

November 2023

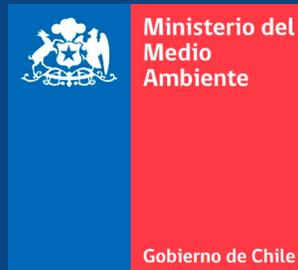
# Pollutants registers of emissions and transfers in Chile

**Matías Vergara Herrera**

Department of Environmental Information

Ministry of Environment

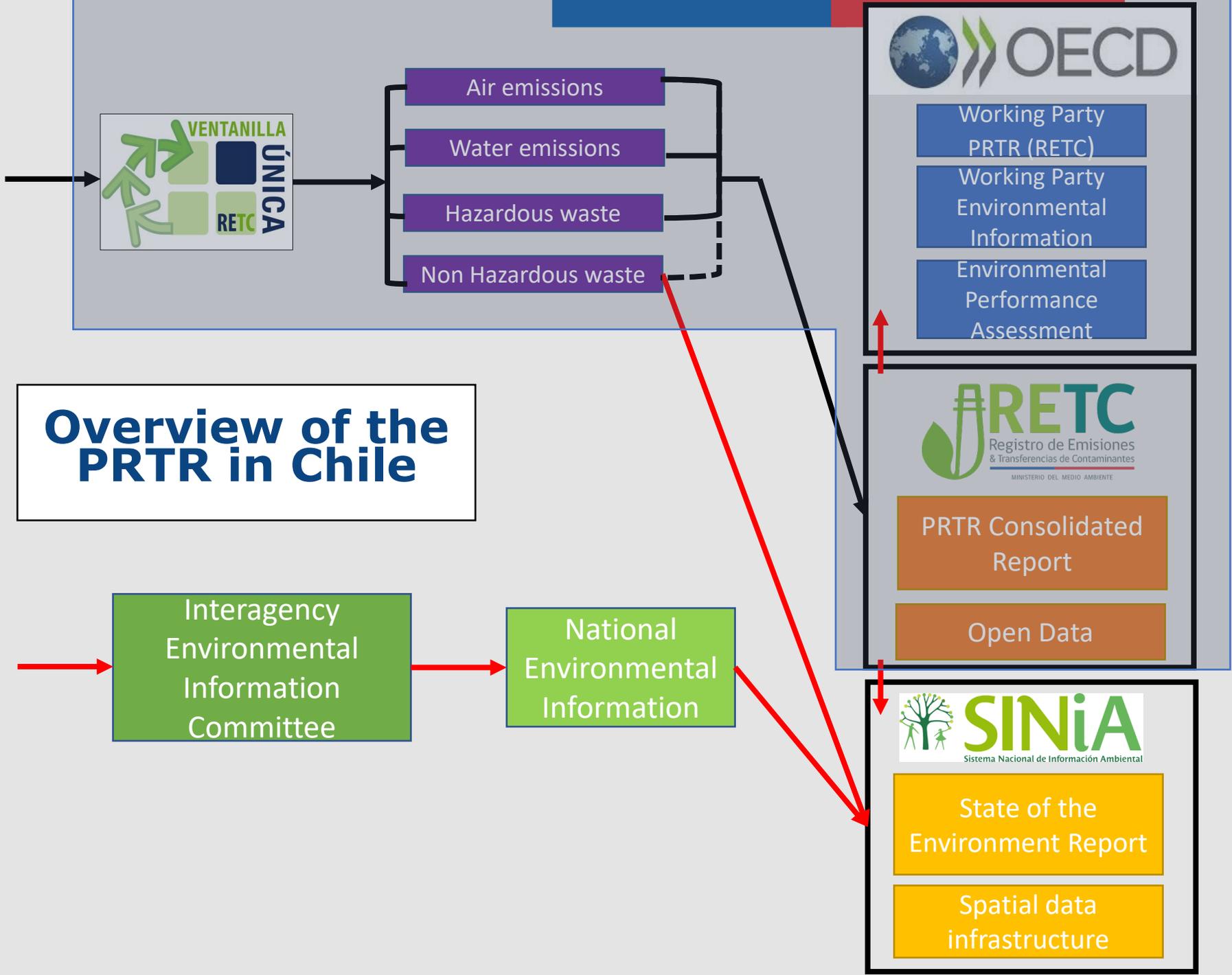
[mvergara@mma.gob.cl](mailto:mvergara@mma.gob.cl)



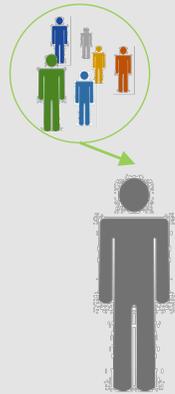
# Table of context:

1. **Overview of the PRTR in Chile.**
2. **Status of the PRTR in Chile.**
3. **Specific challenges: PRTR data.**
4. **Specific challenges: PRTR operation.**
5. **Planned future activities and good practices.**





# Overview of the PRTR in Chile



**DATA CAPTURING SYSTEM**  
**VENTANILLA ÚNICA RETC**  
*One Single Window*

Data entry

**VU**

42.982 establishments

**Productive sectors:**  
 thermoelectric plants,  
 cement plants,  
 foundries, iron and  
 steel industry, and  
 construction.

## SECTORIAL SYSTEMS

National Declaration System  
 for Non-hazardous Waste  
*SINADER* 14.359

Single Registry of  
 Atmospheric Emissions  
*RUEA* 18.474

Electronic Declaration and  
 Tracking System for  
 Hazardous Waste  
*SIDREP* 19.210

Liquid Industrial Waste  
 Control System  
*RILES* 768

Other Systems  
 (SUP. MEDIO AMBIENTE / MINSAL / MMA)

PRTR  
 ANNUAL  
 AFFIDAVIT  
 SYSTEM  
*DJA*

## DATA PROCESSING

Non-hazardous Waste

Water Emissions

Air Emissions

Hazardous Waste

## PRTR



More than 200  
 pollutants with a  
 focus on specif  
 ones

REGISTERS

### Sectorial Systems

This are websites in which the user can  
 upload the environmental information  
 from its facility

DATA  
 MANAGEMENT

INFORMATION  
 MANAGEMENT

# Status of the PRTR in Chile

- **From data to information as a process:**

- Changes in the department organization.
  - Data capturing.
  - Data management.
  - Information management.
- Data quality.

- **From a register to a policy instrument:**

- Consolidated data capturing systems: Single Window System/*Ventanilla Unica del Ministerio del Medio Ambiente*.
- Integration with other environmental instruments:
  - Green taxation and compensation system.
  - Design and monitoring of emissions norms.
- Reporting to international commitments.
- PRTR and information publication under the Ezcazú agreement.



# Specific challenges: PRTR data

- **Data management:**

- Building capacity to work with data sources and data flow automation.
- Statistical and systems-level validation criteria.
- Focus: Universes of interest and thresholds.
- Data integration and completeness.

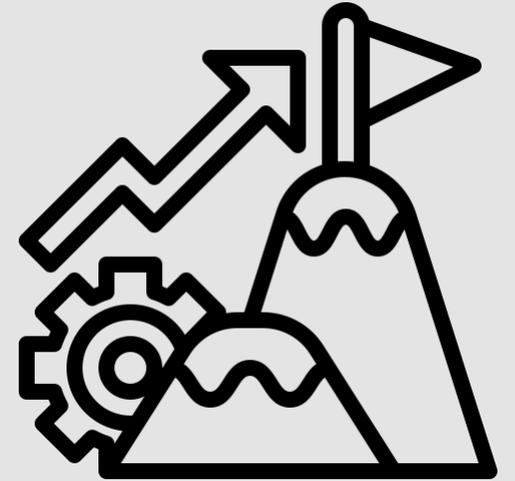
- **Data use:**

- Generate environmental information from PRTRs.
- Moving from pressures to environmental impacts of the PRTR data.
- Focus on Pollutants.



# Specific challenges: PRTR operation

- **Information building:**
  - Organisational structure and resources for operation.
  - Technical and background skills to deepen in the data.
  - Evaluating the impact of the PRTR.
- **Information diffusion:**
  - Escazú and socializing the data to the citizens.
  - Data visualization.
  - Territorial analysis.



# Planned future activities and good practices

- **Data capturing (good practices):**
  - Granularity.
  - Data scope and universe.
- **Escazu (planned activity):**
  - PRTR reporting.
  - Territorial component.



# Planned future activities and good practices

- **Collaborative work (planned activity):**
  - Transferring experiences to strengthen PRTRs regionally (November 2023).
  - Transferring knowledge with consolidated PRTR using their data for research purposes (May 2023).
  - Regional integration and follow-up of environmental commitments.
- **Central Node / Data warehousing (planned activity):**
  - Updating and improving the efficiency of analysis and reporting.
  - Aim at designing and implementing data visualisations.



