

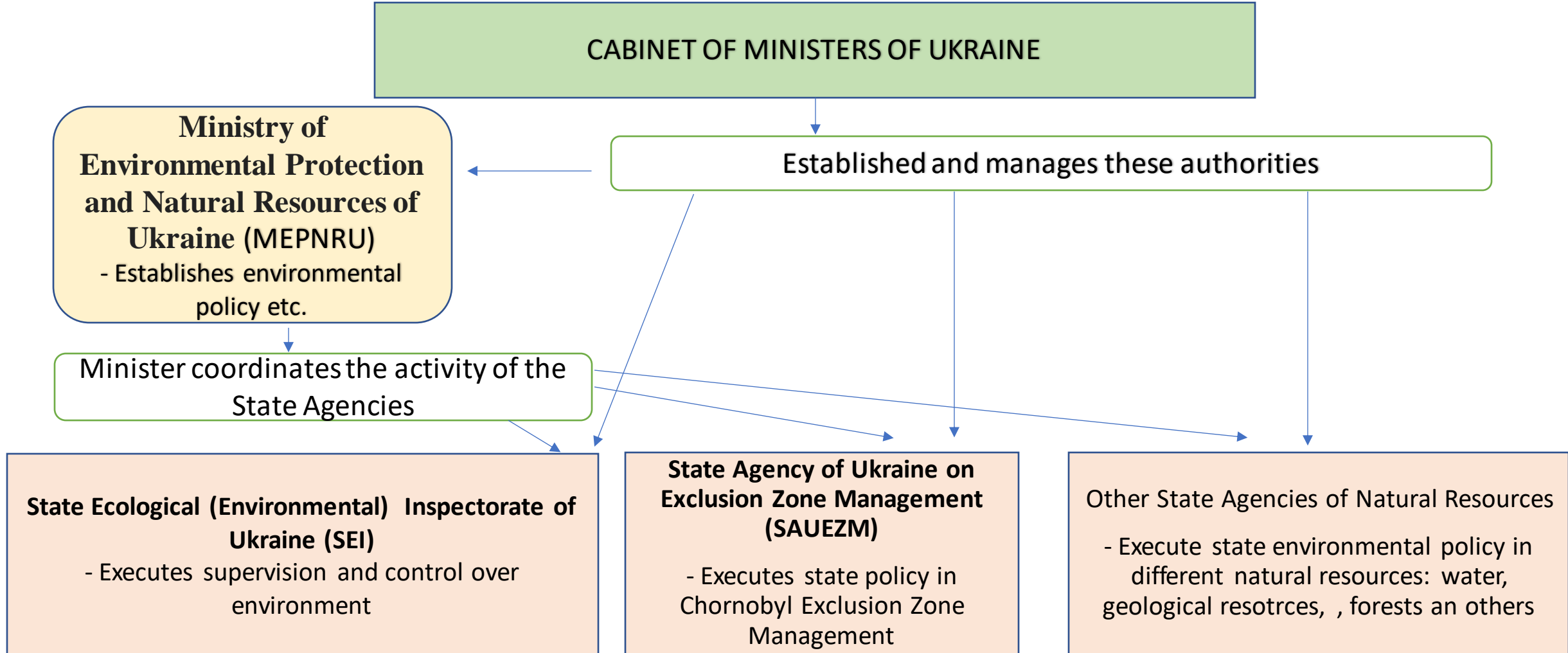
**OPERATIVE HEADQUARTER**  
**acting on the basis of the**  
**State Environmental Inspectorate of**  
**Ukraine**



## **BRIEF SNAPSHOT**

(August 2022)

# Scheme of the Environmental Protection System in Ukraine



# OPERATIVE HEADQUARTER

- Started its activity on the 1<sup>st</sup> of March 2022 after Russian invasion
- Based on the State Environmental Inspectorate of Ukraine
- Comprises the representatives from:
  - Committee of Verkhovna Rada (Parliament) of Ukraine on Environmental Policy and Nature Management
  - Committee of Verkhovna Rada (Parliament) on Transport and Infrastructure
  - Specialized Environmental Prosecutor's Office
  - Security Service of Ukraine
  - State Environmental Inspectorate of Ukraine
  - Ministry of Ecology and Natural Resources of Ukraine, other Ukrainian authorities.
- Operative Headquarter maintains Register of Environmental damage caused by Russian invasion
- Operative Headquarter established in April, 2022 the Expert Working Group (EWG) to develop methodologies of the assessment of the environmental damages and losses in Ukraine due to the military aggression of Russian Federation. EWG is headed by Prof. Mark Zheleznyak (FUKUSIMA Inst., Japan) and includes at 80 experts



# OUR FOUNDERS:



**Olena KRYVORUCHKINA**

Chief Coordinator of the Operative  
Headquarter,  
Member of Parliament,  
Deputy Head of the Committee of  
Verkhovna Rada of Ukraine on  
Environmental Policy and Nature  
Management



**Ihor ZUBOVYCH**

Head of the Operative Headquarter,  
Head of the State Environmental  
Inspectorate of Ukraine



**Roman SHAKHMATENKO**

Former Deputy Minister of the  
Ministry of Ecology and Natural  
Resources of Ukraine



# DATA COLLECTION PROCESS

Proceeds the following ways:

- The fixation of the environmental damages by the staff members of the Regional offices of the State Environmental Inspectorate of Ukraine (located in all the regions of Ukraine except for the occupied territories)
- IT solutions: @EcoShkodaBot, email and 24/7 phone line
- Day-by-day cooperation with the State Emergency Service of Ukraine, Ministry of Defense of Ukraine, with the members of the Operative Headquarter
- At the beginning of August 2022 the Operative Headquarter has collected more than 500 cases of the environmental damage and losses
- Approximate amount of the losses estimated according to the current methodologies is USD 9.7 bln.

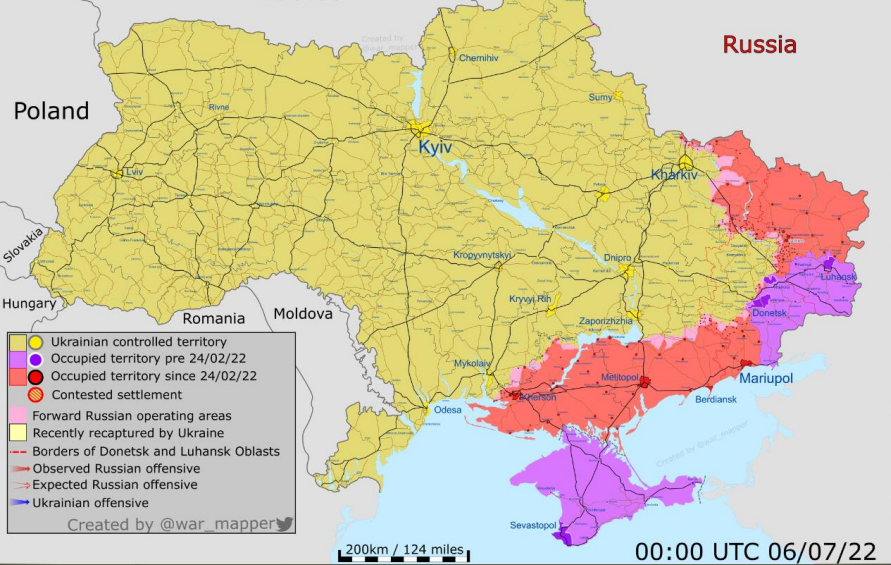
- Large scale vehicle movements lead to widespread physical damage to sensitive landscapes and geodiversity due to intensive use of explosive ordnance. The use of explosive weapons creates vast quantities of debris and rubbles
- Pollution caused by damage to industry and environmentally sensitive infrastructure such as chemical enterprises, oil distribution bases, water treatment plants.
- Destruction of agricultural infrastructure like canals, wells and pumps and the burning of crops.
- Weapons and military materiel used during conflicts also leave environmental legacies. Land mines, cluster munitions and other explosive remnants of war restrict access to agricultural land and pollute soils and water sources with metals and toxic energetic materials
- Incendiary weapons such as white phosphorous are not only toxic but also damage habitats through fire
- Scientists and researchers are unable to access areas due to security problems, harming conservation programmes.
- National parks and protected areas lose what protection they had, or protecting them may be made more difficult when poachers are armed.

<https://firms.modaps.eosdis.nasa.gov/map/#t:adv;d:7days;@33.8,47.8,7z>

# 7 Days wildfires till July 6, 2022

The screenshot displays the NASA FIRMS (Fire Information for Resource Management System) web interface. The main map shows a satellite view of Ukraine with numerous red dots representing wildfire hotspots detected from July 1st to July 6th, 2022. The hotspots are concentrated in the eastern and southern parts of the country. The interface includes a navigation sidebar on the left, a top navigation bar with the NASA logo and 'FIRMS Fire Information for Resource Management System', and a right-hand control panel. The control panel has tabs for 'CURRENT' and 'HISTORICAL' data, with 'CURRENT' selected. It shows the date 'Jul 06 2022' and a 'WEEK' view. There are buttons for 'BASIC MODE' (selected) and 'ADVANCED MODE'. Below these are sections for 'Fires / Hotspots' (with 'Simple' and 'Time Based' options), 'Overlays', 'Dynamic Imagery' (listing various satellite reflectance products like VIIRS NOAA-20, VIIRS S-NPP, MODIS/Aqua, and MODIS/Terra), and 'Static Backgrounds' (listing 'Blue Marble' and 'Streets'). At the bottom, there is a timeline navigation bar showing the month of 'JULY 2022' with days 1 through 6 highlighted, and a 'WEEK' view selector. A small inset map in the bottom-left corner shows the territorial control of Ukraine as of July 6, 2022, with a legend for Ukrainian controlled territory, occupied territory, and Russian offensive areas. The inset map is titled '00:00 UTC 06/07/22' and includes a scale bar (200km / 124 miles) and the text 'Created by @war\_mapper'.

[https://twitter.com/War\\_Mapper/status/1544472682976219139](https://twitter.com/War_Mapper/status/1544472682976219139)



**One of the cases of the direct losses:  
Oil Depot in Kryachky village Kyiv region  
(was shelled on the 27<sup>th</sup> of February 2022), losses made up UAH 837 mln.**





**One of the cases of indirect losses:**

(dead dolphins due to the radio signals of military ships are found on the seacoasts of Turkey, Bulgaria and Ukraine)



**Operative Headquarter representatives try to fix all the cases and take samples for researches:  
(Oil Depot in Lviv after fire)**



# Our plans and needs

**Needs** to provide our Expert Working Group with **professional reviews and advising** of the drafts of the methodologies:

1 – we are planning to establish an International Advisory Board of the Operative Headquarter (Reform Delivery Office) acting on the basis of the SEI to involve the representatives from the foreign environmental agencies and international organizations for cooperation and support

2 – we are planning to establish an International Consulting Group (as a subgroup of the Ukrainian Working Group) with professional reviews of the methodologies of the assessment of environmental damage that are under development

**We need technical and financial support** due to the fact the Ukrainian economy works for War:

1 – technical support: specialized field equipment for fixation of the damages and environmental monitoring, labs, drones, SUVs.

2 – financial support for creation of the Experimental Group on the research of the impact on the environment of the military actions

3 – financial support in the creation of the Single State Register of the environmental damage caused by the military actions (for example, Eurasia Foundation donated the project for Ministry of Infrastructure of Ukraine in creation the State Register of the damaged property)

# Our contacts

## OPERATIVE HEADQUARTERS

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- @EcoShkodaBot

Thank you for your patience,

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