



# **Public-Civil Society Partnerships Transforming Military Capability of Ukraine**

June, 2025

# STARTING POINT

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'In terms of ammunition, Russia produces in three months what the whole of NATO produces in a year. And its defence industrial base is expected to roll out 1,500 tanks, 3,000 armoured vehicles, and 200 Iskander missiles this year alone...

Russia could be ready to use military force against NATO within five years'

**Mark Rutte, NATO chief**

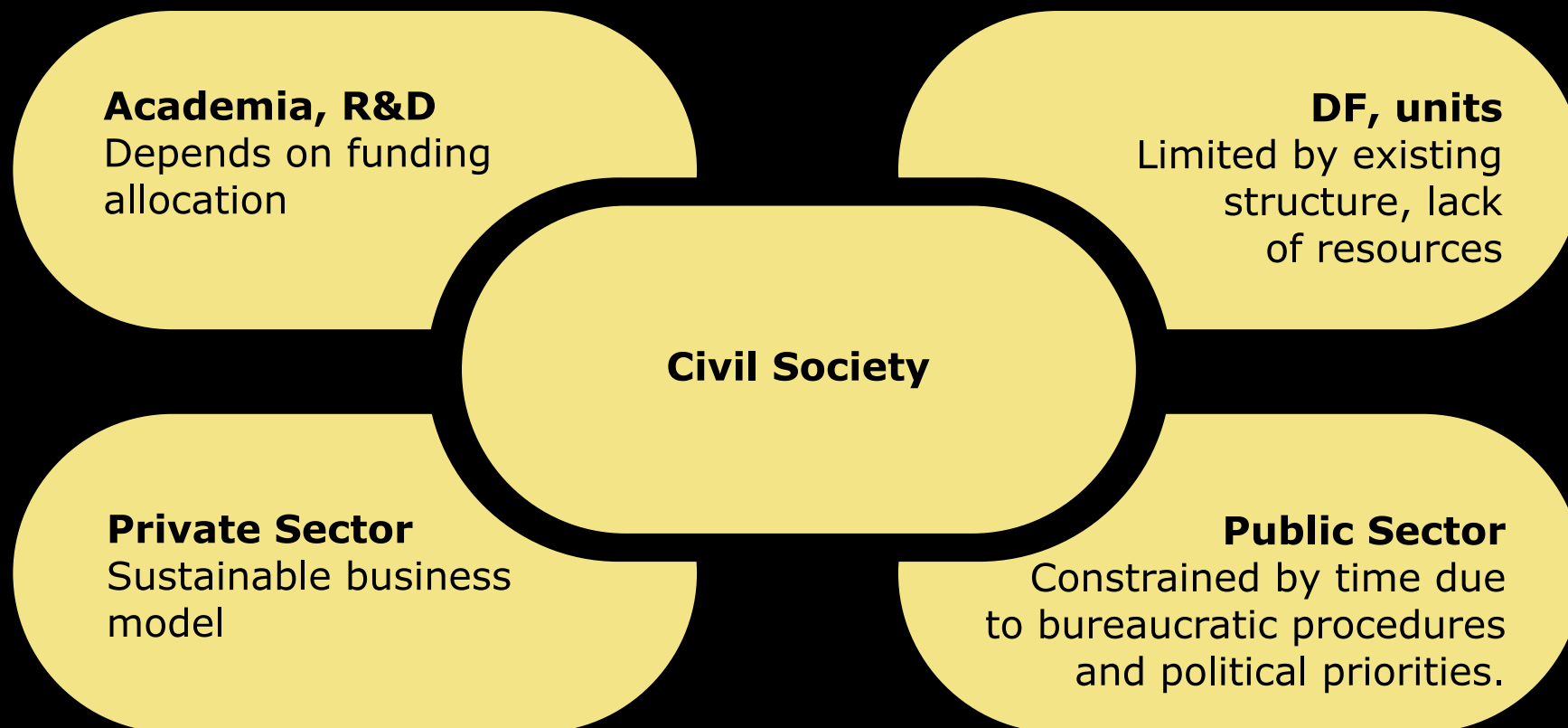
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# KEY QUESTIONS:

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- WHAT DEFINES THE MODERN BATTLEFIELD?
  - HOW CAN WE ENSURE OUR DF, DOWN TO TACTICAL UNITS, UNDERSTAND THE BROADER CONTEXT OF MODERN WARFARE, INCLUDING STRATEGIES, TECHNOLOGY, AND TACTICS, BEYOND JUST THE PHYSICAL BATTLEFIELD?
  - HOW IS THE STRUCTURE OF DF AND UNITS ORGANISED IN RELATION TO MODERN WARFARE?
  - WHAT ARE THE REQUIREMENTS?
  - IS THERE DIRECT COMMUNICATION BETWEEN END USERS AND PRODUCERS?
  - WHAT ARE PROCEDURES TO ENSURE CONSTANT INNOVATION?
  - WHAT IS OUR INDUSTRY READINESS?
  - HOW DO WE TRAIN OUR PEOPLE?
  - IS THE SOCIETY READY FOR THE WAR?
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# WHO WE ARE



## **An official non-profit organization**

established in 2014  
90+ members



## **A community of partners** in IT and robotic technologies sector

the largest IT companies of Ukraine, the Center of Innovation and Defense Technologies Development of the Ministry of Defense



## **A community of experts**

400+ within the perimeter of operations



## **An organization in contact** and interaction with the military and representatives of NATO countries



## **A community of veterans**

and active military  
personnel (50%+ uniformed: almost  
all forces)



## **An organization in partnership** and recognized by the Government of Ukraine

# WHO WE ARE

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**Mission: To support the development of network-centric and robotic capabilities of the Security and Defense Forces of Ukraine,** thereby systematically enhancing their overall effectiveness, through the engagement of civil society and the establishment of conditions for coordinated action with all relevant stakeholders.

Vision: Security and Defense Forces of Ukraine **transformed to meet the standards of a NATO defense complex, incorporating the experience acquired during the war with russia,** which enable effective resistance to the russian threat.

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# STAGES OF OUR HISTORY




History of the community

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
War of russia against Ukraine  Start of the Aerorozvidka community	Military unit A2724 is founded	Cooperation with the NATO C4 Trust Fund				Military unit A2724 is liquidated   NGO "Aerorozvidka" is founded	 Centre of innovation and development of defence technology is founded			

Robotic Systems

Start of development of the first UAV					Using R-18 in combat conditions of the ATO			R-18 has been accepted for armament in the UAF	Development and successful testing of the guided munition for the UAV	
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C2IS

Supporting DELTA development 	First prototype in A2724	NATO TIDE Hackathon / NATO TIDE Sprint 1e place Joint Challenge   1e place Coding Challenge   1st place Modeling Challenge							Delta is authorized for use by Security and Defense Forces with a special Government decree	Receiving certification for information protection (KSZI) and DELTA launch
			NATO CWIX			MIP4-IES compatibility testing			VIP demo, compatibility testing	

ISTAR

Kyiv SC (Situational Centre)  SC-s along the front line of combat	Creation of the ISTAR Department in the UAF	300 ISTAR centres at different levels in the Security and Defense Forces of Ukraine
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Knowledge Management

Courses on C2IS and ISTA  10 first case studies of the combat experience  Prototype of the C4I CoE	
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# Providing strategic capabilities to a tactical level

# KEY PRIORITIES



## C2IS

(Command Control Information Systems)

### Information Systems

- Situational Awareness
- Command and Command
- Analytics and Artificial Intelligence



## ISTAR PROCESS

(Intelligence, surveillance, target acquisition and reconnaissance)

Integration of ISTAR practices and tools

Increasing effectiveness of targeting and intel processes

Integration of the Situation Centers, created at the NGOs initiative, into the ISTAR unit and making it a part of DF



## Knowledge Management

Studying the unique experience gained by our military and applying it to:

- Dissemination of successful tactics
- Training of service members
- Doctrine development and adaptation



## Robotic Systems

Supporting the development of autonomous systems to reduce human involvement in direct combat

# DELTA. SITUATIONAL AWARENESS SOLUTIONS AND SERVICES



## Functionality

The Delta integration platform provides comprehensive situational awareness tools and services to achieve operational advantages



Real-time tracking of enemy forces in the air, on land, at sea, and in cyberspace



For recognition, planning and coordination of tactical and strategic multi-domain operations



For comprehensive situational awareness

## Technologies and standards



Cloud based



AI



Video streaming



Open API



Zero Trust Security



FIDO-2 tokens



MDM

## ECOSYSTEM

**Delta.Monitor**  
COP system

**Delta.Monitor.App**  
Mobile Application for COP system

**Vezha**  
Video streaming platform

**Delta.Intelligence**  
Investigative and Reconnaissance AI-driven platform for real-time identification, verification and tracking of enemy forces

**Mission Control**  
NATO Sync Matrix for planning and control UAV-missions

**Element**  
Secure messenger

## Interoperability and Data

Battlefield management system

Radars

Commercial Satellites

Satellite trackers

Destruction Weapons

Robotic systems and trackers

Chat-bots

**CWIX interoperability** tested with:



**DELTA and NATO** exercise:



In June 2019, an unprecedented event occurred as non-NATO country's SOF-unit from Ukraine, employing Delta, received certification to join the **NATO Rapid Reaction Force**

**Delta team wins:** NATO EA Hackathon 2017, NATO TIDE Hackathon 2018

# OUR STRATEGIC AREAS OF FOCUS - ISTAR PROCESS IMPLEMENTATION



**Challenges in optimising the deployment of the intelligence collection tools**

**A multitude of intelligence sources and the sheer volume of information**

For example, only in COMINT 5 mln recordings per day

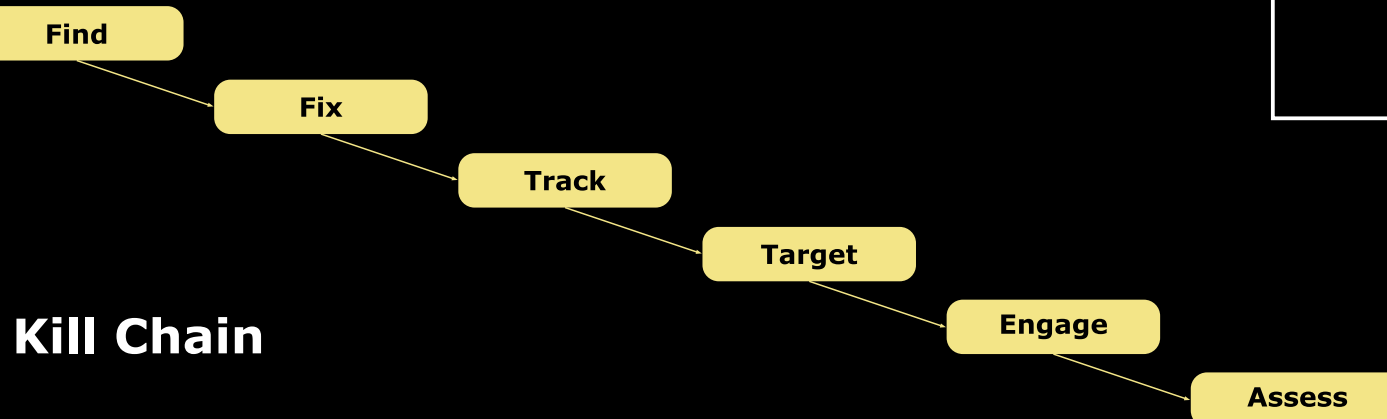
**The battlespace is transparent**

**The speed of decision-making based on data acquisition, and the planning of strike engagement**

Time for combat engagement decreased from 3-24h to 5-7 min

Target engagement

- 30% by artillery
- 70% UAVs





# OUR STRATEGIC AREAS OF FOCUS ROBOTIC SYSTEMS DRONE ID



## Project Objectives

The launch of a standardized data and command exchange between robotic systems and the DELTA situational awareness system.

## Impact on Ukraine's Defense Capability

Centralized UAV Command and Control:

- Real-time identification and tracking within DELTA
- UAV performance analysis
- Enhanced UAV mission planning
- UAV lifecycle management

## Key Tasks:

- Development of the communication protocol, reference documentation, and SDK
- Creation of a regulatory framework
- Support for protocol adoption by UAV manufacturers

## Achievements

Proof of Concept Complete

Solution is integrated in Delta





# OUR STRATEGIC AREAS OF FOCUS - KNOWLEDGE MANAGEMENT



## Strategic objective:

- Prototyping Centre of Excellence For Robotic Operations in partnership with MoD
- UAVs (Unmanned Aerial Vehicles)
- Ground robotic systems
- Surface (subsurface) robotic systems
- Automated combat control systems (including artificial intelligence)

## Activities

-  LI/LL for robotic operations
-  Defining training needs and developing training programs for units and military academies
-  Facilitating testing and providing feedback for producers
-  Solution concept development and verification based on capability development approach



## **Robots, not humans, should fight on the battlefield**

Our goal is to be a driver in integrating new technologies, approaches, and tactics into robotic operations.

# UKRAINIAN NGOS

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Reform Support Office  
Dignitas  
Boreviter

Dronarnia  
DrukArmy  
Come Back Alive Foundation

Serhiy Prytula Foundation  
Serhiy Sternenko Foundation  
Technological Forces of Ukraine

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**Thank you**