

# **Transition to Circular Economy**

December 2021

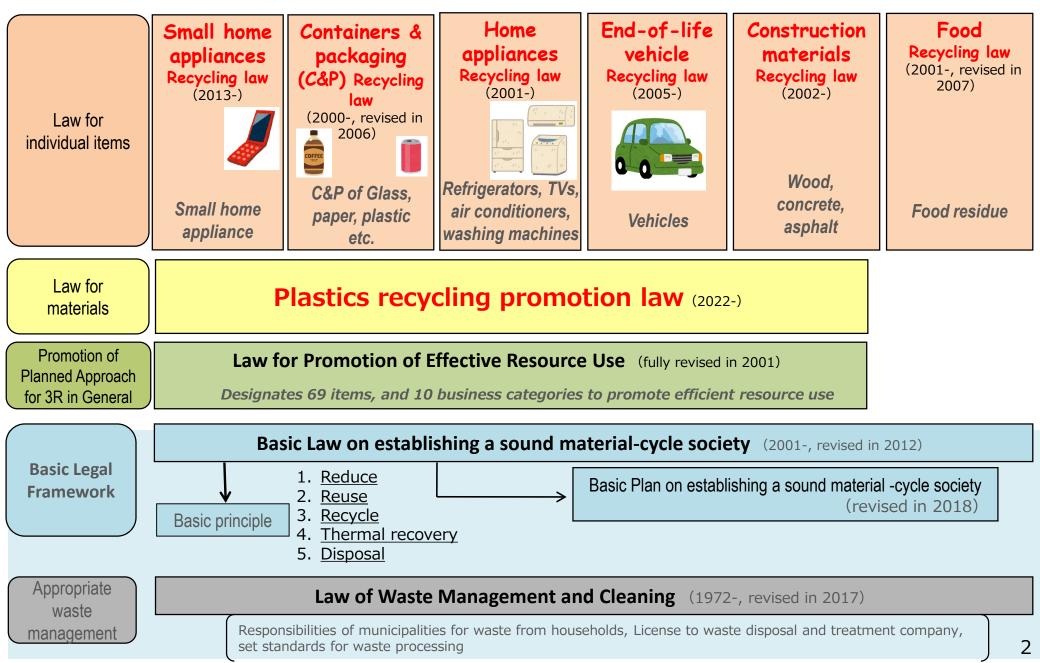
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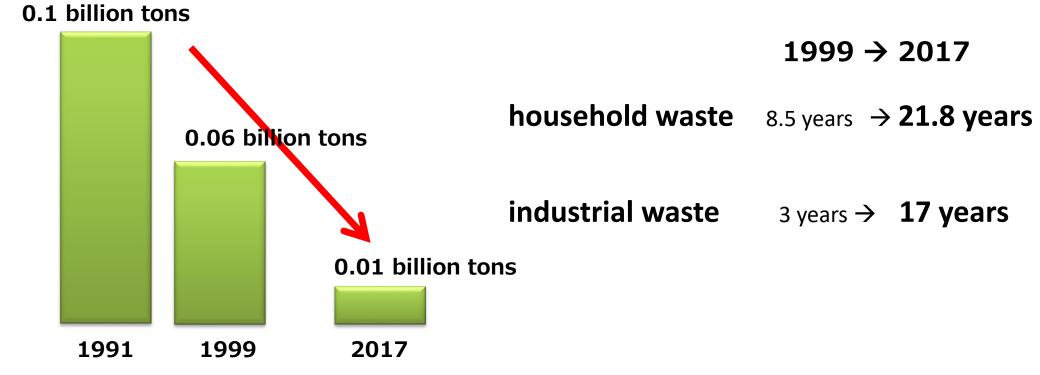
# Japan's Recycle policy at a glance



### **Outcome of Japan's 3R policy**

- Reduce in amount of final disposal
- Increase in rate of recycle
- <Final disposal amount>

<Remaining years of disposal>

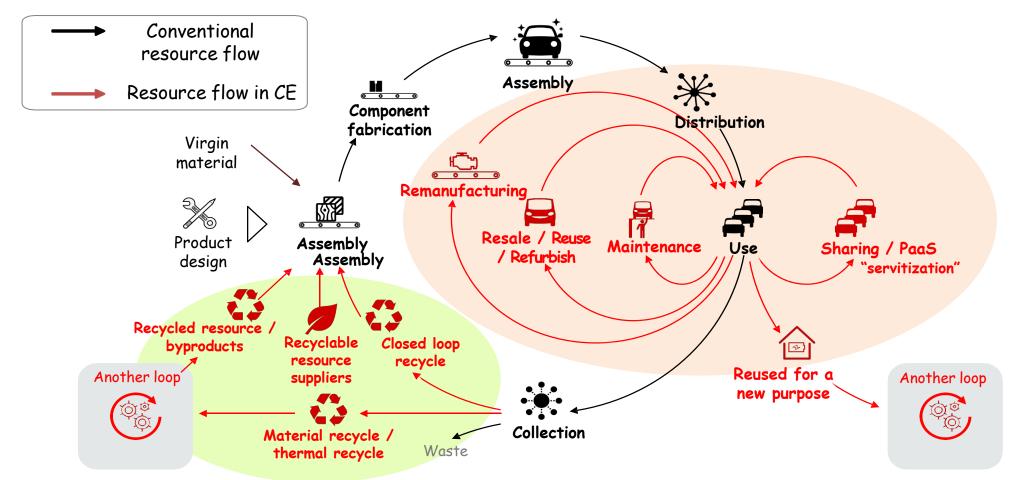


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# **Circular Economy / Linear Economy**

- Linear Economy : One-way economy of mass production, mass consumption, and mass disposal
- **Circular Economy**: An economy that maximizes added value through services and other means, while making efficient and cyclical use of resources at every stage



### Why do we need to change to circular economy?

- 1. <u>Future risk of natural resources supply</u>
  - > World's natural resource production will be doubled in 40 years
    - 2000 53 billion ton2015 88 billion ton2060 190 billion ton

### 2. Arising waste management issues in/outside Japan

> Ex.1: World's general waste amount will be doubled in 30 years

- 2016 2 billion tons
- 2050 3.4 billion tons

> Ex.2: Amount of home appliances in ASEAN 6 will be nearly quadruple in 15 years

- 2014 10 million units
- 2030年 35 million units

> Ex.3: Introduction of import restriction of waste, revise in Basel convention

### 3. Growing expectation for sustainable business

Marine plastic issues: In 2050, <u>amount of plastic in ocean = amount of fishes</u> (2016 World Economic Forum)

#### > Voluntary efforts by global companies

### 4. Global increase in ESG investment

No. of institutional investors with PRI\*sign and amount of asset under management



#### 内閣官房成長戦略会議事務局資料(R3.4)

- 5. International discussion on CE
  - > UN, G7, G20

# **Circular Economy vision 2020**



- "3R" as ESG activities → CE as economic activities
- Promote voluntary activities of companies (Minimize regulation and take use of activities based on soft law)
- Realize resilient CE system in mid-and-long term

# CE vision 2020 (1) : Transition to circular business model

- Transition to CE should be regarded as business opportunity for all industries:
  - $\rightarrow$  Companies needs to change their business model to more circular one

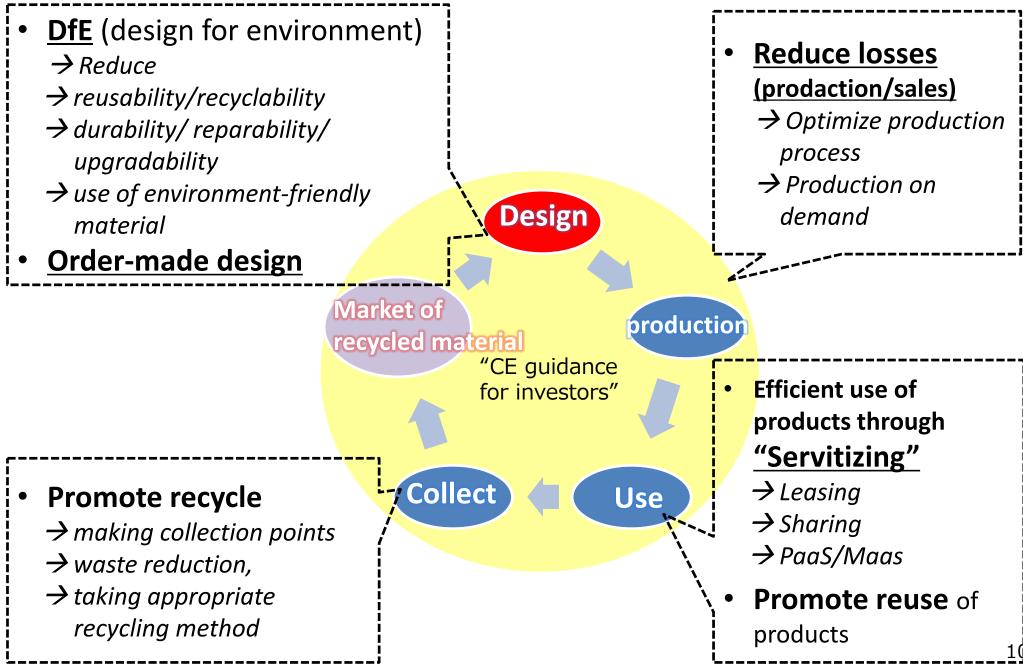
#### **Possible actions:**

- Promote voluntary actions by providing milestones of CE
- Actively participate international discussion on standards

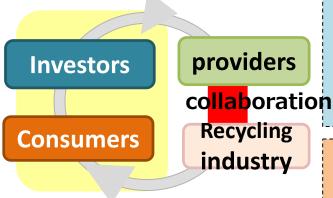


- Setting quality standards for recycled products
- Facilitating recycling activities, promoting R&D

# Ref: business model with high circularity



# CE vision 2020(2): Encourage fair evaluation of investors/consumers



Investors: Promote change in business by investors

- Encourage proper evaluation of companies
- Collaborate in creating mid-and-long-term corporate value through "dialogue" with investors
- Make positive feedback to CE by ESG investment

#### Consumers: important player in CE economy

- Encourage change in lifestyle
  - $\rightarrow$  to buy less, make less waste
  - ightarrow to buy environment-friendly products

#### Possible actions

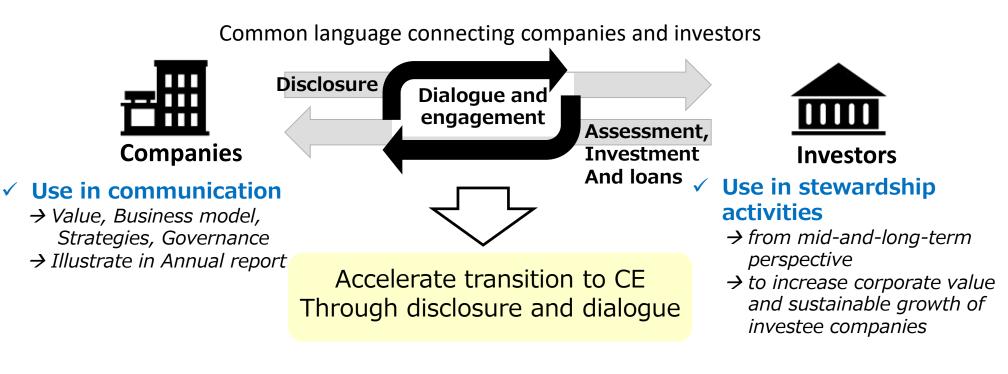
- Disclosure guidance
- **CE guidance for investors** (published in 2021.1)

#### • Creating market

- $\rightarrow$  Labeling products which have circularity
- $\rightarrow$  Green procurement
- $\rightarrow$  Develop products which use recycled material
- $\rightarrow$  Examine incentives to consumers

#### Disclosure and Engagement Guidance to Accelerate Sustainable Finance for a Circular Economy

- This guidance is first-of-its kind in the world to 1: promote disclosure and dialogue and 2: accelerate the transition towards circular economy (CE).
- It encourages dialogue and engagement between companies and investors, aiming innovation in technology and business models by facilitating finance.
- It presents key elements of disclosure and dialogue, with reference to TCFD recommendations and others.



6

### **CE Investment Guidance: 6 focal items**

 In order to accelerate ESG investment on CE business, METI developed the <u>"guidance" to promote corporate disclosure of CE actions and investors</u>' <u>valuation and engagement for long-term corporate value</u>.

### (Published on January 2021)

#### 6 elements for dialogue



# **Act for Plastic Resource Circulation**

(published in June 2021, to be implemented in April 2022)

• The act covers whole lifecycle of plastic and promotes resource circulation activities by stakeholders (companies, consumers, municipalities and others)

#### 1) DESIGN & PRODUCTION

#### Promote **Design for Environment (DfE)** of plastic products → publish guidance of DfE

 $\rightarrow$  certification for environmentally friendly products

#### Images:







#### Set Design Guideline

Mono material product

Easy-to-disassembly and repair

- \* No coloring on PET bottle
- \* Put easy-to-remove label on the bottle

# **Act for Plastic Resource Circulation – contd.**

(published in June 2021, to be implemented in April 2022)



#### Encourage the reduction of single-use plastic offerings

- ightarrow 12 products (cutlery, amenities, and hungers)
- → providers of the products will make reduction targets and take measures (cf. change in materials to non-plastic, confirm the customers' wish)

#### **Examples:**







Reduce plastic

non-plastic material products

confirm the customer's wish

### 3) COLLECTION & RECYCLE

### Encourage and facilitate the collection of post-use products

- → for three routs (collected and recycled by 1) municipalities; 2) manufacturing companies and retailers, and 3) industrial waste producers)
- → Facilitate collection and recycling activities by special provisions of Waste Disposal Law