# The Role of Rice Reserve Mechanism in Upholding Food Security Amid the Growing Climate Impact on Rice Agriculture

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# Introduction



# Importance of rice to ASEAN Plus Three's food security

Rice agriculture plays crucial roles in food security in ASEAN Plus Three (APT) region as reflected in its share of production and consumption percentage compared to the other parts of the world.



# **Rice sector and climate change**

However, steadily expanding production and area harvested of rice as well as increasing use of synthetic fertiliser between 2001-2022 lead to rising Greenhouse Gas (GHG) emission which, in turn, contributes to climate change.



# **Rice sector and climate change**

The rice cultivation accounted for 0.5 billion tonnes  $CO_2$ eq or 10% in the total of 5.3 billion tonnes  $CO_2$ eq of GHG emission (methane or  $CH_4$  and nitrous oxide or  $N_2O$ ) emitted by crops and livestock sector in 2018. Emission from rice cultivation recorded an increase by 7 % during 2000-2018.



Contribution of crops and livestock activities to total non-CO<sub>2</sub>

Changes in non-CO  $_{\rm 2}$  emission from crops and livestock activities during 2000-2018



### Disaster trend in the last two decades

Although crucial to food security, rice agriculture is one of the causes affecting climate change which results in growing climate-related disaster incidents during 2000-2019. In APT, China, the Philippines and Indonesia ranked among top 5 of being frequently hit by disasters in the world.



Disaster events by type (1980-2019)



#### Disaster trend in the last two decades

Wind speeds of tropical cyclones in the Western North Pacific during 1978-2018



Source: UNESCAP

While not significantly affecting the number, climate change raises severity of the tropical cyclone with a maximum surface wind speed of 100 knots (185.2 Km/h) in the <u>Western North Pacific</u> between 1978-2018.



Climate change's impacts on agricultural sector can have a direct and far-reaching consequence on people's livelihood, nutrition and overall food security.



Damaged crops can create disruption in food supply and fuel food price inflation reducing both food availability and accessibility

One obvious example is drought and other related conditions caused by El Niño. The strongest El Niño events on record were in 1982/83, 1997/98 and 2015/16.





Crops destroyed by fires in Indonesia's worst drought in five years

El Niño will affect 80 per cent of Indonesia's territory, peaking in September. In many provinces, people are enduring drinking water shortages. Farmland is abandoned for lack of irrigation.



In APT, Indonesia and the Philippines were put at high priority by the FAO on the impact of 2015/2016 El Niño.

In the Philippines: El Niño incurred loss about <u>USD 258 million in crop</u> <u>production gravely affecting around</u> <u>285,000 farmers</u>.

In Indonesia, drought affected 1.2 million farmers who relied on rainfall for food production. As many as 700,000 people were threatened by food insecurity in the most affected province alone.

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In 2020, drought caused extensive damage to more than a million hectares of rice cultivating areas in Thailand, spiking up rice price in 6-year record high in March 2020 affecting households' purchasing capability.

			2000		NA 1000 247	Un	it: Hectares	
Country	Cause of Damage (Hectares)							
	Flood	Drought	Pests	Diseases	Other	Unspecified	Total	
ASEAN	111,029	1,229,655	4,052	7,260	31,202	108,044	1,491,242	
Brunei	24	25	20	23		-	92	
Cambodia	15,577	49,495	-			-	65,072	
Indonesia	64,189	8,450	×.	7,237		-	79,876	
Lao PDR	-	-	-			108,044	108,044	
Malaysia	-	-	1,599	-			1,599	
Myanmar	31,239	37,468	2,433		11,759		82,899	
Philippines	N/A							
Singapore	N/A							
Thailand	-	1,134,217	-	-	19,443		1,153,660	
Vietnam	N/A							

Paddy damaged area in ASEAN in 2020

Remark: N/A refers to data is not available.

Source: AFSIS



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<u>Climate-driven calamity can also give rise to unemployment and/or dwindle wages and income of</u> <u>agricultural workers causing poverty and undermining purchasing power</u>, especially in ASEAN where a significant portion of workers have still been employed in agricultural sector

GDP Share, Employment, Exports and Imports Share of Agriculture Sector in ASEAN during 2019-2020

(in percent)

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GDP Share <sup>1)</sup>		Employment Share <sup>2</sup>		Exports Share		Imports Share	
2019	2020	2019	2020	2019	2020	2019	2020
0.8	0.8	2.0	1.3	0.2	0.2	10.0	10.8
16.7	17.3	33.1		4.8	4.7	7.0	7.9
12.4	12.4	27.5	29.8	19.2	22.4	10.9	12.9
14.0	13.9			23.0	28.6	15.8	19.3
7.1	7.1	12.1	12.4	8.6	9,4	7.7	8.9
22.3	22.0	48.9		24.3	28.9	12.0	13.4
9.2	10.2	22.9	26.0	9.4	9.5	12.4	14.3
0.0	0.0			3.5	4.1	3.7	3.7
6.2	6.2	35.0	35.0	14.4	7.8	6.5	11.6
13.7	13.6	37.5	35.7	9.9	8.0	7.8	8.6
				9.9	10.4	7.4	8.2
				141,193.7	145,345.7	102,591.1	104,129.2
	2019 0.8 16.7 12.4 14.0 7.1 22.3 9.2 0.0 6.2	2019         2020           0.8         0.8           16.7         17.3           12.4         12.4           14.0         13.9           7.1         7.1           22.3         22.0           9.2         10.2           0.0         0.0           6.2         6.2	2019         2020         2019           0.8         0.8         2.0           16.7         17.3         33.1           12.4         12.4         27.5           14.0         13.9         -           7.1         7.1         12.1           22.3         22.0         48.9           9.2         10.2         22.9           0.0         0.0         -           6.2         6.2         35.0	2019         2020         2019         2020           0.8         0.8         2.0         1.3           16.7         17.3         33.1         -           12.4         12.4         27.5         29.8           14.0         13.9         -         -           7.1         7.1         12.1         12.4           22.3         22.0         48.9         -           9.2         10.2         22.9         26.0           0.0         0.0         -         -           6.2         6.2         35.0         35.0	2019         2020         2019         2020         2019           0.8         0.8         2.0         1.3         0.2           16.7         17.3         33.1         .         4.8           12.4         12.4         27.5         29.8         19.2           14.0         13.9         .         .         23.0           7.1         7.1         12.1         12.4         8.6           22.3         22.0         48.9         .         24.3           9.2         10.2         22.9         26.0         9.4           0.0         0.0         .         .         3.5           6.2         6.2         35.0         35.0         14.4           13.7         13.6         37.5         35.7         9.9	2019         2020         2019         2020         2019         2020           0.8         0.8         2.0         1.3         0.2         0.2           16.7         17.3         33.1         -         4.8         4.7           12.4         12.4         27.5         29.8         19.2         22.4           14.0         13.9         -         -         23.0         28.6           7.1         7.1         12.1         12.4         8.6         9.4           22.3         22.0         48.9         -         24.3         28.9           9.2         10.2         22.9         26.0         9.4         9.5           9.2         10.2         22.9         26.0         9.4         9.5           9.2         10.2         22.9         26.0         9.4         9.5           9.2         10.2         35.0         35.0         14.4         7.8           13.7         13.6         37.5         35.7         9.9         8.0           13.7         13.6         37.5         35.7         9.9         10.4	2019         2020         2019         2020         2019         2020         2019         2020         2019         2019         2020         2019 <th< td=""></th<>

Source: ASEAN Secretariat



#### REPORT / 18 MAR, 2021

Climate Change-Related Disasters a Major Threat to Food Security - FAO

#### 1 🛈 🕑



18 March 2021, Rome – A new report released today by the Food and Agriculture Organization (FAO) shows that the increasing frequency and intensity of extreme weather disasters such as floods, droughts and megafires as a result of climate change is having a devastating effect on food security and livelihoods.

The report highlights the need for stronger disaster risk reduction policies and intensified efforts to build resilience to the adverse impacts of climate change to ensure agriculture's crucial role in achieving a crucial to be formed. Decreasing food availability, price spike in food commodities, reducing purchasing capacities and thus economic access to food, among many other factors, <u>erode food consumption</u> of poor and vulnerable households in both quality and quantity, causing serious issues of malnutrition and food insecurity. This is particularly apparent in the disaster-affected areas.



# APTERR's role in upholding food security



# **Establishment of APTERR**

To strengthen food security and eradicate poverty and malnutrition, the APT members decided to establish regional rice reserve mechanism called "<u>ASEAN Plus Three Emergency</u> <u>Rice Reserve (APTERR)</u>"





The APTERR Agreement was signed at the 11th Meeting of AMAF+3 on 7 October 2011 in Jakarta, Indonesia

APTERR mechanism addressed the impact on <u>food availability and accessibility</u> by operating rice assistance as a short-term relief using <u>two types of rice reserves</u>.

#### 1. Earmarked emergency rice reserve

Certain 787,000 MT quantity of rice voluntarily designated by each APTERR members in accordance with APTERR Agreement for meeting emergency requirements <u>mainly used under commercial basis</u>.







#### 2. Stockpiled emergency rice reserve

Rice voluntarily <u>donated</u> in form of cash or physical rice from members or appropriate international organisations with <u>no committed amount</u>.



Rice releasing programmes including <u>Tier 1, Tier 2 and Tier 3</u> enable APTERR rice reserves to effectively correspond to different emergency requirements.

1. Tier 1 programme

Releasing <u>Earmarked rice</u> for increasing domestic food availability in the event of emergency.

By signing "Forward contract" prearranging <u>terms and conditions</u> such as specific quantity or pricing method with a supplying APTERR member.

The contract is made <u>in anticipating of</u> <u>emergency</u> under commercial basis.

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MEMORANDUM OF COOPERATION	<ol> <li>This MaC should assemance unmentative upon the allaing of signatures by the subons representatives of the Parties.</li> </ol>		
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Signing of the Memorandum of Cooperation (MoC) for the Release and Utilisation of Earmarked Stocks under the Tier 1 Programme of APTERR on 11 October 2018 in Ha Noi, Viet Nam The implementation of Tier 1 between the demanding Philippines and the supplying Japan, guarantees the availability of 10,000 MT of Earmarked rice should the Philippines experiences any emergency and is in immediate need of rice.



#### 2. Tier 2 programme

Releasing <u>Earmarked rice</u> for increasing domestic food availability in the event of emergency.

By entering into "other arrangements" with a supplying APTERR member such as cash payment, long-term loan, or grant.

The arrangement is made <u>after</u> emergency occurs and in case Tier 1's forward contract is made beforehand.



#### 3. Tier 3 programme

Releasing <u>Stockpiled rice</u> for increasing domestic food availability and accessibility in the event of emergency

It is a <u>donation</u> on voluntary basis from donating APTERR member which can be divided into <u>two types</u>:

- Pre-positioned stockpiled rice system
- Urgent Request



While increasing rice availability, the <u>Pre-positioned stockpiled rice system</u> also enhanced physical access to rice as the rice is stored in advance in the optimal location convenient to distribute in recipient APTERR member for up to 12 months.



After the end of stockpiling period, <u>the Pre-positioned stockpiled rice system</u> can also tackle the problem of <u>chronic hunger and malnourishment among vulnerable groups</u>, for example, impoverished farmers or <u>school children</u>.



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Tier 3 programme has been consistently implemented to meet various rice requirements arising from natural or man-made disasters, and other humanitarian concerns. More than 4 million people in APT region have been benefitted from a total of 32,007.8 MT of stockpiled rice implemented through Tier 3 programme since 2011.

Release year	Recipient	Donor	Amount of rice (MT)
2011	Thailand	Japan	50
2012	Indonesia	Japan	200
2013	Lao PDR / Philippines	Japan	630
2014	Philippines	Malaysia / Thailand / China	6,150
2015	Philippines	Japan	580
2016	Cambodia / Philippines	Japan	450
2017	Myanmar	Korea	267
2018	Cambodia / Myanmar / Lao PDR / Philippines / Viet Nam	Japan / Korea	12,733
2019	Myanmar / Lao PDR / Philippines	Japan / Korea	2,560
2020	Cambodia / Myanmar / Philippines	Japan / Korea	5,163.8
2021	Cambodia / Lao PDR / Philippines	Japan / Korea	1,600
2022	Cambodia / Myanmar / Philippines	Japan / Korea	1,624
	Total		32,007.8



#### The examples of APTERR Tier 3 programme in action!

In 2012, the amount of 200 MT of rice from Japan was distributed to 20,000 impoverished households who suffered from food insecurity and malnutrition in Indonesia (after stockpiling period terminated).



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#### The examples of APTERR Tier 3 programme in action!

In 2014-2015, more than 400,000 households suffered from the unprecedented typhoon Haiyan in the Philippines received 6,730 MT of urgent rice assistance from Malaysia, Thailand, China and Japan.



TREE EMERGE

#### The examples of APTERR Tier 3 programme in action!

In 2018, the total of 250 MT of rice from the Republic of Korea was released to 7,250 farmers in Cambodia experiencing difficulties from floods, prolonged drought and poverty.



#### The examples of APTERR Tier 3 programme in action!

In 2018, 10,000 MT of rice contributed by the Republic of Korea successfully strengthened food security of around 605,000 people affected by the impact of severe typhoon Damrey in Viet Nam.



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#### The examples of APTERR Tier 3 programme in action!

Recently, in May 2022, the adversity of 10,000 households in the Philippines induced by typhoon Rai was mitigated by 300 MT of rice donated by Japan.



Other than regular natural disasters, the <u>APTERR Tier 3 programme</u> has also been utilised to prevent possible food insecurity amid <u>catastrophic outbreak of COVID-19 since 2020</u>.

The total of <u>2,130</u> <u>MT</u> of Tier 3 rice from Japan and Korea was operated to ensure adequate food for <u>above</u> <u>200,000 people</u> in Cambodia, Myanmar and the Philippines.



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#### Flexible mechanism for better serving the people of APT region

While mainly utilising the milled rice, the APTERR Tier 3 programme also welcomes the usage of the <u>pre-</u> <u>cooked rice</u>, which possesses some advantages in terms of the <u>less time preparation and convenient cooking</u> <u>process</u>.

This makes more effective rice assistance in times of calamities where people may find difficulty in cooking and preparing the regular milled rice that requires more time and utensils.



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#### Flexible mechanism for better serving the people of APT region



New initiative of "School Distribution Programme" proposed by Japan to be implemented under Tier 3 programme in 2022 also enables APTERR rice to be specifically distributed to school students after six month stockpiling period expires for increasing their nutrition.



Flexible mechanism for better serving the people of APT region



The APTERR Tier 3 programme also offers another option of "<u>cash contribution</u>" to purchase available local rice to overcome the delay of rice transportation due to international logistic disruption. The option, in an indirect way, also economically supports the local farmers in the recipient APTERR member.

USD 270,000 cash contribution from Japan for buying 425 MT of local rice to alleviate the impact of Taal volcano eruption in the Philippines in 2020



#### Flexible mechanism for better serving the people of APT region

APTERR Tier 3 also offers fast-track process of "automatic trigger" where the release of 50 MT of rice or less is verified by the APTERR Secretariat.

This results in a quicker response to the humanitarian or acute emergency using small amount of rice.



APTERR

<u>The APTERR mechanism</u> monitors and evaluates food security situation in the overall of APT region. The result of evaluation is circulated to APTERR Parties on quarterly and annually basis.

It utilises <u>FEMI Indicators including Self-Sufficiency Ratio (SSR), Stock-to-utilisation Ratio (STU), Output Gap</u> (G) and World Price Growth (WPG) to indicate the level of rice availability and emergency status and periodically inform thereof to the members.

- Self-Sufficiency Ratio (SSR): Measure the ability to produce rice to accommodate domestic utilisation
- Stock-to-utilisation Ratio (STU): Measure adequacy of the member's beginning rice stock compared to domestic utilisation
- World Price Growth (WPG): Observe the growth monthly price of Thai White Rice 5% to evaluate rice availability in the international market



#### 形面IIgkok 到05t THAILAND WORLD BUSINESS OPINION AUTO LIFE Flooding causes severe damage to Kalasin rice fields



Many rice fields in Kalasin province are still under water, although water levels in the province are receding steadily. Flooding in this northeastern province has caused severe damage to farmland and livestock. (Photo by Yongyuth Phuphuangpet)

In particular, the <u>output gap</u> indicator is for measuring the unexpected calamities (such as those triggered by climate events) that have impact on paddy production.

By calculating the shortfall between the reference domestic production (projected by the end of the previous year) and the current domestic production (updated or estimated).

It enables APTERR to monitor and evaluate on possible rice shortage situation.



Alert level	Self-sufficiency	Production Gap	Domestic stock	Foreign stock
Normal	$SSR \ge 100$	G < G <sub>c</sub>	$STU \ge 20$	WPG < 12
Normal	$SSR \ge 100$	G < G <sub>c</sub>	$STU \ge 20$	$WPG \ge 12$
Normal	$SSR \ge 100$	G < G <sub>c</sub>	STU < 20	WPG < 12
Normal	$SSR \ge 100$	$G \ge G_c$	$STU \ge 20$	WPG < 12
Normal	SSR < 100	G < G <sub>c</sub>	$STU \ge 20$	WPG < 12
Warning	$SSR \ge 100$	G < G <sub>c</sub>	STU < 20	$WPG \ge 12$
Warning	$SSR \ge 100$	$G \ge G_c$	$STU \ge 20$	$WPG \ge 12$
Warning	SSR < 100	G < G <sub>c</sub>	$STU \ge 20$	$WPG \ge 12$
Warning	$SSR \ge 100$	$G \ge G_c$	STU < 20	WPG < 12
Warning	SSR < 100	G < G <sub>c</sub>	STU < 20	WPG < 12
Warning	SSR < 100	$G \ge G_c$	$STU \ge 20$	WPG < 12
Emergency	SSR <100	$G \ge G_c$	STU < 20	WPG < 12
Emergency	SSR < 100	$G \ge G_c$	$STU \ge 20$	$WPG \ge 12$
Emergency	SSR < 100	G < G <sub>c</sub>	STU < 20	$WPG \ge 12$
Emergency	$SSR \ge 100$	$G \ge G_c$	STU < 20	$WPG \ge 12$
Emergency	SSR < 100	$G \ge G_c$	STU < 20	$WPG \ge 12$

#### FEMI: Alert levels and corresponding indicator conditions (units in percent)

By considering all four FEMI indicators together, the APTERR is able to assign the <u>alert level or</u> food emergency status consisting of Normal, Warning and Emergency and recommend the release of rice reserve.



Note: Shaded cells denote condition in which the indicator is beyond its cut-off value.



WEEKLY UPDATE ON ASEAN PLUS THREE RICE SITUATIONS

No. 251 5 - 11 January 2022

#### Cambodia

Drought damaged fewer rice fields in 2021 due to the prevalence of flash floods. Effects of drought on rice production in 2021 were less than 2020 as flash floods brought enough water to irrigate rice fields, even though some were inundated for too long and destroyed. According to the report of Ratanakiri province, there were no rice production losses by drought. Nevertheless, the province reported 505 hectares of rice fields destroyed by flash floods and another 4,081 hectares of rice fields suffered some damage from flooding.

Source: Khmer Times. (2022, Jan 11). Effects of natura disasters on rice production assessed.

#### Philippines

Department of Agriculture (DA) pushes for clustered hybrid rice farms. The DA has promulgated a policy on the establishment of clustered hybrid rice farms to improve rice production as well as showcase hybrid rice production to promote farmers' adoption of new technology. The provincial hybrid rice cluster farms would be implemented in 15 provinces at the beginning of the 2021-2022 dry season and would continue every cropping season. Each cluster farm site would be allocated at least 100 hectares. According to the agriculture advisor for the hybrid rice programme, more than 1 million hectares of land have been cultivated hybrid rice since 2019. Also, hybrid rice cultivation areas are expected to reach 1.1 million hectares nationwide in 2022.

Source: Philippine Daily Inquirer. (2022, Jan 7). Agriculture department pushing for clustered hybrid rice farms.

#### Thailand

Thai rice export prices hit the highest level in nearly three months. Rates for Thai 5 percent broken rice rose to 390-402 USD per tonne, the highest level since mid-October 2021, versus 387-396 USD per tonne last week. The traders expect more demand from the overseas market this year, so, some exporters have started to build up their rice stockpiles.

Source: Reuters. (2022, Jan 6). Asia RICE-Thai trades bank on high overseas demand; strong rupee lifts India rates.

#### Viet Nam

Prices of Vietnamese rice are stable this week amid the tight domestic supply. Vietnamese 5 percent broken rice prices remained unchanged at 395-400 USD per tonne. Trading activities are still warming up after the holidays, according to a trader based in Ho Chi Minh City. Domestic rice prices are increasing because of the low domestic supplies, while many exporters are increasing their rice purchases to fulfil the export

Source: Reuters. (2022, Jan 6). Asia Rice-Thai trades bank on high overseas demand; strong rupee lifts India rates.

contracts they have signed before.

Gathered by the APTERR Secretariat Tel:+66 (0) 2579 4816-17 Fax: +66 (0) 2579 4840 Email: sita.kum@apterr.org Website: http://www.apterr.org/

\* This Weekly Update on ASEAN Plus Three Rice Situations is based on all available sources during the period. The APTERR Secretariat shall take no responsibility for data accuracy in this publication and any consequence of their use.



WEEKLY UPDATE ON ASEAN PLUS THREE FOOD SECURITY RELATED INFORMATION

No. 250 29 December 2021 – 4 January 2022

#### Indonesia

Floods led to extensive damages and loss of lives in Indonesia's Sumatra island. Torrential downpours for days triggered many rivers to burst their banks, causing floodwater to rise in residential areas on Sumatra Island, Indonesia. On 4 January 2022, the officials reported that around 24,000 people were displaced while two children were killed in Aceh province. Some buildings and agricultural lands in the province were damaged. Besides, inundations also wreaked havoc Jambi province, submerging several houses.

Source: The Jakarta Post. (2022, Jan 5). 24,000 evacuated, two dead in Sumatra floods.

#### Lao PDR

Losses from the quakes in Lao PDR reached more than USD 100,000. Earthquakes of magnitude 5.7 and 4.6 jolted Yord Ou district in Phongsaly 125,792\* in damages. Following this, two districts of the province also experienced other 3.5 and 3.3-magnitude earthquakes on 25 and 26 December 2021 respectively.

\* USD 1 = LAK 11,129.50, as of 29 December 2021 Source: The Laolian Times. (2021, Dec 29). Phongsaly Reports Over LAK 1.4 Billion in Damage from Earthquakes.

The Philippines

Torrential rains led to numerous hazards in the Philippines. Moderate to heavy rainfalls hit Bicol region of the Philippines during 26-27 December 2021, causing floods and landslides in Sorsogon and Camarines Norte provinces. There was one person killed while 1.093 fled from their homes. Moreover, a total of 1,300 individuals were stranded at the seaports. Three national roads were also impassable as a result of landslides. Subsequently, the intense rain also caused flood landslides and soil erosions in Northern Samar and Southern Levte provinces of Eastern Visayas region between 28 December 2021 - 1 January 2022, affecting 534 neonle

Source: AHA Centre. (2021, Dec 29). Philippines, Storms, Flooding, and Landstide in Bicol Region (Region V). AHA Centre. (2022, Jan 1). Philippines, Storms, Tooding and Landstide in Eastern Visayas (REGION VIII).

#### China

A moderate earthquake rocked southwestern China. According to local authorities, there were 30 people injured, yet none were life-threatening, after a 5.5magnitude earthquake shook Ninglang county in southwest China's Yunnan province on 2 January 2022. Also, the quake affected a total of 26,797 people in four towns and 1,546 households had to relocate. In the meantime, thousands of tents, quilts, folding beds and overcoats were delivered to those people in need in the affected areas. The APTERR also constantly compiles information on <u>disaster</u> <u>occurrences and rice</u> <u>situation</u> in every week. The weekly update is available on APTERR's website and social media for <u>public to</u> freely access.



# How APTERR contributes to an achievement of SDG

With the main objective to strengthen food security, poverty alleviation, and malnourishment eradication as well as other humanitarian purposes, <u>the release of APTERR rice reserves directly serves and contributes</u> <u>to the achievement of SDG 2: Zero Hunger</u>

#### Target 2.1: Universal Access to Safe and Nutritious Food

✓ The release of rice reserves whether under the Tier 1, Tier 2 and Tier 3 has an aim of increasing rice availability and ensuring physical and economic access of the poor and vulnerable people encountering emergency situation to safe and nutritious rice from the government of the APTERR members or proper international organisation based on international accepted standard as stated by the Codex Alimentarius.



TIREE EMERGE

# How APTERR contributes to an achievement of SDG

#### Target 2.2: End all Forms of Malnutrition

✓ Not only addressing emergency, the APTERR also allows the release <u>of stockpiled rice to</u> <u>meet the requirement of malnutrition eradication</u> after the termination of stockpiling period. In particular, in 2022, Japan has proposed to carry out the initiative of "<u>School</u> <u>Distribution Programme</u>" under Tier 3 programme with the targets on serving nutritional needs of young school children in the Philippines.



# How APTERR contributes to an achievement of SDG

- > <u>Target 2.7: Prevent Agricultural Trade Restrictions, Market Distortions and Export Subsidies</u>
- ✓ <u>The export restriction during the food price crisis in 2007-2008</u> is one of the main driving forces behind the permanent establishment of the APTERR mechanism. <u>The Earmarked emergency rice reserve amounting to 787,000 MT</u> can provide insurance of food availability to any APTERR members in need of rice when facing acute implications of calamities simultaneously with the scarcity of food supply and export restrictions in the international market. <u>The implementation of APTERR cannot distort the normal global rice market and liberal trade</u>.



# Thank you

