



OECD ACTIVITIES ON PRTRS

Regional workshop on Pollutant Release and Transfer
Registers, 9 October 2014

Takahiro HASEGAWA
Environment Directorate, OECD



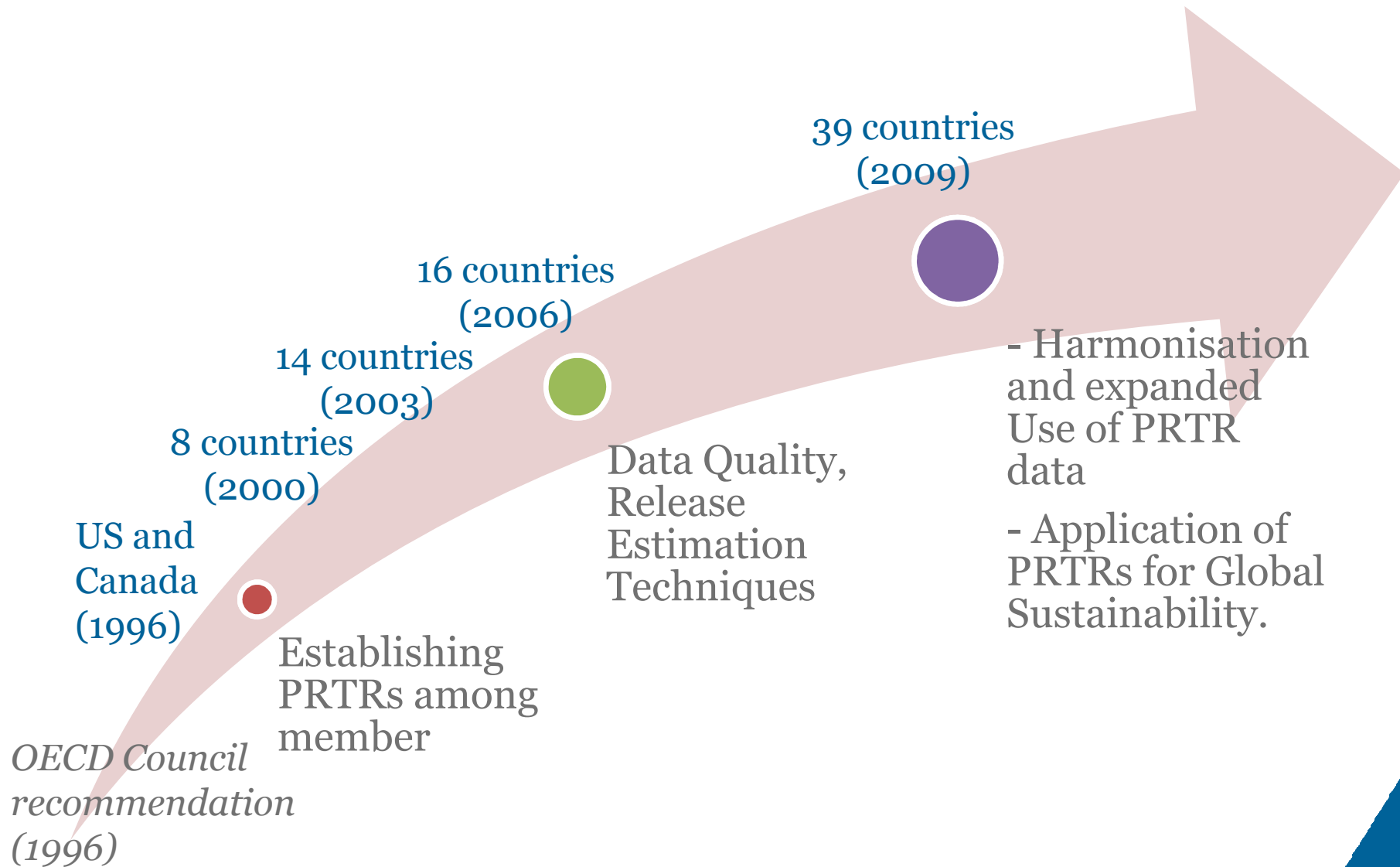
Core Set of a PRTR

1. A listing of chemicals, groups of chemicals, and, if appropriate, other relevant categories all of which are pollutants when released or transferred;
2. Integrated multi-media reporting of releases and transfers (air, water and land);
3. Reporting of data by source where the reporting sources are defined;
4. Reporting on a periodic basis, preferably annually; and
5. Making data available to the public.





Paradigm of OECD Activities





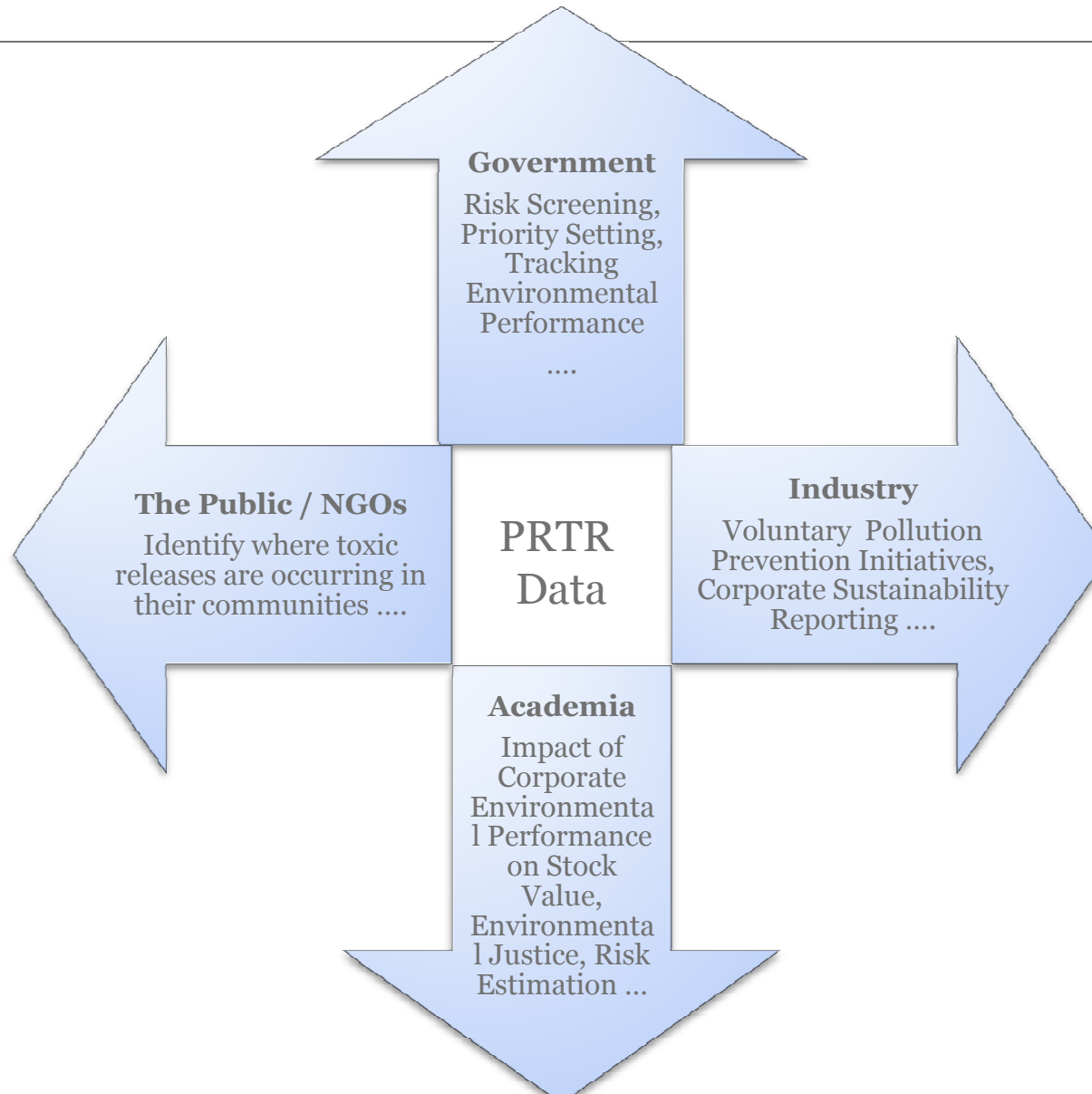
Status of PRTRs

- 39 countries have operational PRTR system
 - All 28 EU countries, 3 European Economic Area (EEA) countries and 9 other countries)
 - Roughly 55% of the responding countries are already including releases from diffuse sources, such as from transport, agriculture, etc.
- Most PRTRs collect annual data on major greenhouse gas emissions.





Use of PRTR Data





Examples of PRTR Data

Air Emission

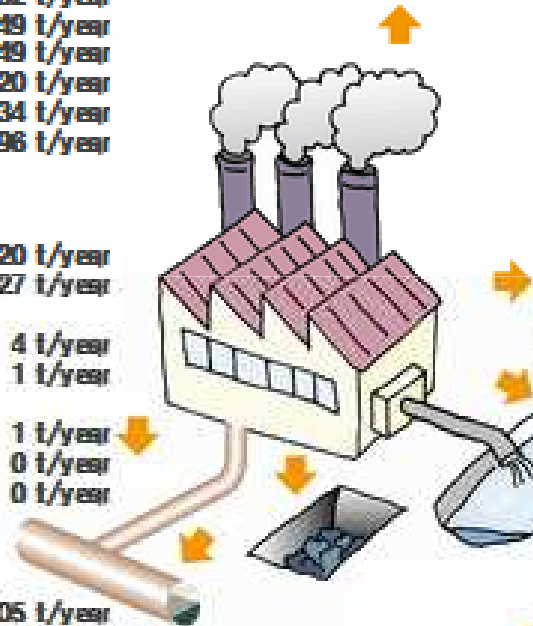
① toluene	58,487 t/year
② xylene	31,952 t/year
③ ethylbenzene	14,749 t/year
④ dichloromethane	13,549 t/year
⑤ n-hexane	11,220 t/year
⑥ carbon disulfide	4,334 t/year
⑦ trichloroethylene	3,196 t/year

Land

① manganese and its compounds	120 t/year
② chromium and chromium (III) compounds	27 t/year
③ toluene	4 t/year
④ arsenic and its inorganic compounds	1 t/year
⑤ lead compounds	1 t/year
⑥ tetrachloroophthalonitrile	0 t/year
⑦ boron compounds	0 t/year

POTWs

① N,N-dimethylformamide	205 t/year
② ferric chloride	134 t/year
③ poly(oxyethylene)alkyl ether (alkyl C=12-15)	132 t/year
④ formaldehyde	72 t/year
⑤ boron compounds	62 t/year
⑥ N,N-dimethylacetamide	62 t/year
⑦ 2-aminoethanol	61 t/year



Waste

① manganese and its compounds	46,199 t/year
② toluene	41,426 t/year
③ chromium and chromium (III) compounds	15,640 t/year
④ ferric chloride	10,040 t/year
⑤ xylene	8,578 t/year
⑥ hydrogen fluoride and its water-soluble salts	8,364 t/year
⑦ dichloromethane	7,148 t/year

Water Bodies

① boron compounds	2,907 t/year
② hydrogen fluoride and its water-soluble salts	2,266 t/year
③ manganese and its compounds	764 t/year
④ zinc compounds (water-soluble)	586 t/year
⑤ N,N-dimethylacetamide	168 t/year
⑥ ε-caprolactam	134 t/year
⑦ N,N-dimethylformamide	131 t/year

Landfills

① lead compounds	3,646 t/year
② manganese and its compounds	1,992 t/year
③ arsenic and its inorganic compounds	828 t/year
④ antimony and its compounds	308 t/year
⑤ nickel compounds	275 t/year
⑥ chromium and chromium (III) compounds	230 t/year
⑦ cadmium and its compounds	96 t/year



Use of PRTR Data

Learn About Toxic Chemicals in Your Community

Find TRI Facilities



Toxics Release Inventory (TRI) Program

<http://www2.epa.gov/toxics-release-inventory-tri-program>



Challenges to apply PRTR data

PRTR can provide emission data on different media covering enormous pollutants and reporting sectors.

Quality

- Reported data, different estimation techniques, point sources vs non-point sources

Coverage

- Other sources such as SMEs (related to thresholds of reporting facilities), non-point sources and natural sources

Harmonisation

- Pollutants, target sectors, etc. particularly for international or regional analysis





OECD Activities

Harmonisation

- Global Pollutant Release And Transfer Register: Proposal For A Harmonised List Of Reporting Sectors [ENV/JM/MONO\(2013\)5](#)
- Global Pollutant Release and Transfer Register, Proposal for a Harmonised List of Pollutants [ENV/JM/MONO\(2012\)9](#)

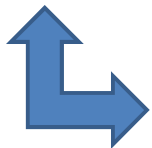
Release Estimation Techniques

- Resource Compendium of PRTR Release Estimation Techniques:
 - Part 4: Summary of Techniques for Releases from Products, Version 1.0, [ENV/JM/MONO\(2011\)7/PART1](#), [PART 2](#)
 - Part 3: Summary of Techniques for Off-site Transfers, [ENV/JM/MONO\(2005\)9](#)
 - Part 2: Summary of Diffuse Source Techniques, [ENV/JM/MONO\(2003\)14](#)
 - Revision 1 of Part 1: Summary of Point Source Techniques, [ENV/JM/MONO\(2002\)20/REV1](#)

Use of PRTR Data

- Application, Use and Presentation of Pollutant Release and Transfer Registers (PRTR) Data [ENV/JM/MONO\(2013\)1](#)
- Uses of Pollutant Release and Transfer Register Data and Tools for their Presentation: A Reference Manual [ENV/JM/MONO\(2005\)3](#)

New project: Role of PRTR data in global sustainability, 2013-2016



- IOMC Toolbox for Decision Making in Chemicals Management
- Possible work with Environmental Core Indicators
- And potentially other internal OECD work



OECD Databases on PRTRs

Centre for PRTR Data

- Presenting national PRTR data at one Internet location

Resource Centre for Release Estimation Techniques

- Providing information on available release estimation techniques, overarching documents and general information

PRTR.net

- Providing a global portal to PRTR information and activities from countries and organisations around the world, cooperated by UNECE and UNEP

Centre for PRTR Data

[A] Select the type of report you would like to create

Country Number of results to be displayed: 10

[B] Select criteria to narrow the scope of your query

a) Show results for all countries, a country or a state/province

All Countries

b) Select one from the following three types of search for chemicals,

(1) Select a specific chemical name

(2) Enter a CAS NO

(3) Enter a chemical name or some parts of the chemical name

(1) Take into account all chemicals or a specific chemical

Select the chemical

(2) Enter a CAS NO. (as *-*-**-*-*)

(3) Enter a chemical name or parts of chemical name

All of these words

Any of these words

c) Take into account data for the following industry sector

All Sectors

[C] Select for the sources you want a report

Total of point and diffuse sources

Point sources (reported by sources)

Diffuse sources (estimated by the government)

[D] Select the year/years you want the report(s) of

2001 2002 2003 2004 2005 2006 2007 2008 2009

[E] Select the type of emissions and/or transfers you want a report of

Total releases and transfers

Total releases

Air emissions

Surface water discharges

Land emissions

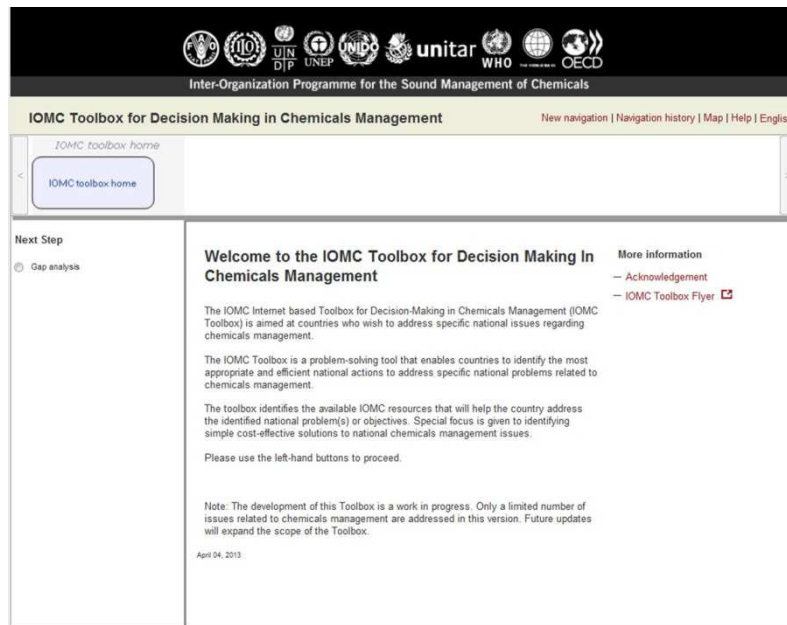
Landfills

Total transfers



Working with Partner Organizations

- IOMC Toolbox for Decision Making in Chemicals Management (developing a PRTR module with UNITAR)



<http://iomctoolbox.oecd.org>

- *PRTR.net* (with UNECE and UNEP)
- A joint session between TFPTR and Working Group of the Kiev Protocol (with UNECE)





For further information

The screenshot shows a web browser window displaying the OECD website. The address bar shows the URL: <http://www.oecd.org/chemicalsafety/pollutant-release-transfer-register/>. The page features the OECD logo and the tagline "BETTER POLICIES FOR BETTER LIVES". A navigation menu includes "OECD Home", "About", "Countries", "Topics", "Statistics", and "Newsroom". The main content area is titled "Pollutant release and transfer register" and includes a "Find" section with links to "Series on pollutant release and transfer registers", "Useful databases", and "Overview of pollutant release and transfer register". A "Focus" section highlights "Recommendations" and "Dissemination and use of PRTR data". A text block explains that the PRTR is a key tool for governments to provide the public with data regarding hazardous chemicals and pollutants. The page also mentions that OECD has been supporting the development and implementation of PRTR systems in member countries by developing guidance manuals and technical documents. The OECD work on PRTRs is overseen by the Task Force on PRTRs, which aims at:

- Developing practical tools and guidance to help member countries implement a PRTR;
- Outreaching activities to non-member economies, including the provision of information and technical support; and
- Promoting communication and a close working relationship between the OECD Task Force on PRTRs and other relevant organisations.

Among technical and practical aspects, special focus goes to the dissemination and use of PRTR data, and release estimation techniques under a PRTR scheme.

<http://www.oecd.org/env/prtr>

