

Role of DA-PHilMech in Reducing Postharvest Losses*

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* Presented to the APEC High Level Policy Dialogue on Enhancing Public and Private Partnership to Reduce Food Losses and Waste for a Sustainable APEC Food System" Howard Plaza Hotel, Chinese Taipei, June 14-15, 2018

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Department of Agriculture









































PHILMECH HISTORY IMS POLICY PROGRAMS ORGANIZATION PEOPLE

Philippine Center for Postharvest Development and Mechanization (PHilMech) is an attached agency of the Department of Agriculture (DA) created through Executive Order 116 in 1986 to accelerate the development of the grains postharvest industry in the country including mechanization concerns from production to postproduction through the coordination and execution of research and extension activities and application of postproduction and agricultural mechanization techniques.

"...to accelerate the development of the postharvest industry in the country including mechanization concerns from production to postproduction through research and extension activities..."

Mission

To empower the agriculture and fishery sector by increasing resource-use efficiency and productivity, **reducing losses** and adding value to the produce **through research**, **development** and extension



How to attain our mission?

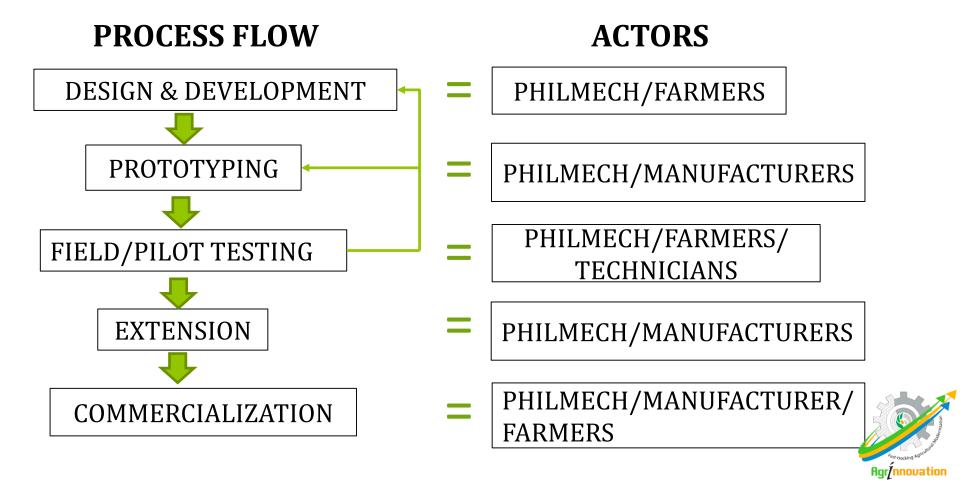
- How PHilMech works with the farmers and the farmers' groups?
 - DA-PHilMech establish baseline information, supply chain, existing postharvest system, identify gaps in PH
 - Mechanization in PHL reduction



How to attain our mission?



Engage in Public Private Partnership (PPP)



Why RICE? - basic food staple of the Filipinos

Table 1. Philippine per capita consumption (PCC) of staples, 2015-2016

| COMMODITY | PCC (kg/yr) | PERCENT SHARE (%) |
|--------------|----------------|----------------------|
| Rice | 109.87 | 82.65 |
| Corn | 14.70 | 11.06 |
| Sweet potato | 4.53 | 3.41 |
| Cassava | 2.93 | 2.20 |
| White potato | 0.91 | 0.68 |
| Total | 132.94 | 100.00 |

Source: Philippine Statistics Authority, 2016





Philippine Rice Industry Roadmap for Development, 2017-2022

Improve Competitiveness

№ Reduce average postharvest losses from 14% to 12%

Source: DA-CAFED









Strategies (How) to reduce postharvest losses from 14% to 12%

Promote use of combine harvester

Source: DA-CAFED









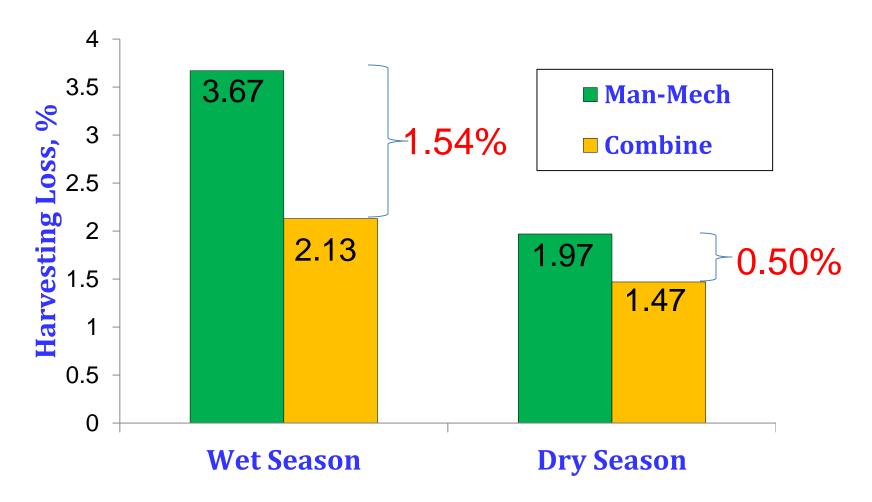


Fig. Effects of using combine harvester on reduction of losses

Source: Malanon et al, 2015

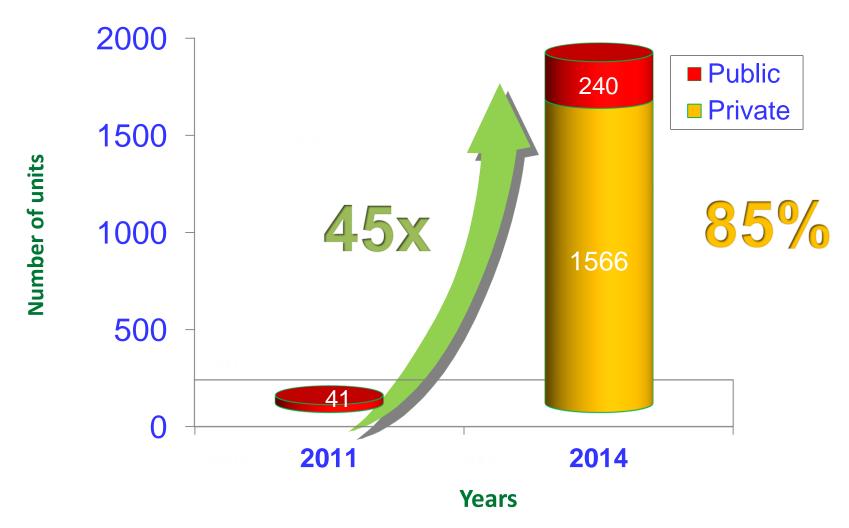


Fig. Number of combine harvesters



Source: Malanon et al, 2015

Strategies (How) to reduce postharvest losses from 14% to 12%

- Promote use of combine harvester
- Promote efficient drying system
- Improve milling recovery from 64.1% to 65%
- Conduct R&D on reducing PH loss
 - mechanical dryer and rice milling loss assessments

Source: DA-CAFED









Strategies (How) to reduce postharvest losses from 14% to 12%

- Promote responsible rice consumption:

 - **❖** Reduce table rice wastage from 3 to 1 tbsp/day
 - **Advocate for healthy rice consumption**
 - **Advocate for brown rice consumption**

Source: DA-CAFED









How to attain our mission?



What are the major policy concerns to reduce food losses and waste?



SIXTEENTH CONGRESS OF THE REPUBLIC OF THE PHILIPPINES First Regular Session



13 OCT 16 P5:34

SENATE SENATE SENATE BILL NO. 1863

RECEIVED BY:

Introduced by Senator Ferdinand R. Marcos, Jr.

AN ACT PENALIZING THE PRACTICE OF RESTAURANTS, HOTELS, INNS, CANTEENS, STEAKHOUSES, EATERIES AND THE LIKE FROM REFUSING TO SERVE ORDER OF RICE FROM A CUSTOMER IF IT BE LESS THAN ONE(1) CUP, AND FOR OTHER PURPOSES.

Be it enacted by the Senate and House of Representative of the Philippines in congress assembled:

SECTION 1.- Short Title- This Act shall be known as the "Anti-Rice Wastage Act of 2013"



QC restos now required to offer half servings of rice at half the price

By: Erika Sauler - Reporter / @erikaINQ

Philippine Daily Inquirer / 04:07 PM August 06, 2014

MANILA, Philippines—It's official. Half-cup rice serving must also be available in restaurants.







i news.abs-cbn.com/news/09/06/17/half-cup-rice-ordinance-approved-in-iloilo

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Half-cup rice ordinance approved in Iloilo





GenSan now requires 'half-rice' on menus

Jay Dayupay, ABS-CBN News Socsksargen

Posted at Jan 29 2016 03:24 PM

Source: http://news.abs-cbn.com/nation/regions/01/29/16/gensan-now-requires-half-rice-on-menus

GENERAL SANTOS CITY - A new ordinance in General Santos mandates all food establishments in the city to offer half-cup rice or "half-rice" on their menus.

Putting 'half rice' on the menu

Why 'half rice' should be offered for rice-loving Philippines

Sonny P. Pasiona Published 6:52 PM, July 28, 2016 Updated 10:02 AM, July 29,





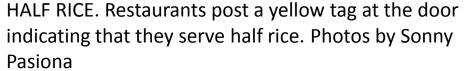








Source: https://www.rappler.com/move-ph/issues/hunger/141196-half-rice-food-security







SunStar PHILIPPINES

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Half-cup rice law to take effect in 3 months





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Councilors ok 1/2 cup rice law

Posted on January 10, 2018 by Ma. Cecilia Badian

FOOD establishments in the city will soon be required to provide a one-half cup of rice option in their menu.

The City Council of Davao yesterday approved on final reading the "Davao City Rice Conservation Ordinance."

Source: http://mindanaotimes.net/councilors-ok-1/2-cup-rice-law/

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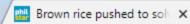
KARINA C. CAñEDO 145 days ago



A DAVAO City councilor said the implementation of the 'half-cup rice' ordinance is expected to start three months after its final approval at the City Council.

Source: http://www.sunstar.com.ph/article/413631/Half-cup-rice-law-to-take-effect-in-3-months









(i) https://www.philstar.com/headlines/2016/09/18/1624978/brown-rice-pushed-solve-malnutrition



THE PHILIPPINE STAR | INTERAKSYON | PILIPINO STAR NGAYON | THE FREEMAN | PAN HOME HEADLINES OPINION NATION WORLD BUSINESS SPORTS

SOUTH CHINA SEA

Brown rice pushed to solve malnutrition









Ding Cervantes (The Philippine Star) - September 18, 2016 - 12:00am

SAN FERNANDO, Pampanga, Philippines – Brown rice advocates are bringing their cause to social media, introducing what they call the "Brown4Good Challenge," not only to curb malnutrition, but to help poor Filipinos.

Backed by the government's Department of Agriculture and Philippine Rice Research Institute, the private sector-initiated "Be RICEponsible" campaign is introducing the web competition among all of the country's regions to gather 50,000 posts in social media with the hash tags "#BROWN4Good" and, for Central Luzon, "#Region3."

"For every post with the said hash tags, a cup of brown rice is donated to the less fortunate," said Be RICEponsible campaign director Hazel Antonio. "The challenge will run until Oct. 31."





REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT

A. Francisco Gold Condominium II, EDSA cor. Mapagmahal St., Diliman, Quezon Cay Tel Nos. 925-0330/31; 925-8888 ● Fax Nos. 925-0332; 925-0332

October 4, 2010

MEMORANDUM CIRCULAR

No. 2010 - <u>108</u>

TO

ALL PROVINCIAL GOVERNORS, CITY/MUNICIPAL MAYORS,

PUNONG BARANGAYS, DILG REGIONAL DIRECTORS/ARMM REGIONAL SECRETARY/FIELD OFFICERS AND OTHERS

CONCERNED

SUBJECT

IMPLEMENTATION OF REPUBLIC ACT NO. 9803. OTHERWISE

KNOWN AS THE "FOOD DONATION ACT OF 2009"

In consonance with the State policy to alleviate national poverty and reduce food wastage, Republic Act No. 9803, otherwise known as the "Food Donation Act of 2009" was enacted into law on 25 November 2009 to encourse

To encourage the donation of food for charitable purposes

Source: http://www.dilg.gov.ph/issuances/mc/Implementation-of-Republic-Act-No-9803-Otherwise-Known-as-the-Food-Donation-Act-of-2009/270

Fast-food chains asked to donate leftovers to charity

Manila Bulletin 18 Feb 2015 By JENNY E. MANONGDO

Unconsumed food produced by restaurants and other food establishments should be donated to help assuage hunger and reduce wastage.

The Manila City Council emphasized this yesterday even as it vowed to initiate a massive information campaign to owners of food establishments about the importance and implementation of the food donation law in the country.

Republic Act 9803 or the Food Donation Act of 2009 aims to reduce food wastage by encouraging the donation of food for charitable purposes, ' wholesome food' or food that meets quality standards, clean excess food, and not leftover except milk products.

According to Councilors John Marvin Nieto and Marlon Lacson, it has been five years since the passage of the food donation law but it remains unknown' to most hotel and restaurant owners and operators, thus, making them 'unwilling' to donate excess food in their establishments to charitable purposes.

The law designates the Department of Social Welfare and Development (DSWD) as the main coordinating agency in the implementation of the law with the Philippine Red Cross as its auxiliary arm. In local governments, the law's

BusinessMirror

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n wasting

Solon wants Pinoys to stop wasting food

By Jovee Marie de la Cruz - September 19, 2017



A leader of the House of Representatives is pushing for the passage of a measure that seeks to reduce food waste by requiring businesses to donate or recycle excess food.

https://businessmirror.com.ph/solon-wants-pinoys-to-stop-wasting-food/

Garin filed (2017) House Bill (HB) 6235

"Much is needed to be done to reduce food wastage. Behavioral change is necessary to combat this problem,"

Senate Bill No. 357, or the Zero Food Waste

Act - seeks to "ultimately end the cycle of having food end up in the trash instead of stomachs."

CONCLUSION

The strategy of adopting public private partnership (PPP) in the research, development, extension and commercialization continuum is a vital key in the attainment of reducing postharvest losses

Existing government policies related to reducing food loss and waste have to be continuously imparted from the producers down to the consumers for the continual reduction of food loss and waste along the food chain



THANK YOU FOR LISTENING



Department of Agriculture

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www.philmech.gov.ph

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