigit nang 12 milyong dosis ng bakuna kontra-COVID-19 sa mahal kong Pinas at may mga darating pang milyones bago matapos ang buwang ito.

Sinasabing nasa 8 milyon na ang nabakunahan sa mga araw na ito at mahigit nang 2 milyon ang may kumpletong bakuna.

'Yung bang === may ikalawa nang dosis.

Ngayon, kung naririyang mga nagbabakuna at nasa ating mga lugar, magandang alalahanin ang dinanas nina Garza at Aquino.

Magpabakuna tayo bago pa kapitan ng COVID-19 na maaari nating ikaospital nang may napakalaking gastos o tuluyang ikamatay.



# #OneDENR

Covid-19  
Situation and Response



## DENR employees get first dose of Covid-19 vaccine



FIRST JAB. DENR personnel happily show their arms jabbed with Covid-19 vaccine. (DENR)

[IAN OCAMPO FLORA](#)

June 21, 2021

MORE than 200 employees of the Department of Environment and Natural Resources (DENR) in the City of San Fernando have already received their first dose of Covid-19 vaccine, through the massive rollout of the Resbakuna program for government employees in Pampanga.

Paquito Moreno Jr., executive director of DENR in Central Luzon, said efforts of the local government units to secure vaccines for essential government workers were fundamental to safeguard the health and protection of employees, especially those who usually go on ground to do environmental monitoring and patrolling.

"We cannot forego the value of getting vaccinated during this time of pandemic, especially for our environmental frontliners who do daily works on field," Moreno said.

He also expressed his sincere appreciation to Governor Dennis Pineda of Pampanga for his initiative to organize a vaccination program for personnel of National Government agencies.

To date, 141 employees from DENR provincial and community offices across the region have already been vaccinated.

Moreno said the DENR supports the national effort to contain the spread of the virus and to encourage more Filipinos to be vaccinated.

Based on the latest record of the World Health Organization, more than six million vaccines have been administered in the Philippines.

Source: <https://www.sunstar.com.ph/article/1898414>

# DENR-CO COVID-19 Monitoring



Data on COVID-19 include reported cases of DENR employees (Permanent, Contract of Service/Job Order, Support Staff (Triumph/Security)) as collected by the Contact Tracing Team of DENR Central Office.



## Residence of affected personnel



Please note that representative dots were randomly assigned within the barangay residence of the affected personnel and do not necessarily provide direct location of residence of the cases.

Map Legend

## % COVID-19 Confirmed Cases in DENR-CO



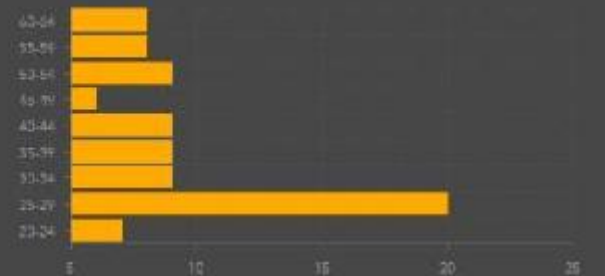
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## Daily Confirmed Cases



Last update: 41 minutes ago

## Age Group



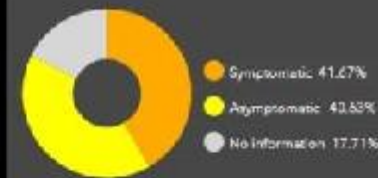
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## Age Group by Sex



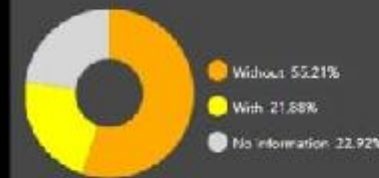
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## Health Status



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## Comorbidity



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## Sex



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LIGTAS ANG PAMILYA, LIGTAS ANG BAYAN  
#STAYSAFE

ALAMIN ANG TOTOONG IMPORMASYON!

# FAKE vs FACTS

**MAY MGA GAMOT  
AKONG PUWEDENG  
INUMIN UPANG  
MAIWASAN ANG  
COVID-19. WALANG  
SILBI ANG MGA  
BAKUNA.**



**MAGPABAKUNA  
HABANG MAAGA!**

Wala pang napatunayang gamot upang maiwasan ang COVID-19. Ngunit napatunayan na epektibo ang mga bakuna upang maprotektahan ang tao laban sa malubhang karamdaman at kamatayan.



Source: Department of Health



LIGTAS ANG PAMILYA, LIGTAS ANG BAYAN  
#STAYSAFE

# SAAN MAGPAPAREHISTRO PARA SA PAGPAPABAKUNA KONTRA COVID-19?

## Uri ng Manggagawa

## Lugar ng masterlisting



Nagtatrabaho sa pribado o  
pampublikong ahensya o  
organisasyon

Establishment/Agency/  
Organization (EOOs)



Informal sector  
(self-employed o  
nagtatrabaho sa  
pribadong sambahayan)

Local  
Government  
Unit (LGU)

Source: Department of Health



# **WANT TO GET ADDED PROTECTION FROM SEVERE COVID-19 AND DEATH?**

VACCINES WITH FDA EMERGENCY USE  
AUTHORIZATION CAN DO THAT!

VACCINE	PROTECTION FROM SEVERE COVID-19 AND DEATH*
<b>ASTRAZENECA</b>	<b>100%</b>
<b>PFIZER</b>	<b>100%</b>
<b>SINOVAC</b>	<b>100%</b>
<b>SPUTNIK V</b>	<b>100%</b>

\*BASED ON PHASE III CLINICAL TRIALS DATA

**VACCINES ARE SAFE! BE PART OF  
THE BIDA BAKUNATION!**





22 JUNE 2021, Tuesday



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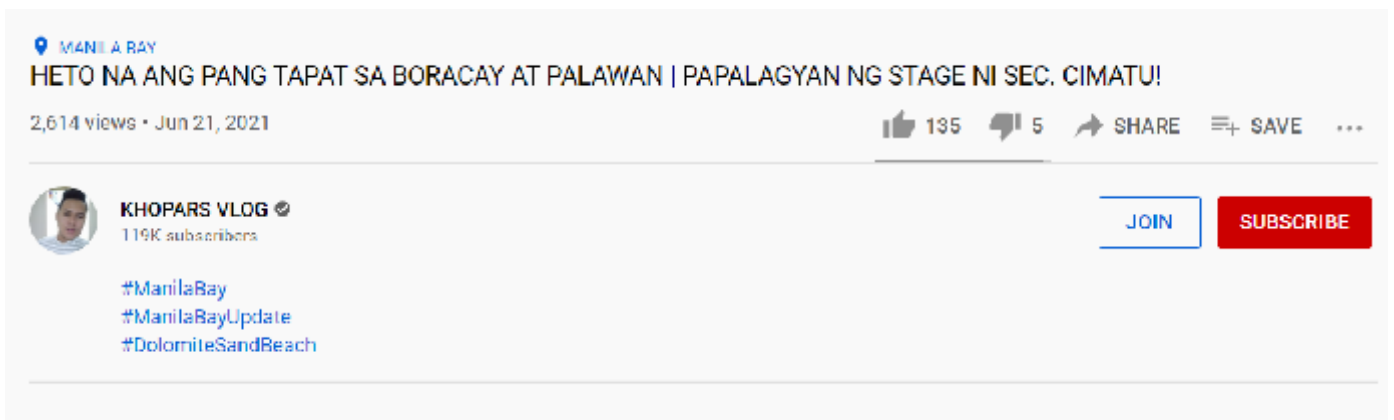
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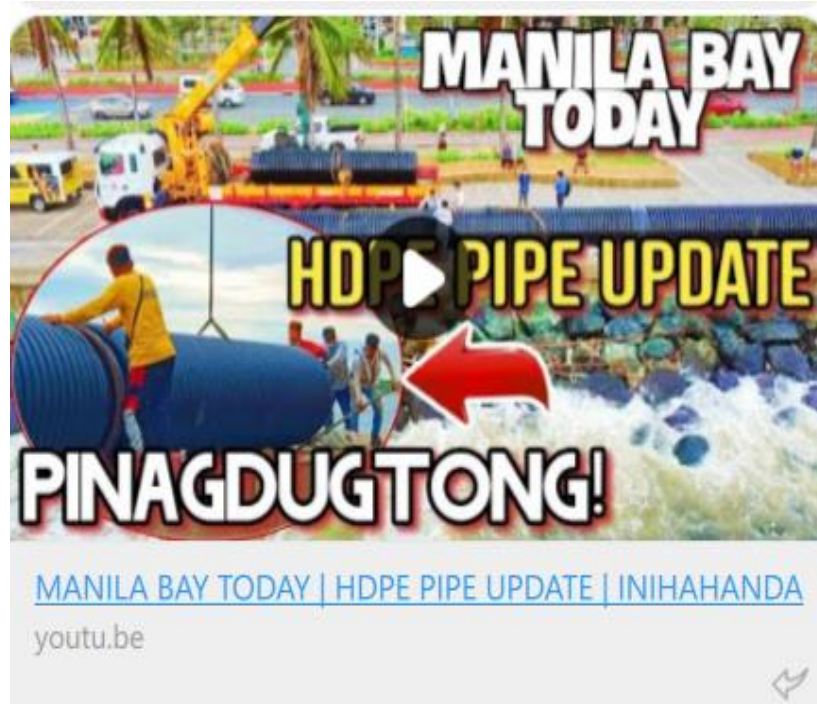
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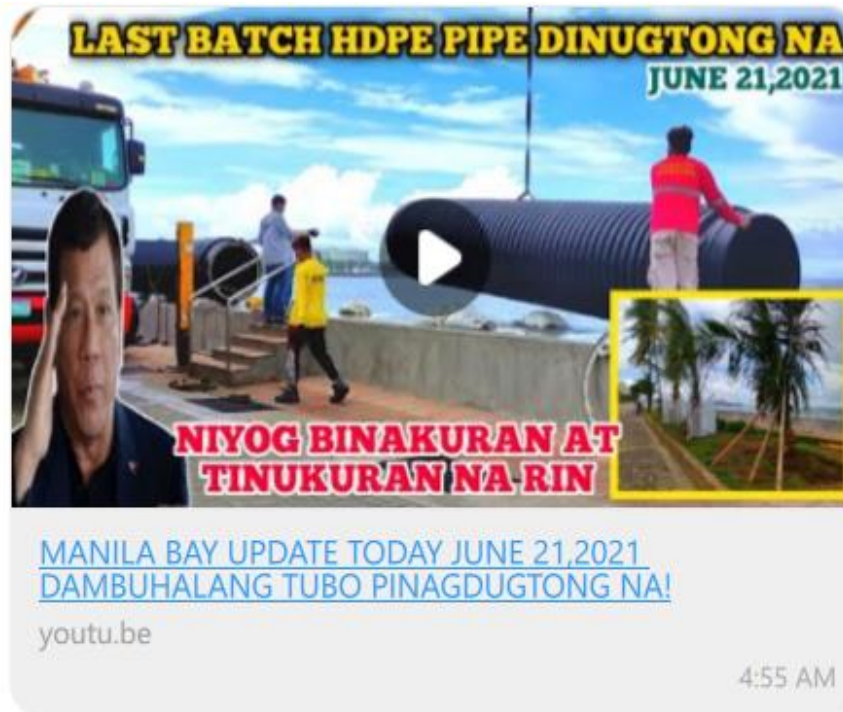
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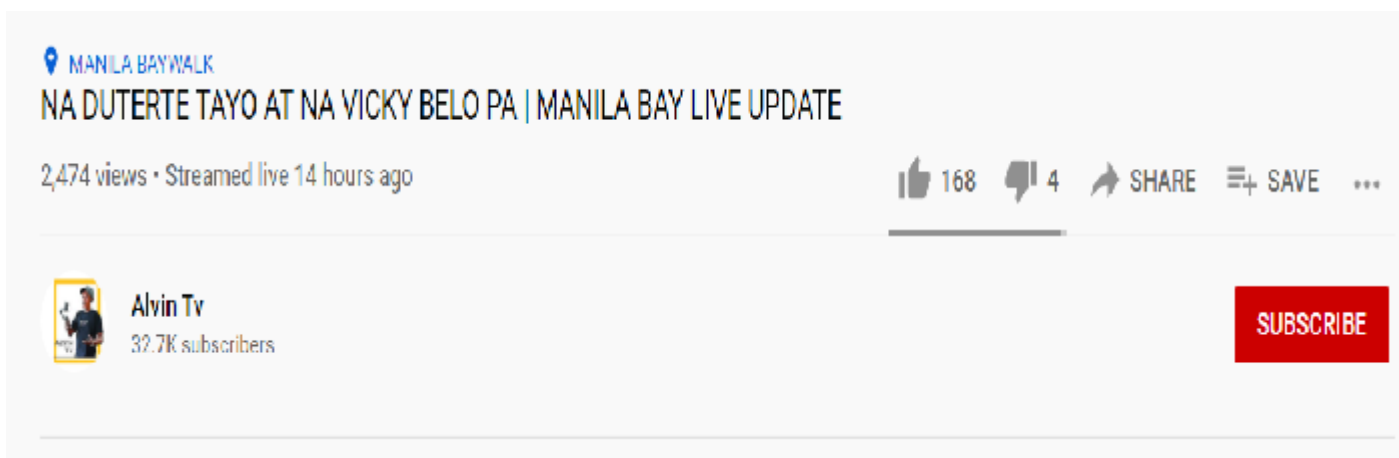
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