

Overview and Update of the Pollutant Release and Transfer Register (PRTR) System

November 8, 2019

PRTR Division

Chemical Management Center, NITE

 **nite** National Institute of Technology and Evaluation
独立行政法人 製品評価技術基盤機構

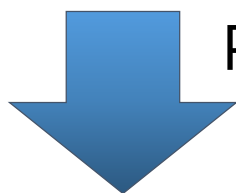
Structure of PRTR law in Japan

< Overview of PRTR law >

<Purposes and Duties>

In order to promote voluntary improvement of the management of chemical substances by business operators and to prevent any impediments to the preservation of the environment:

- Business operators shall report the released and transferred amount of hazardous chemicals to the government. [PRTR System]
- Business operators shall provide the information on properties and handling of hazardous chemicals when traded to other business operators. [SDS System]

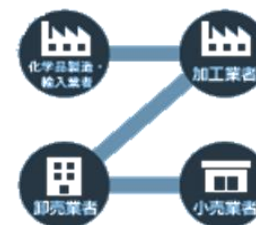
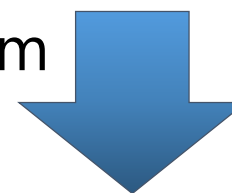


PRTR System

<Targeted chemical substances>

[Class 1 Designated Chemical Substances]
462 substances

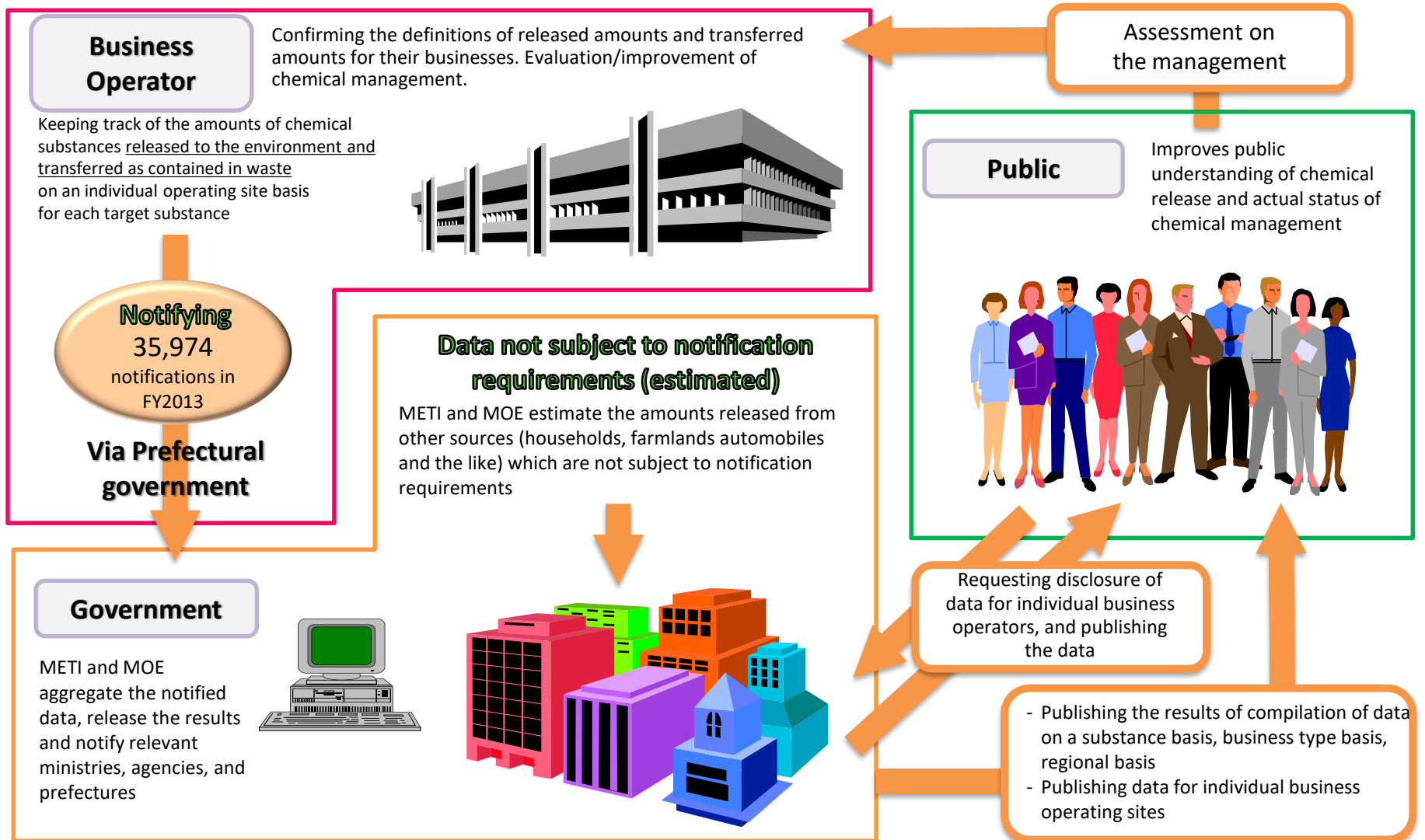
SDS System



<Targeted chemical substances>

[Class 1 Designated Chemical Substances]:
462 substances
[Class 2 Designated Chemical Substances]:
100 substances

Structure of PRTR system



Business operators and designated chemical substances covered by the PRTR system

Business operators

Business unit

- ① Business categories : **24 Industries**
- ② Number of regular employees: **≥21**

Office unit

- ① Annual handling amount¹⁾: **≥1 ton²⁾**,
or ② **special required facilities³⁾**
- 1) annual amount of transactions (production volume + usage)
- 2) In case of Specified class 1 designated chemical substances: **≥0.5 ton**
- 3) Obligatory notified even if they do not meet the annual handling requirements
(Sewage terminal treatment facilities, general waste disposal facilities, industrial waste disposal facilities, specified facilities stipulated by the Act on Special Measures against Dioxins, Facilities for Construction Materials stipulated by the Mine Safety Act)

Designated chemical substances

- Class I Designated Chemical Substances: **462 substances**
- ※Of these, **15 substances** are "specified Type 1 designated chemical substances": substances that are carcinogenic, germ cell mutagenicity and reproductive developmental toxicity
(http://www.meti.go.jp/policy/chemical_management/law/msds/pdf/sin1shu.pdf)

Amounts Released and Transferred

- **Amounts released :** amounts released to the environment due to business activities

- i. Atmosphere
- ii. Public water bodies : river, lake, sea
- iii. Soil (excluding iv)
- iv. Landfill at the operation site

- **Amounts transferred :** amounts transferred from the operation site to off-site for the treatment of waste generated as a result of business activities

- i. Transferred to sewage
- ii. Transferred to off-site : Transferred to industrial waste contractors

*1: Reporting values are not the amounts handled

*2: Amounts transported off-site as products are not considered to be the amounts transferred

*3: Even it is waste at the operation site of concern, if it is transferred to other operator as renewable resource by receiving values, it should not be treated as a transferred amount

Disclosure of PRTR Data

Published on the Webpage

- ✓ Data of each year can be obtained from webpages of the METI, MOE, or NITE.
METI https://www.meti.go.jp/policy/chemical_management/law/prtr/6.html (only Japanese)
MOE <http://www.env.go.jp/en/chemi/prtr/prtr.html>
- ✓ All items other than personal information (contact person's info.) are subject to publication.

◆ Disclosure of Database

- The Releases and Transfers by Chemical Substance
- The Releases and Transfers by Prefecture
- The Releases and Transfers by Number of Employees
- The Estimated Releases Outside Notification
- The Estimated Releases from Transport Sources
(The estimated releases by Automobiles, Motorcycles, Special Automobiles, Shipping, Railway Cars, and Aircraft)

◆ Individual business data

PRTR information reported by each business is disclosed (all reports)

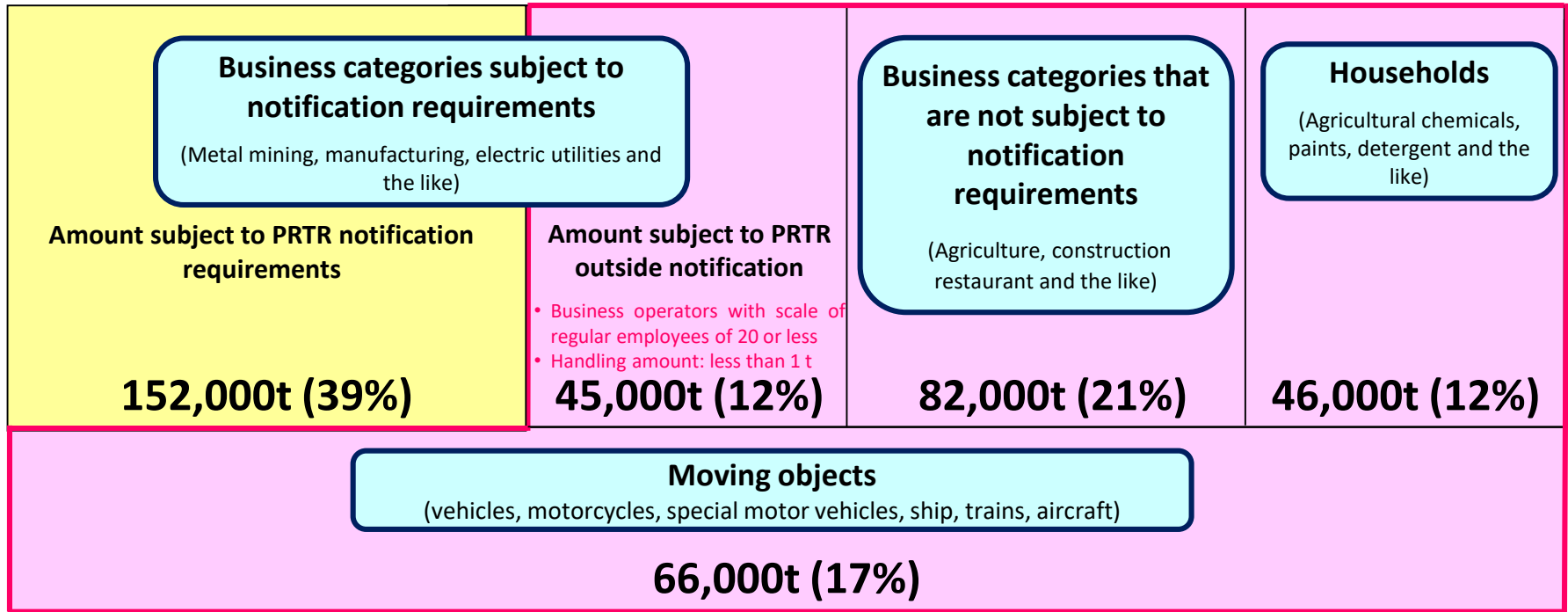
- | | | |
|--------------------------|------------------------------|-----------------------------------|
| • Report to Local Gov. | • No. of substances reported | • Release into the air |
| • Business name | • No. of employees | • Release to public water bodies |
| • Business place name | • Industry | • Release to land (on-site) |
| • Business place address | • Substance names | • Landfill disposal on-site |
| | | • Transfer to sewage |
| | | • Transfer to off-site (in waste) |

Published Data for Notifications in FY2017

Total number of notifications received : 34,253

1. Released amounts : 391,000t

- Notified by business operator
- Estimated by government



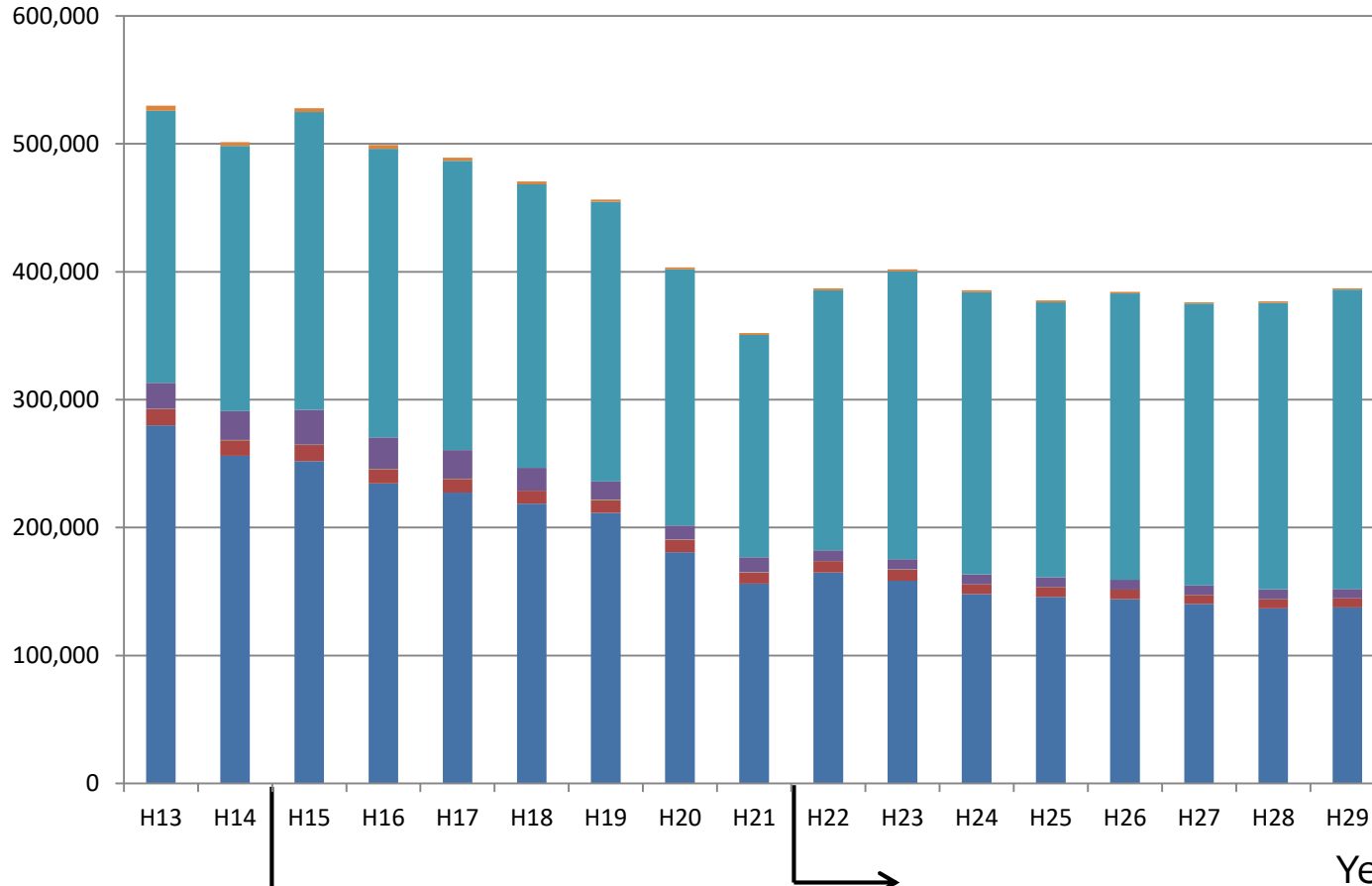
Amounts subject to notification requirements : amounts not subject to notification requirements = 39% : 61%

2. Transferred amounts: subject to PRTR notification requirements : 235,000t

* Transferred amounts are not estimated

Over-the-years of PRTR-Notified emissions and transfer amount

Unit (tons)



More than 5t ← Requirements for notification → More than 1t

Before 2009: 354 substances, 23 industries
 2010 or later: 462 substances, 24 industries

Start of the review process of the PRTR law

< Schedule >

From 2018:

Start to discussion between METI and MOE

From 2019(tentative):

Discussion between METI, MOE (3 times)

Public comment

After that:

**Start to discussion about targeted chemical substances
between METI, MOE and MHLW**

※METI: Ministry of Economy, Trade and industry MOE: Ministry of Environment MHLW: Ministry of Health, Labor and Welfare

Points being discussed:

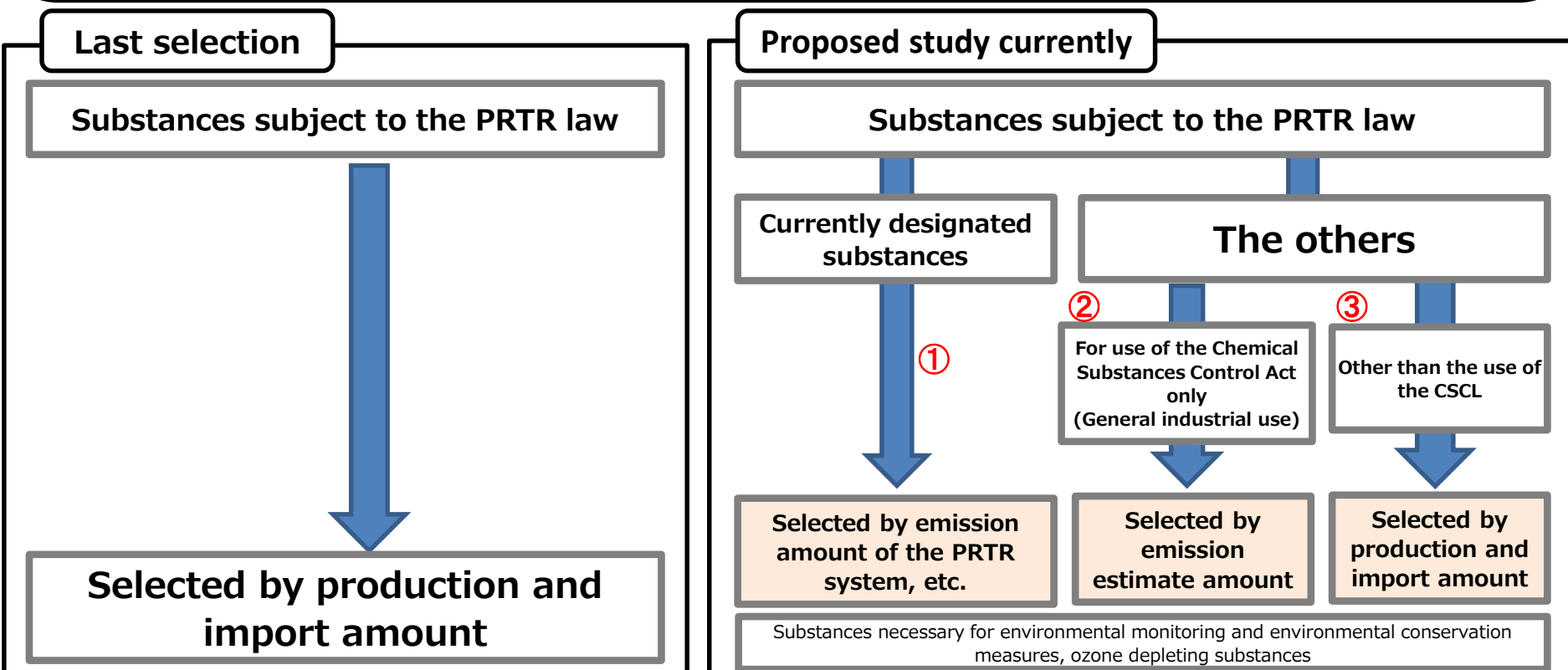
➤ **Review of targeted chemical substances**

Hazards + exposure potential

Flow of designating substances based on exposure

- Current : selected based on the amount of production and import
- In this review :
 - ① Currently designated substances: Selected by emission amount of the PRTR system, etc.
 - ② The others for use of the Chemical Substances Control Act only (General industrial use): Selected by emission estimate amount
 - ③ The others for other than the use of the CSCL: Selected by production and import amount

※In addition, it is necessary to select Substances such as necessary for environmental monitoring and environmental conservation measures, ozone depleting substances



Thank you for your attention.

—Safety and your Future with NITE—

nite National Institute of Technology and Evaluation
独立行政法人 製品評価技術基盤機構

<http://www.nite.go.jp/en/chem/index.html>