



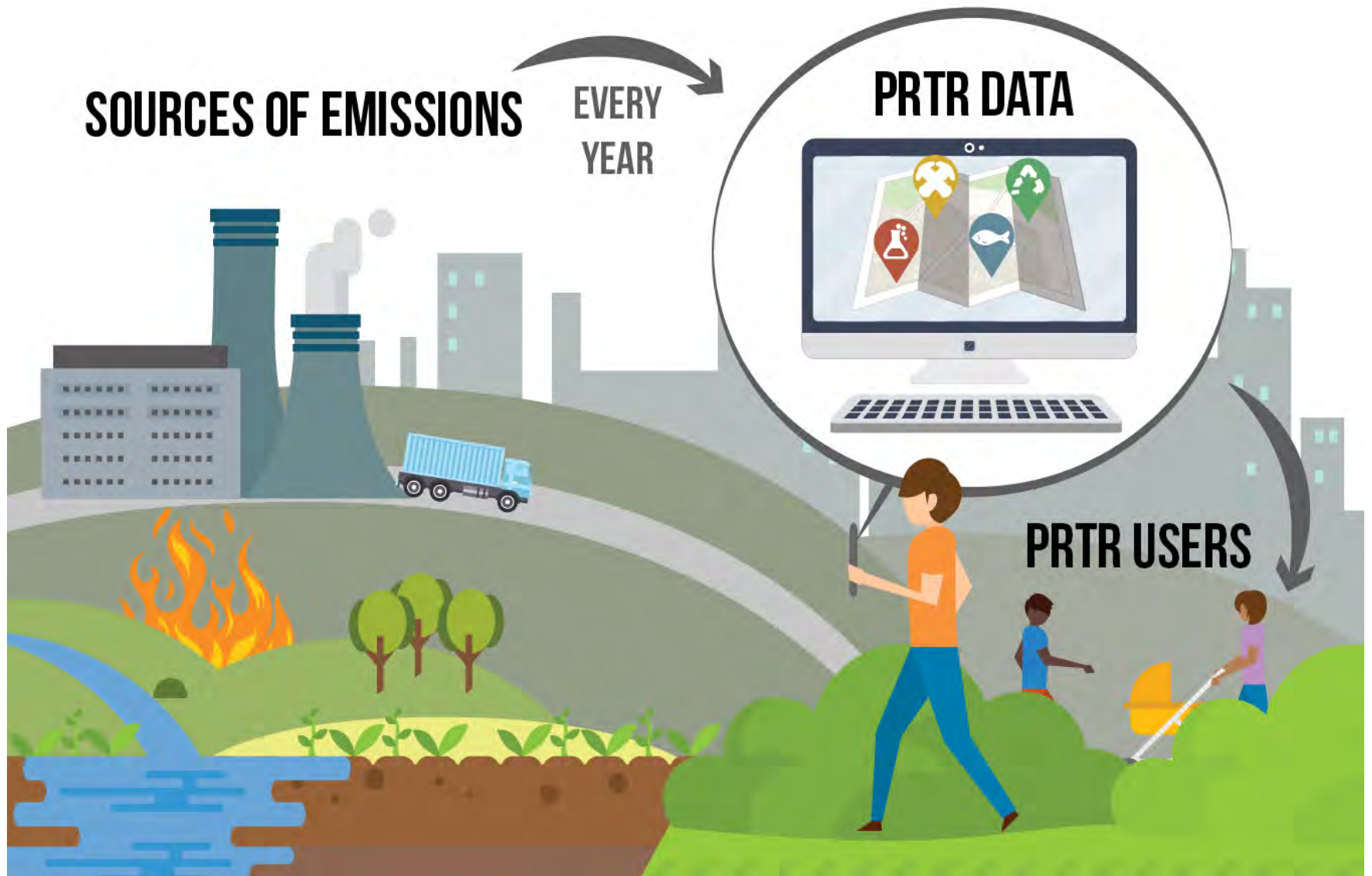
Pollutant Release and Transfer Registers

How PRTRs work

- 1) What is a PRTR?
- 2) Benefits of PRTRs
- 3) PRTRs at Global Level
- 4) UNITAR PRTRs Programme
- 5) Why a PRTR in countries
- 6) Conclusion

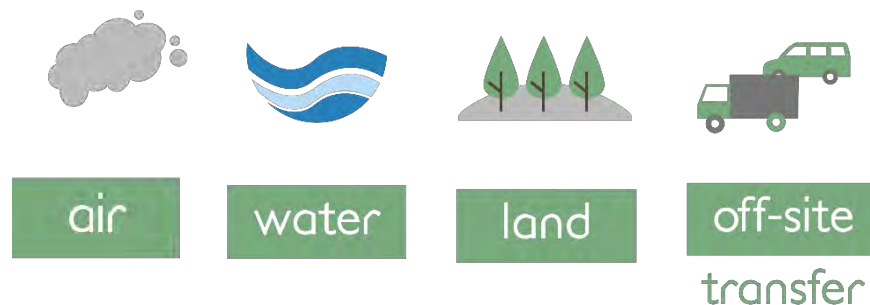


1) What is a PRTR?



Pollutants Release and Transfer Registers

Type of emissions



Sources of pollution



Online reporting



Information dissemination



From inventories on a single environment to PRTRs



Change from **command-control** policy to a **participatory process**.



Multimedia information brings a better picture of the **environmental status** and allows to take **informed decisions**



Tool for global environmental issues



National Reporting



Information dissemination

European Pollutant Release and Transfer Register

Home Search the register ▾ Diffuse emissions ▾ About E-PRTR

Search >>

Country

Region:
 Region River basin district

Year

Facility Name

Town/Village

Activity >
 Pollutant releases and transfers >
 Waste transfers >


Facility Details

Facility Exxonmobil Chemical Limited, Fawley Refinery
Address: Cadland Road , Hythe --, SO45 3NP, Southampton
Country United Kingdom
Year 2014 (published: 30 May 2016)
Regulation E-PRTR Regulation

Reporting Year

Facility level / Details Facility level / Pollutant releases Facility level / Pollutant transfers Facility level / Waste transfers

Facility level / Confidentiality



Facility Details
 Parent Company Name: Esso UK Limited
 Coordinates (Lon;Lat): (-1.35522°, 50.8364°)
 NUTS Region: Hampshire and Isle of Wight
 River Basin District: South East
 Main activity (NACE): 20.1 Manufacture of basic chemicals, fertilisers and nitrogen compounds, plastics and synthetic rubber in primary forms


IPPC Installations: 1
 Operating hours: 8760
 NationalID: EW_EA-1118 (in 2014)

Competent Authority (Last updated: 30 May 2016)
 Name: EA2033
 Address: Parkway Avenue Quadrant Two, S9 4WF, Sheffield
 Phone: +44 03708506506
 Fax: n/a
 E-mail: pollution.inventory@environmant-agency.gov.uk
 Contact Person: Matt Parkin

Industrial activities	IPPC-code
Main activity	
4. (a) Industrial scale production of basic organic chemicals	4.1

European Environment Agency

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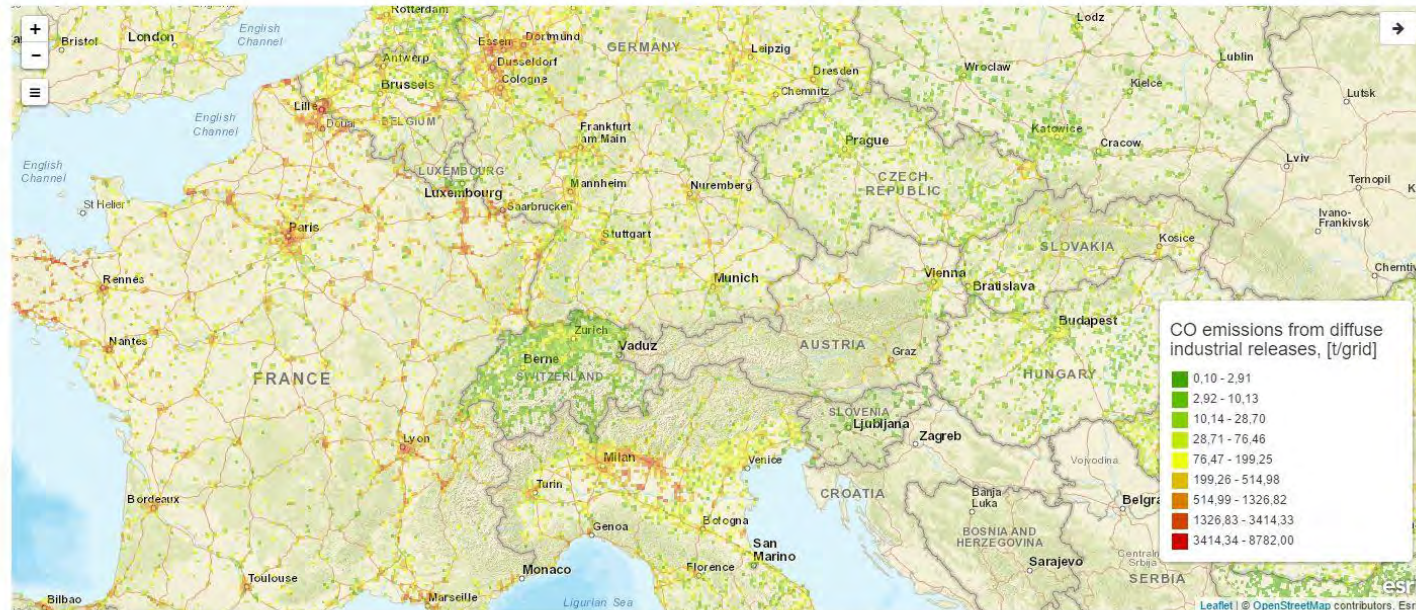
Search

Sector

Industrial releases

Available layers

- NOx emissions from diffuse industrial releases, t/grid
- SO₂ emissions from diffuse industrial releases, t/grid
- PM₁₀ emissions from diffuse industrial releases, t/grid
- CO emissions from diffuse industrial releases, t/grid
- CO₂ emissions from diffuse industrial releases, kt/grid



Carbon monoxide (CO) emissions from diffuse industrial releases emissions from diffuse industrial releases (in tonnes per grid cell)

[General Information](#) [Methodology](#) [Source Data](#)

Geographic Information System (GIS) overlay

Diffuse emissions of carbon monoxide (CO) to air from industrial releases have been distributed according to the reporting of the countries to the Convention on Long-Range Transport of Air Pollution (CLRTAP), and to the E-PRTR, using the location of the emission sources, employment statistics, and land use information. The emissions are allocated using GIS overlay techniques for distribution into grid cells with a spatial resolution of 5x5km². The dataset is then transformed into vector polygons and projected into the E-PRTR WGS84 standard projection.

National Air Emissions Source Monitoring Data

Search

Nationwide City/Locality

Filter

Enterprise Name	Pollutant	Average Hourly Value (mg/M3)	Star
陕西渭河发电有限...	Particulates	1530.15	1
河北金万泰化肥有...	NOx	3076.42	2
神木县同得利煤化...	Particulates	122.55	3
东方希望(三门峡...	Particulates	290.93	3
萍乡焦化有限责任...	SO2	448.18	3
广东粤华发电有限...	Particulates	176.37	3
陕西有色榆林新材...	SO2	2829.69	4
楚源高科技集团...	Particulates	639.92	1

1/590

Enterprises with this icon also have supervision records, click on the icon to view supervision record data

4717 Enterprises Monitored Nationwide

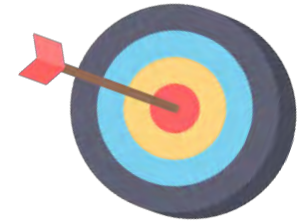
242 Enterprises Exceeding Standards

4475 Enterprises in Compliance

Annual National Environmental Data and Statistics
Data Source: Ministry of Environmental Protection, Provincial Municipal Environmental Protection Bureau Websites



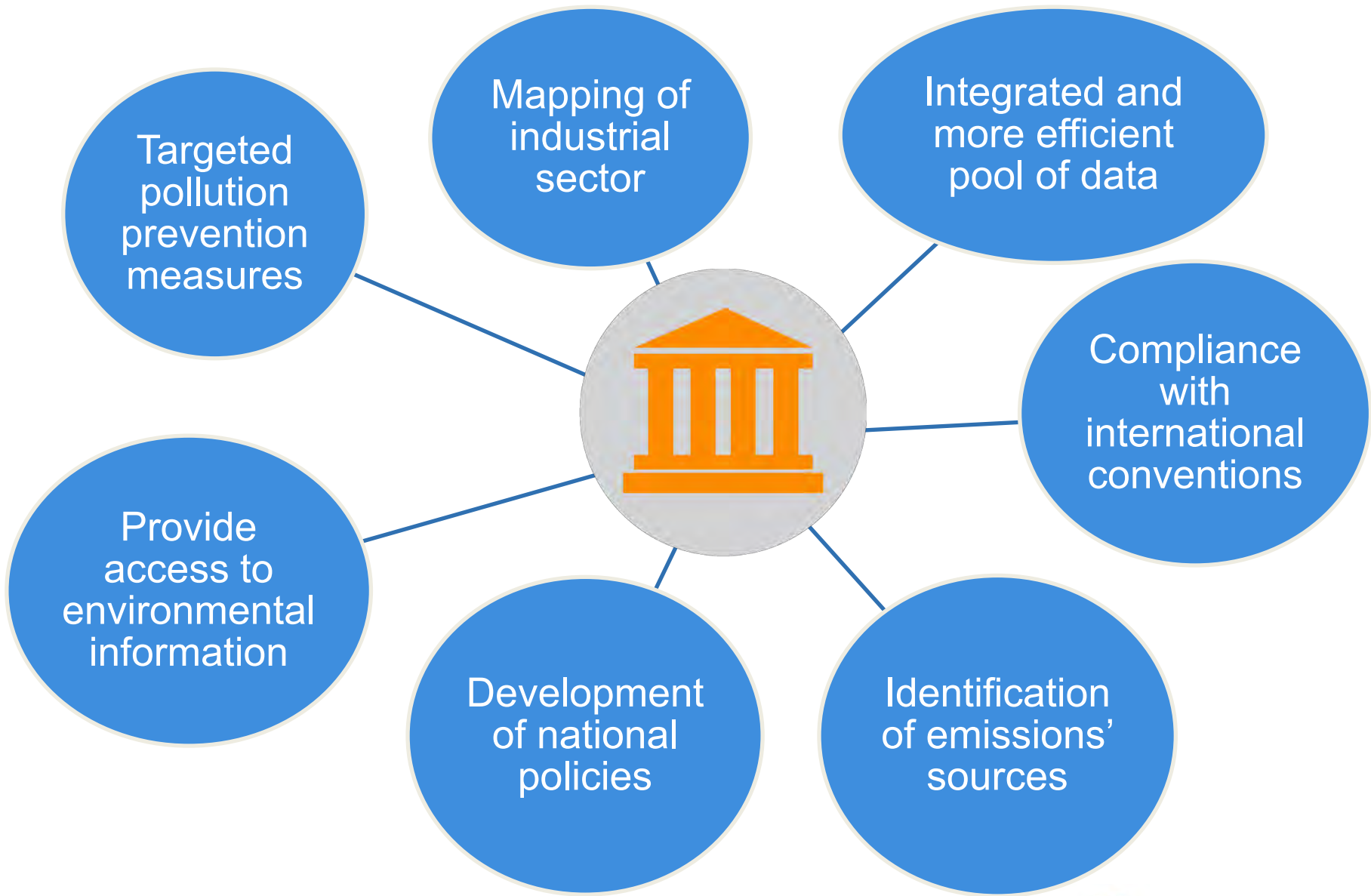
IPE Website

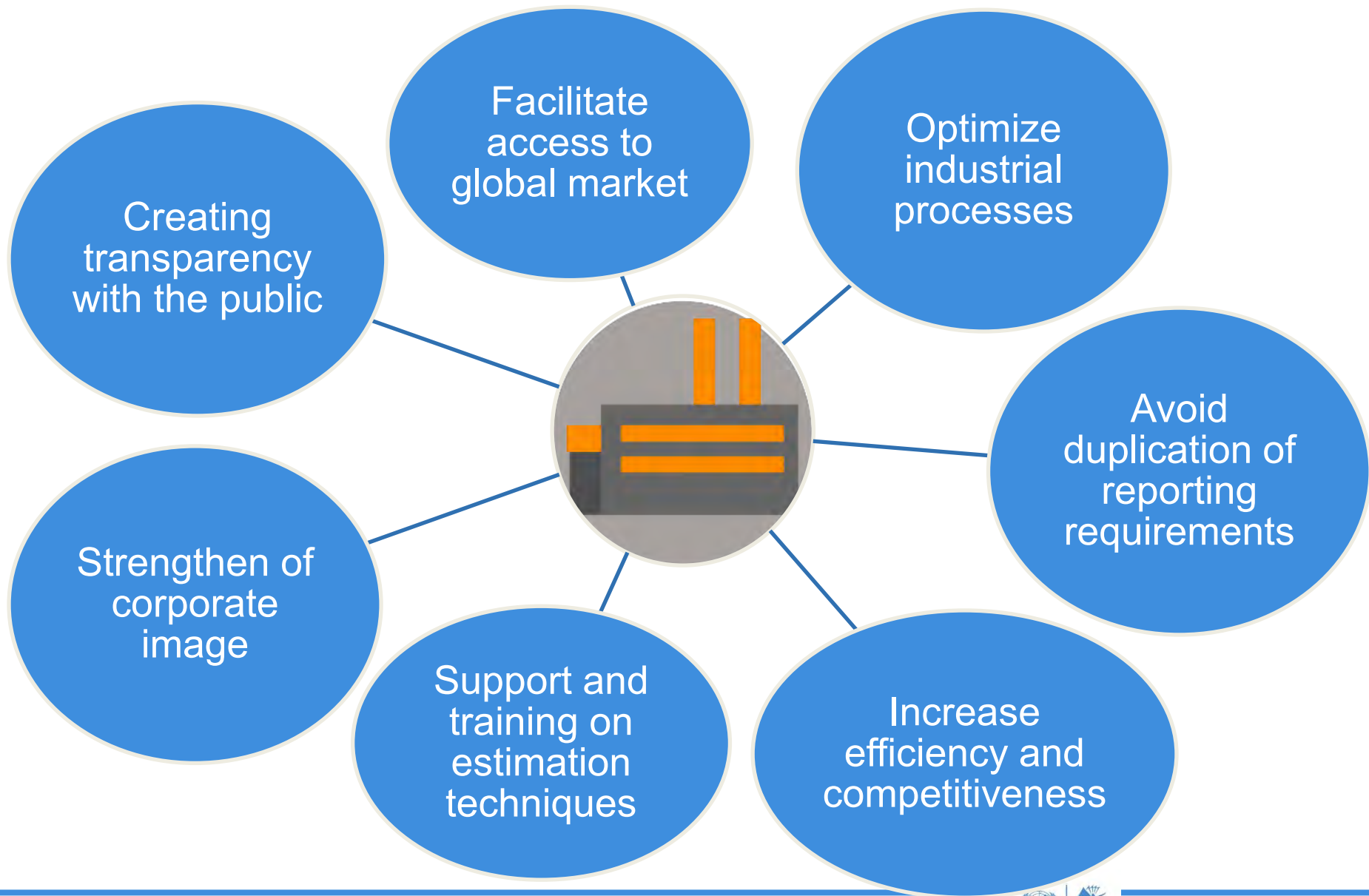


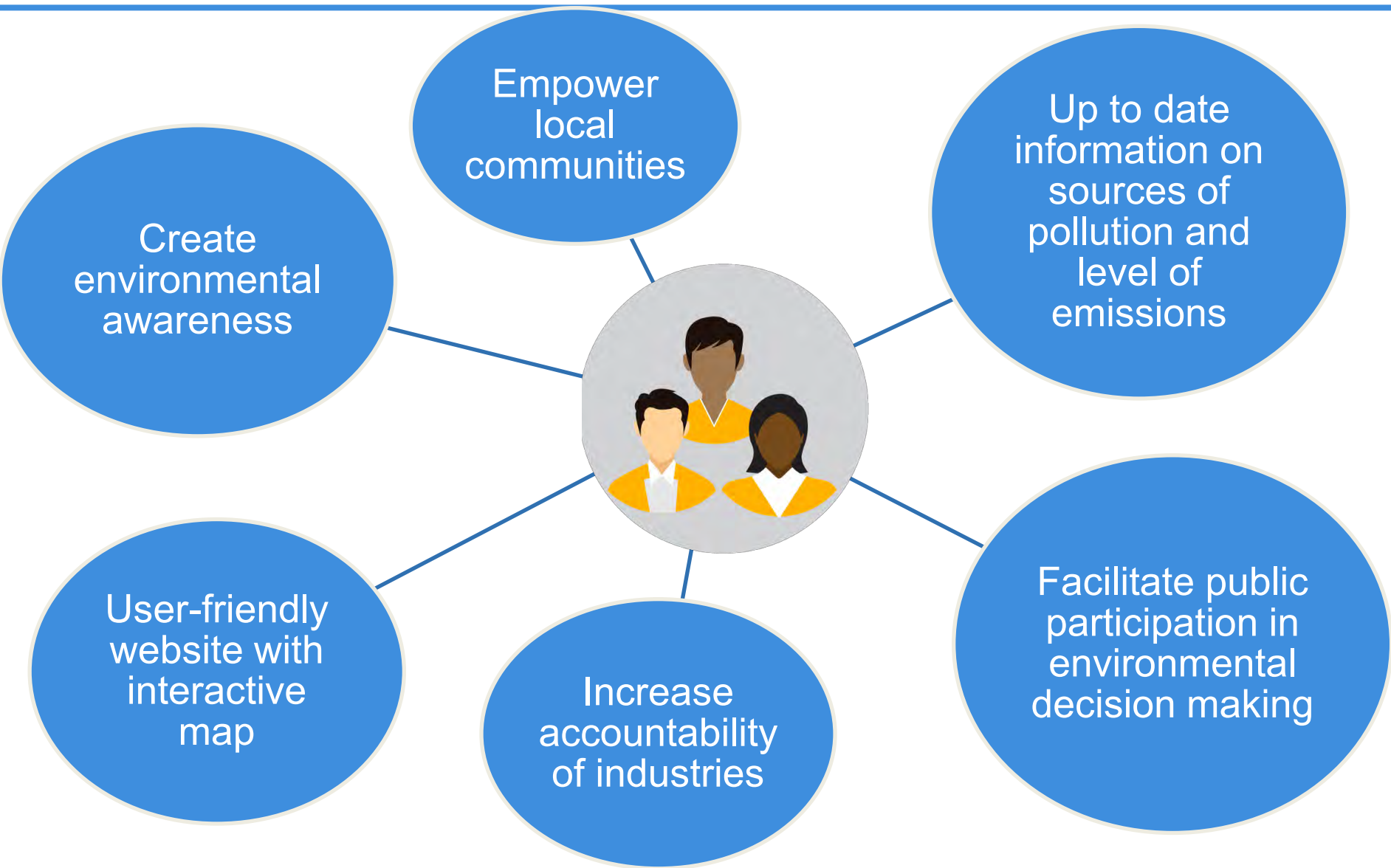
- Identification of hotspots of emissions
- Public access to environmental information
- Compliance with international standards
- Consistent information on national environmental emissions, use of chemicals and hazardous wastes
- Simplified online reporting system
- Improve transparency and sustainable production processes



2) Benefits of PRTRs







3) PRTRs at Global Level



Rio Declaration Principle 10

PRTRs facilitate and encourage public awareness and participation



Aarhus Convention

PRTRs advocate the right of everyone to receive environmental information



Kiev Protocol

The Protocol is the first legally binding international instrument on PRTRs

Stockholm Convention on POPs

Article 10 acknowledge PRTRs for the collection and dissemination of POPs releases



Minamata Convention on Mercury

Article 18 acknowledge PRTRs for the collection and dissemination of Mercury releases



United Nations Framework Convention on Climate Change

PRTRs can provide consistent data on GHGs emissions





Tracking annual trends of chemical releases into water



Providing information on chemicals released and impact on human health



Tracking progress on climate change mitigation



Enhancing greener technology and sustainable use of chemicals



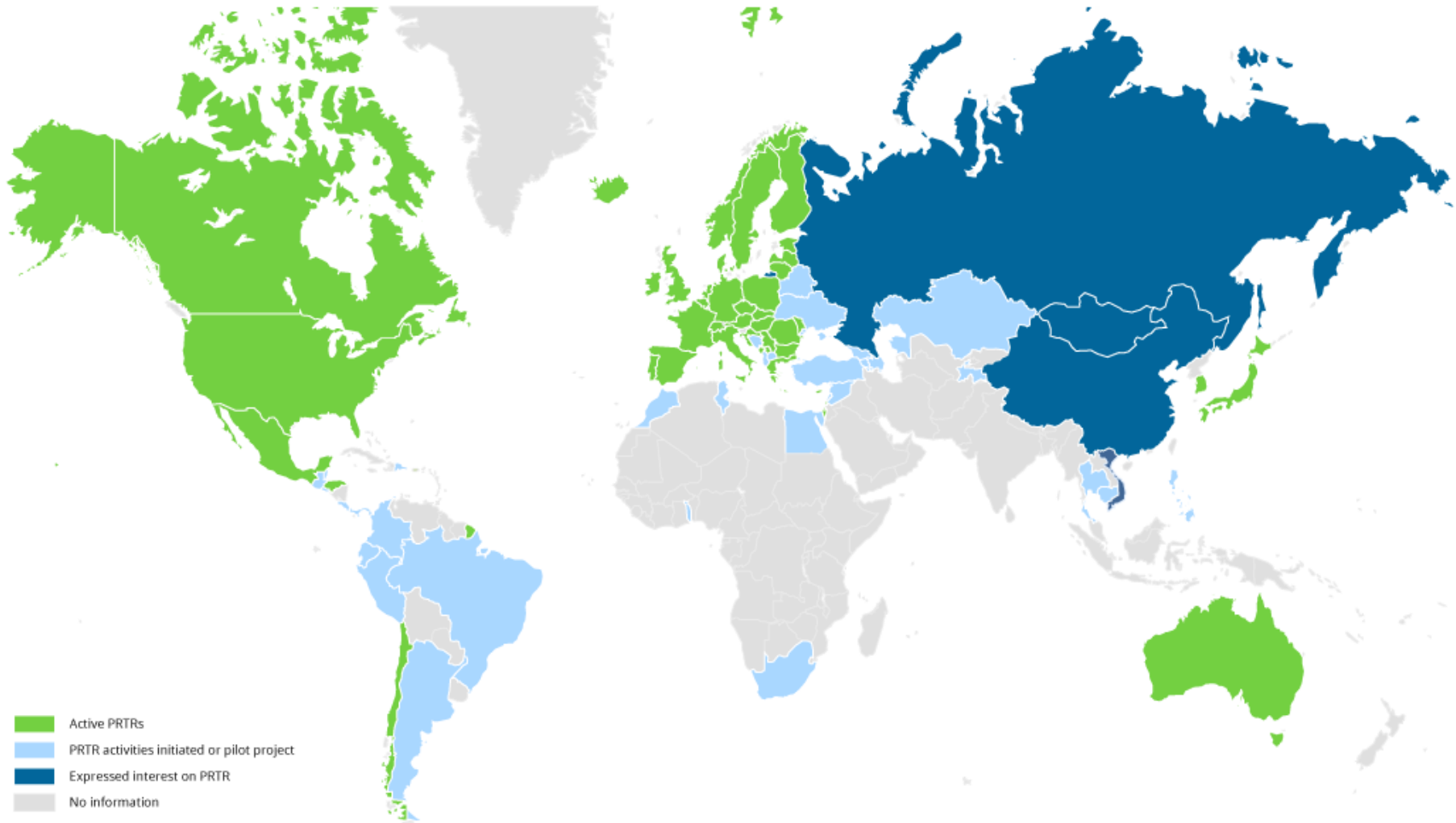
Ensuring transparency and access to environmental information



Contributing to improved environmental knowledge of future generations



Facilitating multi-stakeholder engagement



4) UNITAR PRTRs Programme



Identify the goals of the PRTR system



Assessment of the existing National infrastructure



Design of the key features of the National PRTR system



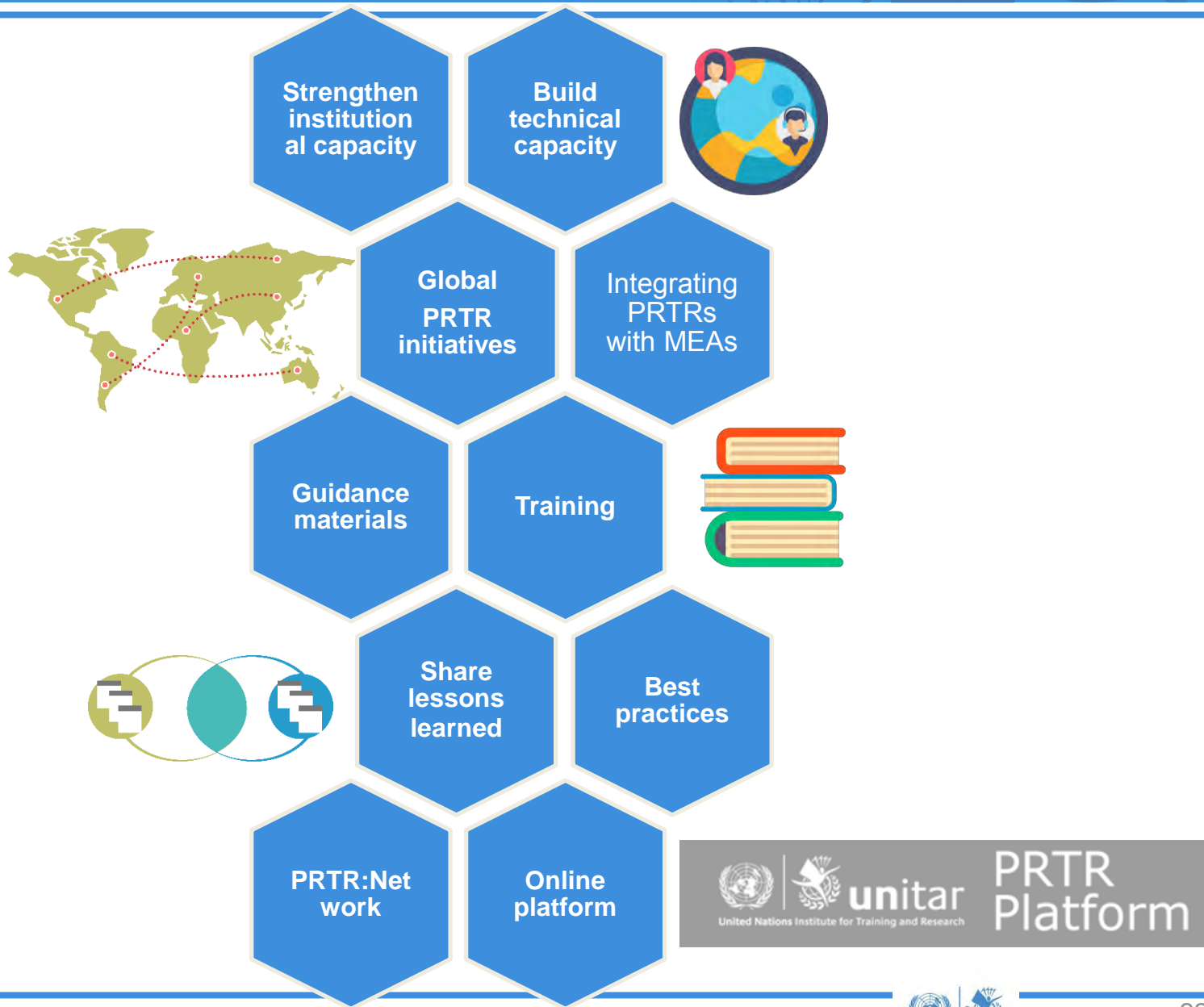
Conduct a PRTR reporting trial






Finalize the National PRTR proposal



Endorsement of the National PRTR proposal



 **PRTR Platform**  

Home Projects News Events Resources PRTR:Learn PRTR:Network Webinars About Us



Click on a country in green for more information.

About Pollutant Release and Transfer Register (PRTR)

The platform highlights the activities of the UNITAR Chemicals and Waste Management Programme in support of the implementation of Pollutant Release and Transfer Registers.

Here you can read more on PRTRs: background, ongoing projects, publications, events and guidance.

Mongolia

Strengthening Capacities for Implementation of a National PRTR and Supporting SAICM Implementation

Implementing agency: UNEP
Executing Agency: UNITAR
Status: Started
Contact Persons: Mr. Andrea Cararo (UNITAR); Ms. Sarantuya Jigjiddorj (National Coordinator)

PRTR:Learn

Video trainings on Pollutant Release and Transfer Registers

[▶ Start watching](#)





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Mongolia
Strengthening Capacities for Implementation of a National PRTR and Supporting SAICM Implementation

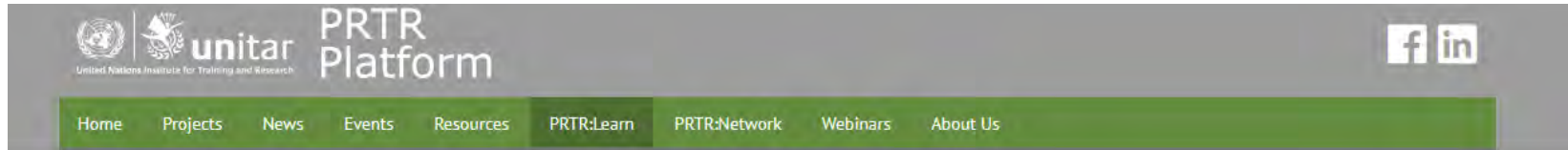
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PRTR:Learn

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▶ Start watching





| PRTR:Learn

Welcome to the UNITAR video trainings on Pollutant Release and Transfer Registers

Click on the icons and start learning →



Module 1 - Communication & Dissemination of Data



Module 2 - Legal Implementation



Module 3 - Release Estimation Techniques



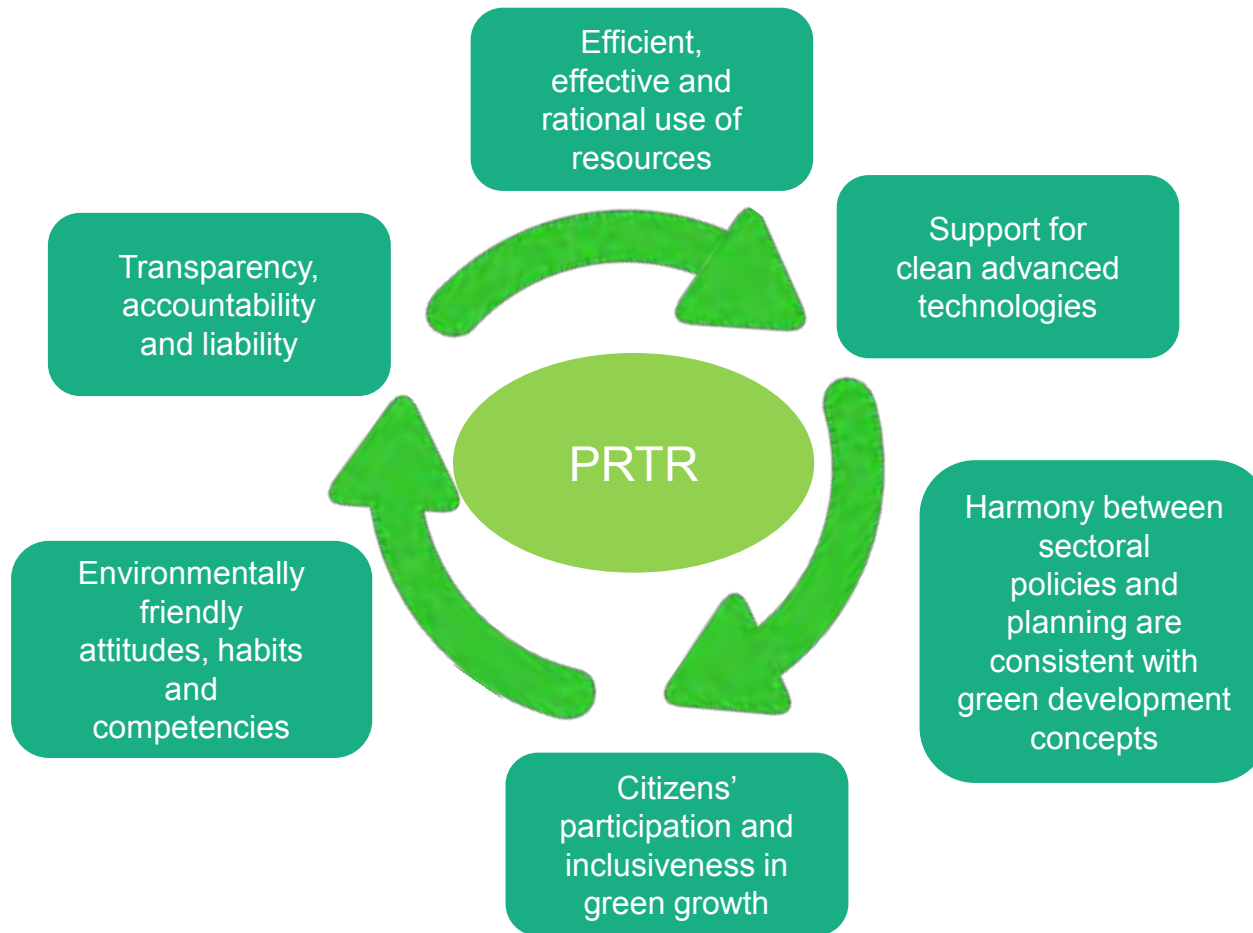
Ask the UNITAR PRTR team!

Live chat →



5) Why PRTR in Countries?

- ✓ Develop industrial mapping
- ✓ Establish a single environmental data pool and improve information quality
- ✓ Provide conditions to monitor and reduce air, water and soil pollution
- ✓ Support the access of national companies to international markets
- ✓ Raise public awareness on environmental issues
- ✓ Provide public with easy accessible information on environmental emissions



6) Conclusion

- ✓ PRTRs are systems that provide users with information on annual emissions of pollutants
- ✓ The sources of pollution are identified on an interactive map
- ✓ PRTRs reports are publicly available (online)
- ✓ Benefits for all key national stakeholders
- ✓ PRTRs should be integrated with existing national initiatives on pollution control and monitoring
- ✓ PRTRs reports submitted directly by the sources of pollution, usually give 80% of total national emissions

Thank you!



Jorge Ocaña

Chemicals and Waste Management Programme Unit
Division for Planet

United Nations Institute for Training and Research

Tel: +41 22 917 8166

Skype: jocanacorrea

Email: jorge.ocana@unitar.org

United Nations Institute for Training and Research
Institut des Nations Unies pour la formation et la recherche
Instituto de las Naciones Unidas para Formación Profesional e Investigaciones
Учебный и научно-исследовательский институт
Организации Объединенных Наций
معهد الأمم المتحدة للتدريب والبحث
联合国训练研究所

Palais des Nations, CH-1211
Geneva 10, Switzerland
T +41 22 917 8400
F +41 22 917 8047
www.unitar.org

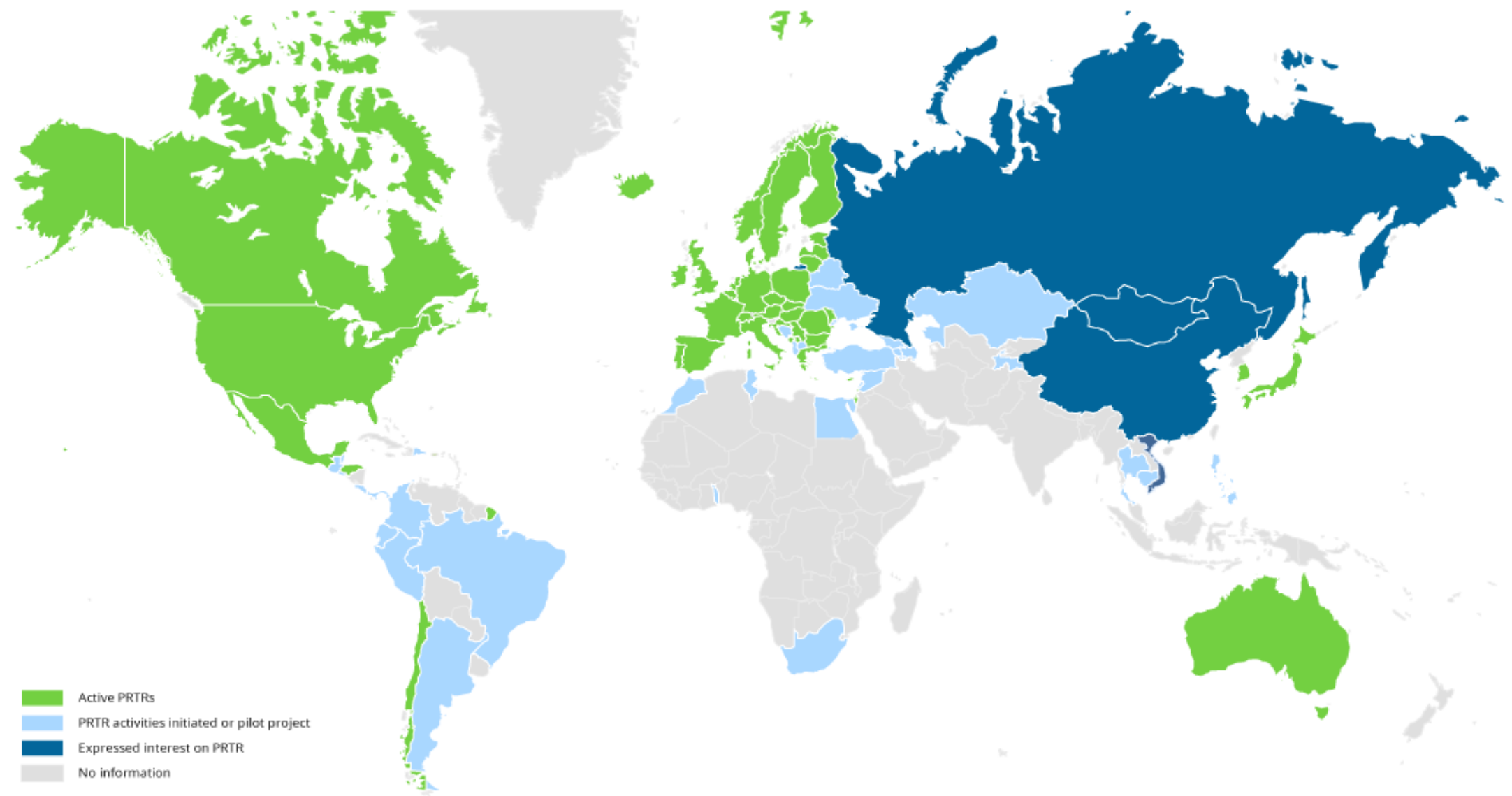
IMPLEMENTING PRTRs

Needs and challenges for capacity building





PRTRs IMPLEMENTATION



- Active PRTRs
- PRTR activities initiated or pilot project
- Expressed interest on PRTR
- No information



Synergies and drivers:

- Latin America: Escazú Agreement (24 signatures, 12 ratifications); OECD membership; MEAs reporting.
- Africa: only few countries have conducted PRTR-related activities; MEAs reporting.
- Central East Asia: ratification of the PRTR Protocol (Kazakhstan ratified in December 2019); MEAs reporting.



PRTRs IMPLEMENTATION



National PRTR proposal



Develop PRTR draft legislation



Design a training and capacity building programme



Reinforce broader participation



Enhance reporting mechanism/ pilot test



Develop and publish first PRTR report



CAPACITY BUILDING

- UNITAR methodology
- Political endorsement of PRTR proposal
- Integration with national databases
- Trainings (government, industry, civil society)
- Develop guidance materials
- Awareness raising and outreach
- Share lessons learned and best practices
- Study tours



- International guidelines
(updated version 2020)
- Factsheets
- Videos
- IOMC Toolbox
- Network of international experts
- E-learning

| PRTR:Learn

Welcome to the UNITAR video trainings on Pollutant Release and Transfer Registers



Module 1 - Communication & Dissemination of Data



Module 2 - Legal Implementation



Module 3 - Release Estimation Techniques



Module 4 - Data Standardisation



Module 5 - Online Reporting Systems

IMPLEMENTING A NATIONAL POLLUTANT RELEASE AND TRANSFER REGISTER DESIGN PROJECT

2018 | Guidance Document

Pilot Reporting ?

a PRTR pilot reporting is to test the PRTR system on a limited scale experience with and assure the quality of the national PRTR system that is undertaken to test and refine the preliminary design of the initial specifications have been developed by the National Coordinator test the reporting system and data collection procedures. This guide is that are implementing a PRTR pilot reporting after the preliminary stages of the PRTR system have been developed under Stage 3: De-national PRTR System.

ring trial should be documented. The results are valuable input for the of the PRTR system and can help predict the level of human, organ- gances that will be required to operate the system on a national scale. In during the reporting trial provides an opportunity to test the quality of of PRTR data for a range of intended end uses.

tested through a PRTR pilot reporting include the following:

- balancing
- The reporting formats and data collection process
- The PRTR software, data flow, data validation and database infrastructure



IOMC TOOLBOX
For decision making in chemicals management

Resources available: Limited Medium High

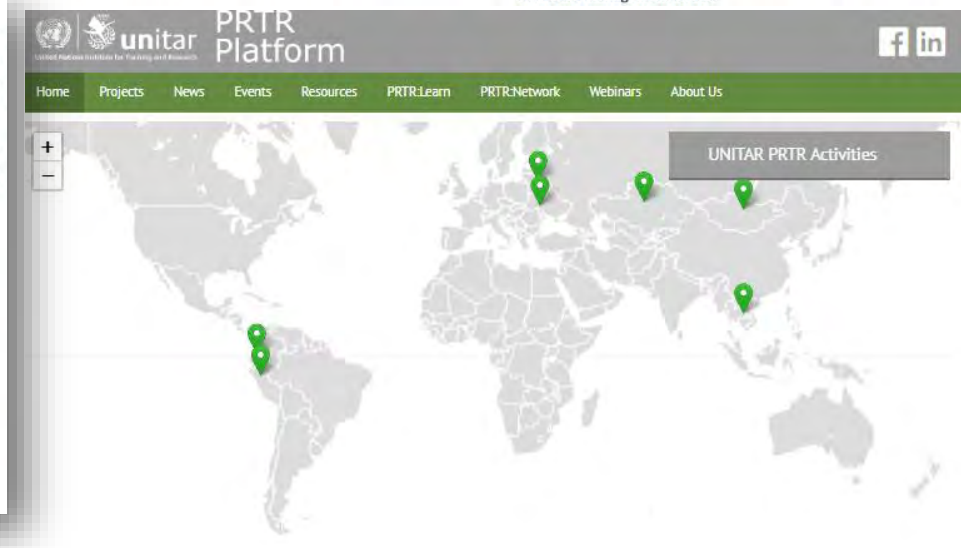
Management scheme: Select a management scheme

Search or select an element: Search Advanced search

About IOMC Toolbox

The IOMC Internet-based Toolbox for Decision Making in Chemicals Management (IOMC Toolbox) is aimed at countries who wish to address specific national issues regarding chemicals management.

The toolbox identifies the available IOMC resources that will help the country address the identified national problem(s) or objectives. Special focus is given to identifying simple cost effective solutions to national chemicals management issues.



unitar PRTR Platform

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UNITAR PRTR Activities

THANK YOU !

Chemicals and Waste Management Programme
United Nations Institute for Training and Research

Palais des Nations
1211 Geneva 10

Mr. Jorge Ocaña
Manager, CWM

Tel: +41 22 917 8166
Skype: jocanacorrea
Email: jorge.ocana@unitar.org

