

Outline of the Fundamental Plan for Establishing a Sound Material-Cycle Society

Present situation and problem

Present situation: Unsustainable behavior patterns of the 20th century
Tasks: Realization of socio-economic systems based on 3Rs (reduce, reuse, recycle)
Resolution of waste-related Problems

Image of a sound material-cycle society

Lifestyle: Use of high-quality goods with care; adoption of "slow-paced" lifestyle
Manufacturing: DfE (Design for Environment), long-life products, lease & rental

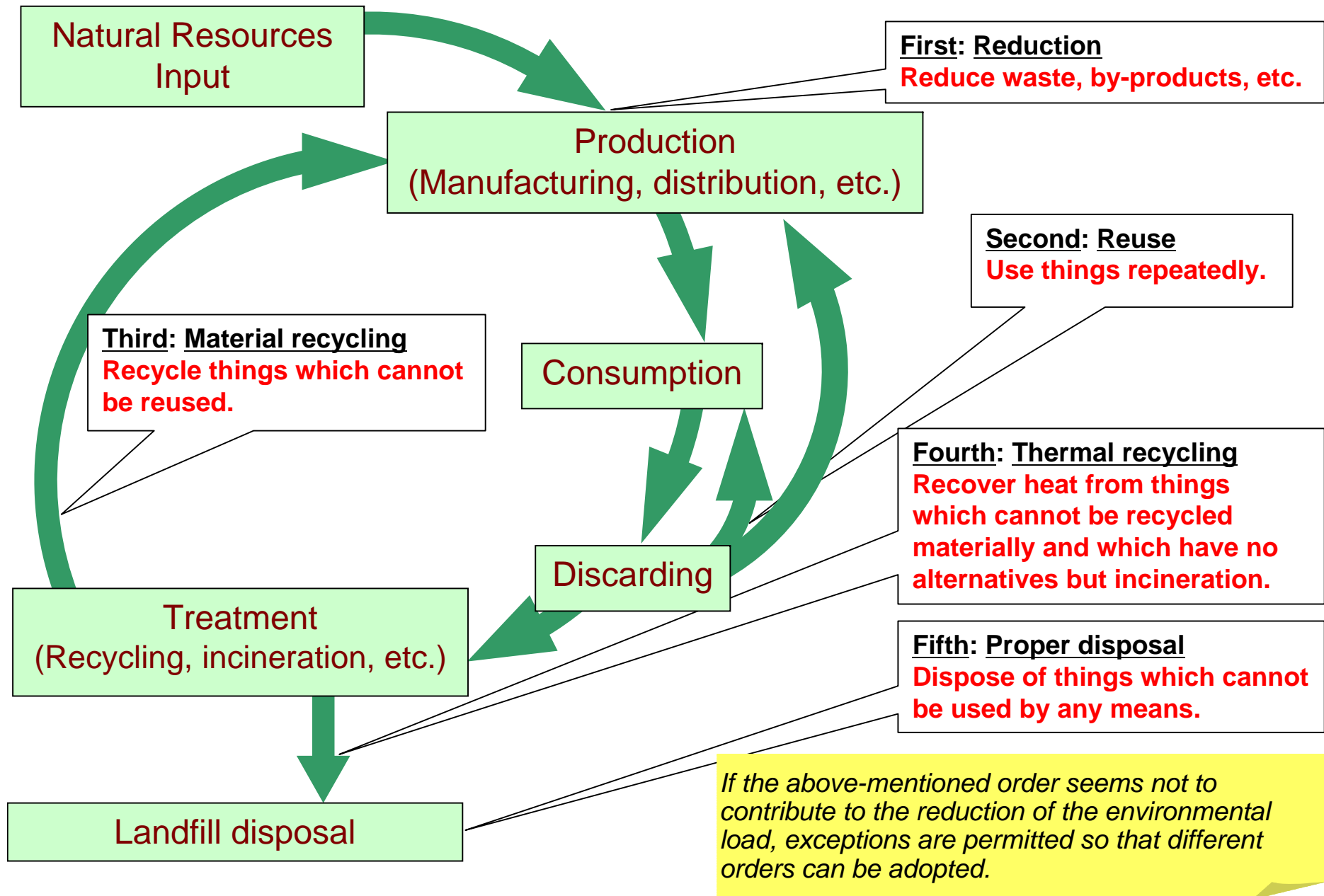
Quantitative targets: FY 2000-2010

1. Targets for indicators based on material flow accounts
 - a) Input: Resource productivity
 - b) Cycle: Cyclical use rate
 - c) Output: Final disposal amount
2. Targets for indices related to efforts
 - Reducing the quantity of municipal solid waste
 - Promoting sound material-cycle related business

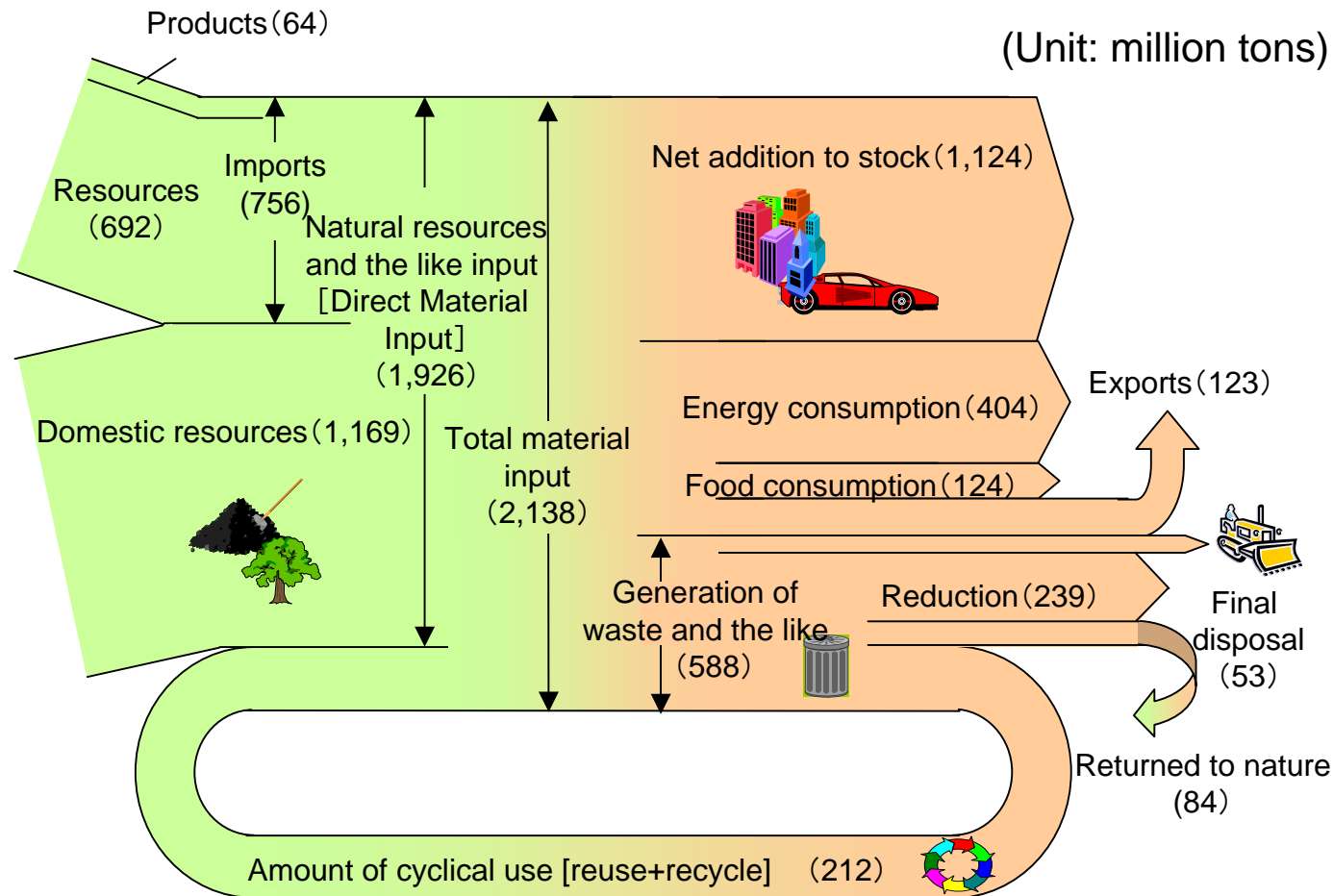
Efforts of Stakeholders

National Government, Citizens, Business Organizations, NPOs/NGOs, Local Governments

Concept of a Sound Material-Cycle Society



Material Flow Accounts (MFA) of Japan

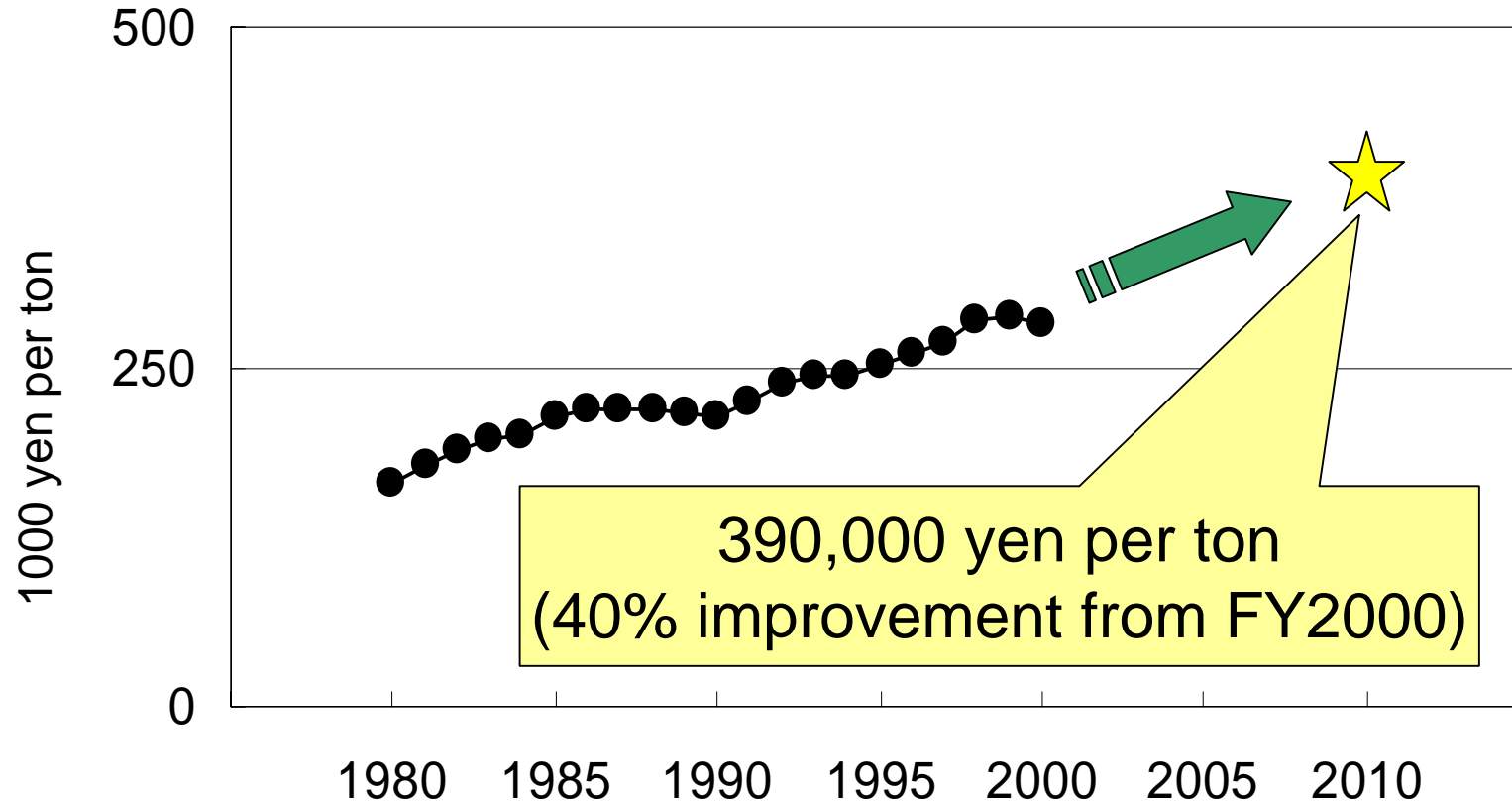


The material flow accounts for FY2001 roughly show:

- 1) Total material input is about 2.1 billion tons.
- 2) Amount of cyclical use (reuse + recycling) is 212 million tons.
- 3) Amount of final disposal (landfill) is 53 million tons.

Targets for Indicators Based on MFA

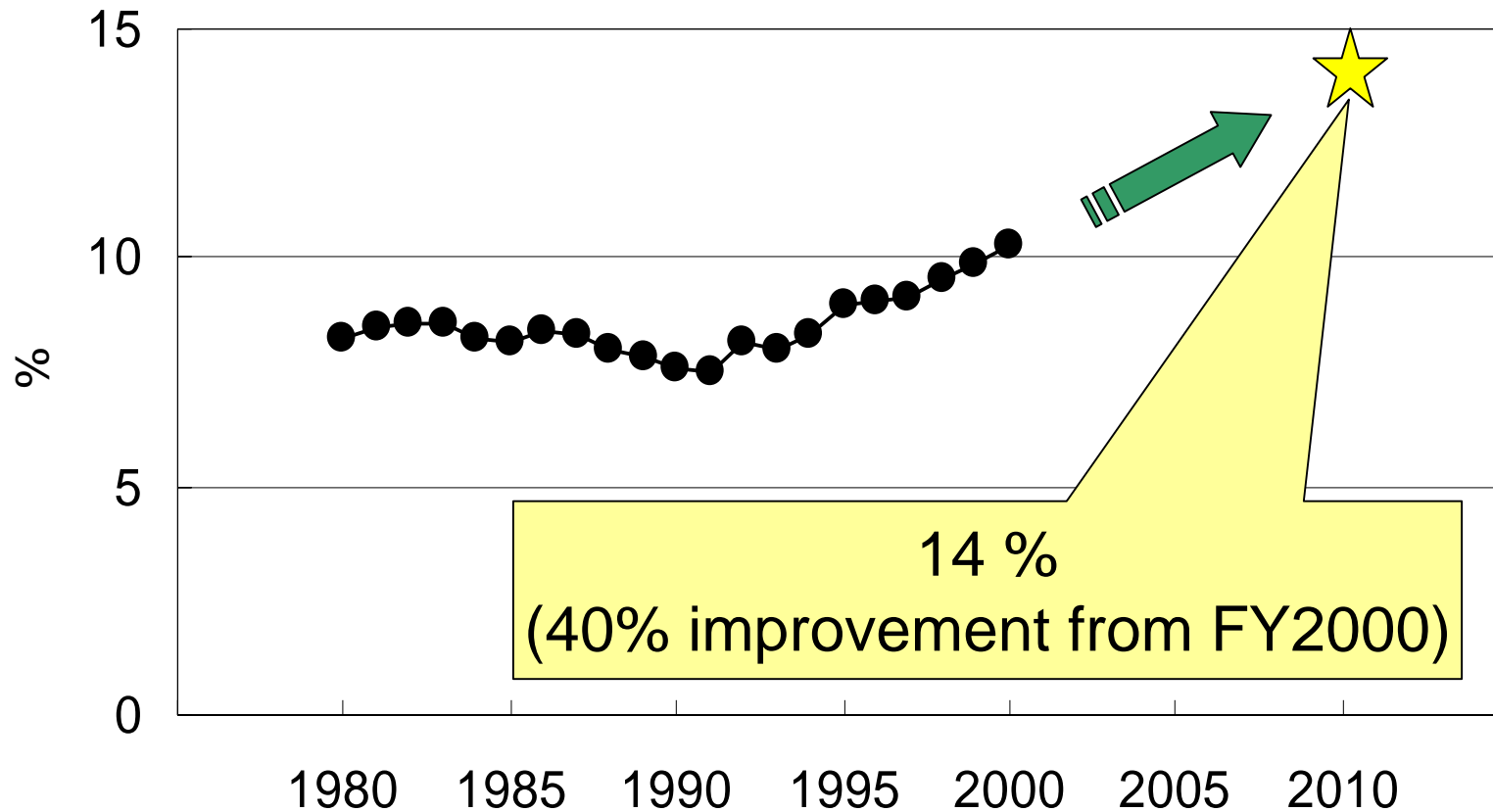
Input: Resource Productivity



$$\text{Resource Productivity} = \frac{\text{GDP}}{\text{DMI* (Input of natural resources and the like)}}$$

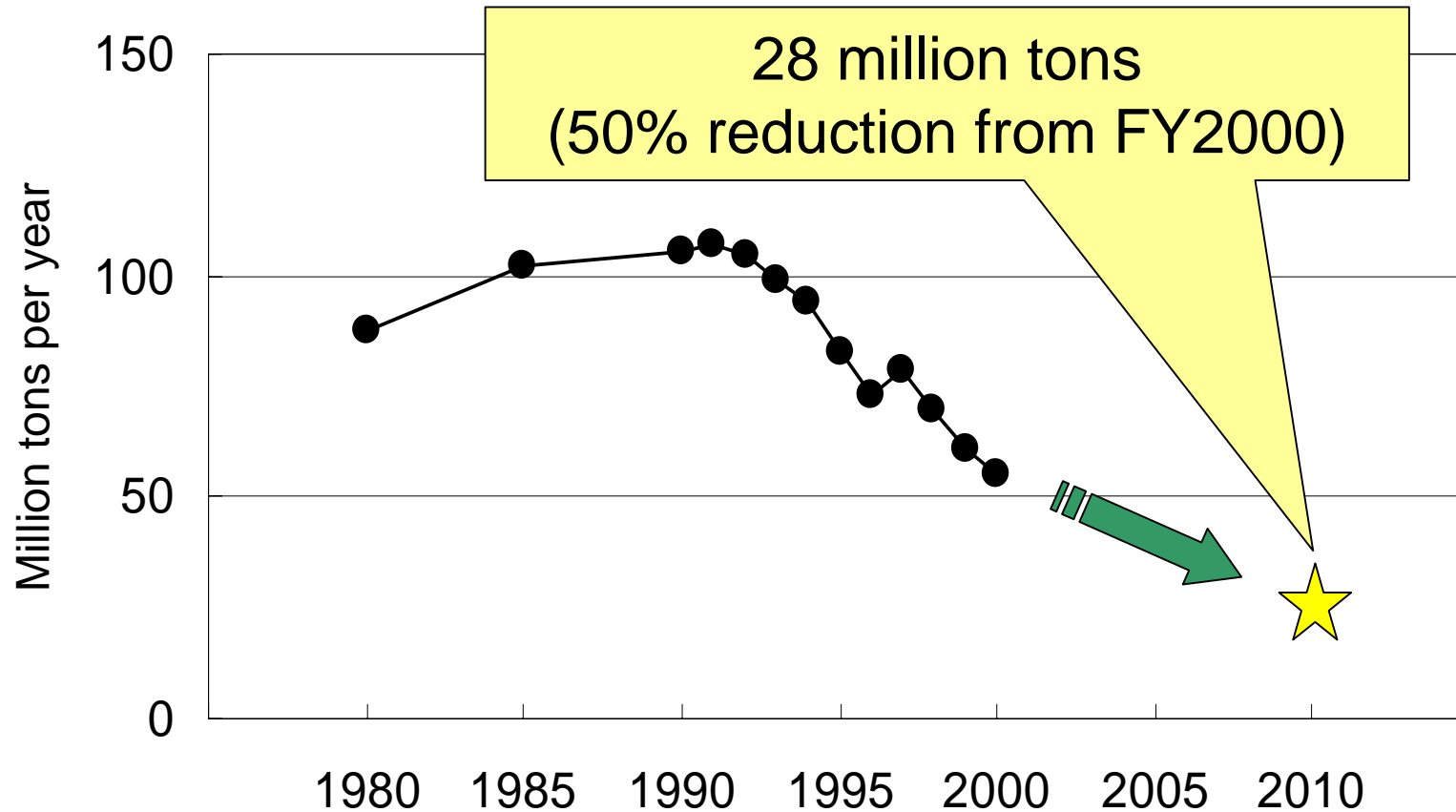
**DMI: Direct Material Input*

Targets for Indicators Based on MFA Recycle: Cyclical Use Rate



Cyclical use rate =
$$\frac{\text{Amount of cyclical use (reuse + recycling)}}{\text{DMI + amount of cyclical use}}$$

Targets for Indicators Based on MFA Output: Final Disposal Amount



Final disposal
amount

= Final disposal amount of waste