# Fundamental Plan for Establishing a Sound Material-Cycle Society (Outline)

#### **Image of a Sound Material-Cycle Society**

Manufacturing: DfE (Design for Environment), long-life products, lease & rental

Waste management: cyclical use, appropriate disposal system

## **Quantitative Targets: FY2000-2010**

- 1 Targets for Indicators Based on Material Flow Accounts
- a) Resource Productivity
- b) Cyclical Use Rate
- c) Final Disposal Amount

#### 2 Targets for Indices Related to Efforts

- Reducing the quantity of municipal solid waste
   20% reduction of garbage discharged from households per person per day compared with FY2000
- Promoting sound material-cycle related businesses
   Doubling the size of the related market and the number of related jobs compared with FY 1997

### **Efforts Required of Entities**

- National Government
   Fostering partnerships among stakeholders
- Citizens

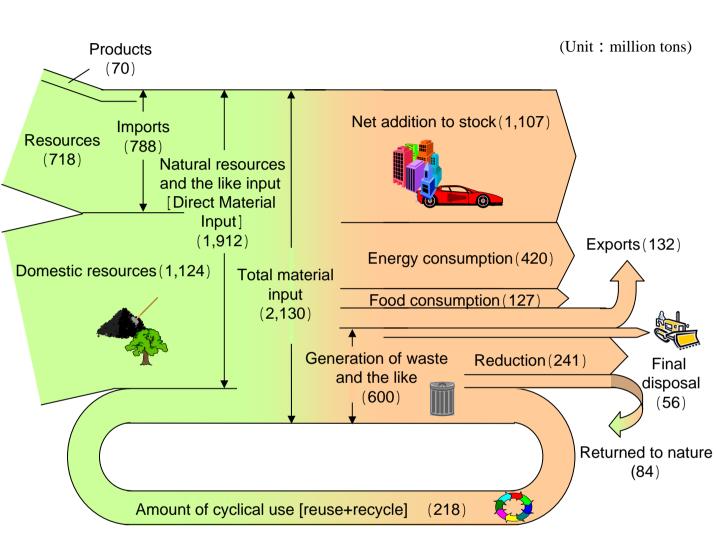
Changing their lifestyle

- NPOs and NGOs
   Promotion of their activities
- Business Organizations

Promoting the "3Rs" based on EPR (Extended Producer Responsibility)

Local Governments
 Enforcing laws and regulations; acting as coordinators

(prepared by Ministry of the Environment in Japan )



The material flow accounts in FY2000 roughly shows:

- A) The total material input is about 2.1 billion tons.
- B) Of the total material input, the amount of cyclical use (reusing+recycling) is 218 million tons.
- C) The amount of final disposal (landfill) is 56 million tons.

#### Targets for Indicators based on Material Flow Accounts

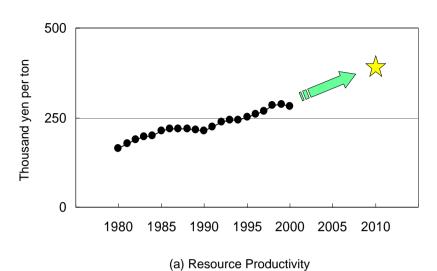
(target year: FY2010)

#### **Resource Productivity**

GDP

Input of natural resources and the like (Direct Material Input)

390 thousand yen per ton (40% improvement from FY2000)



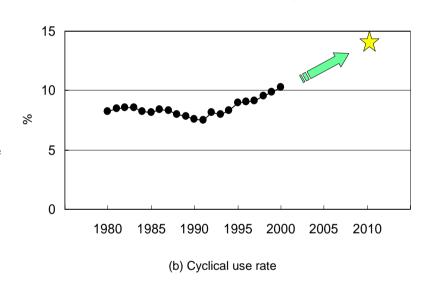
# Cyclical use rate

Amount of cyclical use (reusing + recycling)

Amount of cyclical use

+Input of natural resources and the like (Total material input)

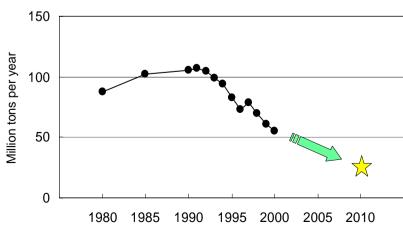
14% (40% improvement from FY2000)



#### Final disposal amount

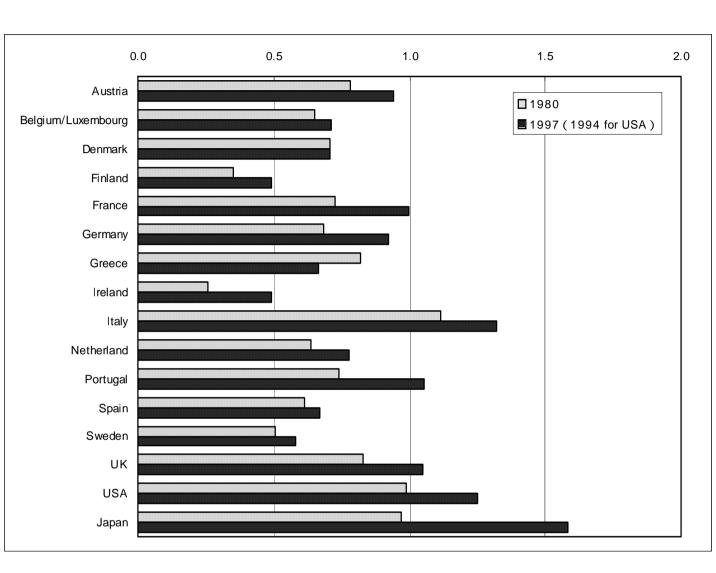
= Final disposal amount of waste (landfill)

28 million tons ( 50% reduction from FY2000 )



(c) Final disposal amount

# International comparison of resource productivity



(US \$ 1,000/ton, based on purchasing power parity in 1995, estimated by the Ministry of the Environment using data from the OECD, World Resources Institute (United States), etc.)