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United Nations Mine Action in Ukraine

Tuesday 24th Oct 2023 – MASG - NYC

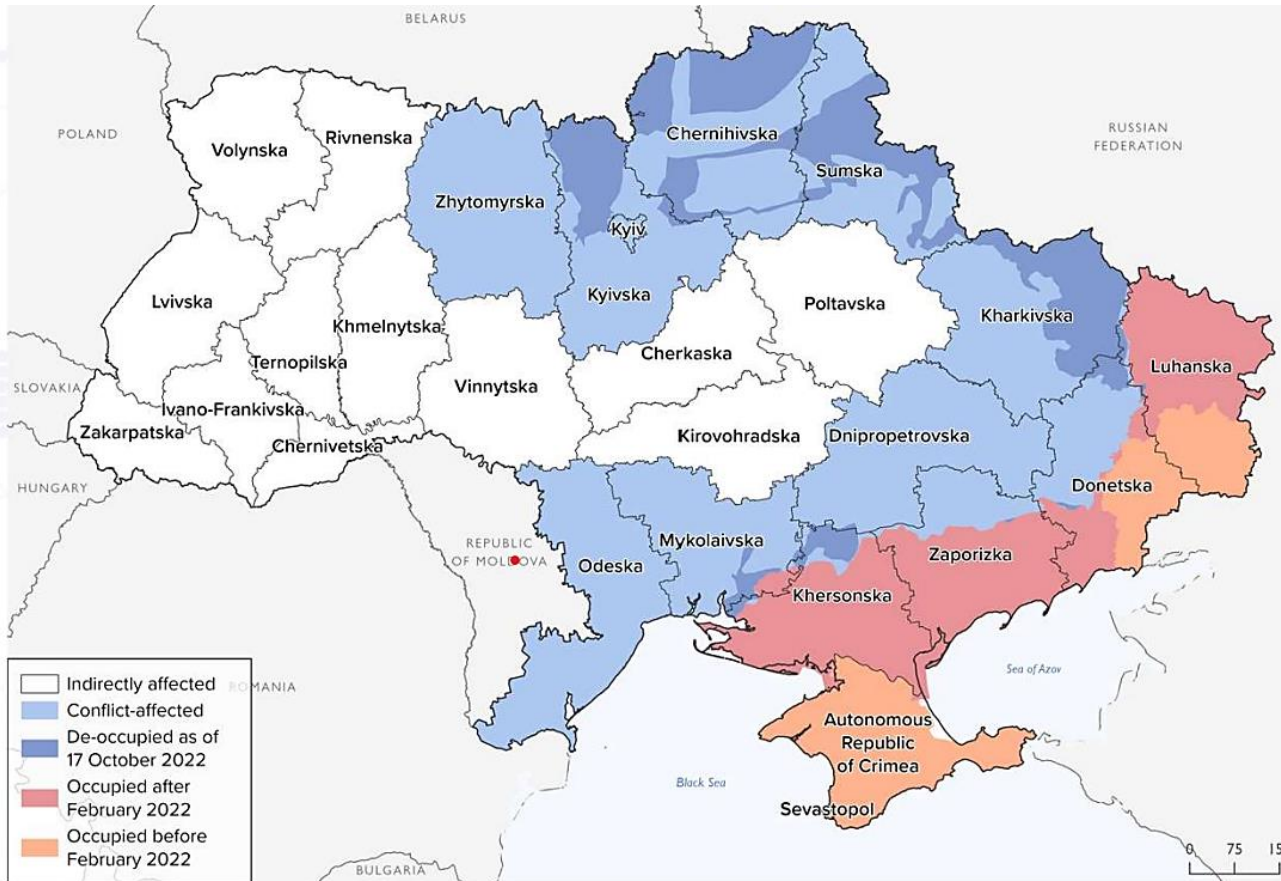
Context



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ACCORDING TO AUTHORITIES, **175,000** SQ. KM OF UKRAINE'S TERRITORY HAS BEEN AFFECTED BY WAR AND MAY BE CONTAMINATED WITH LANDMINES AND EXPLOSIVE ORDNANCES



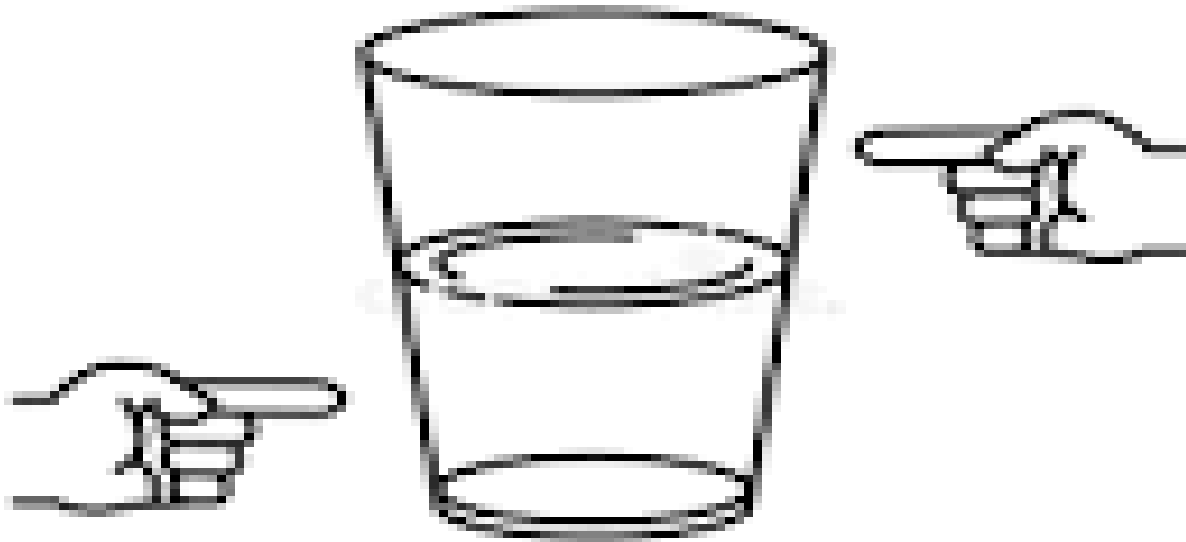
UKRAINE: TOTAL CIVILIAN CASUALTIES*, PER TYPE OF WEAPON/INCIDENT, from 24 February 2022 to 13 August 2023



Context



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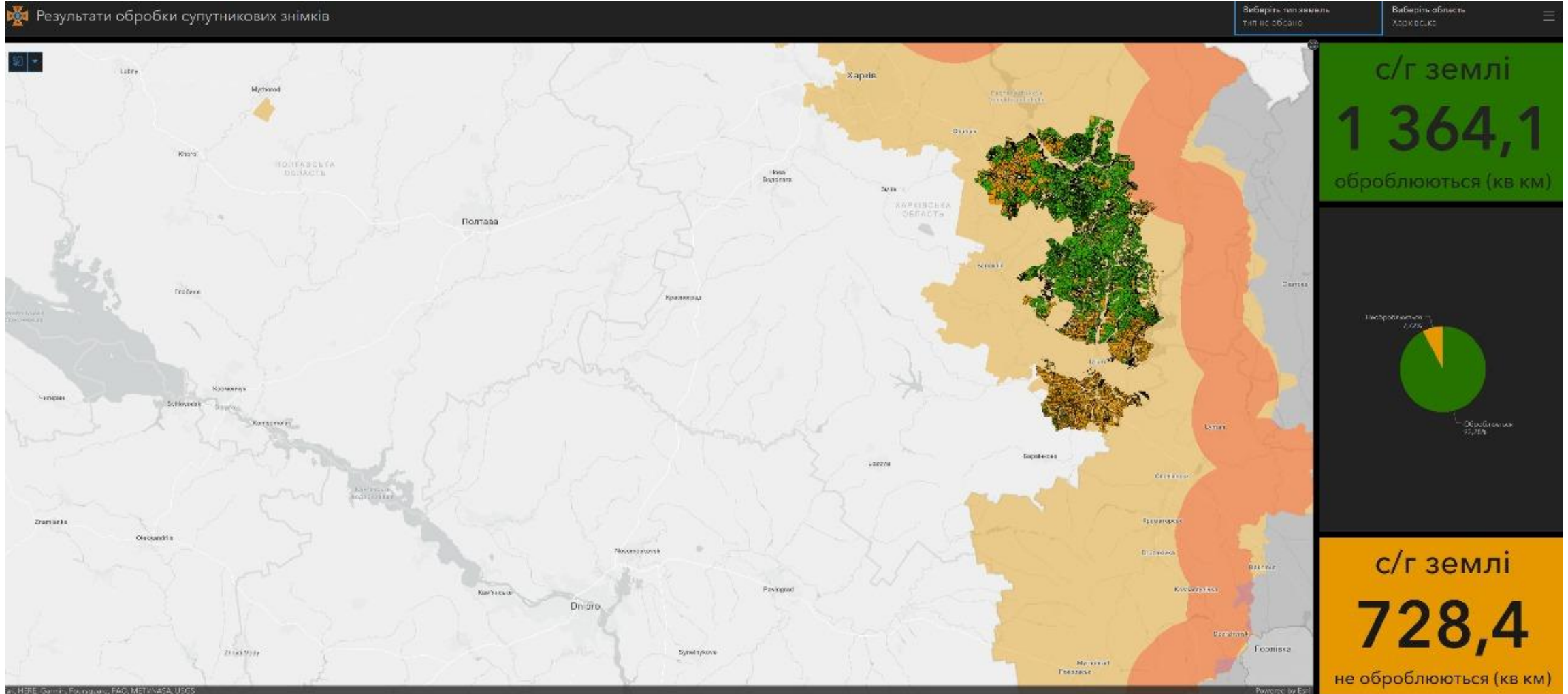
Is the glass half full or half empty in Mine Action Ukraine?

- 1) Vision
- 2) Revised National Strategy is being Developed
- 3) National Standards are being updated
- 4) Sector Working Group (SWG) now functioning
- 5) Outcome driven prioritization being developed
- 6) Risk management approach being adopted
- 7) New technology being adopted – particularly in information systems management and the use of robotics/UAV.
- 8) Developing outcome driven concept notes for equipment requests

Rapid Progress Using Technology



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Two approaches Required:

The Need for Outcome driven high impact demining NOT Output focused demining.

Why is the task a priority, what will be the positive outcomes achieved or negative outcomes avoided by undertaking this task at this time! How does clearing this task help Ukraine.

Adoption of a risk management approach not everything can be done immediately with no current or residual risk.

There are still incidents involving UXO in western Europe form WWI and II

Key challenges



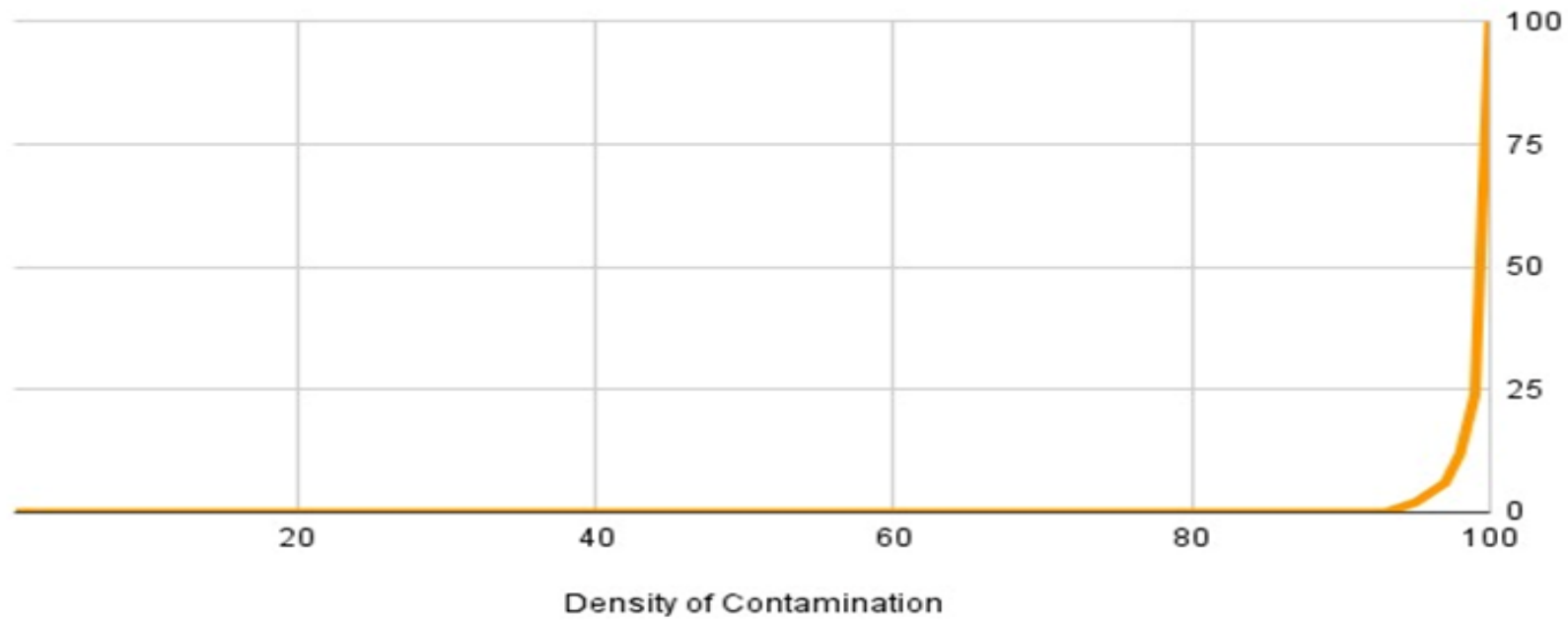
Ukraine has two mine action problems **not** one:

The actual contamination from the detritus of war: Mine, UXO and other explosive contamination – probably the worst seen in Europe since the end of the second world war ! This will require extensive clearance operations conducted to international/Ukrainian standards.

The areas of land that areas suspected of being contaminated (primarily as a result of being occupied by Russian forces) that actually has no contamination and there is no evidence of contamination, but the perception is that it might be dangerous. This will require Innovative solutions and adoption of a risk management approach to mine action in Ukraine until land is confirmed as being contaminated or no evidence of mines is accepted.



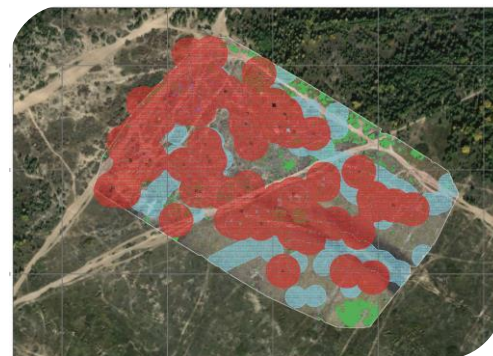
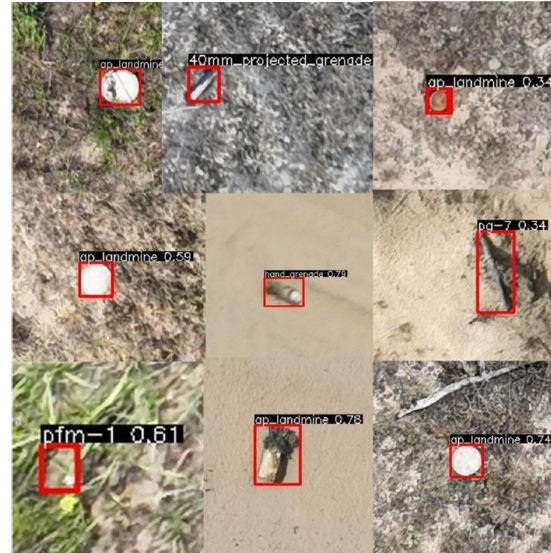
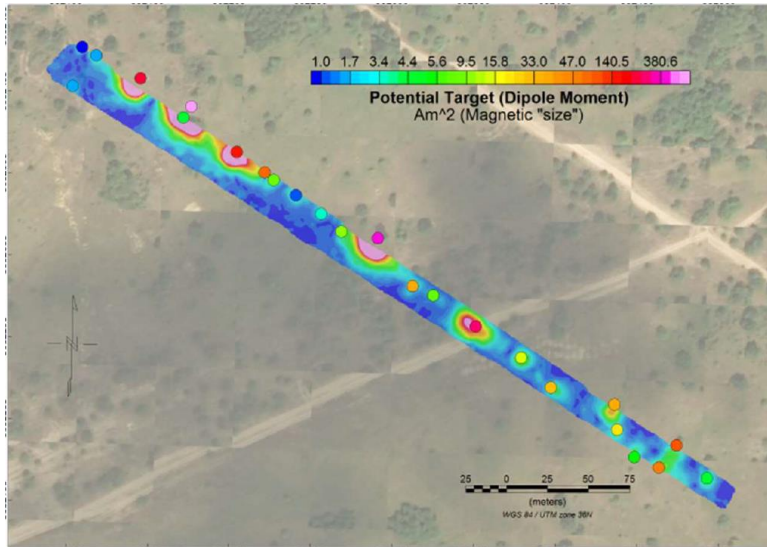
Density of Contamination



Impact & Innovation



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How can the UN assist Ukraine in Mine Action:

- Support Development of National Strategy
- Development of National Standards
- Development and Provision of Technical expertise particularly on Skills and Equipment needed
- Development of Train the Trainer training packages
- Development of Risk management approach with regard to the management and mitigation of explosive hazards
- Support effective Quality Management Processes
- Improve quality and relevance of requests for support – context driven concept notes
- Improved Information management and data integration for allocation of resources, prioritization and measurement of impact.
- Reduce bureaucracy and identify conflicting legislation
- Support the creation of mine action service market place
- Support the development of innovative finance mechanisms

Coherence/Prioritization/Resource Management

Effective Use of Information Management Will Allow improved:



Land assessment and release

- i. Unified linked data model
- ii. Real-time land status reporting
- iii. Open data standards for data sharing
- iv. Data governance and security
- v. Land status detection and hazard alerts
- vi. Scenario modelling for demining metrics
- vii. Estimating impact of operator prioritization

Region prioritisation

- i. Combine multiple data streams for accurate hazard evaluation
- ii. Alert critical infrastructure status based on real-time data
- iii. Share prioritization data across operators
- iv. Automate risk management considering economic and societal impacts
- v. Estimate demining time based on various factors and local infrastructure
- vi. Securely share demining information between central and local government



The One UN approach in mine action in Ukraine pursues four impacts intended to capture the different strategic and long-term aims of the sector and strive for increased peace and human security, and support towards development in Ukraine - the common vision drawn from mine action global sector-wide Theory of Change (ToC).

1. Ukraine's strategic objectives supported, and relevant treaty obligations met.
2. Increased community resilience to conflict drivers, contributes to stability and peacebuilding.
3. Economic development and more resilient communities contribute to Sustainable Development Goals (SDGs).
4. Safer communities and reduced deaths and injuries from mines and explosive remnants of war (ERW).



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Options for Financing Mine Action in Ukraine

- Traditional Grants – from Governments
- Grants from Foundations & Corporate Social responsibility projects
- Grants from IFI

Innovative Financing:

- Front loading and loans
- First Risk Mortgages/Loans
- Development Bonds
- Ensuring Liquidity in the reinsurance markets
- Delayed coupon or zero coupon bonds for critical infrastructure and agriculture
- Energy Bonds
- Green Bonds
- Compensation to keep farmers on the land

Equipment needs of the state demining agencies of Ukraine



State Emergency
Service



National Police EOD



State Special
Transport Service

State Emergency Service of Ukraine (SESU)

Expected outputs / expected results:

- 1) Increasing the level of safety of the population against explosive objects.
- 2) Increasing the rate of demining via the implementation of new methods.
- 3) Life, health and property of citizens are preserved.
- 4) Restoration of the economic potential of de-occupied territories.

Expected outcomes / expected effect:

- 1) Positive economic, social and environmental impacts on de-occupied territories.
- 2) Increase in demined territories due to the involvement of Ukrainian and foreign companies.
- 3) Restoration of infrastructure

State Emergency Service of Ukraine (SESU)

EQUIPING STATUS / СТАТУС ОСНАЦЕННЯ

List of the main operational equipment of pyrotechnic units / Перелік основного оперативного обладнання піротехнічних підрозділів

(Available q-ty/Shortage)

ЗАСОБИ БРОНЕЗАХИСТУ:

(Available q-ty/ Shortage)



Окуляри захисні (балістичні):
948/643



Захисні наколінники та налокітники:
1085/500



Вибухозахисний костюм:
100/149

ЗАСОБИ ПОШУКУ:

(Available q-ty/ Shortage)



Металодетектори до 0,6 м:
1099/439



Металодетектори до 3 м:
103/352



Металодетектори до 6 м:
51/192



Квадрокоптер:
94/148

ЗАБЕЗПЕЧЕННЯ РОБІТ:

(Available q-ty/ Shortage)



Аптечка індивідуальна:
1089/455



Радіостанція автомобільна:
183/329



Радіостанція індивідуальна:
1101/441



Підривна машинка:
231/202



Груповий комплект забезпечення робіт:
49/179



Індивідуальний комплект сапера:
251/1123

ТЕХНІКА:

(Available q-ty/ Shortage)



236/60

Броньовані автомобілі (для персоналу)



101/117

Легкий броньований автомобіль (для ВВП)



86/118

Важкий вантажний броньований автомобіль (для ВВП)



15/45

Машина механізованого розмінування



9/191

Роботизований комплекс

National Police of Ukraine EOD units

Expected outputs:

- 1) Improving the level of equipment of Police EOD units.
- 2) Increasing the effectiveness of operational response and clearing areas of explosive objects.

Expected outcomes:

- 1) Reducing the social, economic and environmental impact of explosive objects on the life and activities of the population.
- 2) Reducing the number of incidents of death/injury from explosive devices.
- 3) Reducing the level of threats from explosive objects on the territory of Ukraine.

National Police of Ukraine EOD units

List of main operational equipment / Перелік основного оперативного обладнання

#	Name / Назва	Available q-ty / В наявності	Shortage / Нестача
1	Vehicles / Автомобілі	87	53
2	Detecting systems / Системи пошуку	165	295
3	PPE / Засоби індивідуального захисту	360	100
4	Communication means / Засоби зв'язку	200	260
5	Demining (EOD) tools / Комплекти з розмінування	104	356
6	Navigation means / Засоби орієнтування	25	435
7	Medical / Медичне обладнання	260	460

List of additional needs of EOD Service / Перелік потреб в обладнанні вибухотехнічної служби

#	Name / Назва	q-ty / кількість
1	Armored Vehicles / Броньовані автомобілі	26
2	Off-road minibus / Мікроавтобус підвищеної прохідності	26
3	Truck for transporting mechanized demining machines and other equipment / Вантажний автомобіль для перевезення машин механізованого розмінування та іншої техніки	15
4	Heavy bomb suits / Важкий вибухозахисний костюм	52
5	Light bomb suits / Легкий вибухозахисний костюм	104
6	X-ray systems / Рентгенівські установки	52
7	Light EOD robots / Роботизовані вибухотехнічні комплекси	31
8	Unmanned aerial complexes / Безпілотні літальні комплекси	52

State Special Transport Service (SSTS)

Expected outputs:

- 1) Objects of the national transport system are demined.
- 2) Agricultural areas are demined.
- 3) Water objects are demined.

Expected outcomes:

- 1) Agricultural lands in Kherson, Mykolayiv, Kharkiv, Chernihiv, Sumy and Kyiv regions returned to cultivation which gives business an opportunity to return to work and restore work in de-occupied territories
- 2) Decrease in fatality and casualty rate among the civilians from UXO.
- 3) Activization of economic growth due to the restoration of logistics routes, disrupted because of mining of objects of the national transport system.
- 4) Restoration of shipping on the demined parts of the Dnipro river and in the waters of the Black and Azov seas.

State Special Transport Service (SSTS)

List of main operational equipment / Перелік основного оперативного обладнання

№	Name / Назва	Available q-ty / В наявності	Shortage / Нестача
1	Vehicles / Автомобілі		
	4x4, type Volkswagen Transporter T6.1 or equivalent	180	420
	Heavy pyrotechnic vehicle	0	100
	Ambulance, type B	10	90
	4x4, type Mitsubishi L200 or equivalent	12	8
	Demining system BOZENA 5+, DOK-ING MV-10 or equivalent with complete of spare parts	0	20
	Truck type Sitrak C7H or equivalent with trailer	7	13
2	Detecting systems / Системи пошуку		
	Metal detector type Minelab F3, Vallon VMH4-VS20/VS25, Vallon VMH3CS or equivalent	605	1495
	Metal detector with large frame type Ebinger UPEX 740 M, Vallon VMX10 or equivalent	0	300
3	Magnetometer (bomb finder) type Vallon VX1 or equivalent	0	300
	PPE / Засоби індивідуального захисту		
	Demining visor type Rofi or equivalent	0	2400
	Rofi Ravelin Demining Vest MKI or equivalent, including protective knee, elbow pads and gloves	0	2400
4	Med-Eng TAC 6E Suit Heavy Duty Deminer Protective Suit or equivalent	0	300
	Operator's cabin	0	20
	Communication means / Засоби зв'язку		
	Motorola type VHF car radio or equivalent	0	320
	Motorola portable VHF radio or equivalent	410	2030
5	Laptop	20	300
	Tablet	20	300
	Demining (EOD) tools / Комплекти з розмінування		
	Special demining kit EOD-1M	713	1387
	A set type Demining Tool Kit or equivalent	68	1732
6	Blasting machine type "Vykhor", "Mini Shrike" or equivalent	97	503
	Group set of tools for demining and remote removal of ammunition (Hook&Line Kit)	0	300
	Navigation means / Засоби орієнтування		
	Garmin type GPS navigator or equivalent	10	310
7	Laser range finder	300	0
	Binoculars	0	300
	Copter with the ability to search for explosive objects	14	606
	Medical / Медичне обладнання		
Orthopedic back shield with stabilization straps and a device for fixing the head	145	275	
Tactical rescue stretchers	145	275	
Medical kit for the unit	145	275	
Individual first-aid kit type IFAK or equivalent	711	1829	

