

# **MEXICAN POLLUTANT RELEASE AND TRANSFER REGISTER (PRTR)**

**SGPA-DGGCARETC-DRIRETC**

**April, 2010**



## Background

- México participated in a pilot project conducted by UNITAR
- National Coordination Group and National Executive Establishment Proposal, 1994-1995
- Research study for the PRTR report (approximately 45 facilities), 1995-1996

### PHASE I: VOLUNTARY REPORT

- PRTR voluntary annual report (approximately 150 facilities, 9 substances where reported with minimum amounts), 1998-2004
- Publication of the voluntary regulation (NMX) including 104 PRTR substances list, 2001

### PHASE II: MANDATORY REPORT

- Environmental law amendment. Art. 109 Bis LGEEPA, 2001
- Electronic format update (COA), negotiation of the PRTR regulation with stakeholders, from 2002 to 2005
- Training materials development (tutorials, guides, DVD & CD), video conferences and training workshops were provided to approximately 15,000 people
- Reception and COA review: 2004 (11,500), 2005 (25,500), 2006 (28,900), 2007 \* (10,500), and 2008 (7,600)

\*Change of regulation for hazardous waste



## Institutional Importance PRTR

**Air Emissions  
Inventory**

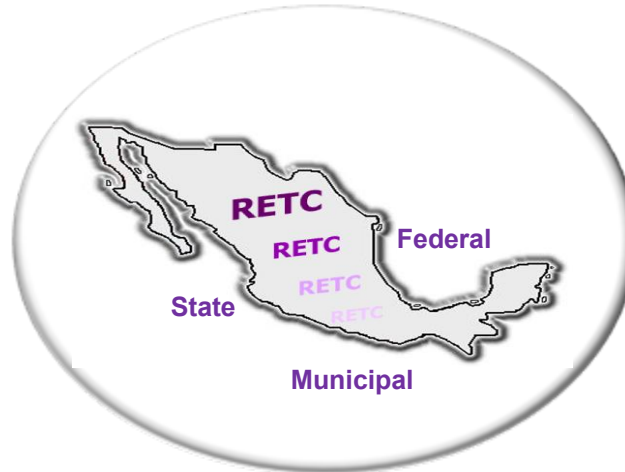
**Waste Inventory**

**Greenhouse  
Gases  
Inventory**

**Cleaner  
Production**

**Chemical  
Inventory**

**Regulation  
instrument's  
generation and  
updating**

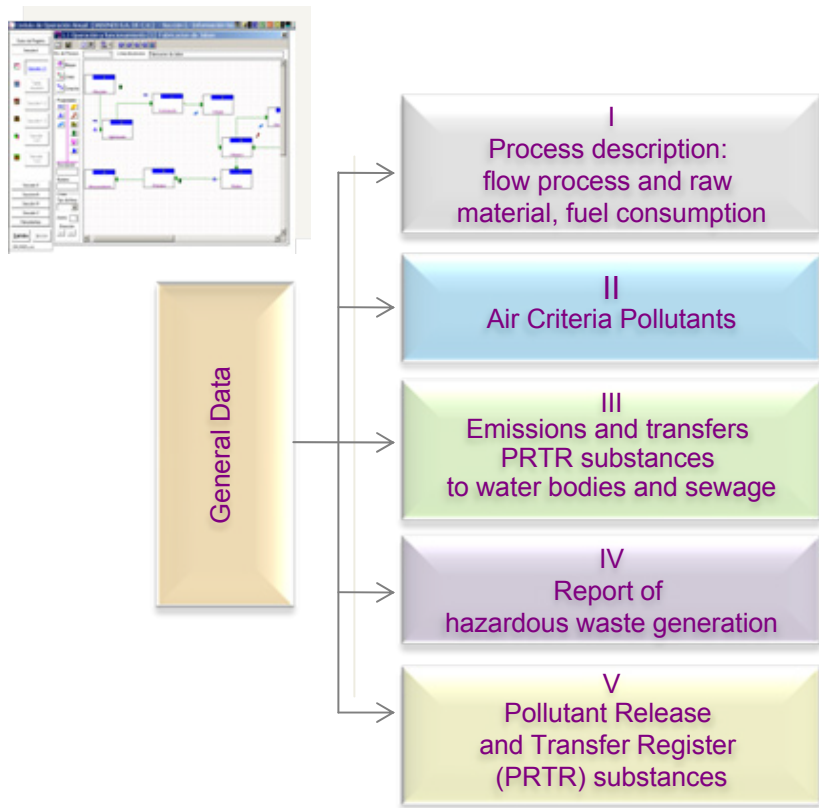


**ODS Emissions  
Inventory**

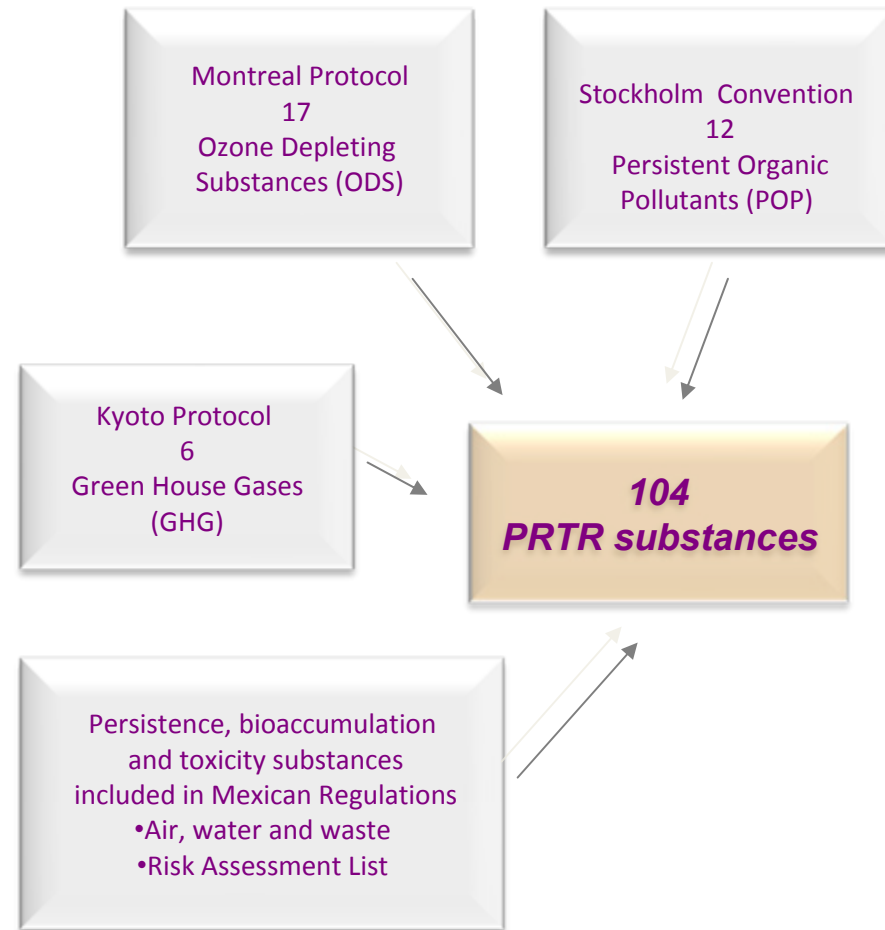
**Persistent Organic  
Pollutants Emissions  
Inventory**

**Urban  
Ecological  
Planning**

## Electronic Format to report PRTR



## PRTR Substances List

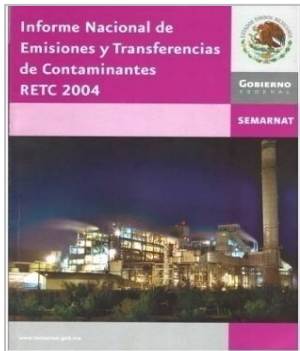


- Electronic report multimedia (integrates reports of to air, water, hazardous waste, emissions and transfers)
- Comparability elements with North America PRTR
- Environmental performance follow up
- Emissions and transfers related to process stages



## Mandatory Reports

### RETIC, 2004



1,719  
 facilities

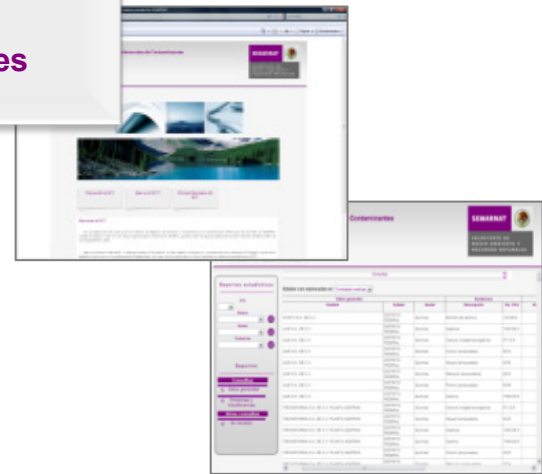
### RETIC, 2005



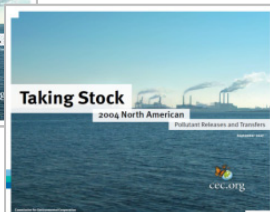
2,451  
 facilities

RETIC, 2006  
 2,736  
 facilities

RETIC, 2007  
 2446  
 facilities



### PRTR of North America



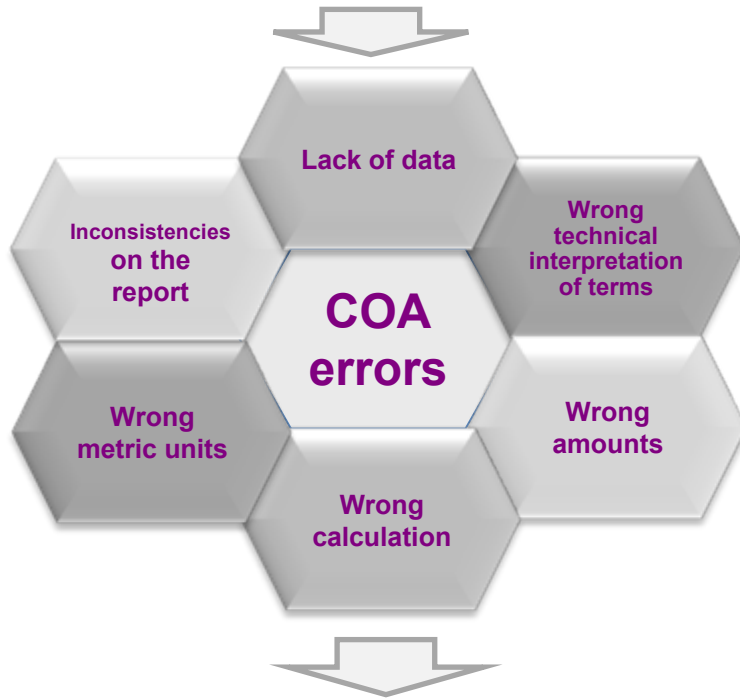
<http://www.cec.org/>

### RETIC-web

<http://app1.semarnat.gob.mx/retc/index.html>

## Quality Assurance/Quality Control of Information

- 200 review criteria (BD and COA)
- Benchmarking by industry
- Comparative analysis of historical information by company

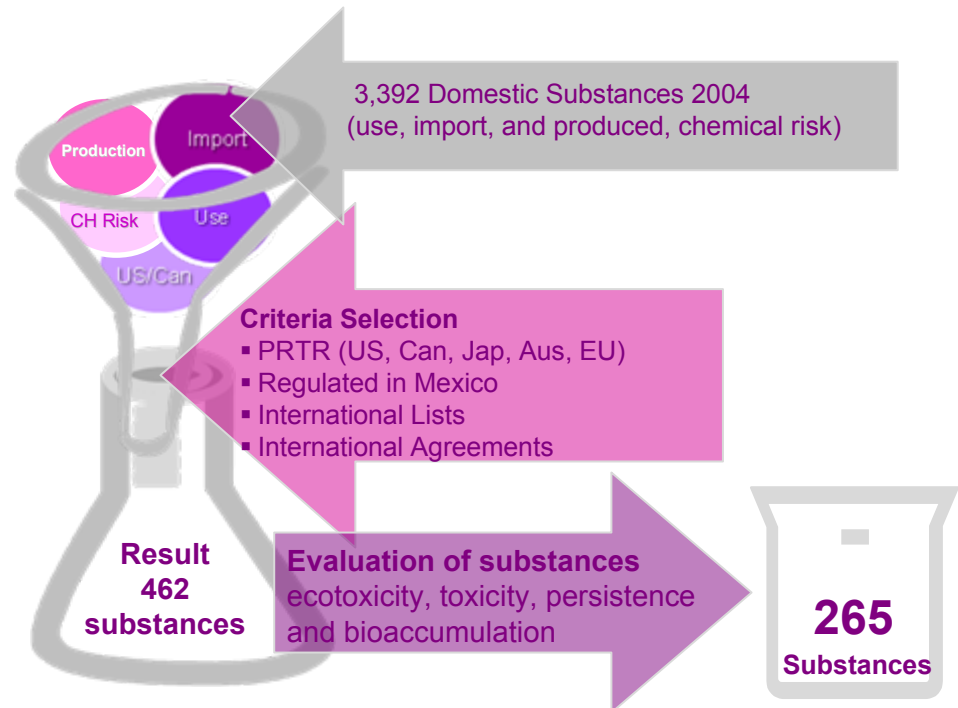


- Big opportunities to improve information
- Generation of guides by industrial sector
- Emission factor generation

## Substance Selection Procedures

### Studies

- Usage analysis for the 104 substances
- Usage analysis for the 178 substances that are comparable within US and Canada
- Identification of consumption, sale, import, export and production in Mexico of the 104 PRTR substances
- Evaluation of 462 Substances: ecotoxicity, toxicity, persistence and bioaccumulation



## Internationally Comparable Substances 2005

CAS	Name	Mex	US	Can	EU	Jap	Aus
79-01-6	Trichloroethylene	✓	✓	✓	✓	✓	✓
107-06-2	1,2-Dichloroethane	✓	✓	✓	✓	✓	✓
71-43-2	Benzene	✓	✓	✓	✓	✓	✓
67-66-3	Chloroform	✓	✓	✓	✓	✓	✓
75-09-2	Dichloromethane	✓	✓	✓	✓	✓	✓
75-01-4	Vinyl chloride	✓	✓	✓	✓	✓	✓
108-95-2	Phenol	✓	✓	✓	✓	✓	✓



## Lessons Learned

- Maintain the political willness
- The PRTR was the first instrument of information public access in Mexico Information
- Information supports national and international conventions agreements
- Environmental legal framework update to implement PRTR at National level
- Important participation of NGO in the PRTR communication process
- Information for Strategic Environmental Planning, determination of environmental infrastructure needs and development of environmental regulatory framework
- Reducing emissions of hazardous substances at the industry, build trust and credibility in government
- Capacity building National wide on substance estimation
- Integrated reporting format COA:
  - PRTR information (water discharged, PRTR substances waste generated, total air emissions, fuel consumption, etc).
  - Simplification of procedures through an environmental report
  - It includes elements of comparability (Substance, thresholds, industrial sector, etc)

## Challengers

- Official Standard publication provides for the inclusion of more toxic and ecotoxic substances
- Systems development in new computing platform
- Automatic information review optimize information processing and increase the reliability and consistency of information
- Implementation of Communication Master Plan
- Continue building capacity for information processing at the 32 states and 100 main municipalities
- International benchmarking and information exchange
- Continue to share international experience in implementing and updating the PRTR

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Recursos Naturales



**THANK YOU**