

# Mine Action in Ukraine

**PROGRESS** since full-scale aggression

1 4 8 8

Day of war...

# Russia is AGRESSOR



More than **6 million** people live near potentially contaminated areas

20%

Potentially contaminated areas



# Mine Action

## Policy

## KEY RESULTS :

**Prime Minister of Ukraine**

**National Mine Action Authority**  
Head of the NMAA – Minister of Defense of Ukraine

**01**

**National Mine Action Strategy up to 2033**

**02**

**Operational plan 2024-2026**

**03**

**National Mine Action Standards**

**04**

**Innovations in Mine Action**

**05**

**National capabilities in Mine Action**

## Organization

**Secretariat of the National Mine Action Authority**  
(Main Directorate for Mine Action, Civil Protection, and Environmental Safety)

**Center for Humanitarian Demining**  
(under the Cabinet of Ministers of Ukraine)  
(cooperation with international partners and donors, development of the commercial demining market)

**Mine Action Center**

(institution of the Ministry of Defense of Ukraine)  
(work planning, management, and coordination of task execution by PMD operators)

**Regional Military Administrations**

(operational mine clearance coordination teams)  
(coordination of the work of security and defense forces' demining units)

## Implementation

**Operators of mine action**

Government

NGO

Commercial

**Humanitarian demining**

**Mine clearance units of the security and defense forces**

AFU

SSTS

SESU

NPU

**Operational Response**

133 300 km<sup>2</sup>

40700sq. km indicated as out of suspicion

14 000 km<sup>2</sup>

water areas



134  
44

MA operator certified  
Incl. Government units



20

Organization in  
the certification process



716

Governmental personal



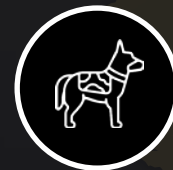
1806

MAO personal



301

Machine



123

MDD



# First phase

GOVERNMENTAL UNITS

EOD spot tasks

Critical infrastructure clearance

Rapid demining - the 1<sup>st</sup> phase before humanitarian demining aims to eliminate existing explosive ordnance risks in humanitarian purposes

# Second phase

Humanitarian demining is carried out in Ukraine by **Mine Action Operators** in the territory with a **stable favorable security situation**, beyond 20 km from the combat contact line and the state border

# Indiscriminate Weapons



*A Russian seismic mine of unknown type resembling a mushroom, Kharkiv region, May 2025*



*A Russian drone carrying PFM-1 mines was downed by electronic warfare (EW) systems near Stanislav, Kherson Oblast, in September 2024*



*A Russian Molniya UAV equipped with thermobaric warheads from the Shmel rocket-propelled flamethrower. Photo from Russian media, February 2025*



*A Russian X-59MK2 cruise missile with cluster submunitions, shot down by Ukrainian air defenses during a massive missile strike on the city of Odesa in July 2023*



*PFM-1 anti-personnel mines dropped by Russian drones on the city of Kherson, September 2025*



*Recovery of a Russian X-101 cluster cruise missile from the roof of a residential building in Odesa, November 2024*

# Demining Under Dense UXO Threat



*A Ukrainian sapper neutralizes cluster submunitions from a Russian RBK-500 aerial bomb that was used in Sumy Oblast in September 2024*



*PMN-2 anti-personnel mines during demining operations in the Oskil hromada, Kharkiv region, April 2025.*



*PFM-1 anti-personnel mines removed in the Borova hromada, Kharkiv region, April 2025*



*FPV (waiting for target)*



*TM-62M anti-tank mines in Kharkiv region, March 2025*



*Minefields near Orikhiv, Zaporizhzhia region. Photo taken in August 2023*

# Impact on Agriculture



*Fiber optic contamination*



*A russian FPV drone strike on an agricultural vehicle in the Iziium district of Kharkiv Oblast, July 2025*



*A fire on agricultural land near the village of Temyrivka, Zaporizhzhia Oblast, following Russian shelling, July 2022*



*Fiber optic contamination*



*A cluster munition from the Uragan MLRS after shelling of agricultural lands in Zaporizhzhia Oblast, October 2022*

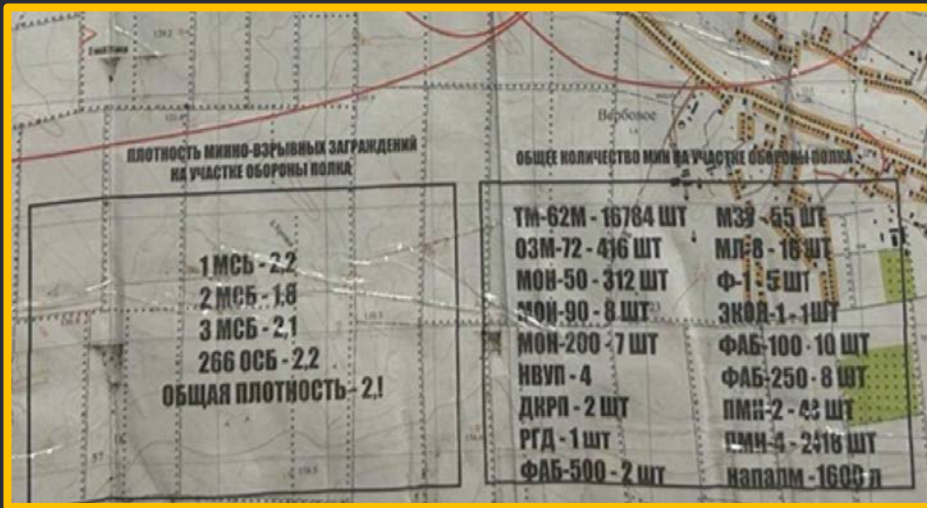


*An agricultural vehicle that struck an anti-tank mine in Valky district, Kharkiv Oblast, May 2022*

# Demining of Maritime Areas and Inland Waterways



# The highest Concentration Of Contamination is expected 20 km from the front line



TM-62M	-	<b>16784</b>	NVU-P	-	<b>4</b>
OZM-72	-	<b>416</b>	FAB-500	-	<b>2</b>
MON-50	-	<b>312</b>	FAB-250	-	<b>8</b>
MON-90	-	<b>8</b>	FAB-100	-	<b>10</b>
MON-200	-	<b>7</b>	DKRP	-	<b>2</b>
PMN-2	-	<b>48</b>	RGD-5	-	<b>1</b>
PMN-4	-	<b>2418</b>	F-1	-	<b>5</b>
ML-8	-	<b>16</b>	NAPALM	-	<b>1600 л</b>
MZU	-	<b>55</b>			





Ukrainian training and testing complex

UTTC – infrastructure for testing innovations in the field of MA

UTTC



TRAINING AND TESTING COMPLEX: NEW OPPORTUNITIES FOR TECHNOLOGY DEVELOPMENT IN MINE ACTION, CIVIL PROTECTION, AND ENVIRONMENTAL SAFETY



NATIONAL  
MINE ACTION  
AUTHORITY

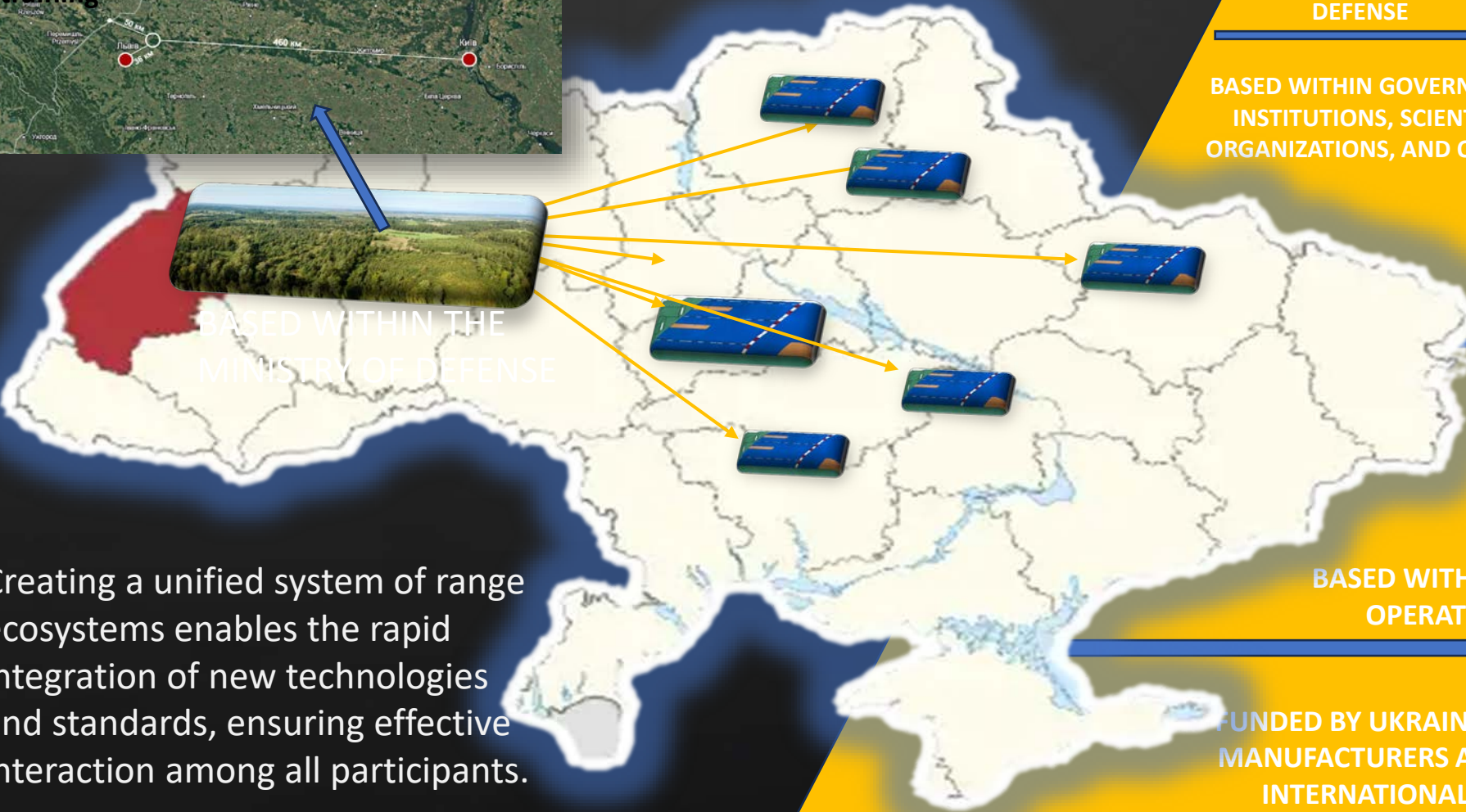


# TEST SITE ECOSYSTEM



BASED WITHIN THE  
MINISTRY OF DEFENSE

Creating a unified system of range ecosystems enables the rapid integration of new technologies and standards, ensuring effective interaction among all participants.



BASED WITHIN  
THE MINISTRY OF  
DEFENSE

The training and testing complex is the foundation of an innovative ecosystem, ensuring the coordination of all elements and the implementation of uniform testing standards.

BASED WITHIN GOVERNMENT  
INSTITUTIONS, SCIENTIFIC  
ORGANIZATIONS, AND OTHERS

Government proving grounds – for standardizing technologies and implementing state quality control of equipment.

BASED WITHIN PMD  
OPERATORS

Operators' ranges – Training centers for the instruction of combat engineers and crews, utilizing modern methods and equipment.

FUNDED BY UKRAINIAN  
MANUFACTURERS AND  
INTERNATIONAL  
PARTNERS

Manufacturers' ranges – specialized sites for testing new equipment prototypes and devices prior to certification.




## DEMO ZONE (OM 1)

Designed for:

- ✓ delivering presentations
- ✓ conducting safety briefings
- ✓ holding training sessions
- ✓ managing trials and demonstrations





**ККУБА, Рашкіс**  **UTTC**  
Ukrainian training and testing complex  
Організація або піл, контакти: 063-6201972  
Яким ви бачите майбутнє UTTC?  
Розширення 71216407

CESS  
А ТЕ, ЩОБ  
НІЗАЦІІ ТА  
ЩО



тримати від UTTC?  
оєрїє  
БЕЗПЕЧНЕ МАЙБУТНЄ!

 **UTTC**  
Ukrainian training and testing complex

Яким ви бачите майбутнє UTTC?  
Майбутнє залежить від організації. Майбутнє буде людиною, яка буде вести на контрольи дальноїстю



тримати від UTTC?  
виробниками та  
розробниками  
Щого Ми ру та Перемогти  
БЕЗПЕЧНЕ МАЙБУТНЄ!



Організація або піл, контакти: 097499  
Яким ви бачите майбутнє UTTC?  
Зв'язком збудови  
інженерним зас  
2. Які можливості ви б хотіли  
об'єднати напре  
між собою. Вироб  
3. Побажайте нам... Буди великих машин  
ККУБА можуть допомогти.  
ІННОВАЦІЯ - НЕ ДЕКОРАЦІЯ. МИ ЗА БЕЗПЕЧНЕ МАЙБУТНЄ!

# MDA Testing Area





# THANK YOU

For your ATTENTIONS !

THANK YOU



THANK YOU



THANK YOU



THANK YOU

