Promotion of 3Rs to Achieve SDGs in Japan

3R: Reduce, Reuse, Recycle

SDGs: Sustainable Development Goals

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（めざせごみゼロ）

Waste research

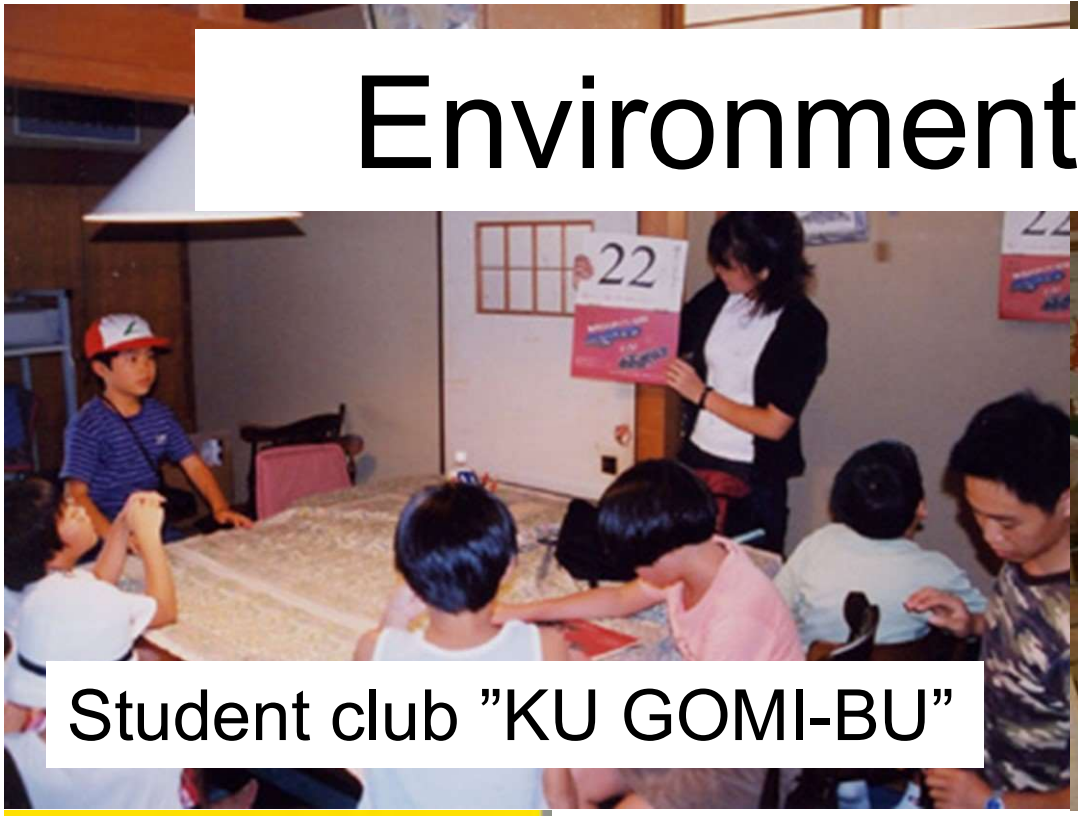
Waste composition survey

Food waste / loss

Disaster waste

Plastic waste / products

Environmental Education



Student club ”KU GOMI-BU”

Events at department stores

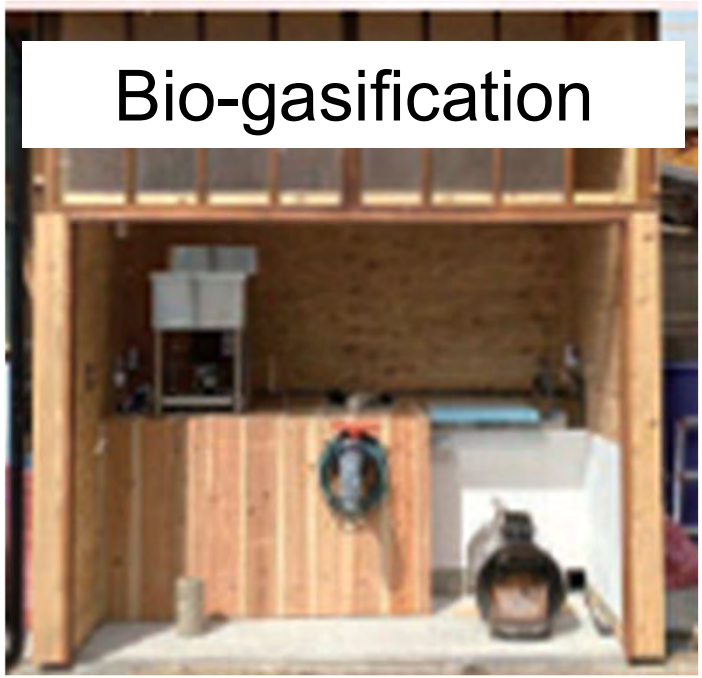
SDGs Program development and monitoring

Local sustainability

Making the Mid-Mountainous Areas an SDG Valley!

ことす
KOTOS

Bio-gasification



こと:ファクトリー

ことす・アップサイクルコレクション

Tsukuroi

着物アップサイクル
- Zero Waste Design -

古着の着物を普段着できる洋服へとアップサイクル。循環性・日本の伝統文化・ジェンダーフリーのまつりをコンセプトに丁寧に制作。

Tide-Sound

Tide-Sound

家具屋・畳屋さんが製品製造後に余った部分で革製品を手縫いで作っています。今回は母のレザー作品と祖父の木工細工も展示します。

一般社団法人 わざどころPON

思い出 ECO 織り機
古着織りでつながるプロジェクト

古い布を捨てるところなく織り直せる織り機。本体も寺社建築などの端材を使用。緯の処理が簡単で、古着を無め子どもたちと作成。

京すだれ川崎

マコモドーム・ランプ

真菰（まこも）でつくられた環境ドームとフロアランプ。真菰は貴の素材です。使い続ける、作り続けるために別のカタチへ。

poRiff ／くふう

poRiff ／くふう

買い物のレジ袋をコラージュし、熱で圧着して完成するシートを使ったプロダクト。制作は大阪の障害者施設で行われる。

無印良品

ReMUJI

無印良品ではお客様が長年愛用していただいた服を回収し、まだまだ着ることができる服を日本で染め直して販売しています。

Lost and Founds

透明感あるよね

雨の後、街角でよく見かける捨てられた『雨傘』。使い捨てな人でもったいない！ こんなにおしゃれなアクセサリーや小物に♪

くるくる工房

空にも海にも似合うはず

環境の取り組みでも有名な徳島県上勝町では、不要になった『こいのぼり』を、地元の方々が素敵な屋外小物に！

大阪府 / オルディ（株）

ペットボトルキャップ
の
アップサイクル！

環境省 LBOV 推進事業において、美化活動等での回収ごみを用いて製品製造・技術開発を行いました。

山口県

スーパーで訴えてます

山口県萩市、長門市、阿武町に原着した青色ポリタンクを原料に、アップサイクルされた資物かご。地元スーパーで使われています。

株式会社 泉海理化

端材について考える
「Think Scrap」

東海理化のシートベルト端材と地域社会の端材を組み合わせた製品の製造／販売を通して端材でつながる社会の実現を目指します。

国中環境 GROUP

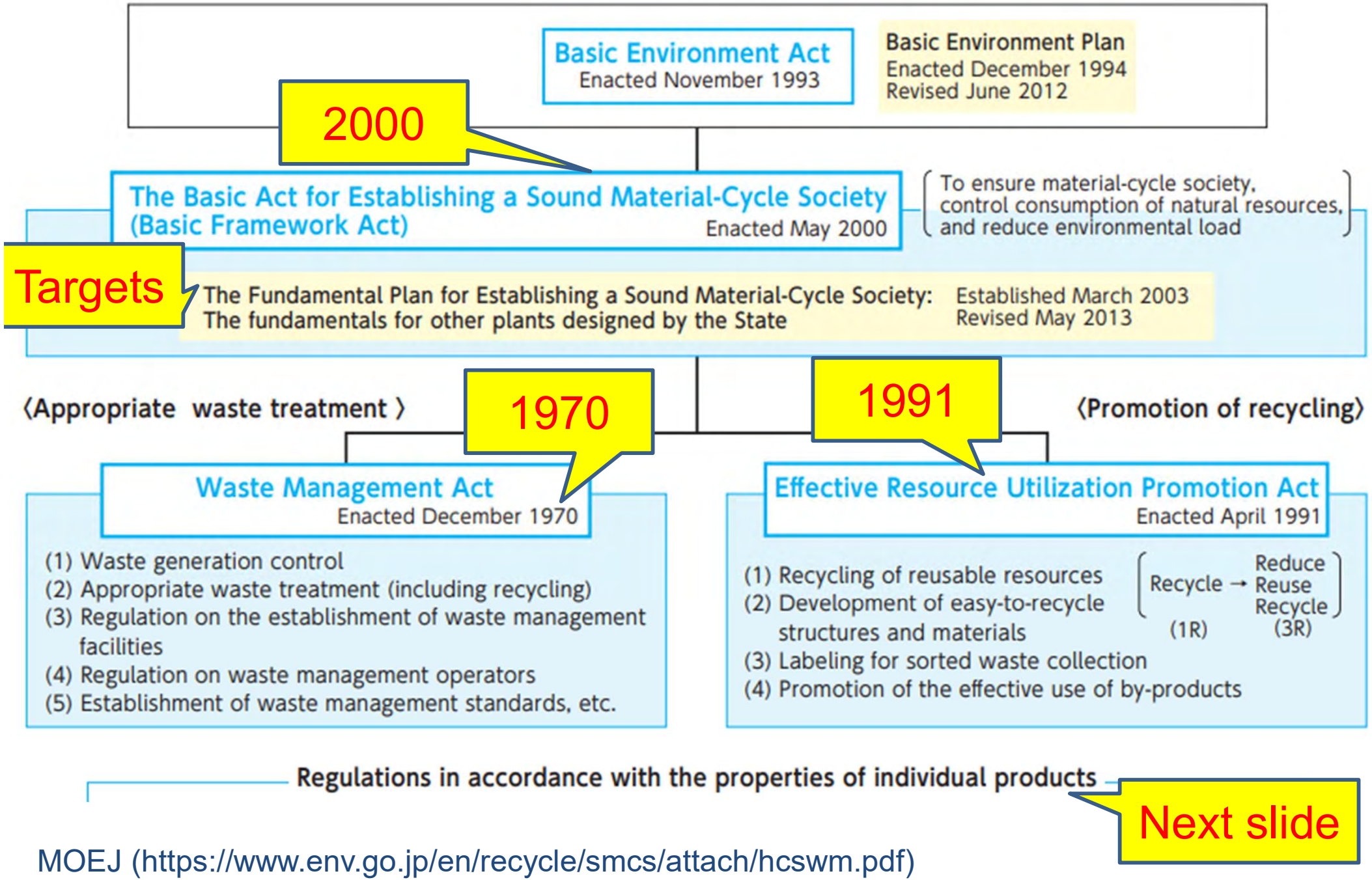
リサイクル原料を使用した
感染性廃棄物専用容器

この容器の原在の使用率は、全体の 15.4% と向上しています。さらに使用率を向上させることが当社の取組です。

よろしくお願いします。

2015 in Germany

Legal system for Establishing a "Sound Material-Cycle Society" (1)



MOEJ (https://www.env.go.jp/en/recycle/smcs/attach/hcswm.pdf)

Legal system for Establishing a "Sound Material-Cycle Society" (2)

Regulations in accordance with the properties of individual products

Containers and Packaging Recycling Act	Home Appliance Recycling Act	Food Recycling Act	Construction Recycling Act	Automobile Recycling Act	Small Home Appliance Recycling Act
Enacted June 1995	Enacted May 1998	Enacted May 2000	Enacted May 2000	Enacted July 2002	Enacted August 2012
Bottles, plastic bottles, paper and plastic containers and packaging, etc.	Air conditioners, refrigerators, freezers, TVs, and washing and drying machines	Food waste	Wood, concrete, and asphalt	Automobiles	Small electronic devices, etc.

Green Purchasing Act (to promote the purchase of recycled products by the government)
Enacted May 2000

New! "The Plastic Resource Circulation Act" since 2022 April 1st

This Act addresses whole lifecycle of plastics and involves all stakeholders in promoting " 3R+Renewable"and increasing circularity.

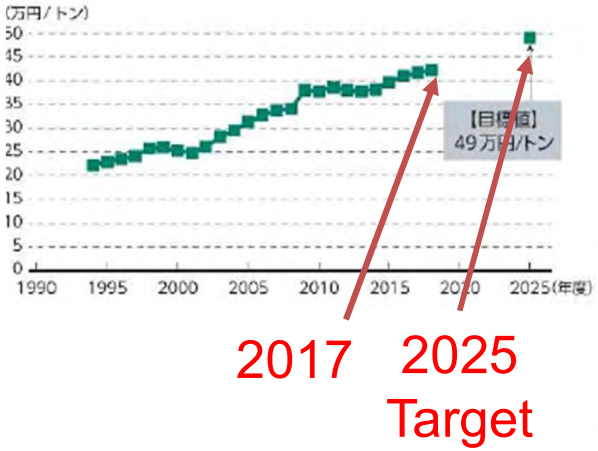
- ✓ Design for the Environment by manufacturers
- ✓ Reduction of single use plastic s by retailers and service providers
- ✓ Separation, collection and recycling of plastic waste by municipalities and private sector

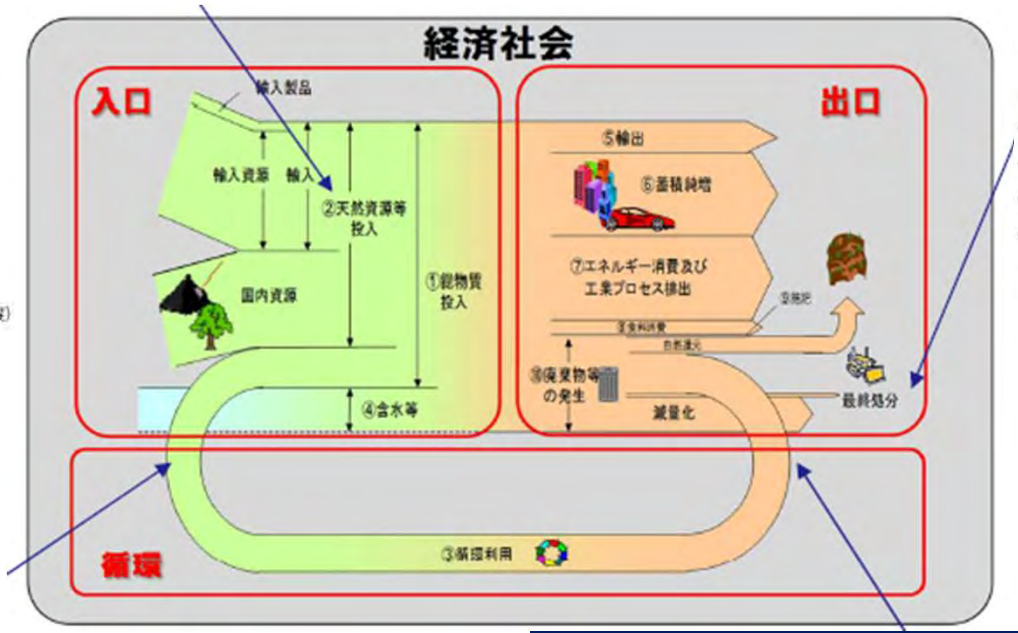
MOEJ (https://www.env.go.jp/en/recycle/smcs/attach/hcswm.pdf)

The Fundamental Plan for Sound Material-cycle society

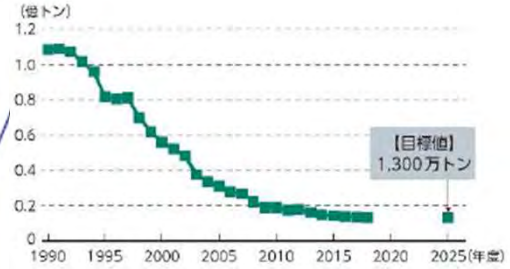
Trend of Material flow indicators towards 2025 Targets

【Input】Resource efficiency

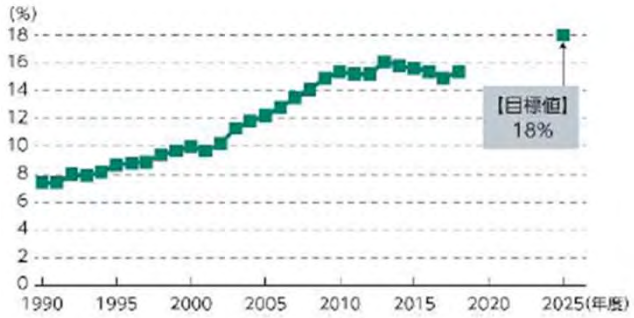




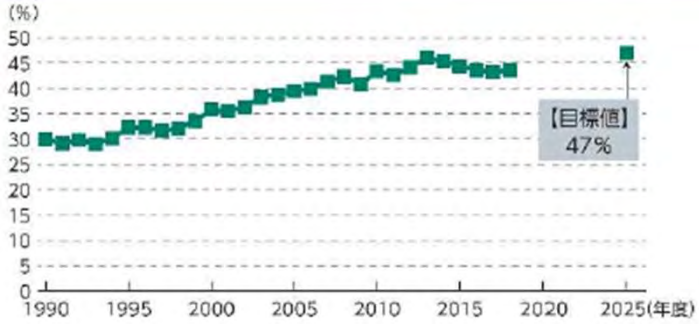
【Output】Final disposal



【Circular】Usage of recyclables



【Circular】Recycling ratio



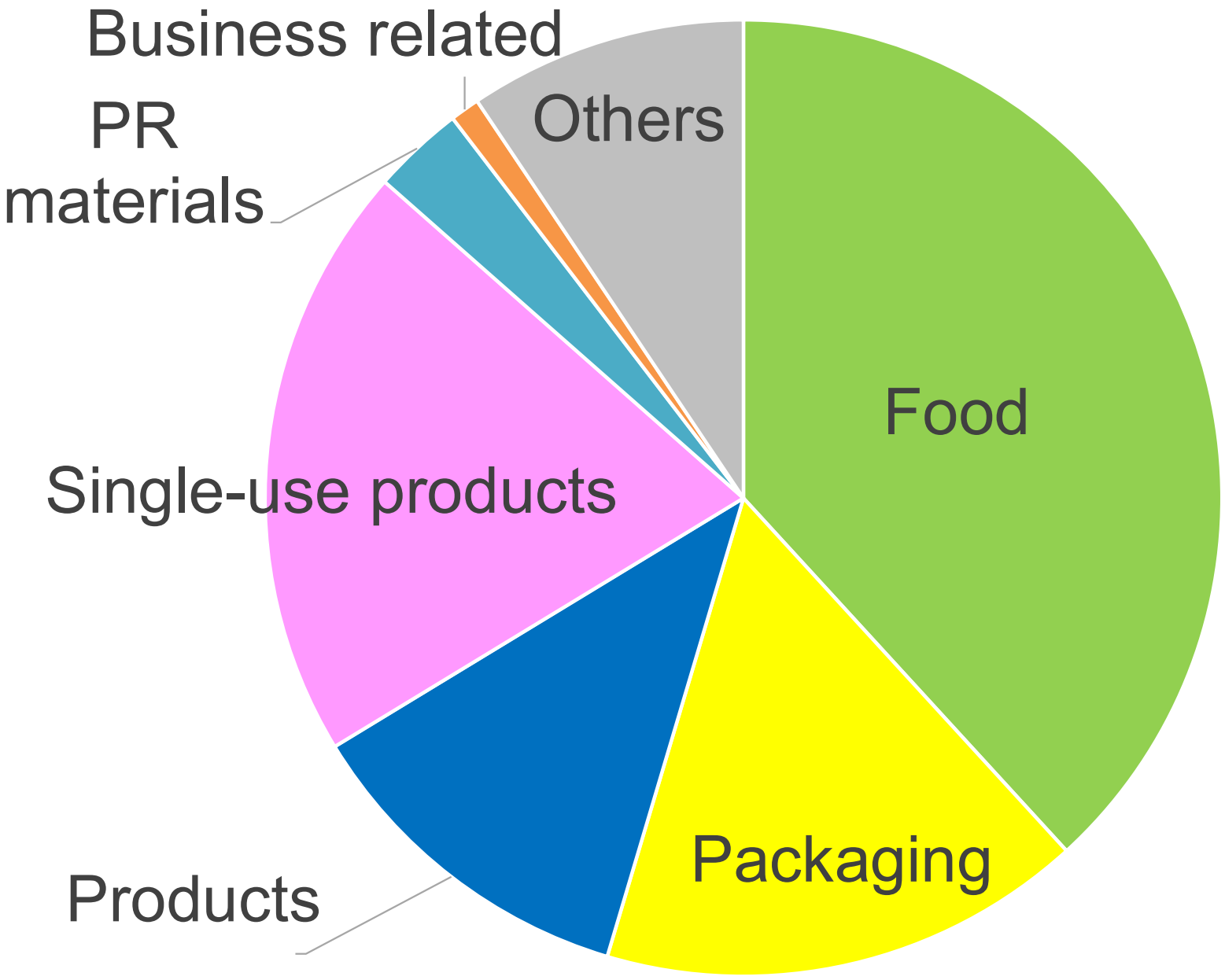
MOEJ (https://www.env.go.jp/council/03recycle/y030-39b/ref03.pdf)

How’s your impression?

Kyoto University (Prof. Takatsuki, Prof. Sakai and we) and Kyoto city have conducted “Compositional survey of household waste” since 1980.

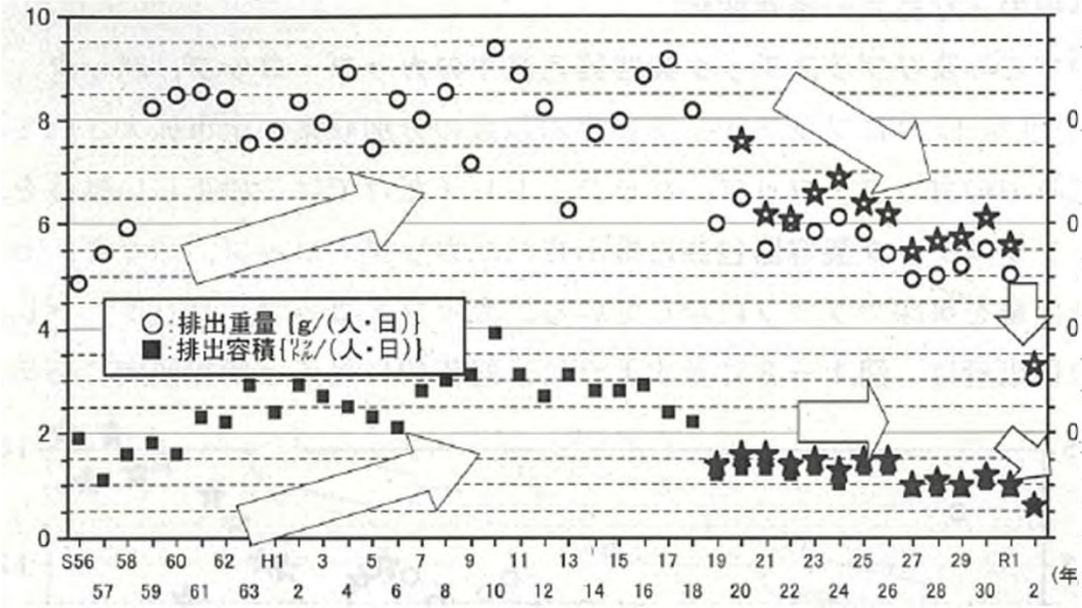
Finally, we devide into more than 400 categories.

Household (combustible) waste (wet weight)

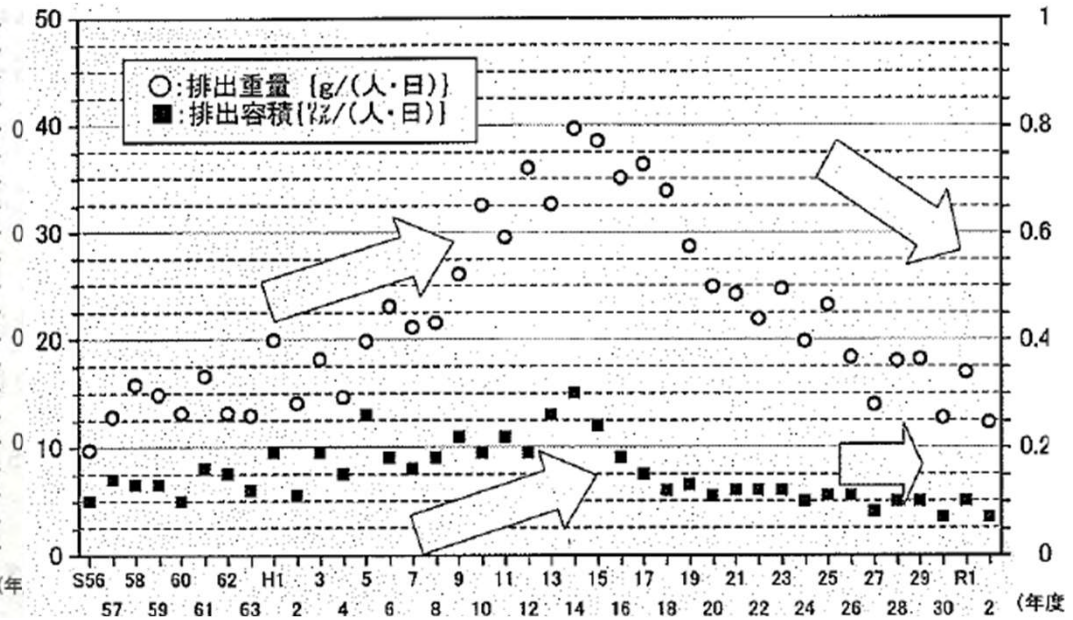


Source: Kyoto city report on waste survey (2019)

Trend of household waste over 40 years



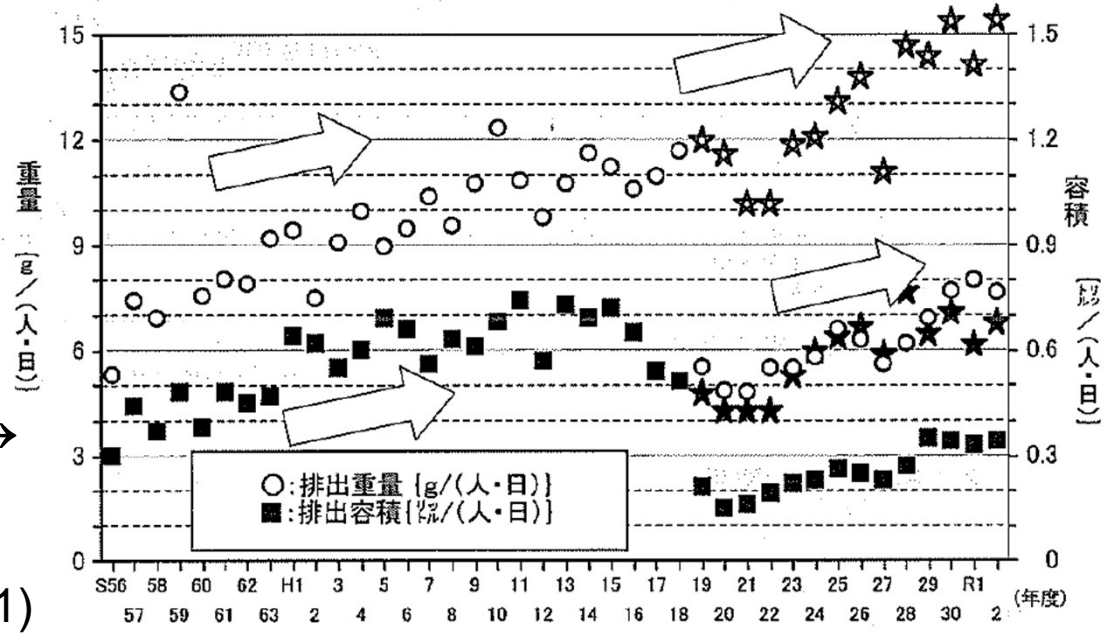
↑ Plastic shopping bags in combustible and recyclable



↑ Advertising paper in combustible waste

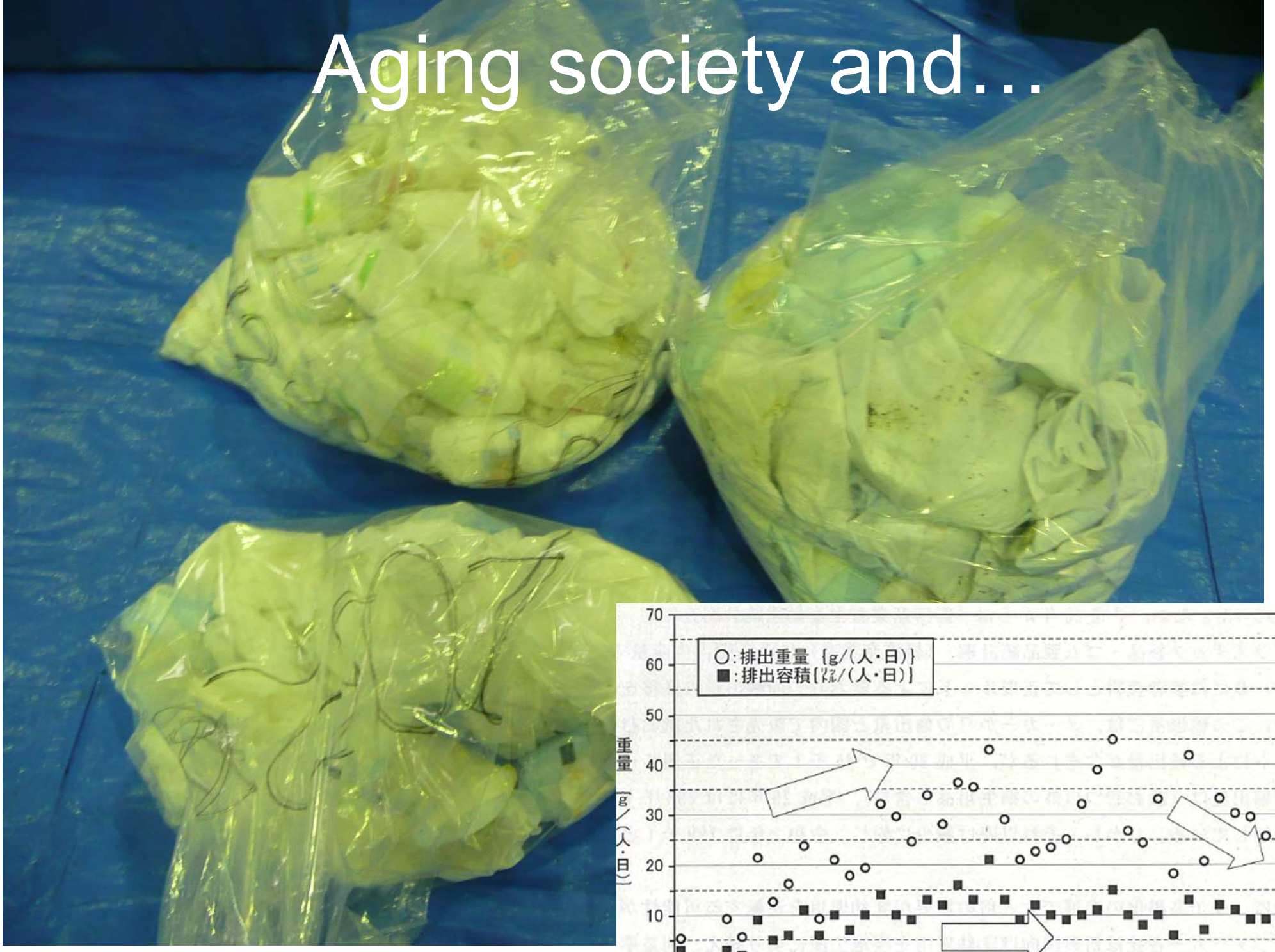
☆Weight ★Volume

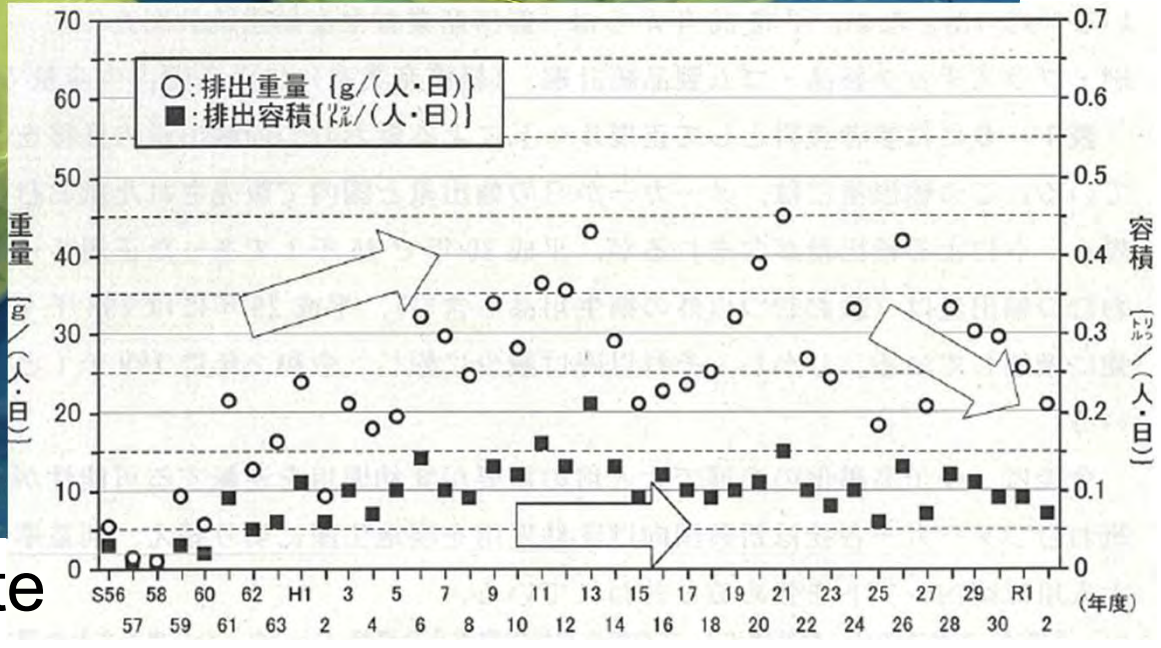
Caps, packages and treys in combustible and recyclable →



Source: Kyoto city report on waste survey (2021)

Aging society and…





Diapers in combustible waste

Waste generation in Kyoto city

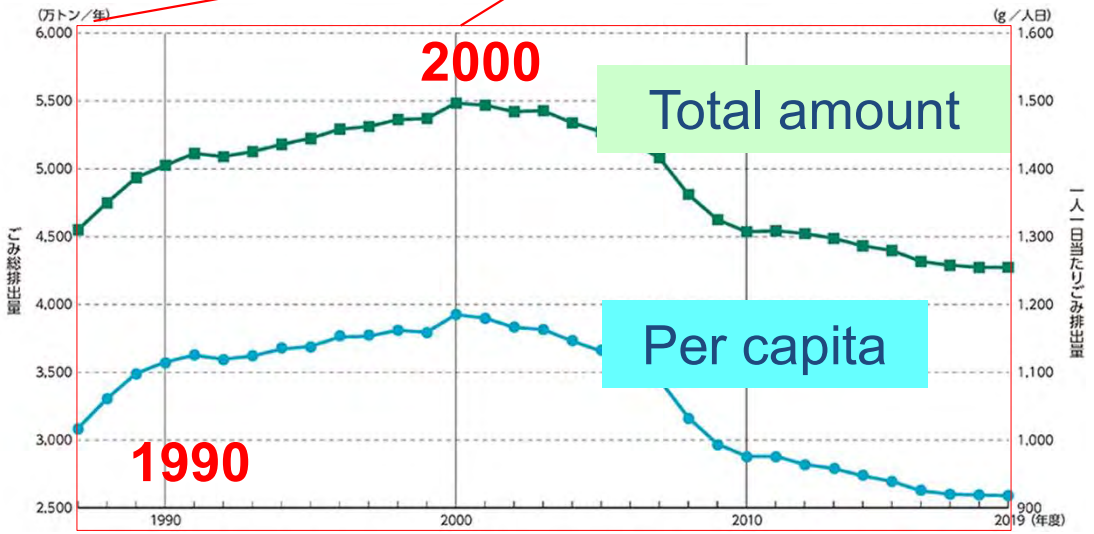
Source: Kyoto city

Waste compositional analysis started in 1980.

Peak was 2000.

1908
Meiji 41

Household waste in Japan (MOEJ)



Still many “もったいない (mottainai)” food waste in both household and business waste

touched food in 145 households’ waste.

Situations that made me aware of “mottainai” in my eating habits

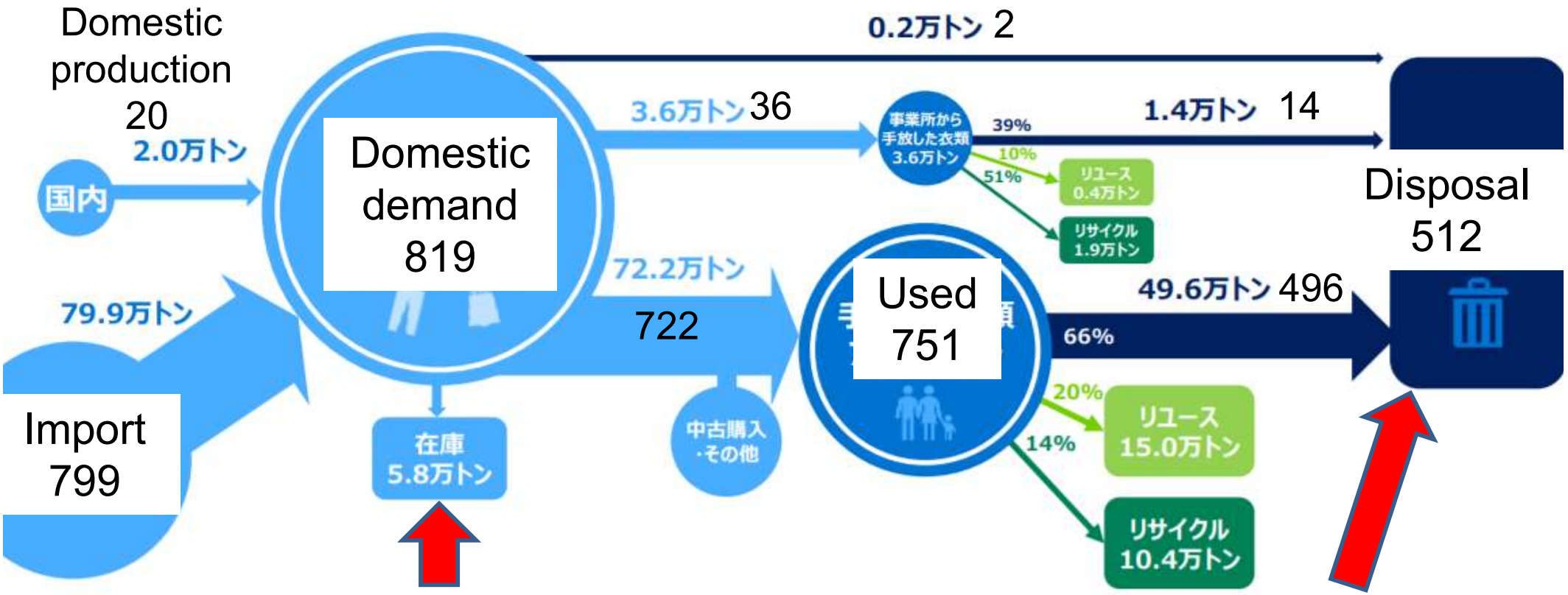
(multiple answer; N=3,000)

“Personalization" and "visualization of the impact" is necessary?

Questionnaire survey for consumers by Ministry of Consumer Affairs (2020)

Fashion loss is also mottainai!

Material flow of clothes (2020) (1,000 ton/ year)

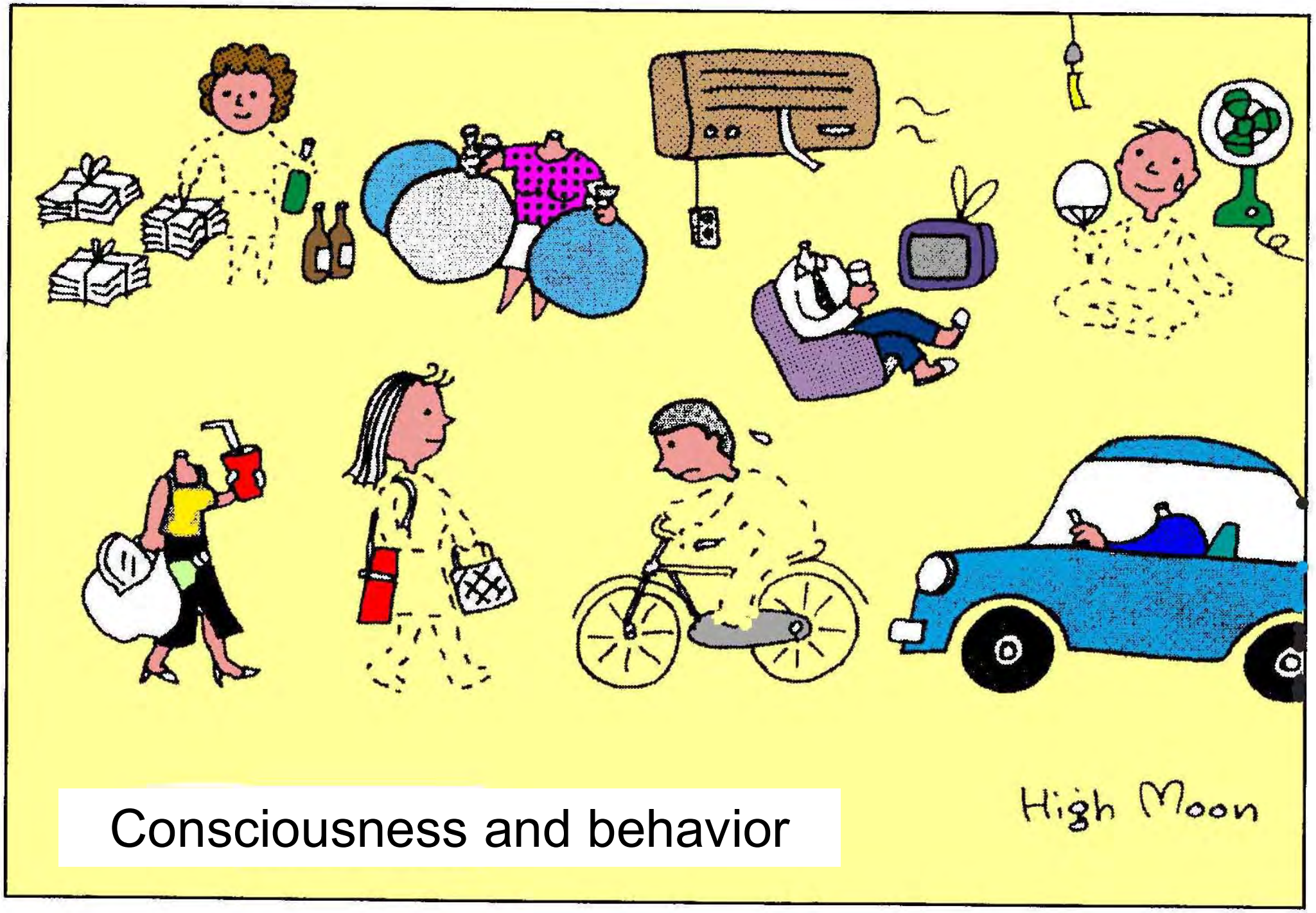


Stock

58

66% of used clothes are disposed

MOEJ: https://www.env.go.jp/policy/pdf/st_fashion_and_environment_r2gaiyo.pdf

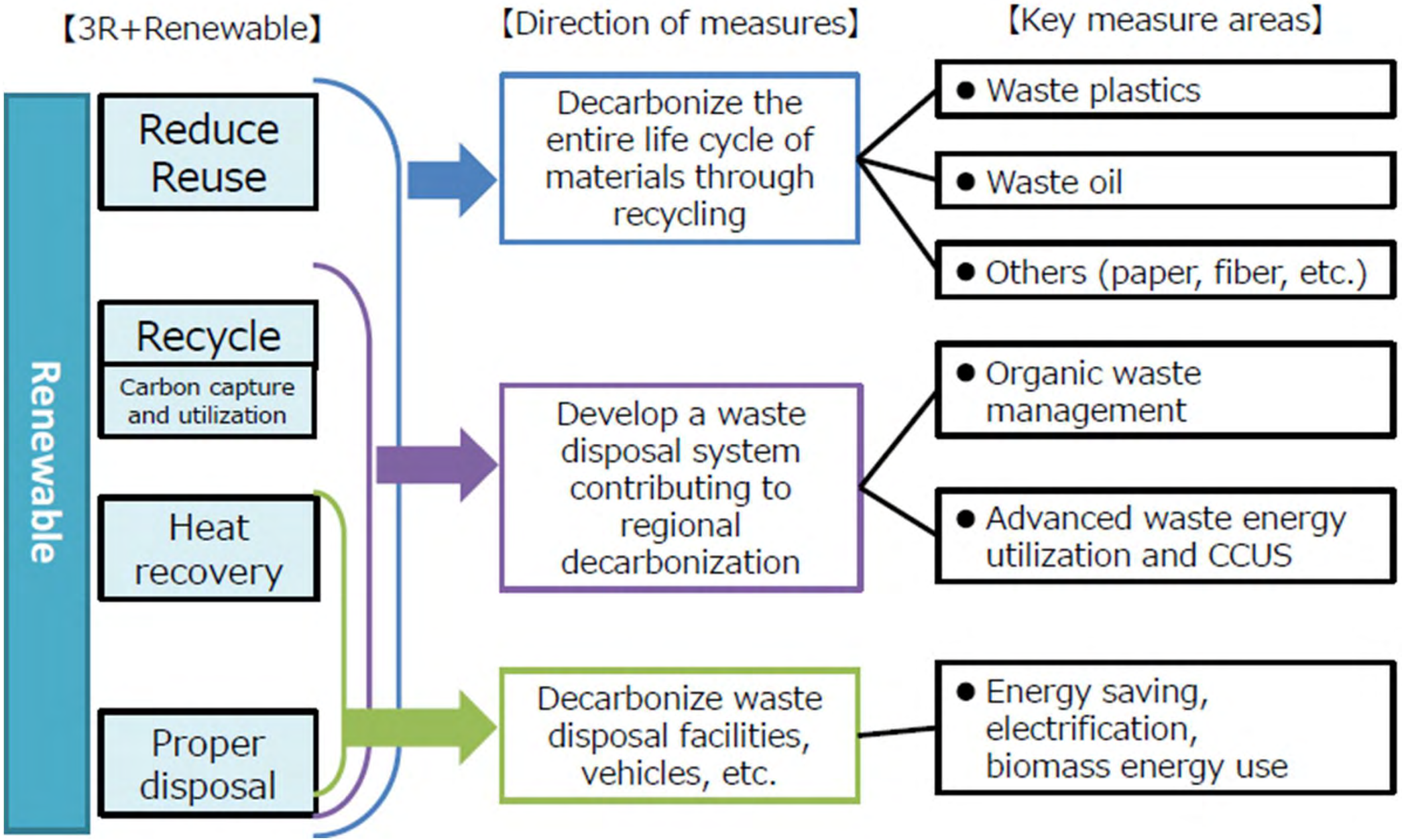


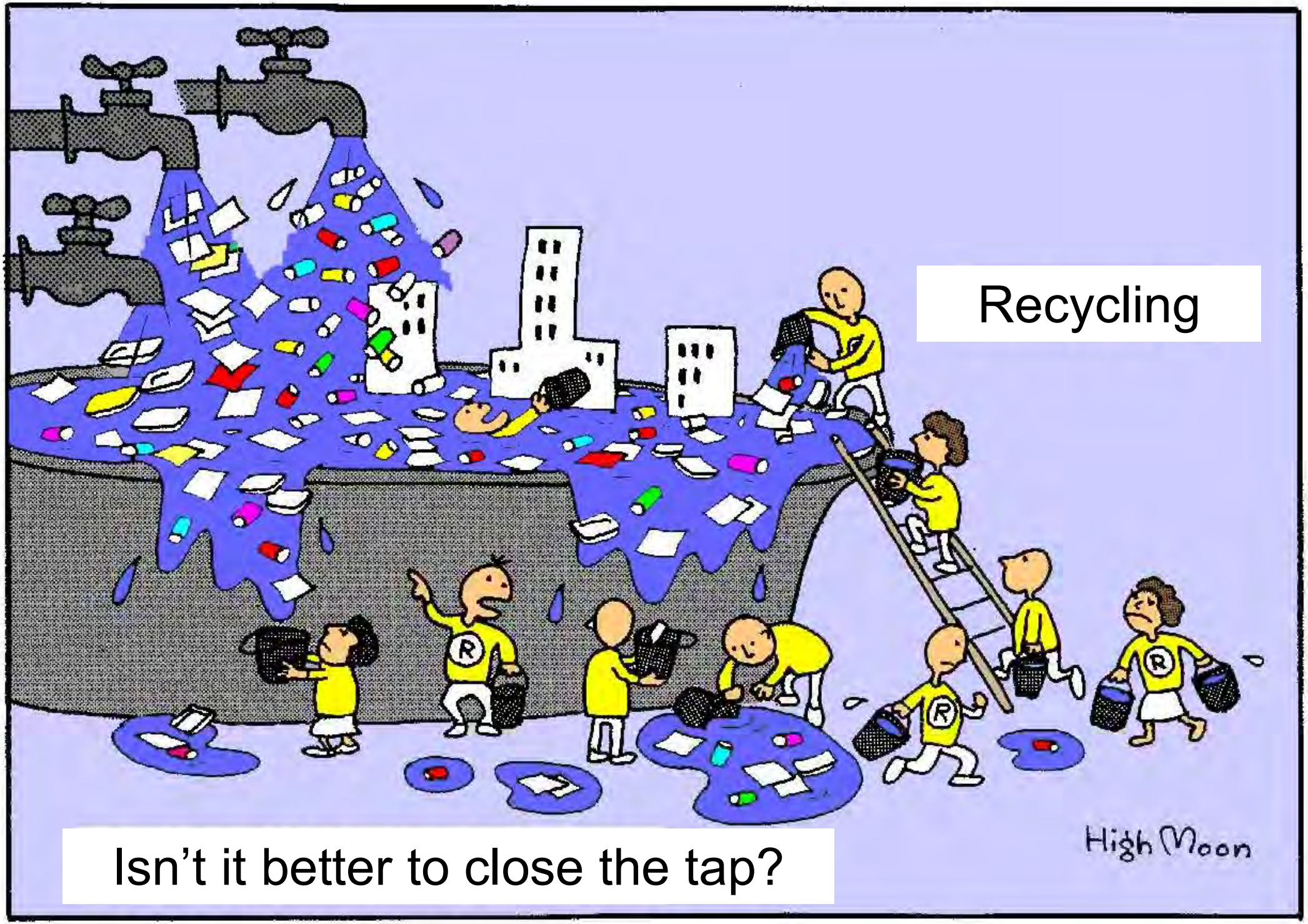
Consciousness and behavior

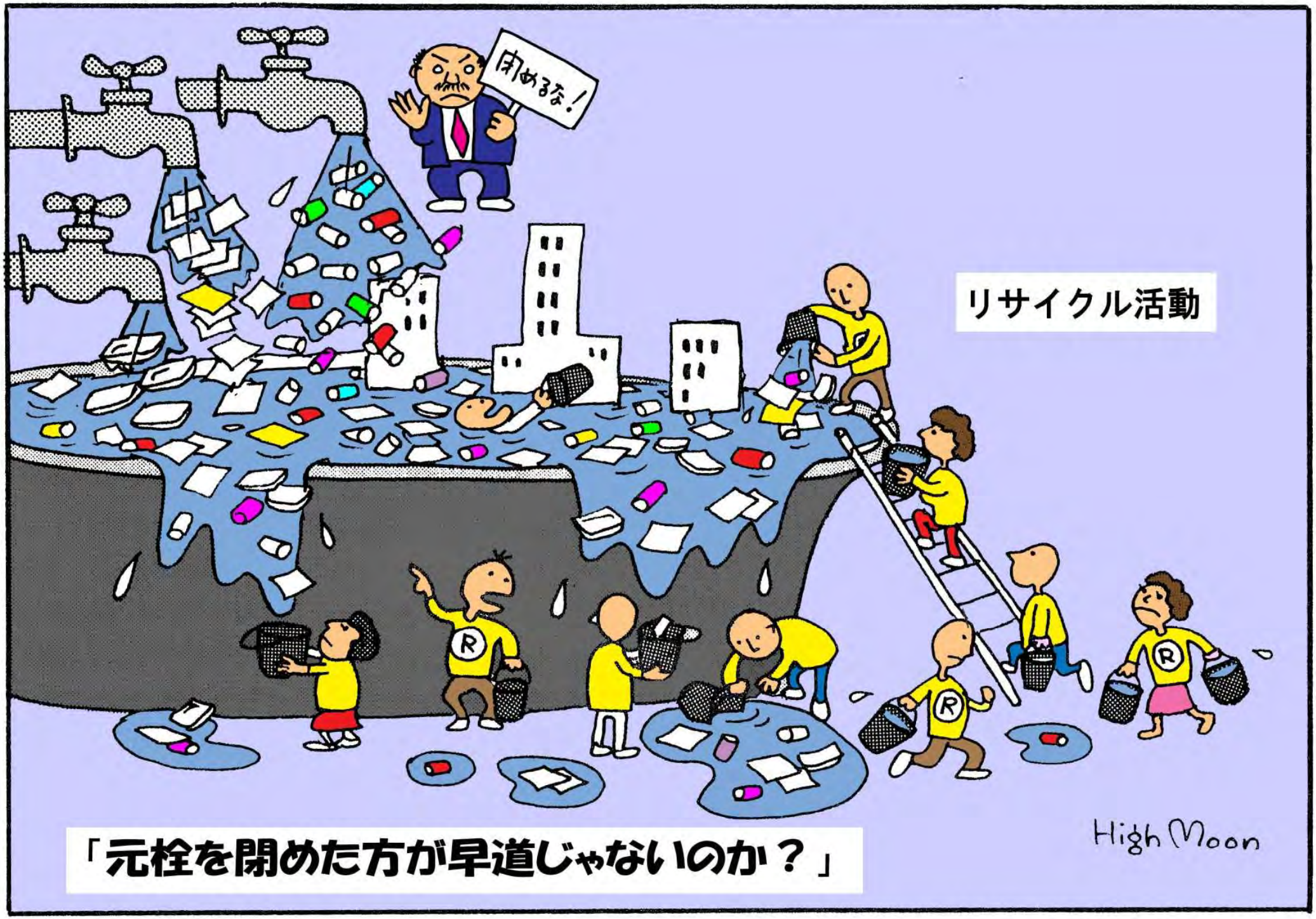
How about the future?

Toward Carbon neutral society in 2050

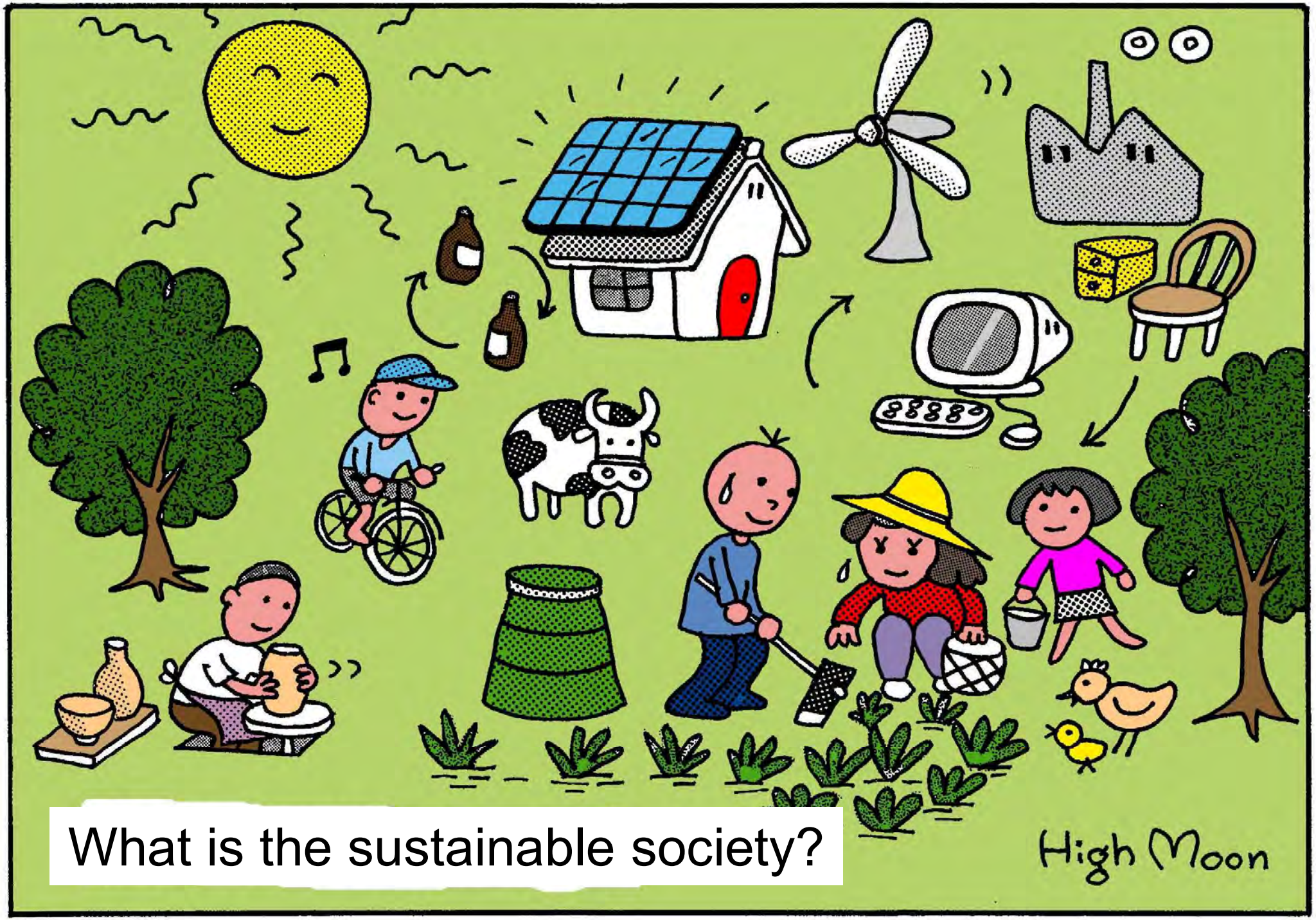
MOEJ 2021 http://www.env.go.jp/council/03recycle/post_217.html




Recycling
Isn’t it better to close the tap?
High Moon



「元栓を閉めた方が早道じゃないのか？」


What is the sustainable society?
High Moon

Thank you for your kind attention!