



Food Loss and Waste Reduction in Japan





FLW policymaking of Japan: Key points



- In 2000, Japan carried out a first quantification exercise of FLW. The exercise brought to light the causes of FLW, including the commercial practice of excess inventory and returns indirectly caused by consumer preferences.
- In response to the SDG Target 12.3 set up in 2015, existing policies were revised, and the Act on Promotion of Food Loss and Waste Reduction was introduced in 2019.
- Several government institutions are the custodians of the Japanese FLW strategies, predominantly MOE, MAFF, and CAA. Each agency has a distinct role, focusing on specific food value chain stage and policy instruments, and collaborating over some instruments.
- Japan is one of the few countries that carries out impact assessment of FLW policies.
 - FLW is quantified annually to manage business and household FLW reduction goals.

The basic policy sets the goal of reducing business FLW by 60% and reducing household FLW by 50% by FY 2030, compared to FY 2000 levels.
 - A household survey is conducted on an annual basis to evaluate social impacts including consumer awareness and behavioral change on FLW.

The percentage of nations who are aware of the FLW problem and are working to reduce FLW is 74.9%(FY2024), with the goal of 80%.



Act on Promotion of FLW Reduction

Promulgation: 31/May/2019 as Act No.19 of 2019
Enforcement: 1/Oct/2019

<Issues of food loss and waste (FLW)>

- A large amount of edible food is discarded in Japan.
- Food loss and waste is mentioned in the 2030 Agenda for Sustainable Development (adopted by the U.N. General Assembly in September 2015).

Issues include waste of resources (i.e. increase of business costs and household burdens) and increase of environmental burden.

Preamble

- While there are many people plagued with malnutrition in the world, it is imperative for Japan to engage in reducing FLW seriously, as a nation that depends on a large amount of imported food.
- There are two basic viewpoints for reducing FLW; 1) All entities need to change their attitudes and foster awareness of not wasting food, 2) prevent discarding edible food, in short, consume food as food.

→ Declares that the objective of the Act is to promote FLW reduction as a national movement through collaboration of various entities.

Definition of reducing food loss and waste (Article 2)

Defines reducing FLW as “efforts made to prevent discarding food that is safe and nutritious for human consumption”.

Responsibilities (Article 3-7)

Prescribe the responsibilities of the central government/local governments and businesses, the role of consumers, and the necessity of collaboration between relevant entities.

Relationship between the Act on Promotion of Food Loss and Waste Reduction and the Food Waste Recycling Law (Article 8)

The central government/local governments must implement measures on the Food Waste Recycling Law based on the philosophy and the contents of the Act on Promotion of FLW Reduction.

Promotion month for reducing food loss and waste (Article 9)

Prescribes October as a promotion month for reducing FLW in order to enhance understanding and interests among the people.

Basic policy (Article 11-13) Approved by the Cabinet: 31/March/2020

- The central government must decide a basic policy (by the cabinet decision) on reducing FLW.
- Local governments (prefectures and municipalities) shall endeavor to establish their basic plans on reducing FLW, based on the basic policy.

Basic measures by the central government/local governments (Article 14-19)

- Promote awareness and advocacy on FLW on consumers and businesses.
- Support efforts made by food-related business operators.
- Commend entities for making significant achievements on reducing FLW.
- Conduct surveys on FLW, implement researches on measure to reduce FLW effectively.
- Collect and disseminate best practices on reducing FLW.
- Support food banks, conduct researches on indemnities for food donations/supplies by food banks.

Council for Promotion of Food Loss and Waste Reduction (Article 20-25)

- The Council will be installed in the Cabinet Office.
- The Council consists of relevant Ministers and experts of FLW and entitled to draft the basic policy.

(Chairperson : Minister of State for Consumer Affairs and Food Safety)



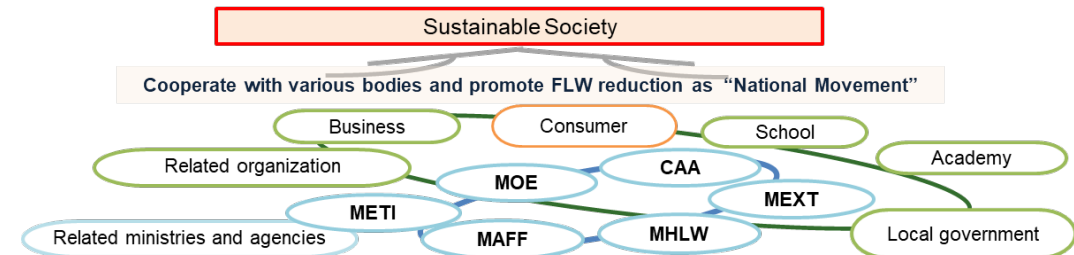
Basic Policy on Promotion of FLW Reduction

Based on the Act on Promotion of Food Loss and Waste Reduction, the Basic Policy on Promotion of Food Loss and Waste Reduction was decided by the Cabinet on **31st March 2020** (revise: **25th March 2025**) as a guidance for the central government/local governments, businesses and consumers.

Significance of promotion of FLW reduction

《Current Status of FLW in Japan》

- Amount of FLW (FY 2024): **4.61 M tons** (estimated)
2.37 M tons from business, 2.24 M tons from household
- Annual FLW per person: **37kg**
→ the throwing away one rice ball (102 g) of food every day.



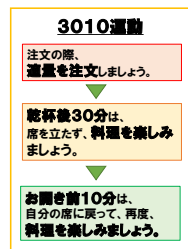
Role and action for promotion of FLW reduction in various bodies(e.g. consumers, businesses related to food)

Encourage each body to take the FLW issues as "my own affairs" rather than "others affairs" and take action respectively.

Consumer

Consider and take possible action during daily lives.

- ✓ Check ingredients at home before shopping
- ✓ Manage inventory in the refrigerator
- ✓ Arrange the amount of meal that can be eaten
- ✓ When eating out, order an appropriate amount
- ✓ Try so-called "3010 campaign" at banquets
- ✓ If left behind, take it back with your own responsibility



sticker for
"Take it back"

←Introducing "3010 campaign"

- First 30 minutes, enjoy meal
- Then enjoy talking
- Last 10 minutes, eating up!

Primary industry

Food-related business operator

Understand FLW by business activities and review it including business customs

- ✓ Use of imperfect and unused agricultural, forestry and marine products
- ✓ Consolidation of expiration date labeling, extension of expiration date
- ✓ Relaxation of delivery deadline
- ✓ Reservation sales of seasonal products
- ✓ Selling out by discounts and grant additional points
- ✓ Introducing a small portion menu



Logo for seasonal products (Ehomaki roll)



Central/Local government(s)

Facilitate awareness raising for consumers, support for efforts by food-related businesses operators, information sharing, Support for activities to provide unused food

- ✓ Promote measures to reduce FLW
- ✓ Effective use of food stockpiles for disasters
- ✓ Reduction of FLW at sponsored events

Local governments have decided a "FLW reduction promotion plan" to promote action considering the characteristics of the region. Central government supports their planning.



Distribution the food stockpiles (CAA)

National Convention→





The 2nd Basic Policy on Promotion of FLW Reduction

Decided by the Cabinet on 25th March, 2025

《Target for reducing Food Loss and Waste》

- ① FLW in Household reduce 50% 【Continue】
 FLW in business sectors reduce 60% 【New】
 By 2030, compared to 2000
- ② 80% of consumers are aware of the issue FLW and are working to reduce it. 【Continue】 ※74.9% in 2024



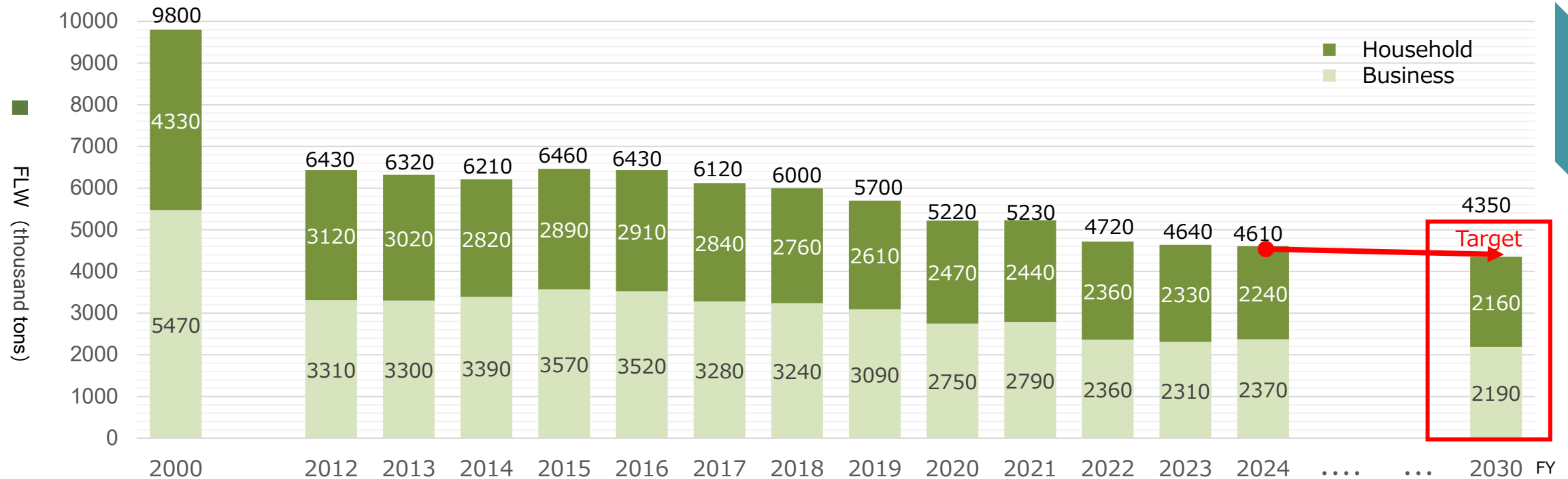
Basic Policy on the Promotion of Food Loss and Waste Reduction ※ 3. Award system and 5. Collection and provision of information (ongoing)

1. Promotion, dissemination, and enlightenment of education and learning	2. Support for the efforts of food-related businesses	4. Conducting surveys and promoting research
Additional measures ; ✓ The three measures of <u>reducing FLW</u>, <u>promoting food donations</u>, and <u>ensuring food access</u> are being communicated as a comprehensive project called the "Food Circle Project ("SHOKUNOWA" in Japanese)". ✓ Based on the "Guidelines for Promoting the Take-Out of Leftover Food", the take-out system is made known to consumers on the premise that they are responsible for their own actions. ✓ Raising the level of local initiatives and promoting their horizontal development through measures such as the publication of information on the status of initiatives to reduce FLW by local public bodies. ✓ Development FLW reduction promotion supporters who will be responsible for enlightening and working on FLW reduction in the regions. etc.    (Food Circle Project Logo) (Guidebook for supporter) (Colablation with international org.)	Additional measures ; ✓ Promote the review of business practices by ensuring that people are aware of the review of delivery deadlines, the review of safety factors for best-before dates, and the review of broad-based labeling. ✓ Guidelines for promoting the take-home of leftover food have been established. ✓ Dissemination of information on the revised Guidelines for the Setting of Best-Before Dates and Promotion of Initiatives. Expansion measures ; ✓ Promoting initiatives to reduce food loss and promote food donations through the use of new technologies such as ICT, DX, and AI.  (Utilization of technology such as Sharing Apps for FLW reduction promotion and food donations)	Additional measures ; ✓ Survey of the actual amount of FLW from disaster preparedness stockpiles held by businesses and considering effective use Expansion measures ; ✓ Implementation of estimates of the amount of FLW generated and its economic loss and environmental impact (greenhouse gas emissions). ✓ Organizing effective reduction measures according to the causes of FLW in household, and formulating a guide for relevant parties in the community. 6. Support for activities to provide unused food (food donations) Additional measures ; ✓ To improve public trust in food donation activities and ensure their sustainability, we are promoting the "Guidelines for Food Donations". ✓ A system has been established to identify food bank activity groups and other organizations that can fulfill certain management responsibilities.  (Promoting food donations by creating guidelines)

In the first basic policy for FY2020, the target for reducing FLW was set at halving the amount of food loss by FY2030 compared to the FY2000 level. The amount of FLW in the most recent, FY2022, was 4.72 million tons, and a further reduction of 200,000 tons is needed for household-related FLW. As the target for business-related FLW was achieved eight years ahead of schedule in FY2030, a new target of 60% reduction has been set.



Trend Graph and Reduction Targets regarding FLW in Japan



Fiscal Year	2000	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2030
Household	4330	3120	3020	2820	2890	2910	2840	2760	2610	2470	2440	2360	2360	2240 (▲48%)	2160(▲50%)
Business	5470	3310	3300	3390	3570	3520	3280	3240	3090	2750	2790	2360	2360	2370 (▲57%)	2190(▲60%)
Total	9800	6430	6320	6210	6460	6430	6120	6000	5700	5220	5230	4720	4640	4610 (▲53%)	4350

(Estimates by the Ministry of Agriculture, Forestry and Fisheries and the Ministry of the Environment)

*The total may not match the breakdown due to rounding.

The numbers in parentheses are the reduction rates compared to FY2000.

The goal for FY 2030 was to reduce FLW of both household and business related by 50% compared to FY 2000, but since the goal for business related was achieved eight years ahead of schedule in the fiscal 2022 estimate, a new goal of a 60% reduction was set. (Business target: 2.73 million tons → 2.19 million tons *The 2nd Basic Policy on the Promotion of the Reduction of Food Loss and Waste)



Method for estimating FLW in Japan

● FLW from business <Estimated by the Ministry of Agriculture, Forestry and Fisheries(MAFF) >

1. Pursuant to the Food Waste Recycling Law, MAFF estimates the annual amount of wasted food generated by the entire food industry based on the results of regular wasted food reports (from businesses that generate 100 tones or more per year) and statistical surveys.
2. The amount of edible food (FLW) is estimated by multiplying the annual amount of wasted food, etc. generated calculated in above No.1 by the percentage of edible portions of wasted food, etc. obtained from the questionnaire survey of regular reporters.

● FLW From Household <Estimated by The Ministry of the Environment (MOE)>

1. MOE keeps track of the amount of wasted food generated by households each year based on the results of Garbage composition survey conducted by approximately 200 local governments and questionnaire surveys on wasted food and FLW conducted in some cities and towns.
2. For other cities and towns that do not know the amount of FLW generated, calculations are based on the results of above NO.1.
FLW is estimated by multiplying the amount of wasted food by the average percentage of FLW in wasted food.
3. The amount of FLW is estimated by adding above No.1 and 2 together.



SDGs 12 Responsible Consumption and Production



SUSTAINABLE
DEVELOPMENT GOALS

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



Goal 12: Ensure sustainable consumption and production patterns

12.3 **By 2030, halve per capita global food waste** at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses

FY2000

Food loss and Waste in Japan
(edible portion)

9.80 M tons

Business 5.47 M tons
Household 4.33 M tons



FY2030

Food loss and Waste in Japan
(edible portion)

4.35 M tons

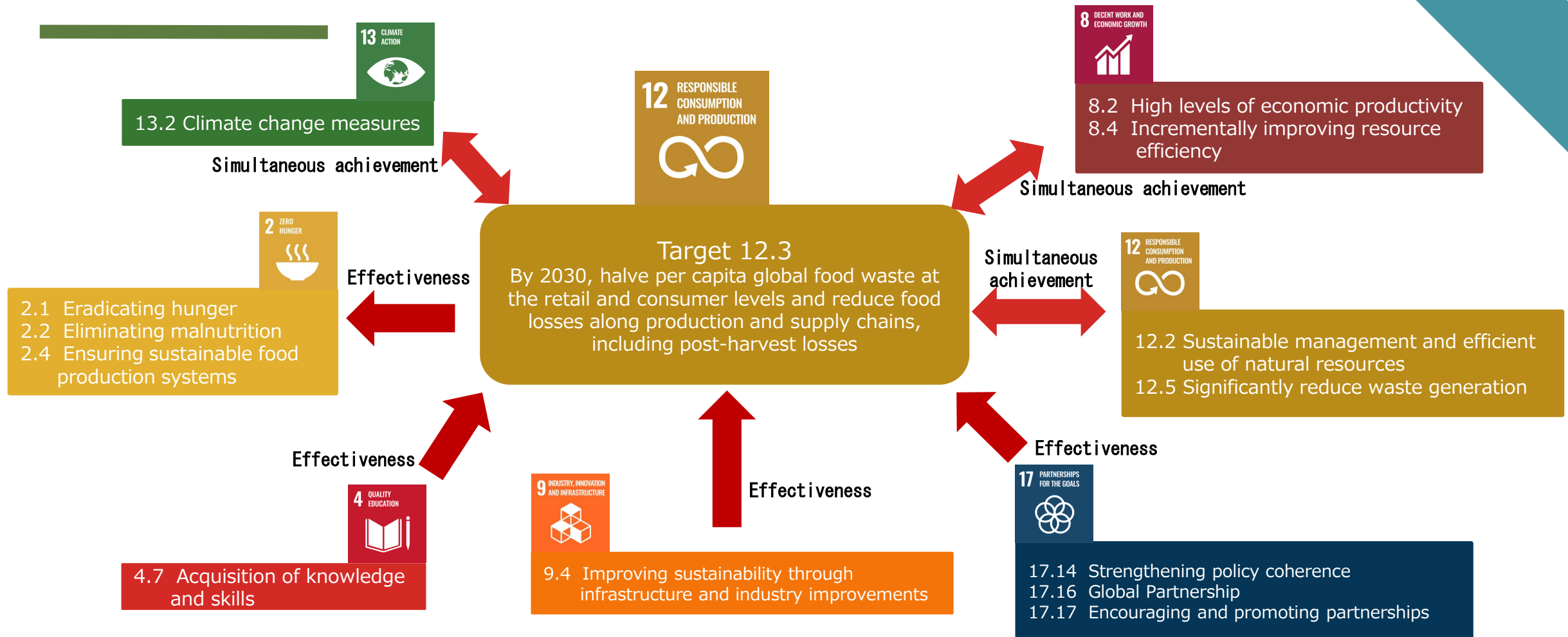
Business 2.19 M tons
Household 2.16 M tons





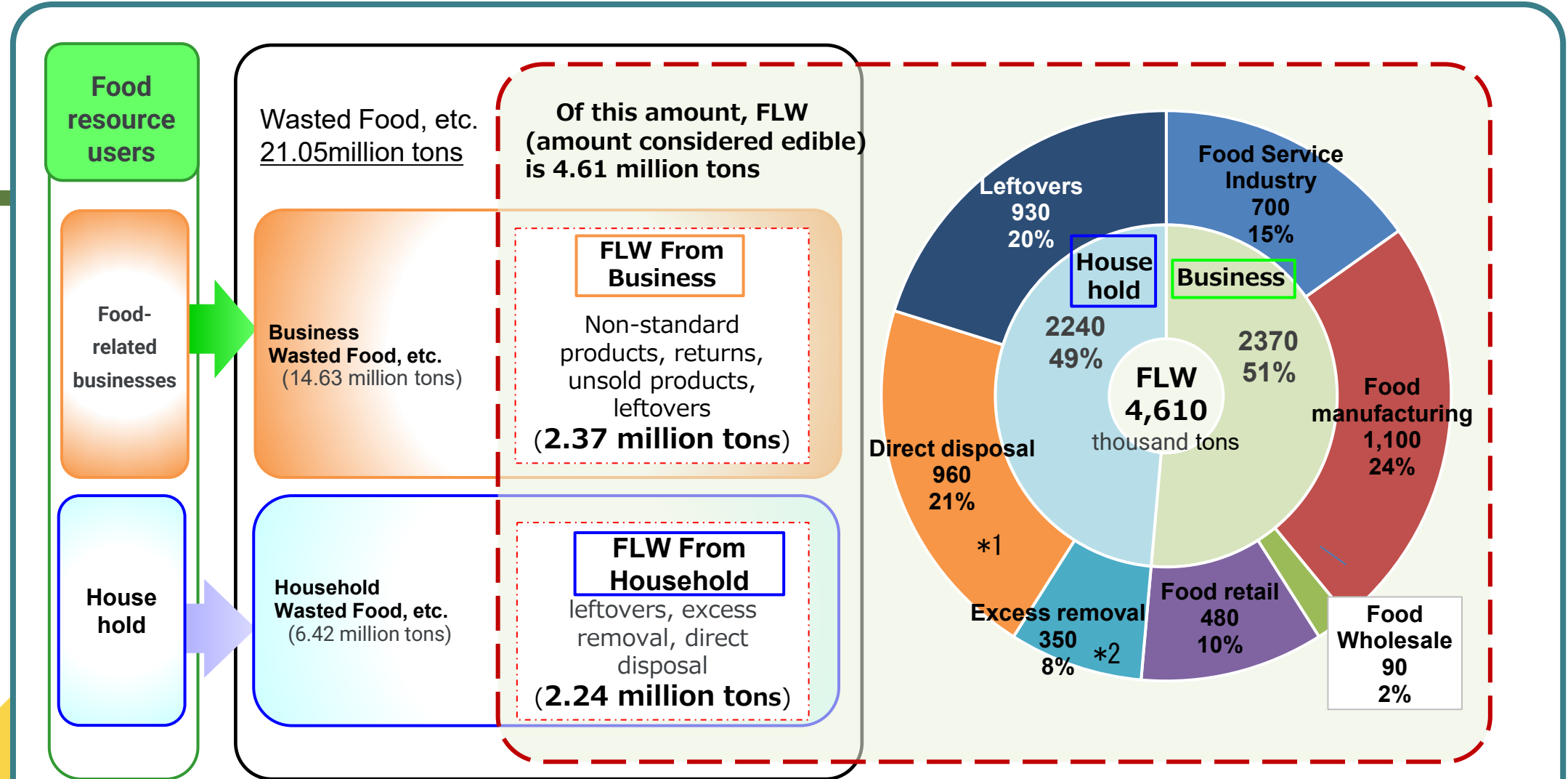
Relationship between FLW reduction and SDGs

It is important to simultaneously resolve various economic and social issues by reducing food loss and waste, promoting food recycling, and achieving goals that are closely related to the environment.





FLW generation status and ratio <Conceptual diagram>



Source: MAFF and MOE "FY2024 Estimates"

*The percentages listed have been rounded off to remove any decimal points, so the totals may not match.

*1 Direct disposal refers to food that has expired and is thrown away unused.

*2 Excess removal refers to edible parts that are discarded, such as vegetable skin that has been peeled in excess.



Economic losses and greenhouse gas emissions due to FLW

Economic losses and greenhouse gas emissions due to FLW (FY2024)



Amount of FLW

4.61 million tons

Capita

37 kg/Year



Economic losses due to FLW

¥3.8 trillion

(\$24.3 billion)

Capita

¥31,097 /Year

(\$199/Year)



GHG emissions due to FLW

9.78 million t-CO₂

Capita

79 kg-CO₂/Year

In order to make the FLW issue more familiar to every citizen, the Consumer Affairs Agency has estimated and published economic losses and greenhouse gas emissions based on the FLW amount every FY.

Based on the amount of FLW in FY2024 (4.61 million tons), the total economic loss due to FLW is estimated to be **3.8 trillion yen**.

The total greenhouse gas emissions due to FLW is **9.78 million t-CO₂**.

When these estimated values are converted into per capita figures, the economic loss is 31,097 yen/person/year and greenhouse gas emissions are 79 kg-CO₂/person/year.

きょうとのごちそう、
残さずいただきます。

**とっとり
食べきり協力店**

食べものに、
もったいないを、
もういちど！

とやま
食ロスゼロ作戦



さずたべよう

3 まっちょる運動!

2. 使いきっちゃう

食品ロスを減らそう!

まだ食べられるのに捨てられる食品を減らすために、私たちも出来ることから始めましょう。

山口県産業振興・サービスセンター
〒750-8301 山口県徳山市1号 TEL 083-452-2192



● 產品包裝

100

香川県からお願い

すぐに食べるなら
手前から取ってね

Eating it right away? Grab the one at the front.

食卓の笑顔のため
「てまえどろ」にご協力ください



011-834-1000



あいち食品ロス削減

みんなでチャレンジ！
食品ロスを減らす「3きり運動」

料理はおいく。「**食べきり！**」
食材はムダなく。「**使べきり！**」
生ゴミはギューと。「**水きり！**」

食べ残されるものからまずは捨て、捨てられてしまう食べ物は、お家で使うラップで包み、密閉して1週間以上は保存しない。1週間のはじめのゴミに捨てる（約1.2倍）します。もったいないと思いませんか？

お家でのチャレンジは、お家でのチャレンジです。お家でのチャレンジは、お家でのチャレンジです。お家でのチャレンジは、お家でのチャレンジです。

かんしよくま と学ぼう！
 しよく ひん さく げん まさ
食品ロス削減の巻
 食品ロスをなくそう。

まいにちをバージョンアップ!

おやぎのSDGs アカシシ

**食品ロス
削減目標**

-13%

(2019年～18)

※削減率の目標は、2019年度から18年度までの5年間の平均値です。



賞状
賞状
賞状



おやぎの
おやぎの
おやぎの



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※削減率の目標は、2019年度から18年度までの5年間の平均値です。

全てに感謝！
**食べ残し
 ぜろ0**

食卓5条

- 1 感謝・お礼にのたまおうとしよう。
- 2 研ぎこんで、残さず食べよう！と意識しよう。
- 3 時間30分、残りは5割は、お客さんへのしめりか。食べるまでお皿の上にのこさずよう。
- 4 食べきれない量の提供は控えめしよう。
- 5 それぞれ、食べ残しゼロを目指そう。

もっだいないをへらそう
 ぐんま食品ロス削減推進活動
 ぐんま県
 食料ロス削減推進活動
 ぐんま県

三カ所^①で7ドエコプロジェクト

**食品ロス削減
アイデア集**

よし!!



今日から実践！
減らそう！
食品ロス



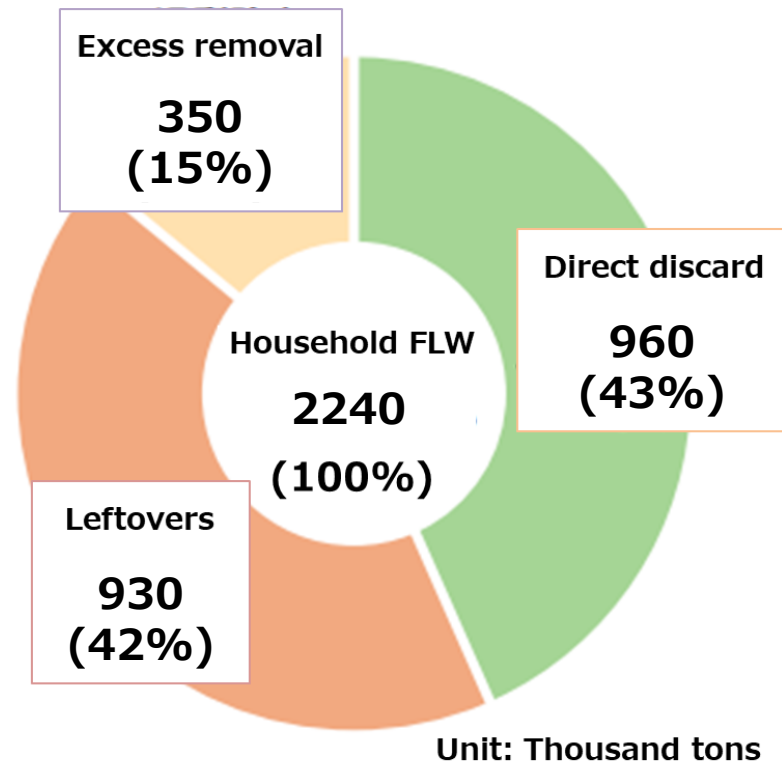
第 四 章

[illegible]

青森県
食品ロス削減！
「エッコー」
もったいない！青森県産
食品ロス削減キャンペーン



Initiatives to encourage consumer behavior change ①



On the "Basic Policy for Promoting FLW Reduction", the national government and Local governments are working together to raise awareness of consumers using following example so that each consumer thinks and takes actions for reducing FLW by events, website, SNS, leaflets so on.

- ✓ Check food at home before going shopping
- ✓ Regularly managing the stock in the refrigerator
- ✓ Using up ingredients (ex.using them as soup ingredients)
- ✓ cooking only what you can eat
- ✓ Practicing the rolling stock method for disaster food storage
- ✓ Donating surplus food through food drives



Initiatives to encourage consumer behavior change ②



A Poster for annual promotion month of reducing FLW in October



The guidebook including situation of FLW issue and TIP for reducing on business and home

3 Tips for FLW reduction at home

1 Don't buy too much

- Check food at home before going shopping.
- buying only food what you need.



2 Don't make too much

- Making volume of meal considering to family member's schedule and physical condition.



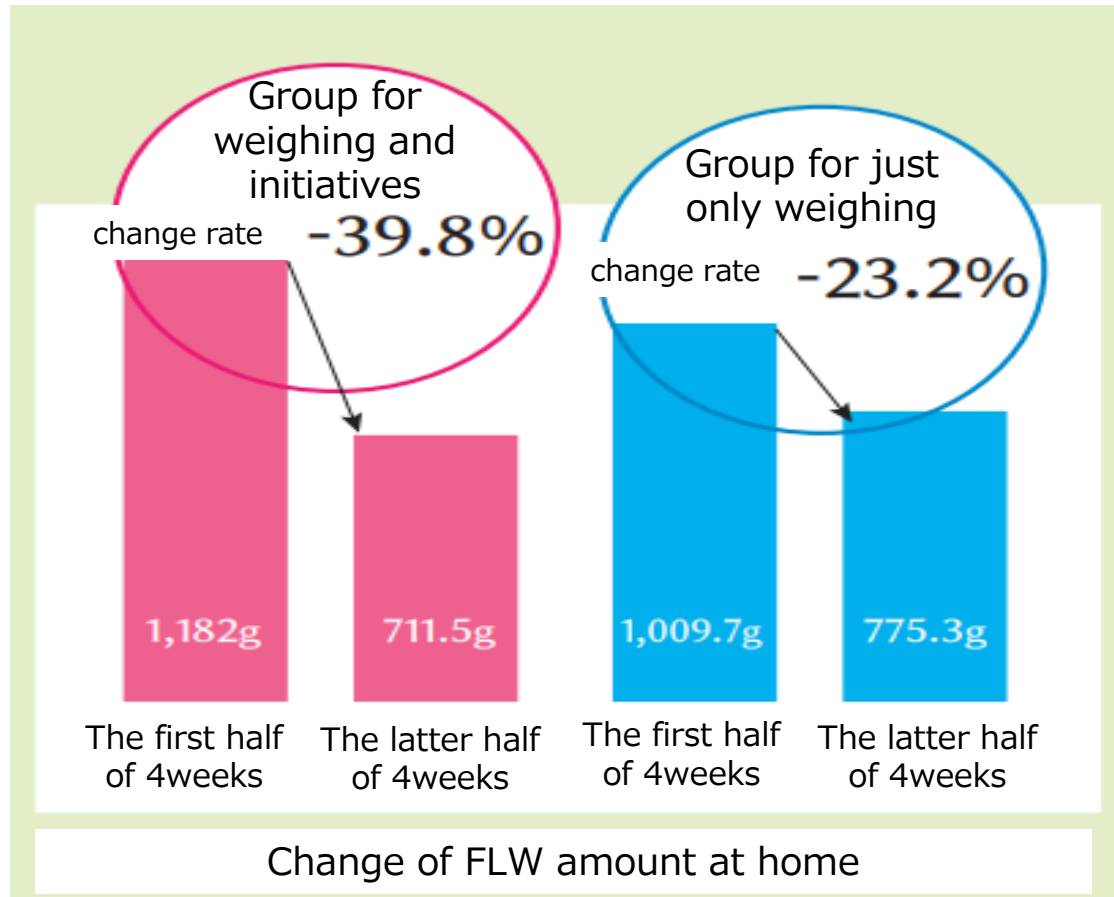
3 No leftover food

- Eating up as soon as possible after cooking.





Initiatives to encourage consumer behavior change ③



The result of demonstration experiment on weighing FLW at home
(initiatives of FLW reduction for 4 weeks by consumers)

- ✓ For the first half (The first half of 4 weeks): Each group member just weighed FLW at home. [Graph Blue & Pink]
- ✓ On the last half (rest of 2 weeks): the group members for just only weighing continued to weigh FLW. [Graph Blue]
- ✓ And the group members weighing and initiatives not only continued to weigh but also conducted initiatives. [Graph Pink]

Initiatives of CAA to reduce Food Loss and Waste in EXPO2025

- One of Action Plans for the Expo2025 shows that we make an efforts to conduct promotional activities using nudge way on the venue so that visitors reduce FLW in the venue.
- As a result of the demonstration project at actual stores last year, Government of Japan (CAA) has created promotional materials to visitors as follows based on the most effective designs.
- These materials are using at restaurants in EXPO2025 venue as well as in Osaka pref. and near area.

Designs of promotional materials



Vertical digital signage •Poster•
Tabletop triangular POP (Front side)



Tabletop triangular POP (Back side)



Horizontal digital signage



Sticker/ Image for SNS



Thank you !!

