



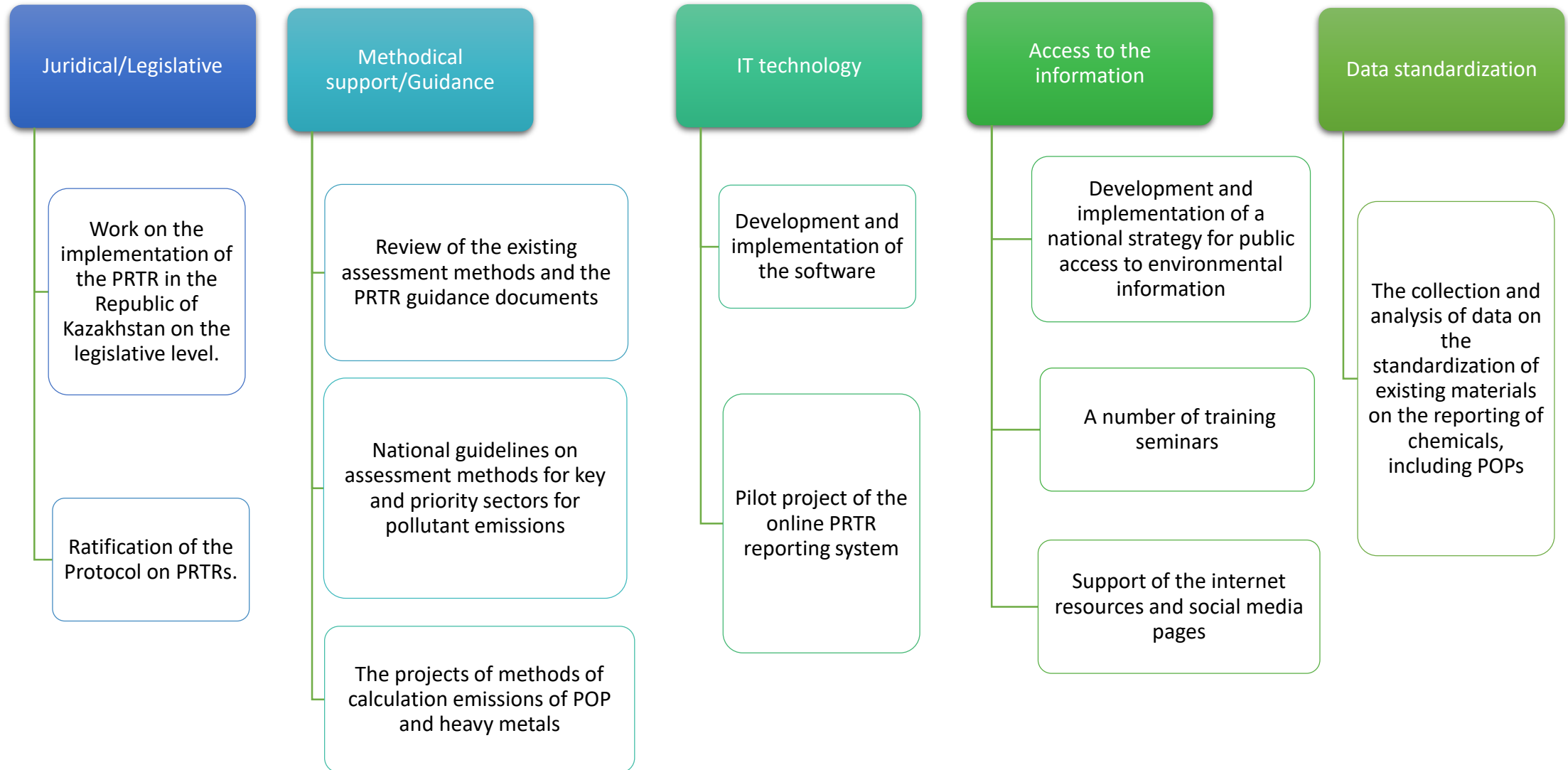
RESULTS **of the PRTR project in the** **Republic of Kazakhstan**



RSE on REM "Information and Analytical Center for Environmental Protection"

Ministry of Energy of the Republic of Kazakhstan

Objectives and guidelines/main directions of the project implementation



The following work was carried out at the legislative level in the Republic of Kazakhstan:

1

A separate article (No. 491-V) on the creation of the Governmental Pollutant Release and Transfer Register has been included to the Environmental Code on April 8, 2016

2

The Rules for maintaining the National Pollutant Release and Transfer Register are approved (Order of the Minister of June 10, 2016 No. 241))

3

The Protocol on PRTRs is included in the current plan for concluding international treaties of the Republic of Kazakhstan for 2019 of the Ministry of Foreign Affairs of the Republic of Kazakhstan

4

The legislative proposal on the ratification of the PRTR Protocol has been developed. Work is underway to agree on it.

Methodical support for the implementation of the PRTR



Review of the existing assessment methods and PRTR guidance documents



Recommendations for the updating /modifying the list of chemicals to be reported

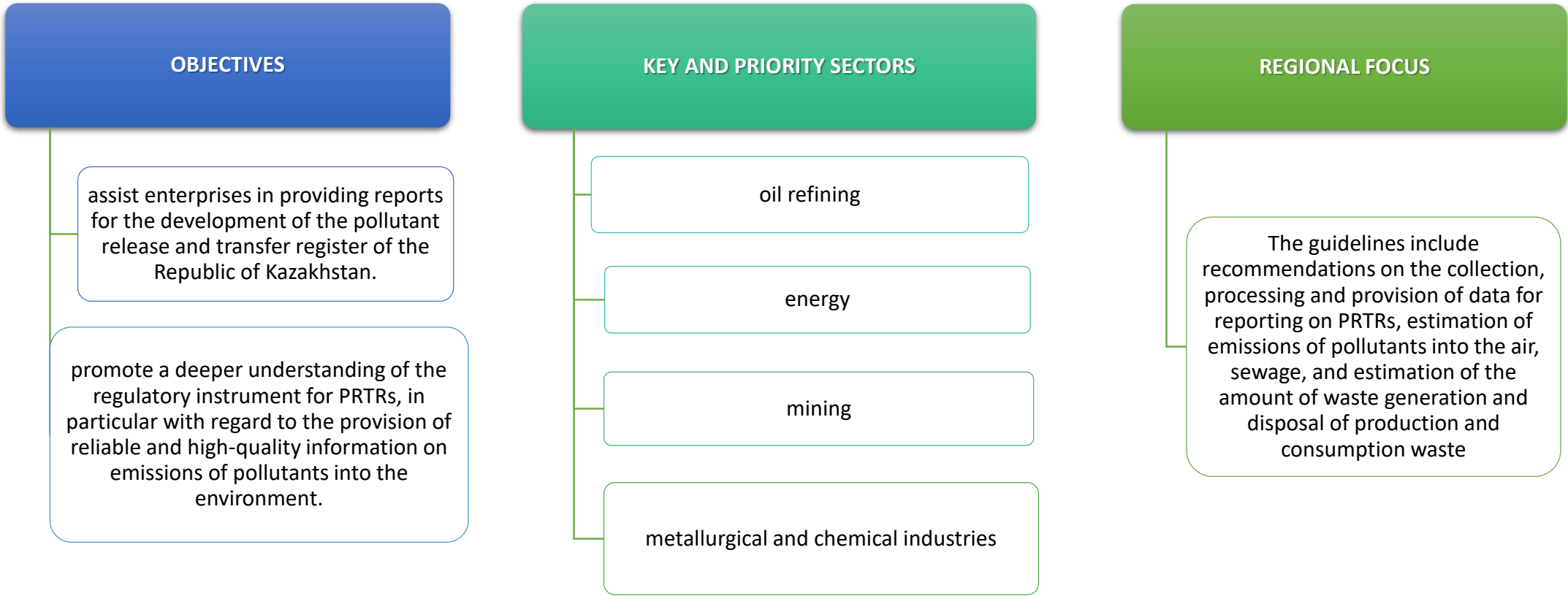


National guidelines on assessment methods for key and priority sectors for pollutant emissions



The projects of methods for calculating emissions of POP and heavy metals

National guidelines on the assessment methods for key and priority sectors



Moreover, each Guideline includes the UNEP methodology for estimation (determination) PCDD/PCDF in atmospheric air, wastewater, soil and waste

Development and implementation of the software

IT - technology



PRTRs portal prtr.kz

STRUCTURE



Applications server

- portal core
- main subsystems



Database server

- main data storage
- DB management system



User account

- interaction tool
- Thin client

OBJECTIVES



Informational support on the state of the environment with well-timed and reliable data



Accounting for information on the MPC of pollutants, their impact on health and the environment, information on pollutant release and transfer



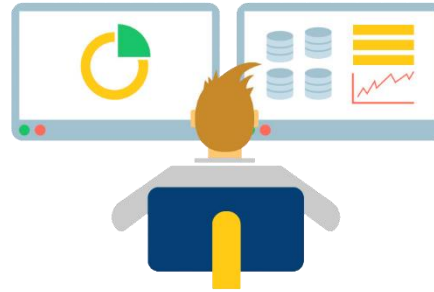
Operational access to the information resources, automated generation of statistical reporting

FUNCTION/PURPOSE

Automation of PRTR management functions

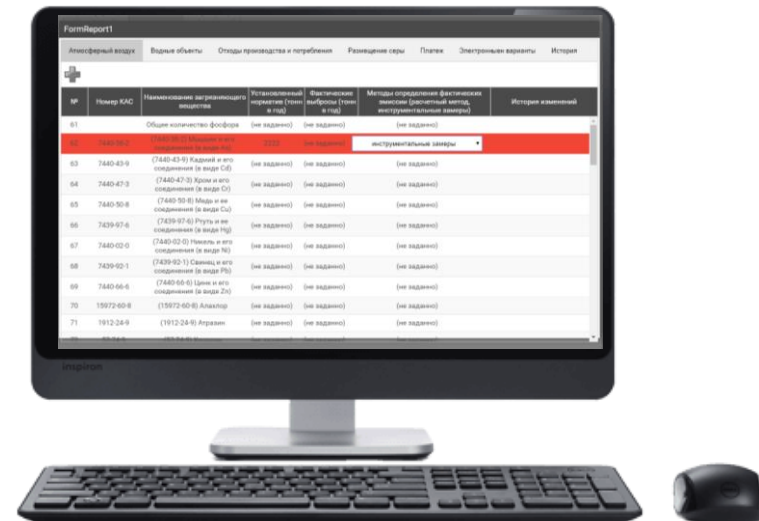
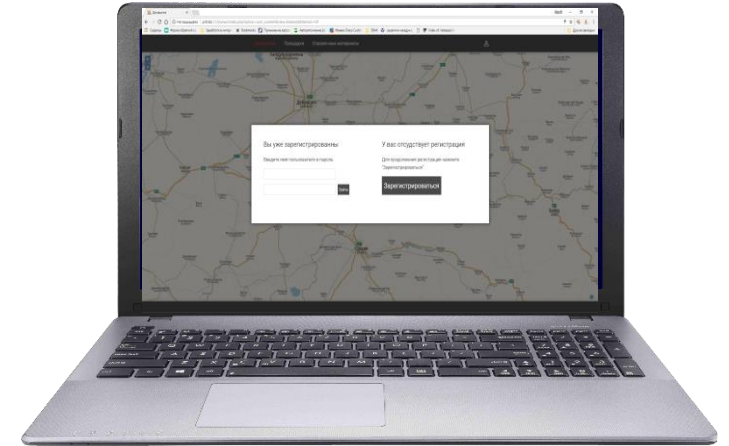
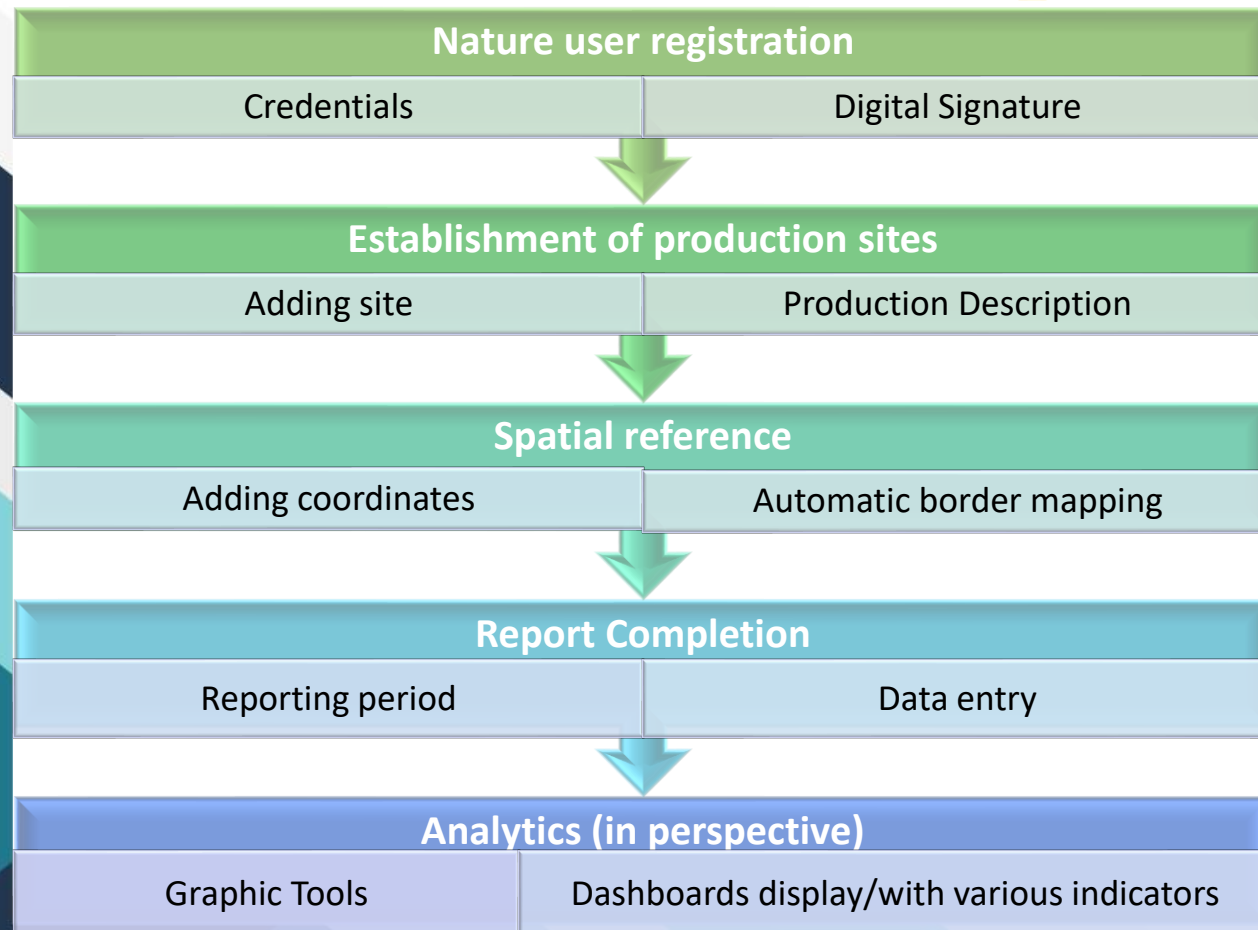
Pilot project of the ONLINE PRTR reporting system

IT - technology



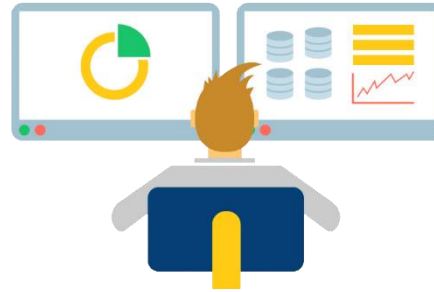
PRTR portal prtr.kz

Flow of information

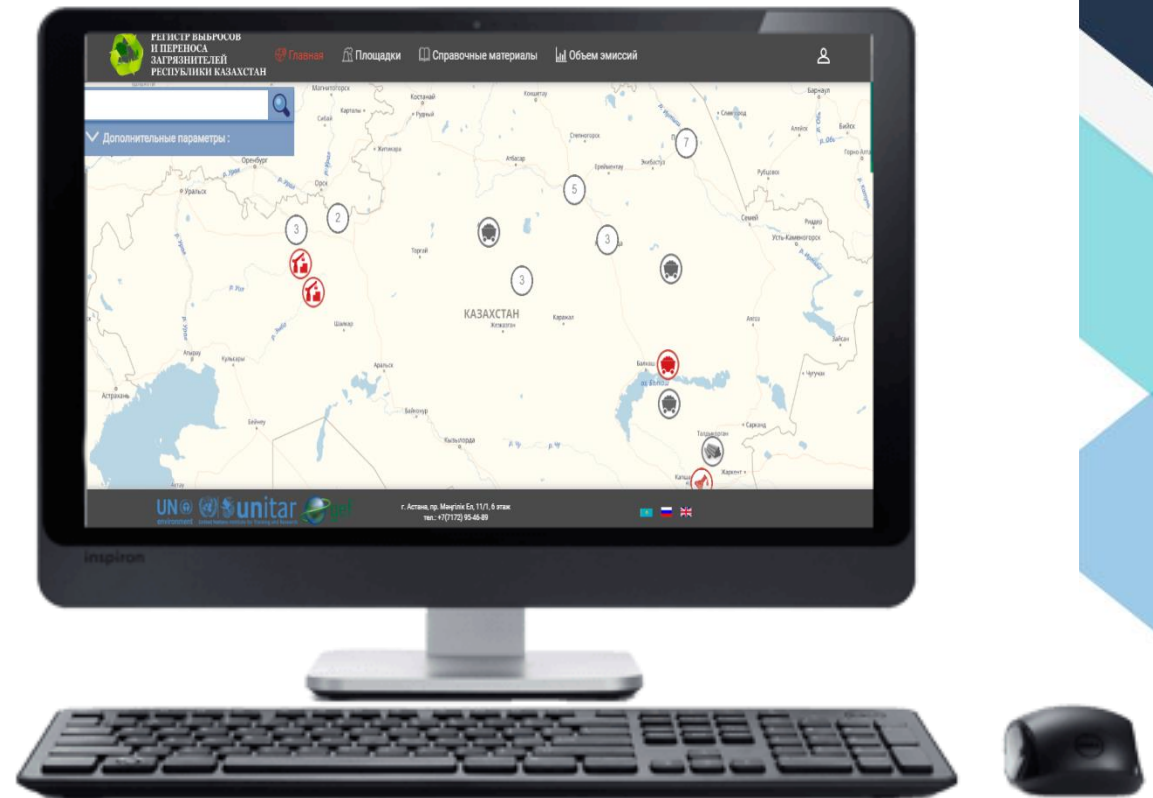
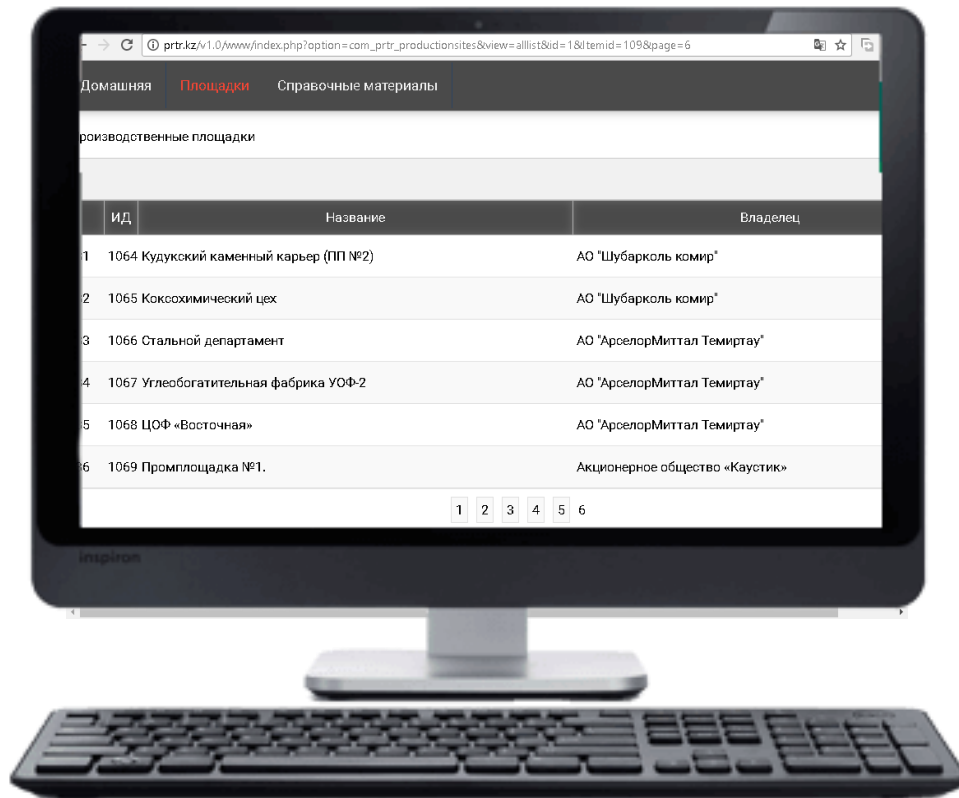


Pilot project of the ONLINE PRTR reporting system

IT - technology

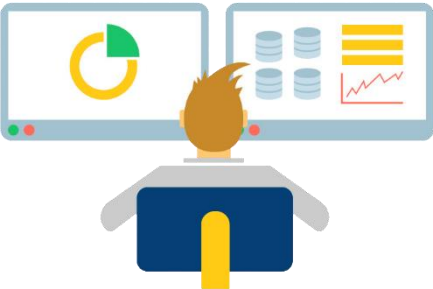


PRTR portal prtr.kz

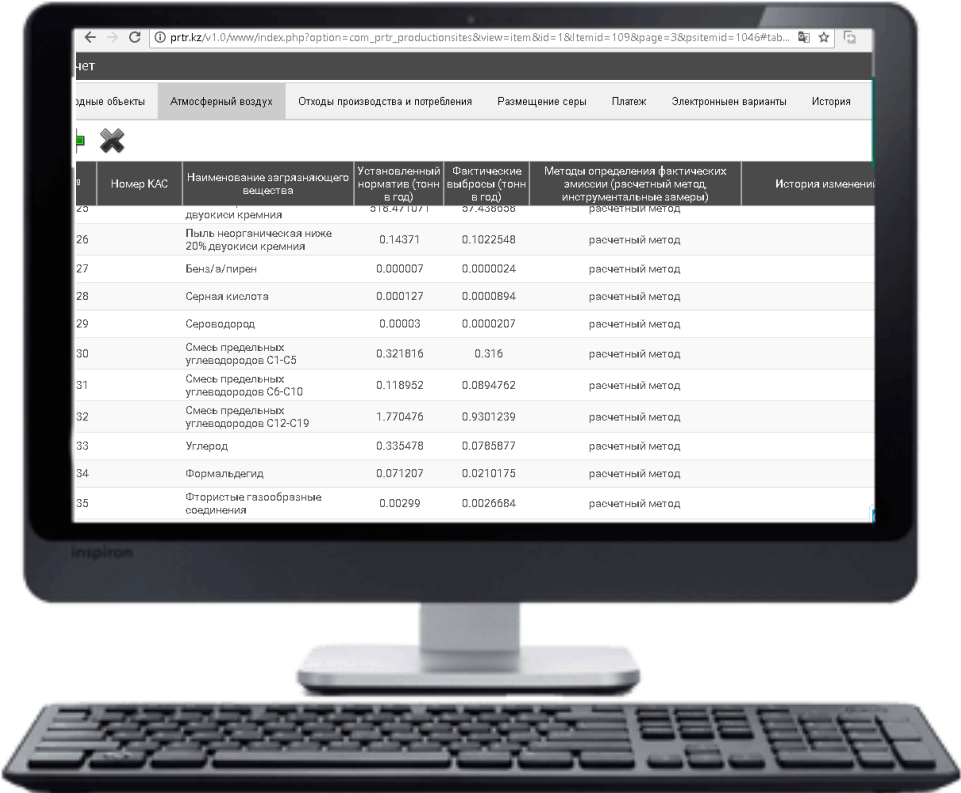
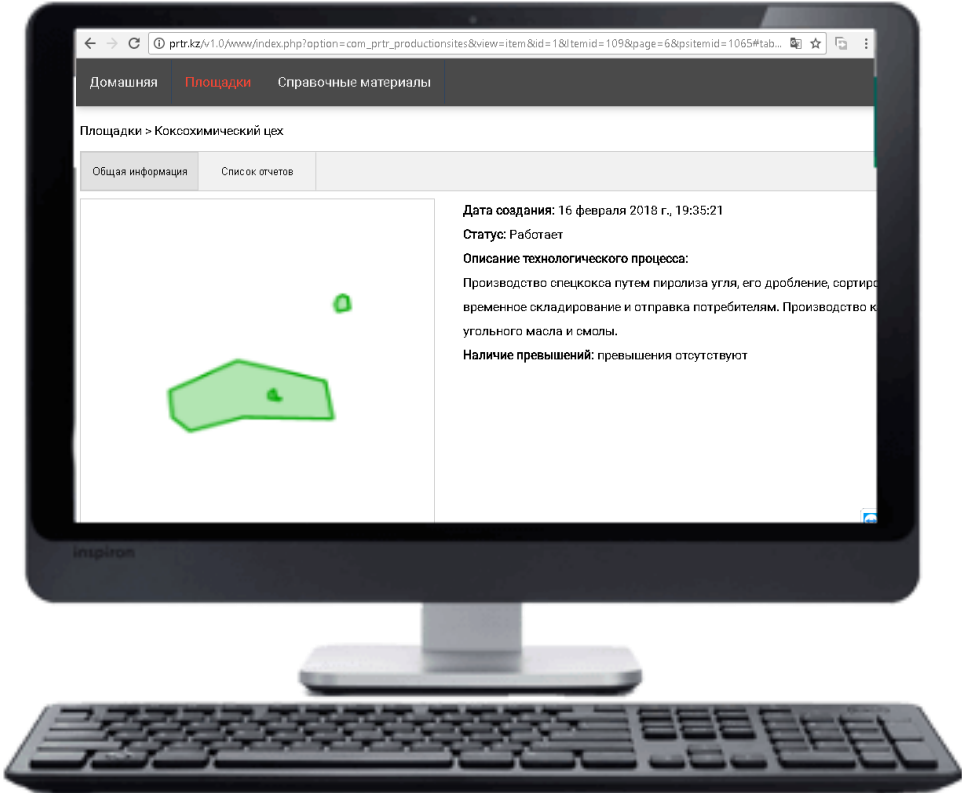


Pilot project of the ONLINE PRTR reporting system

IT - technology



PRTR portal prtr.kz



Pilot project of the ONLINE PRTR reporting system's data

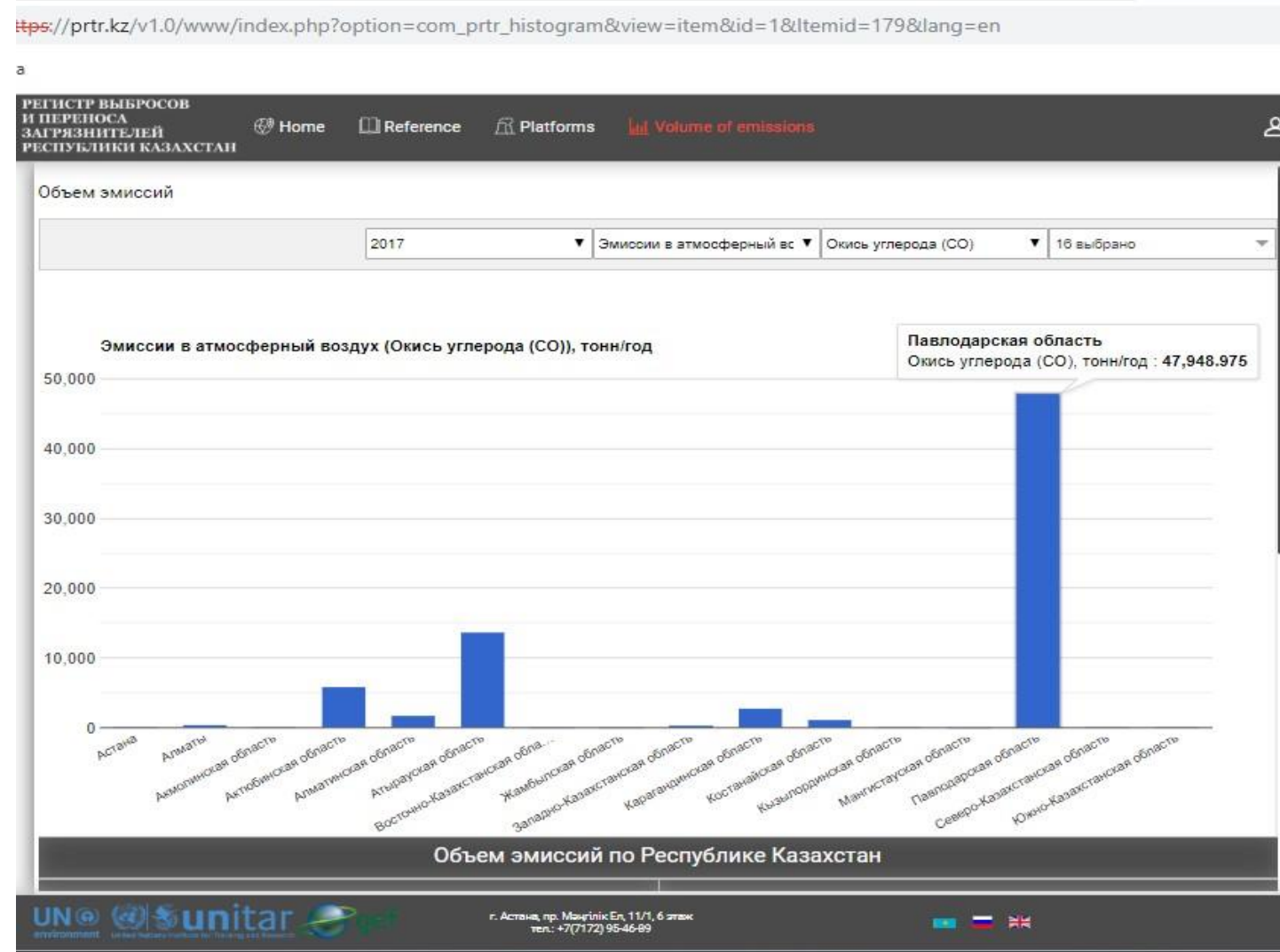
Number of enterprises - more than 100

Sectors of economy:

- Chemical industry
- Energy
- Metallurgy
- Mining industry
- Construction industry
- Light industry
- Agriculture

Reporting was provided on the following chemical compounds:

- Carbon monoxide
- Nitrous oxide
- Nitrogen oxides
- Sulfur oxides
- Mercury and its compounds
- Lead and its compounds
- Zinc and its compounds
- Fluorine and inorganic compounds
- Particulate matter



Results of Pilot project of the ONLINE PRTR reporting system

Development of the main functionality of the PRTR web portal has been completed

Implemented functions has been tested and modified

The web portal was filled with PRTR data and reference information, including data analysis.

Design documentation has been developed (User Guide, Administrator Guide, etc.).

https://prtr.kz/v1.0/www/index.php?option=com_prtr_histogram&view=item&id=1&Itemid=179&lang=en

Пошта

РЕГИСТР ВЫБРОСОВ И ПЕРЕНОСА ЗАГРЯЗНИТЕЛЕЙ РЕСПУБЛИКИ КАЗАХСТАН

Home Reference Platforms Volume of emissions

Восточно-Казахстанская, Западно-Казахстанская, Карагандинская, Павлодарская, Северо-Казахстанская, Южно-Казахстанская

Объем эмиссий по Республике Казахстан

Эмиссии в атмосферный воздух			Эмиссии в водные объекты		
№ п/п	Наименование	Концентрация тонн/год	№ п/п	Наименование	Концентрация тонн/год
1	Оксись углерода (CO)	74 176,735	1	Общее количество азота	1 205,85
2	Диоксид углерода (CO2)	9 685 755,874	2	Общее количество фосфора	2 729,149
3	Закись азота (N2O)	3 123,213	3	Мышьяк и его соединения (в виде As)	5,013
4	Оксиды азота (NOx/NO2)	28 889,576	4	Кадмий и его соединения (в виде Cd)	5,109
5	Оксиды серы (SOx/SO2)	66 965,222	5	Хром и его соединения (в виде Cr)	21,453
6	Ртуть и ее соединения (в виде Hg)	1,803	6	Медь и ее соединения (в виде Cu)	1 105,663
7	Никель и его соединения (в виде Ni)	0	7	Ртуть и ее соединения (в виде Hg)	0,001
8	Свинец и его соединения (в виде Pb)	0,369	8	Свинец и его соединения (в виде Pb)	0,618
9	Цинк и его соединения (в виде Zn)	8,309	9	Цинк и его соединения (в виде Zn)	1,651
10	Фтор и неорганические соединения (в виде HF)	120,509	10	Хлориды (в виде общего Cl)	46 371,674
11	Твердые частицы ТЧ10	16 477,987	11	Фториды (в виде общего F)	0

UNEP unitar

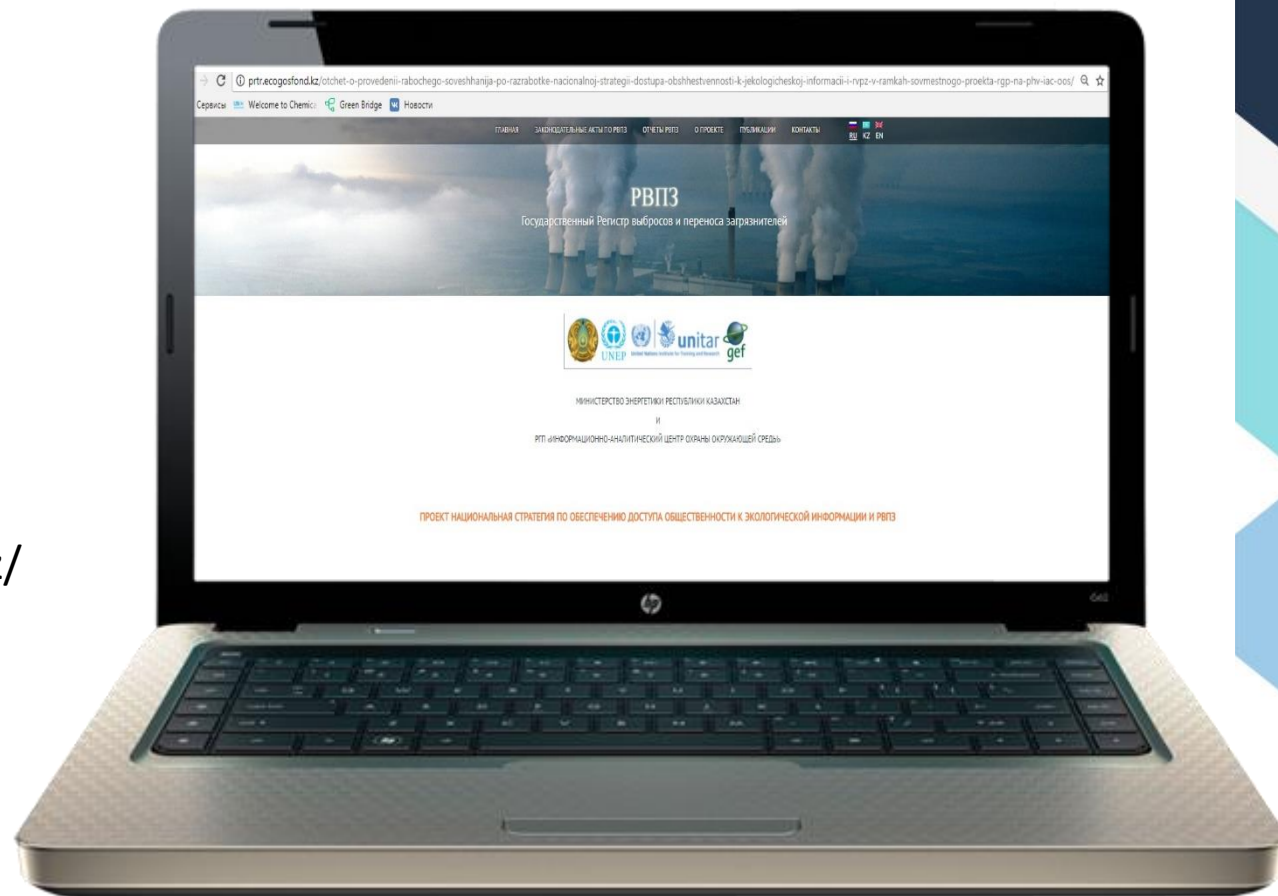
г. Астана, пр. Магистраль, 11/1, 6 этаж
тел.: +7(7172) 95-46-89

The National Strategy for public access to environmental information and dissemination of PRTR data

OBJECTIVE

Conduct an effective PRTR awareness campaign using modern and relevant tools of disseminating environmental information, including PRTR data received from companies.

- Published on the website <http://prtr.ecogofond.kz/>
- Agreed with the Project Management Committee
- Approved by UNITAR



As part of the Strategy

Created pages on social networks:



<https://www.facebook.com/prtr2016/?fref=ts>

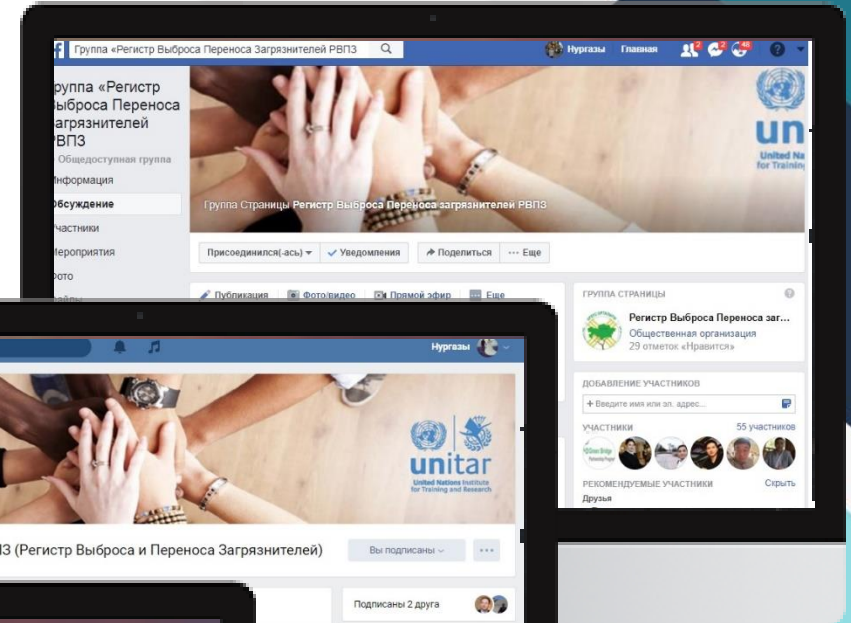


<https://vk.com/public149303961>



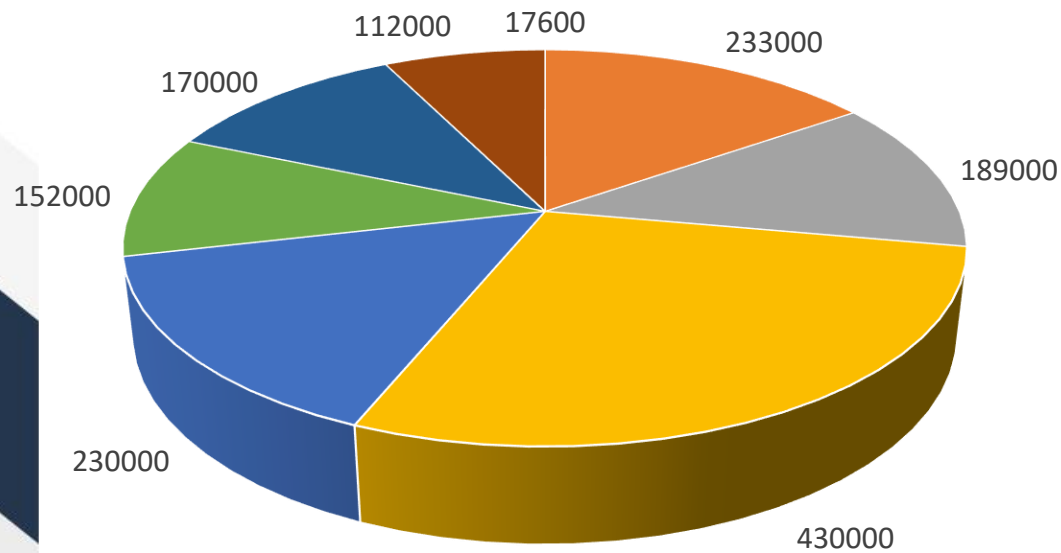
<https://twitter.com/Prtr2016?lang=ru>

Materials are published in the Kazakh, Russian and English languages (press releases, news, photos).



Informing the public through the official websites of local executive authorities (placing banners) and print media

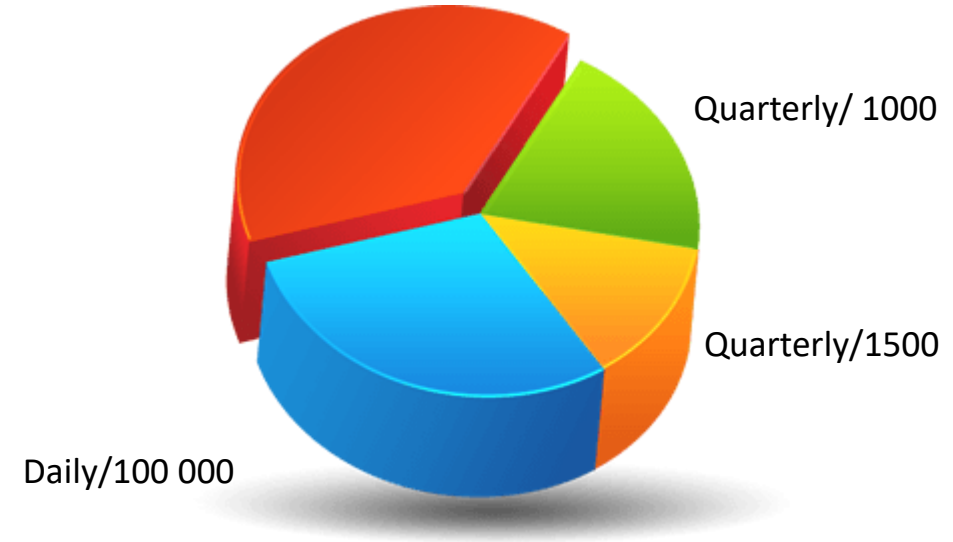
Site visitors/year



- Karaganda region executive authority
- Pavlodar region executive authority
- East Kazakhstan region executive authority
- Kostanay region executive authority
- Mangystau region executive authority
- Atyrau region executive authority
- Kyzylorda region executive authority
- West Kazakhstan region executive authority

5 times a week/ 206 000

newspapers



- «Yegemen Kazakhstan»
- «Kazakhstanskaya Pravda»
- «Ecologiya Kazakhstana»
- «Ekologiya i promyshlennost Kazakhstana» (published by Kazakhstan Nature Users Association for sustainable development)

Activities under the Strategy for the 2018-2019 year



The National Project Coordinator took part in the broadcast of the Atameken business channel's program named "Exclusive" where he gave a detailed interview on the implementation of the PRTR in Kazakhstan.

105,7 BUSINESS FM
первое деловое радио

In February 2019, an interview with the participation of national experts was conducted on Business FM radio station.



On March 12, Khabar TV channel made reports on the holding of the final workshop "Implementation of the pollutant release and transfer register in Kazakhstan: key results and next steps"; interviews on the implementation of the PRTR were given








Today in Kazakhstan, the faculties of ecology are represented in the largest universities of the country (more than 12 universities). Work has begun on the development of cooperation aimed at informing students, participating in seminars and conferences, distributing information booklets and brochures, conducting a survey.



Conducting advanced training seminars on the basis of RSE "IAC EP" and the Center "Assistance to Sustainable Development". The program of each seminar includes an academic hour dedicated to the implementing the project of PRTRs and the measures taken by Kazakhstan in this direction

Results from the implementation of the Strategy

The implementation of the Strategy contributed to the achievement of the following objectives:

-  engagement of the society in the process of achieving the objectives of the PRTR, the enhancement of the public environmental awareness;
-  development of public opinion on environmental issues affecting the state of the environment;
-  assisting and guiding the public in accessing information, in facilitating their participation in decision-making and in accessing justice in environmental matters;
-  raising awareness of environmental issues; improving the quality of decisions made in the field of environmental protection and environmental management and the process of their implementation;
-  encouraging nature users to introduce green technologies; environmental education and promoting public awareness on environmental issues.

PRTR training workshops for stakeholders

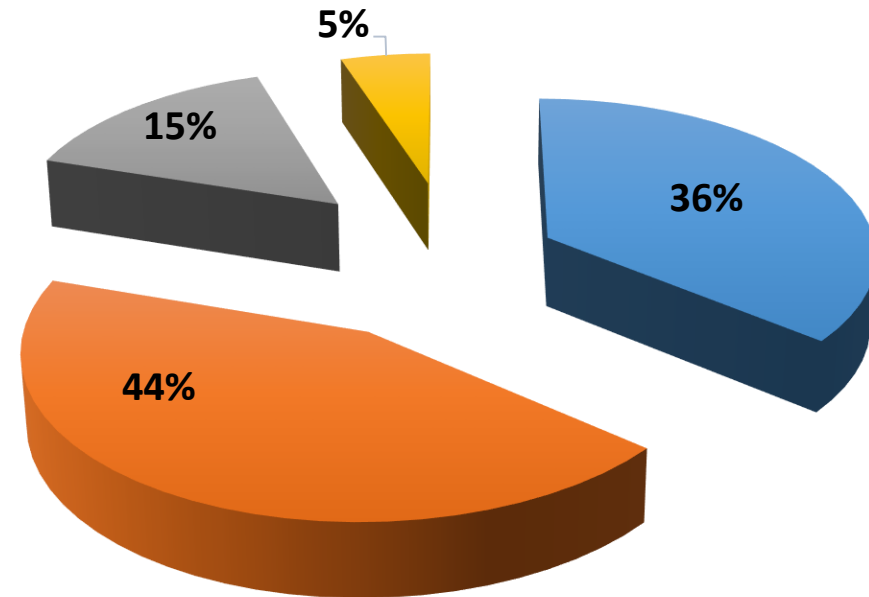
PARTICIPANTS OF THE WORKSHOPS

Total number of participants over 360

Target groups of participants - state and subordinate organizations, industrial enterprises, non-governmental and international organizations

Industrial enterprises: oil refining, energy, mining, metallurgical and chemical industries

Breakdown of workshop participants by target groups



■ Public authority ■ Industrial enterprises ■ NGO media ■ Int. organizations

Photos from the workshops

Aktobe city – Participants holding certificates



Astana city – Opening session of the workshop



Astana city – Discussion of the practical task in groups



Pavlodar city – Participants of the workshop

Development of the training programme and training module

OBJECTIVES

Raising public awareness concerning the features of the PRTR Protocol raising awareness of the features of the PRTR Protocol;

assistance in compiling G-PRTR;

promotion of ratification of the Protocol in the Republic of Kazakhstan;

public participation in decision-making related to PRTR;

promotion and maximum use of the capabilities of electronic media.

As a part of the project a training program and training module has been developed for training representatives of industrial enterprises, government agencies, non-governmental organizations and the media in order to implement and support the PRTR system in Kazakhstan






The training program and training module are developed in accordance with the legislation of the Republic of Kazakhstan, taking into account international legislation, norms and standards.

Report on the standardization of existing materials

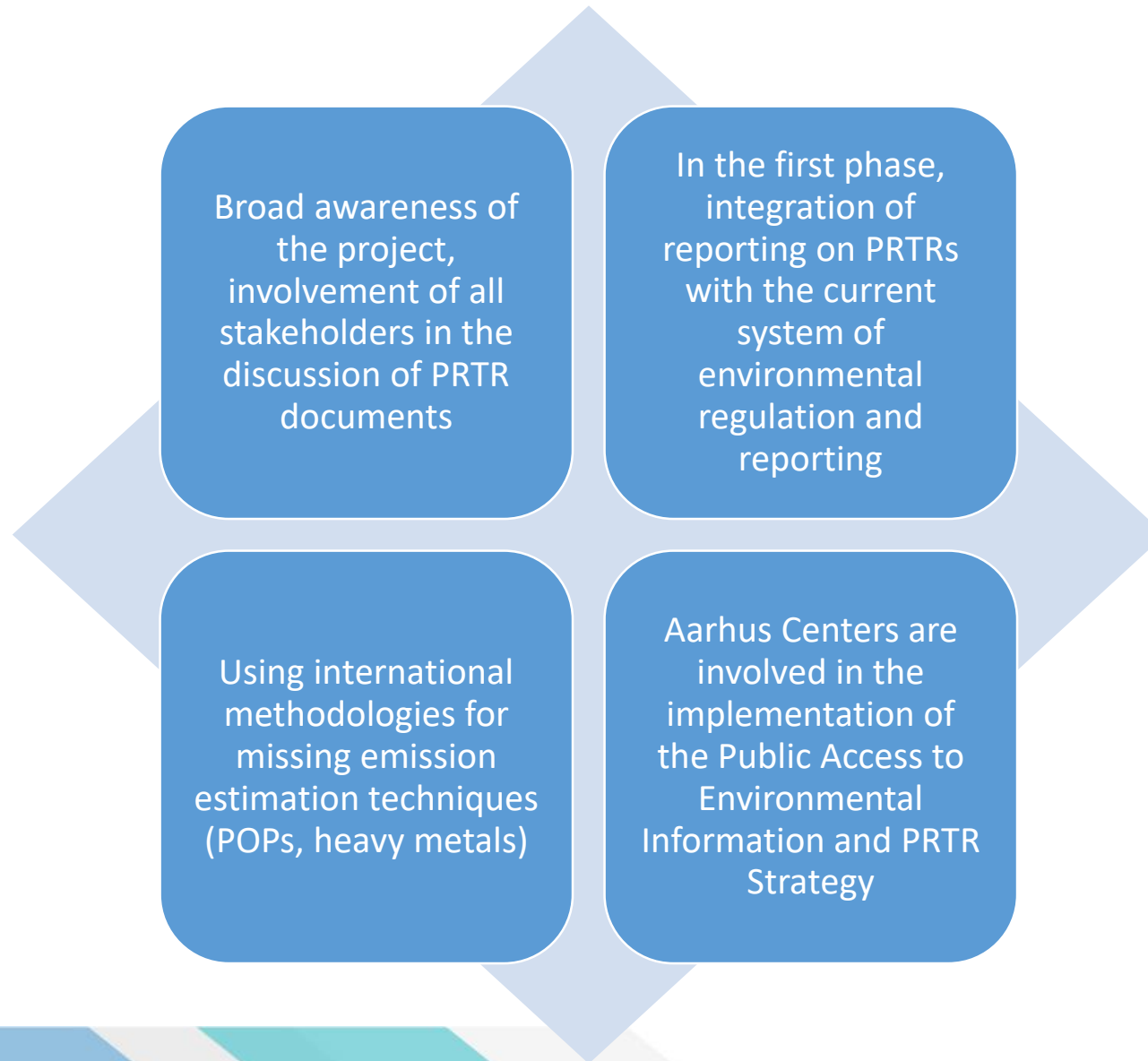
The collection and analysis of data on the standardization of existing materials on the reporting of chemicals, including POPs, includes:

- 1 Analysis of the current PRTR system in the EU
- 2 Analysis of the current PRTR system in Ukraine
- 3 Analysis of the implemented PRTR system in Moldova
- 4 Analysis of the implemented PRTR system in Belarus
- 5 Analysis of the implemented PRTR system in Kazakhstan
- 6 Comparative analysis of PRTR systems
- 7 Recommendations on standardization for implementation in a PRTR reporting scheme

Further stages of development of the PRTR in Kazakhstan

-  1 Applying thresholds for PRTR reporting
-  2 Methods of estimation emissions of pollutants into the soil
-  3 Features of regulation of pollutants emissions from industrial and consumer waste
-  4 Methods for estimating emissions of heavy metals and POPs into the air, water and soil
-  5 Involving the public in the solving problems concerning the development of PRTRs

Best practices/lessons learned from the implementation of the national PRTR



Thank you for your attention!

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- +7 7172 570005, prtr.kz@gmail.com