

Zoi Environment Network is a non-profit organization that helps build sustainable societies through **informed analysis, visual communication, design and action.**



Our topics are

War on Ukraine



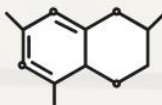
Climate change



Biodiversity



Chemicals and Waste



Security and conflict



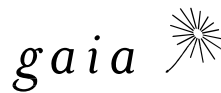
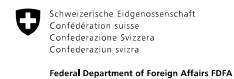
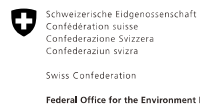
Water



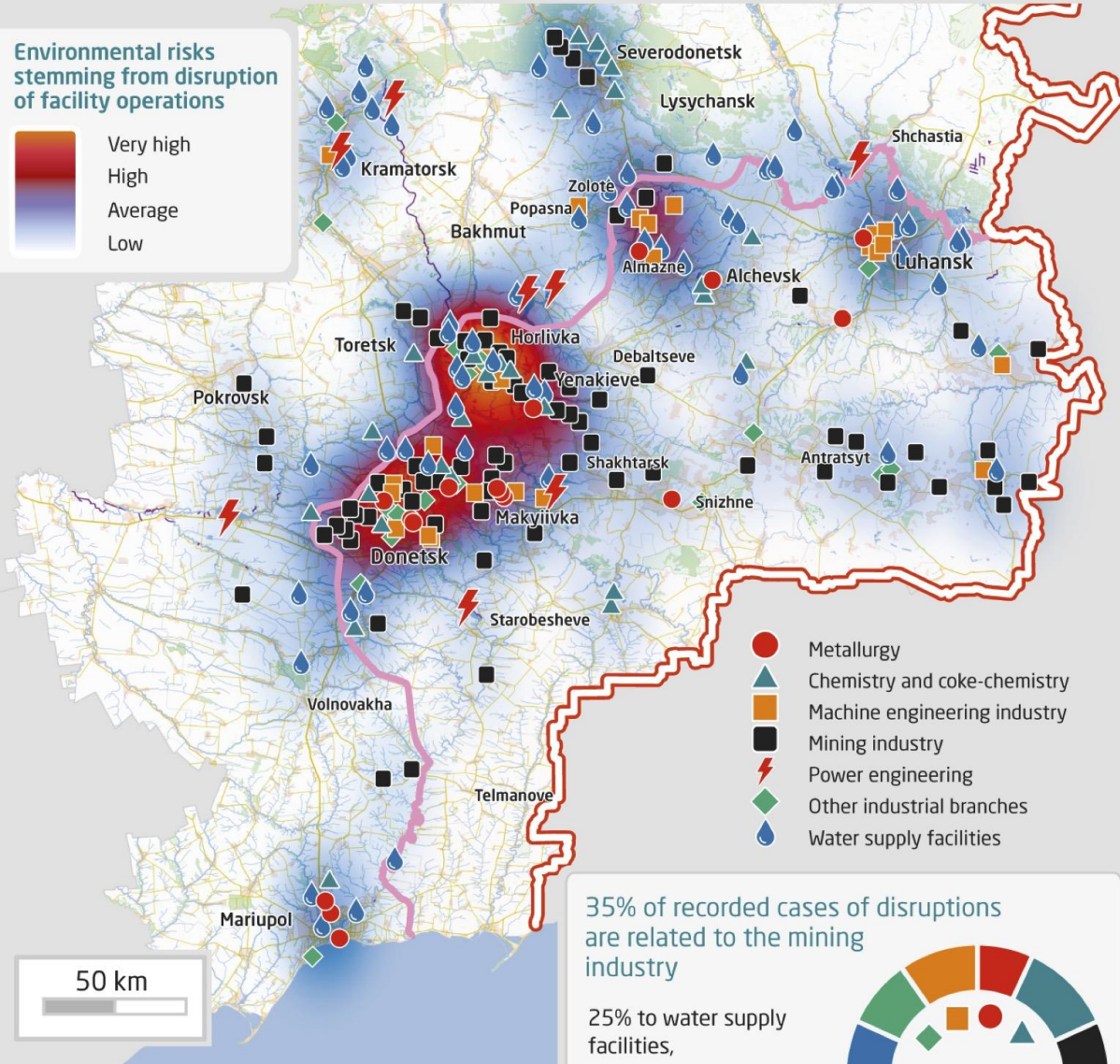
zoï partners



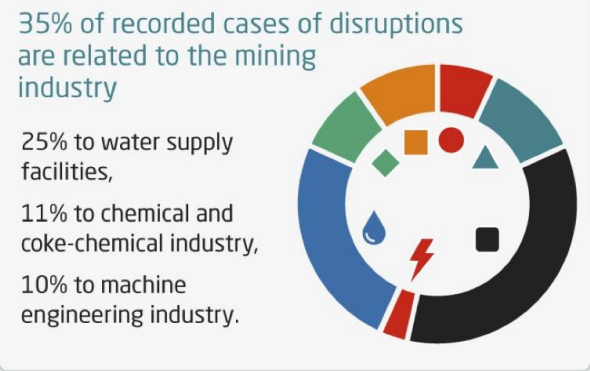
Inter-Parliamentary Union
For democracy For everyone.



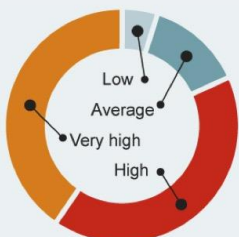
Environmental risks stemming from disruption of facility operations



- Metallurgy
- ▲ Chemistry and coke-chemistry
- Machine engineering industry
- Mining industry
- ⚡ Power engineering
- ◆ Other industrial branches
- 💧 Water supply facilities

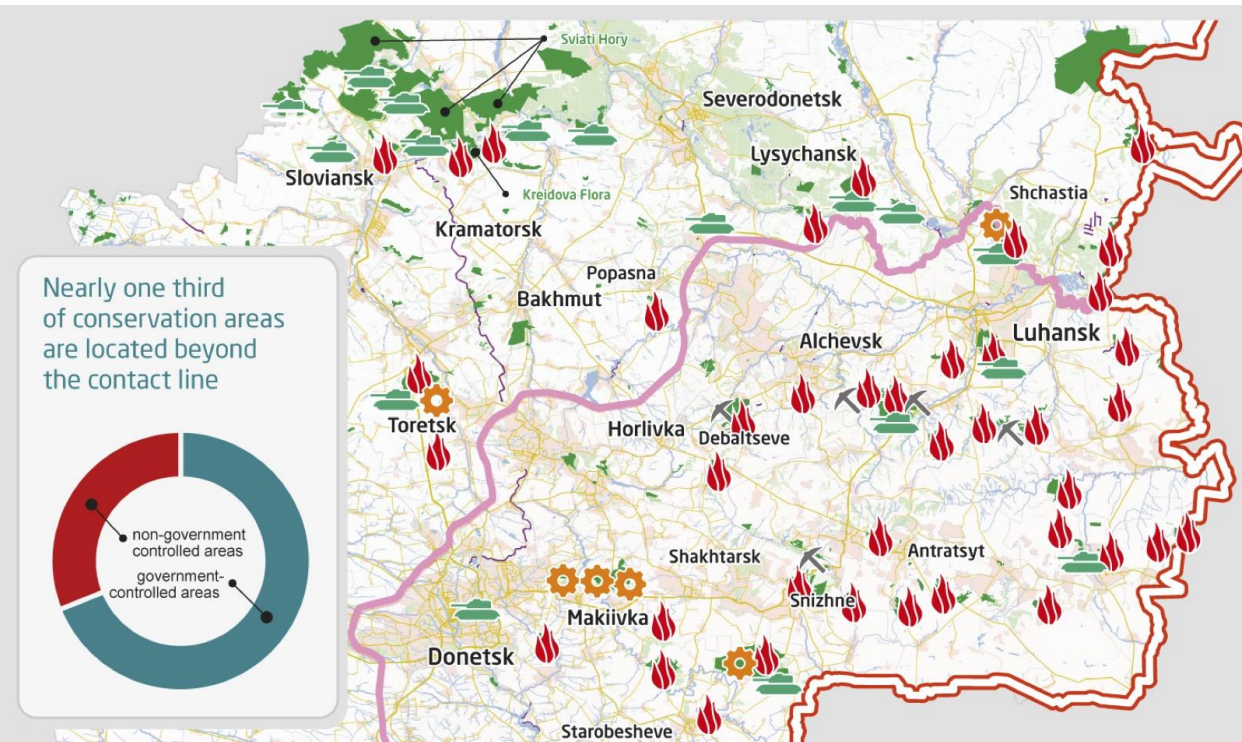
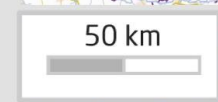
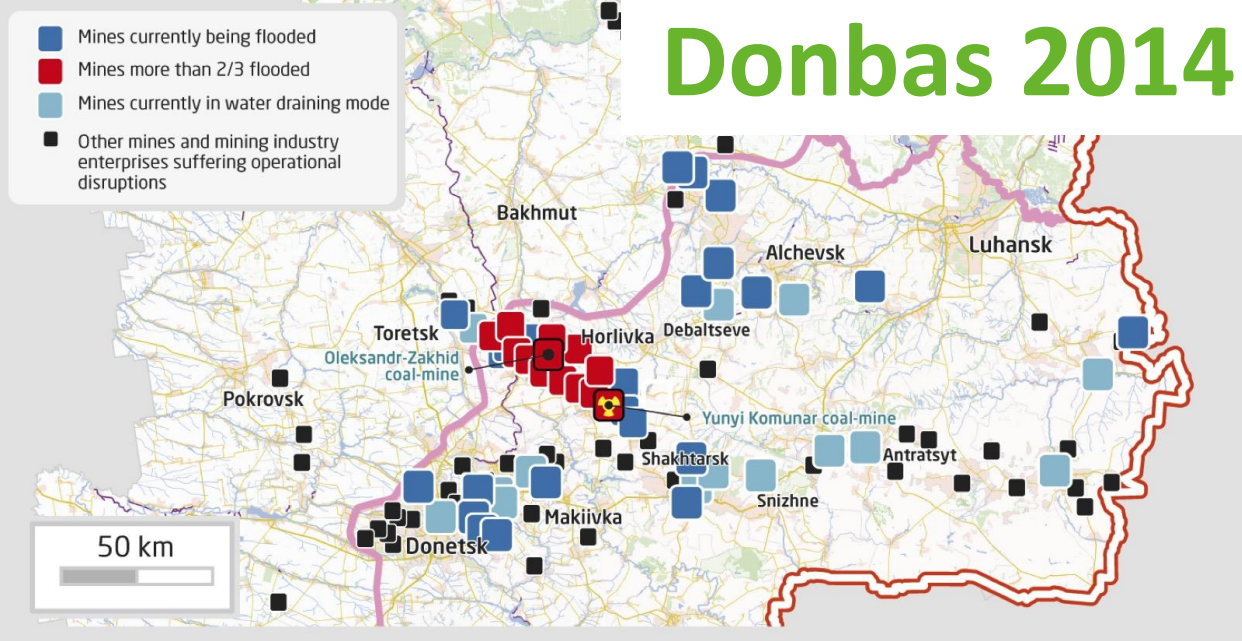


More than 80% of the facilities damaged during hostilities have high or very high environmental risk levels. The highest environmental risk zones are seen at the population agglomerations of Donetsk - Makiivka, Toretsk - Horlivka - Yenakieve, and in the city of Mariupol in the Donetsk oblast. In the Luhansk oblast, sites of highest risk include: Luhansk, Alchevsk and the population agglomeration of Almazne - Irmino - Zolote.



Donbas 2014

- Mines currently being flooded
- Mines more than 2/3 flooded
- Mines currently in water draining mode
- Other mines and mining industry enterprises suffering operational disruptions



Damage to protected areas

ONE MONTH INTO THE WAR ON UKRAINE
context and the impact on the environment

March 2022

Residue waste and toxic sludge in tailing storage facilities
billion tonnes



The number of refugees
2 140 000

260 000

320 000

560 000

370 000

270 000

Background information

- Russia-controlled areas per 22 February 2022
- Mass presence of Russian troops
- Russian advances
- Major flows of refugees
- ☢ Nuclear power plants
- ☢ Decommissioned nuclear power plant
- ⚡ Major hydropower plants
- ⚡ Major thermal power plants
- ⚡ Major chemical facilities
- ⚡ Refineries
- ⚡ Non-operational refineries
- Oil and gas pipelines
- Water canals
- Natural protected areas

Environmental concerns and damage

- Strikes and attacks on cities
- Strikes and attacks on airports and military facilities
- ☢ Incidents and attacks at facilities with radioactive materials
- 🏭 Strikes at industrial facilities
- 🏭 Release of toxic chemicals
- 🔥 Damage to gas distribution networks
- 💧 Damage to water and wastewater facilities
- ⚙️ Attacks on strategic resource-control locations
- 🌿 Damage or disruptions in protected areas
- 🔥 Vegetation fires in February–March 2022

- ✖ Dniro basin (4.8)
- ✖ Dnipropetrovska oblast (4.0)
- ✖ Poltava oblast (0.46)
- ✖ Kirovohradska oblast (0.13)
- ✖ Zaporizhska oblast (0.11)
- ✖ Donetsk oblast (0.10)
- ✖ Siversky Donets basin (0.54)
- ✖ Azov Sea coast (0.34)
- ✖ Dniester basin (0.16)

Information per 23 March 2022
Sources: monitoring of national and international mass media and social networks, reports from the field, World Nuclear Association, Impact Initiatives, Ukhidroenergo, ProtectedPlanet, CEOS, Entsog, REEFMC, Ecoplatform, Mapstand, UNHCR, Openstreetmap, Wikipedia.

0 100 km

Map produced by Zoi Environment Network, March 2022

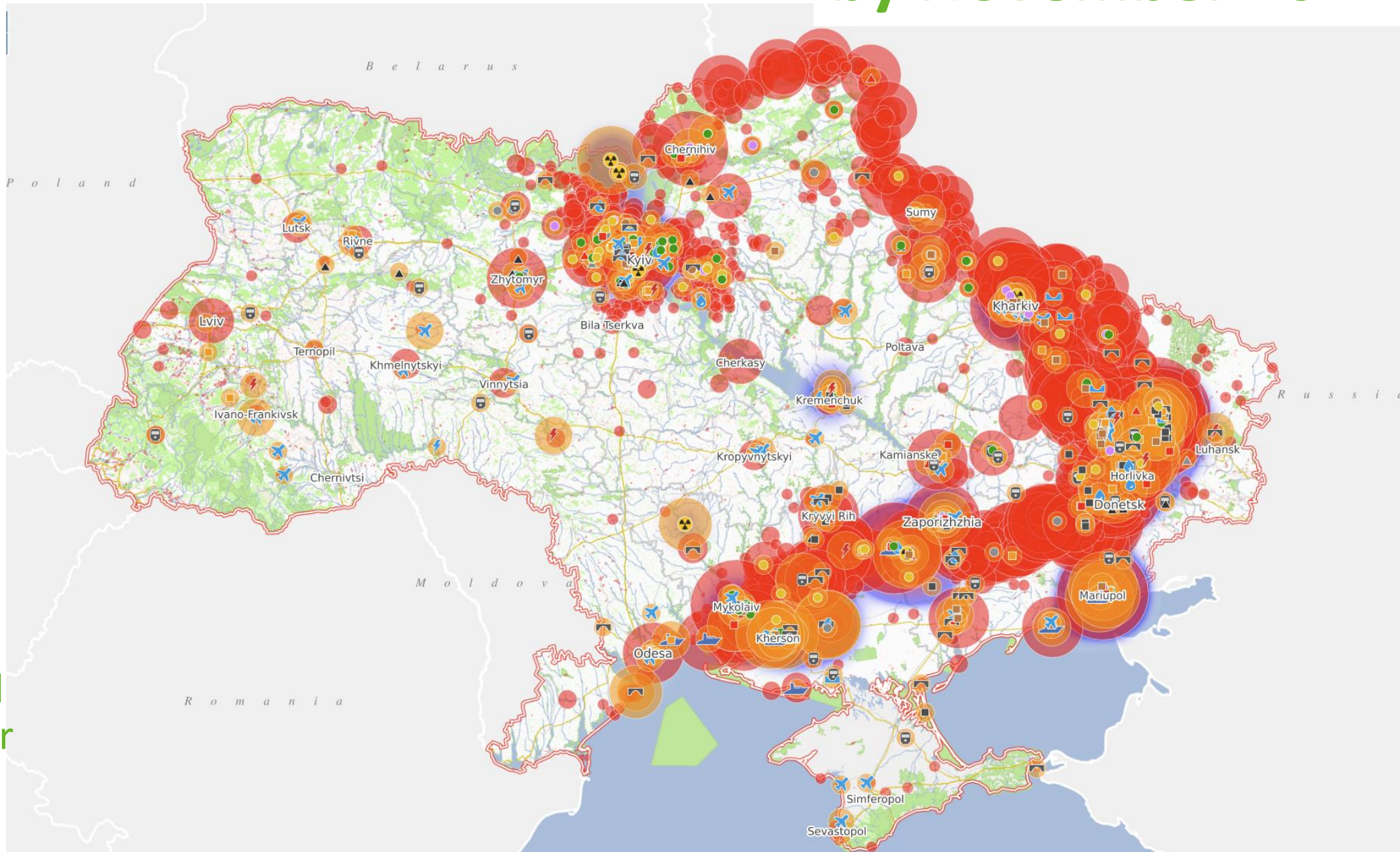
by November 2022

21,000 incidents
in **1,900 cities,**
towns, villages

1000 incidents at
530 industrial or
infrastructure
facilities

10x larger share
of **forests** burned
inside the war
zone
(15x for pine &
spruce)

30% of **protected**
areas damaged or
occupied



Nuclear threat

Ukraine conflict environmental briefing



Incidents at nuclear facilities in Ukraine 2022

Aggregated per week

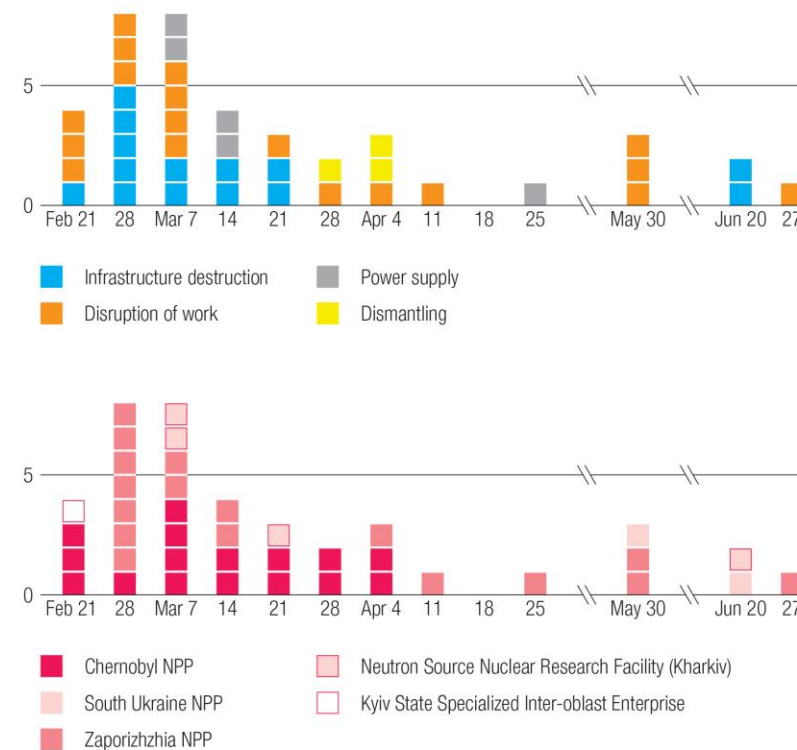
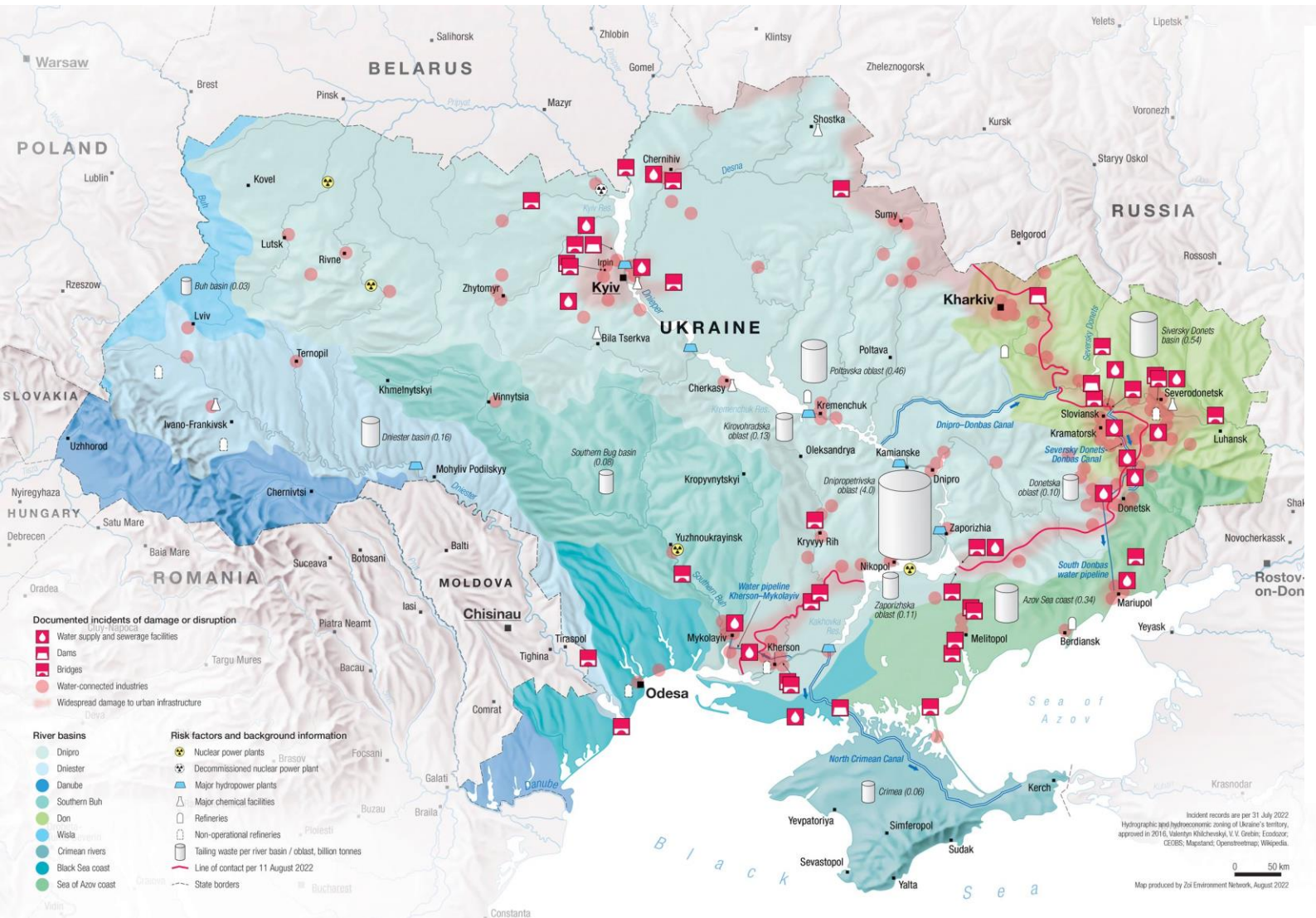


Diagram produced by Zoï Environment Network, July 2022
Data: www.ecodozor.org

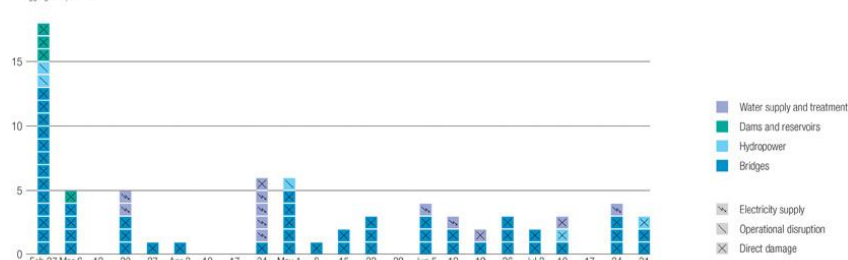


Ukraine conflict environmental briefing



Water related incidents in Ukraine per 31 July 2022

Damage or disruption to water-related infrastructure
Aggregated per week



Direct damage to water-connected industries
Aggregated per week

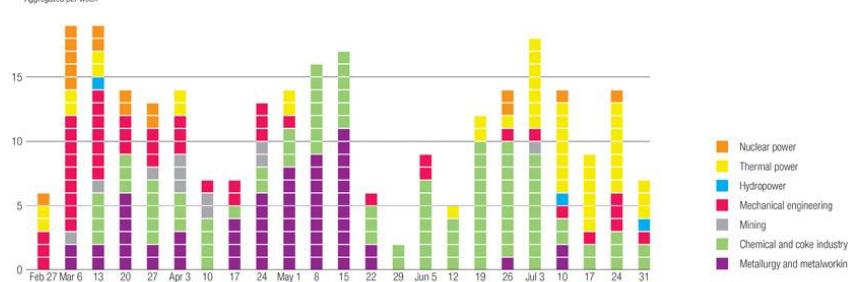


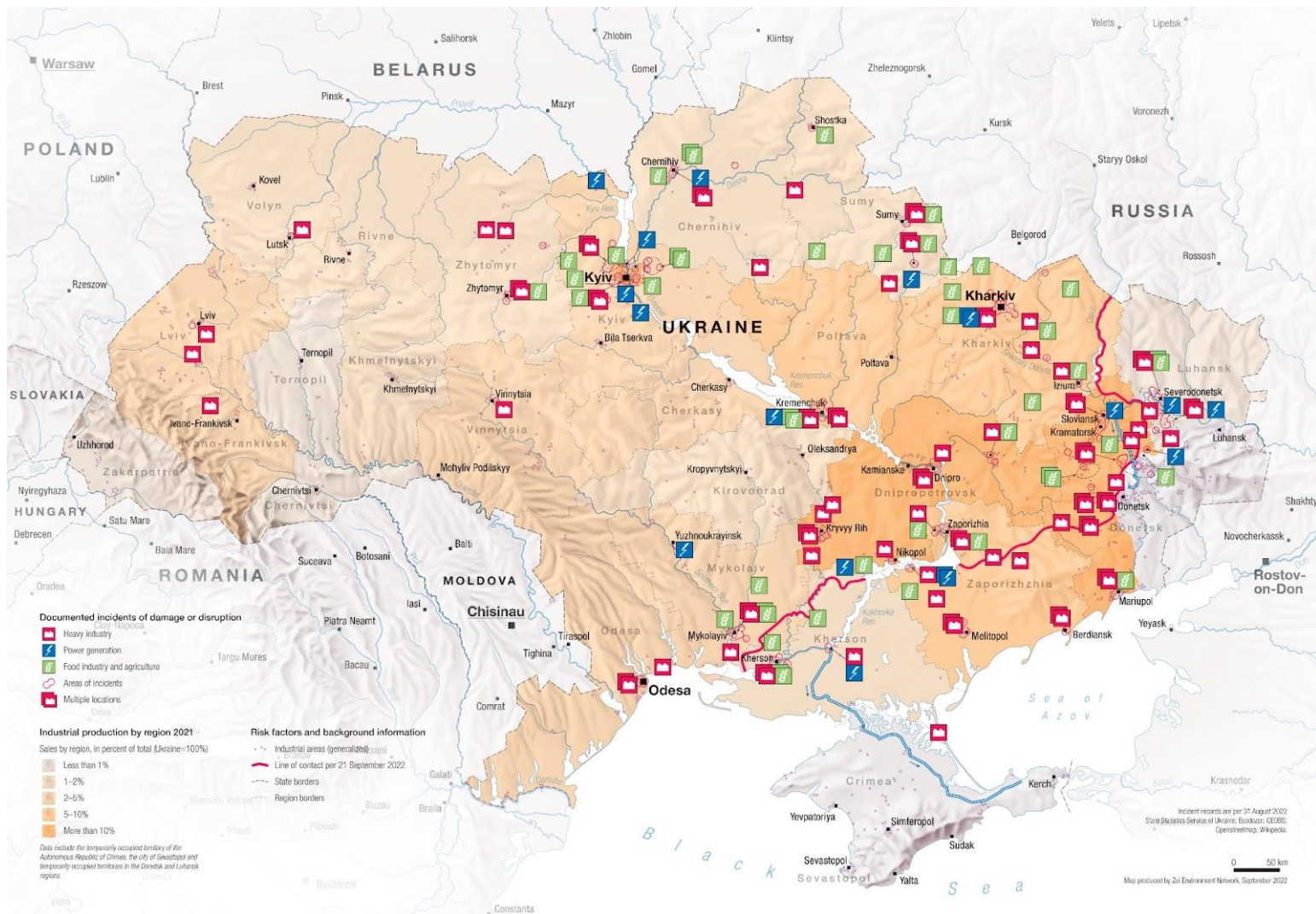
Diagram produced by Zoi Environment Network, August 2022
Data: www.ecodocor.org

Incident records are per 31 July 2022
Hydrographic and hydroeconomic zoning of Ukraine's territory, approved in 2016, Valentyn Khilichenskyi, V. V. Grebik, Ecodozor, CEESB, Mapasanti, Operativmapa, Wikipedia.

Map produced by Zoi Environment Network, August 2022

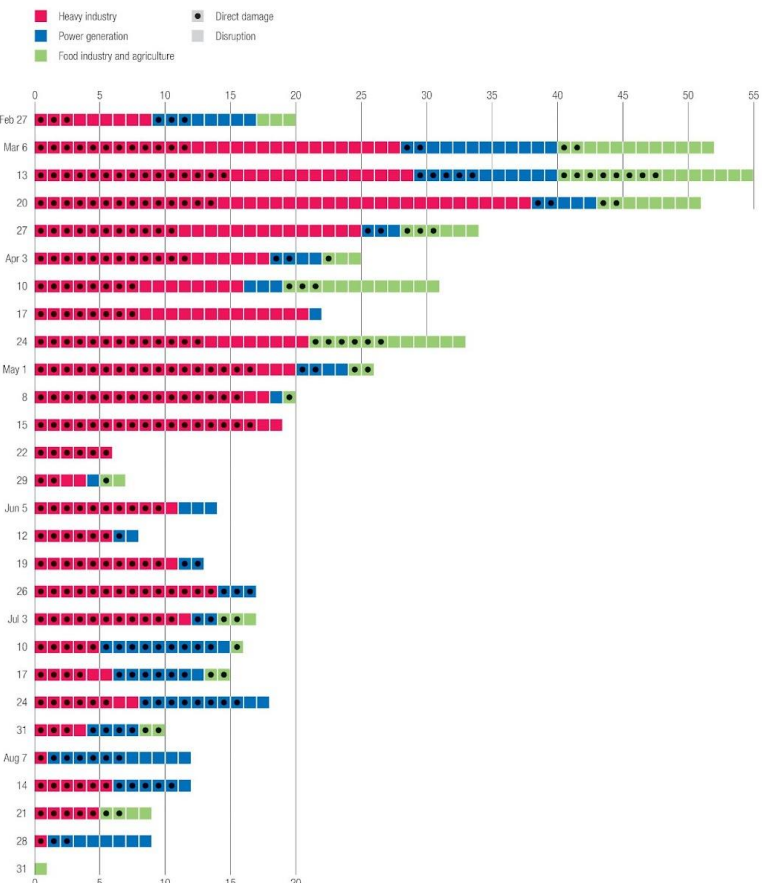


Ukraine conflict environmental briefing



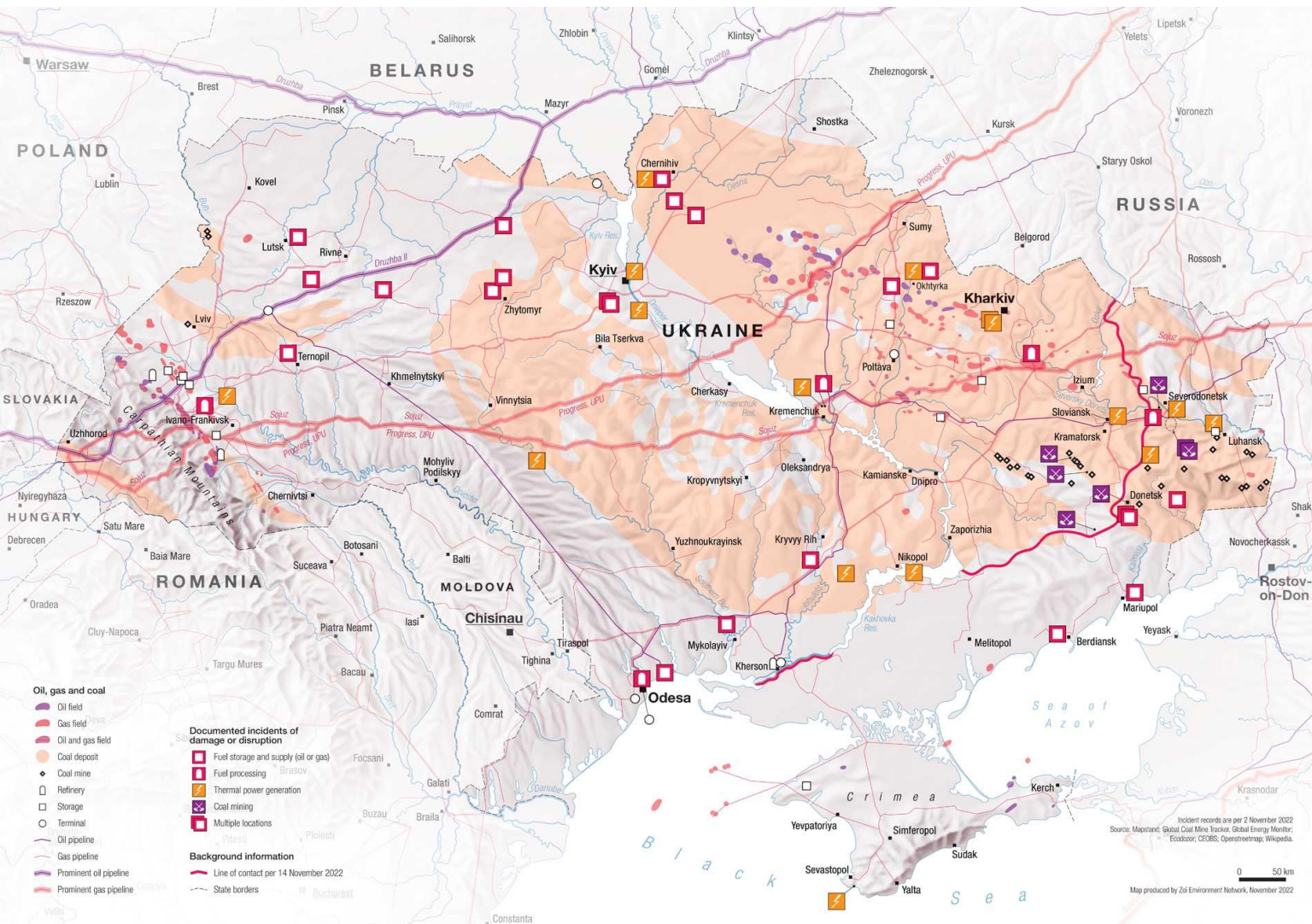
Industry related incidents in Ukraine per 31 August 2022

Damage or disruption to industry-related infrastructure
Aggregated per week



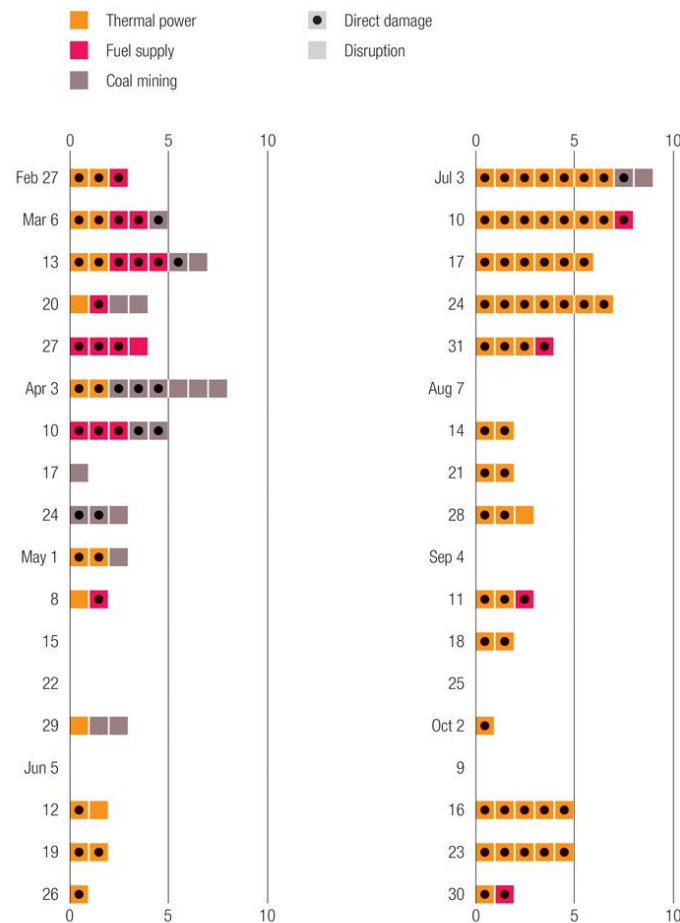


Ukraine conflict environmental briefing



Fuel related incidents in Ukraine per 31 October 2022

Damage or disruption to fuel-related infrastructure
Aggregated per week



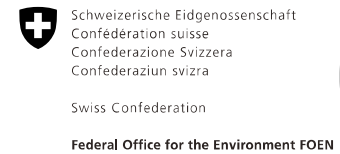
Users of Ecodozor.org data and insights



United Nations (UNEP, UNDP, OCHA...)



Organization for Security and Co-operation in Europe



Ministry
Of Environmental Protection
and Natural Resources
Of Ukraine

Environmental authorities



Diplomatic community



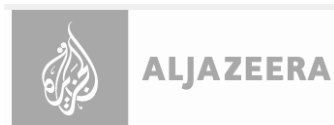
Environmental NGOs



Humanitarian organisations



Research and academia



Media