
IRON

DUAL USE TECHNOLOGIES IN
UKRAINE



IRON – defense tech cluster based in Lviv, Ukraine, bringing together defense companies and startups to accelerate their growth and scale their impact and through battlefield validation international defense cooperation.



IRON in numbers

80

companies innovate in robotics, electronics, communications, and unmanned systems for the frontline

\$282M

production output of our companies in 2024

22

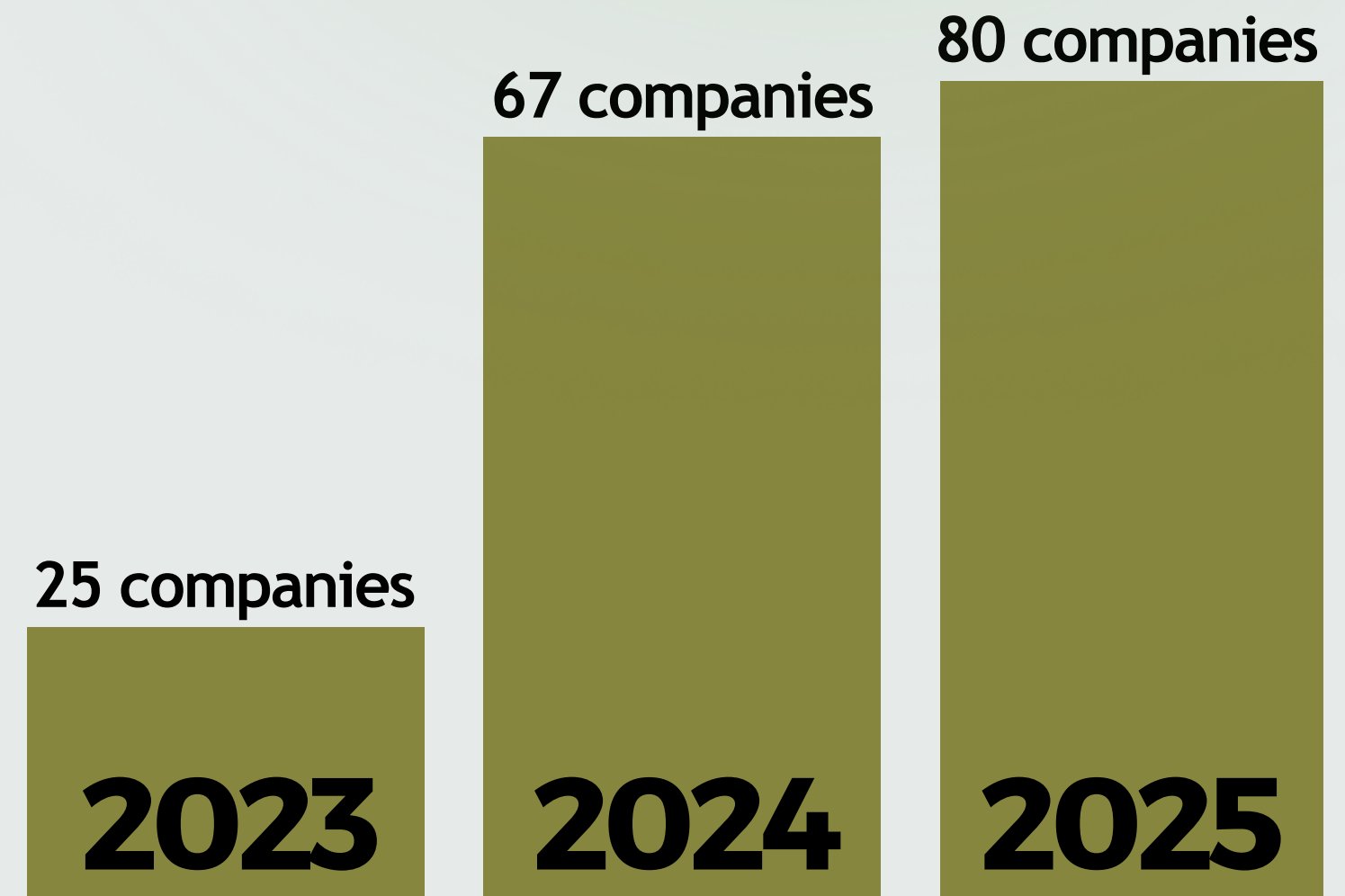
chains of added value

8+

million USD of attracted investments and grants for IRON members

4000+

people in our community



UKRAINIAN DEFENSE TECH MARKET

- LARGEST DRONE MARKET IN THE WESTERN WORLD: 4.5 MILLION DRONES ARE TO BE PRODUCED IN 2025

- SHORTEST PATH FROM IDEA TO DEPLOYMENT: UP TO 6 MONTHS

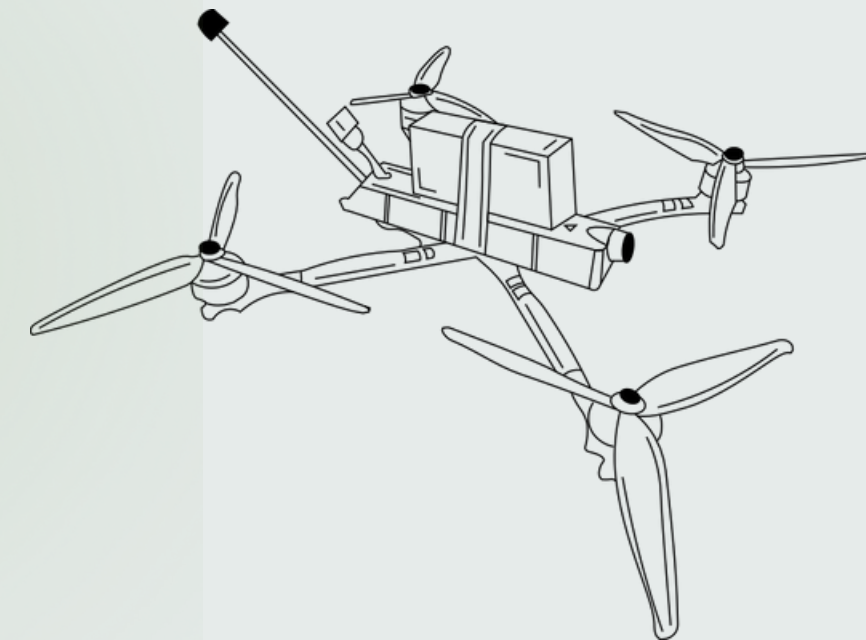
- THE FUTURE OF WARFARE IS BEING DEFINED IN UKRAINE: ON LAND, IN THE AIR, AND AT SEA ALONG A 3,200-KILOMETER FRONTLINE

- EUROPE'S FASTEST-GROWING INDUSTRY: OVER 300,000 PEOPLE WORKING ACROSS 800+ COMPANIES ON 3,500+ DEFENSE TECH PROJECTS

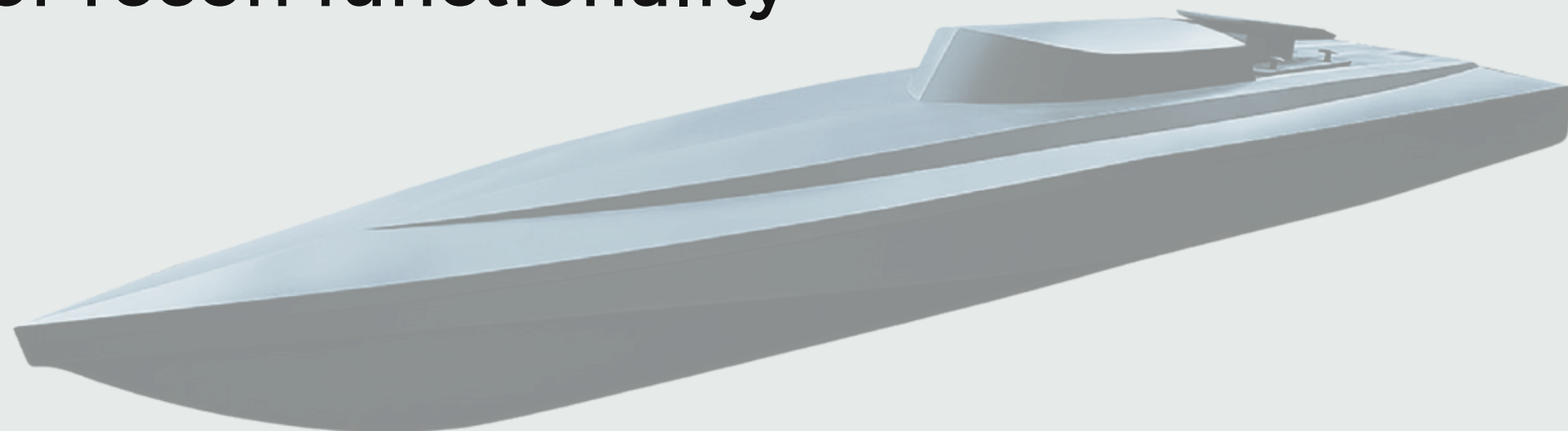
The power of unmanned systems

Unmanned systems offer an asymmetric, cost-effective response to traditional armored threats

Operation "Spiderweb" is an example of cost asymmetry and a new type of war



- Drone-based payload delivery systems
- Guided munitions for various platforms
- AI-based decision support systems
- Containerized drone launcher systems and remote-control stations
- Loitering munition
- Drone swarms
- Large-caliber and anti-aircraft turrets
- Energy-directed weapons
- Robotic assault UAVs
- Autonomous weapon systems
- Interceptor drones to neutralize enemy UAVs
- Robotic ground platforms with strike or recon functionality



WARCHANGERS



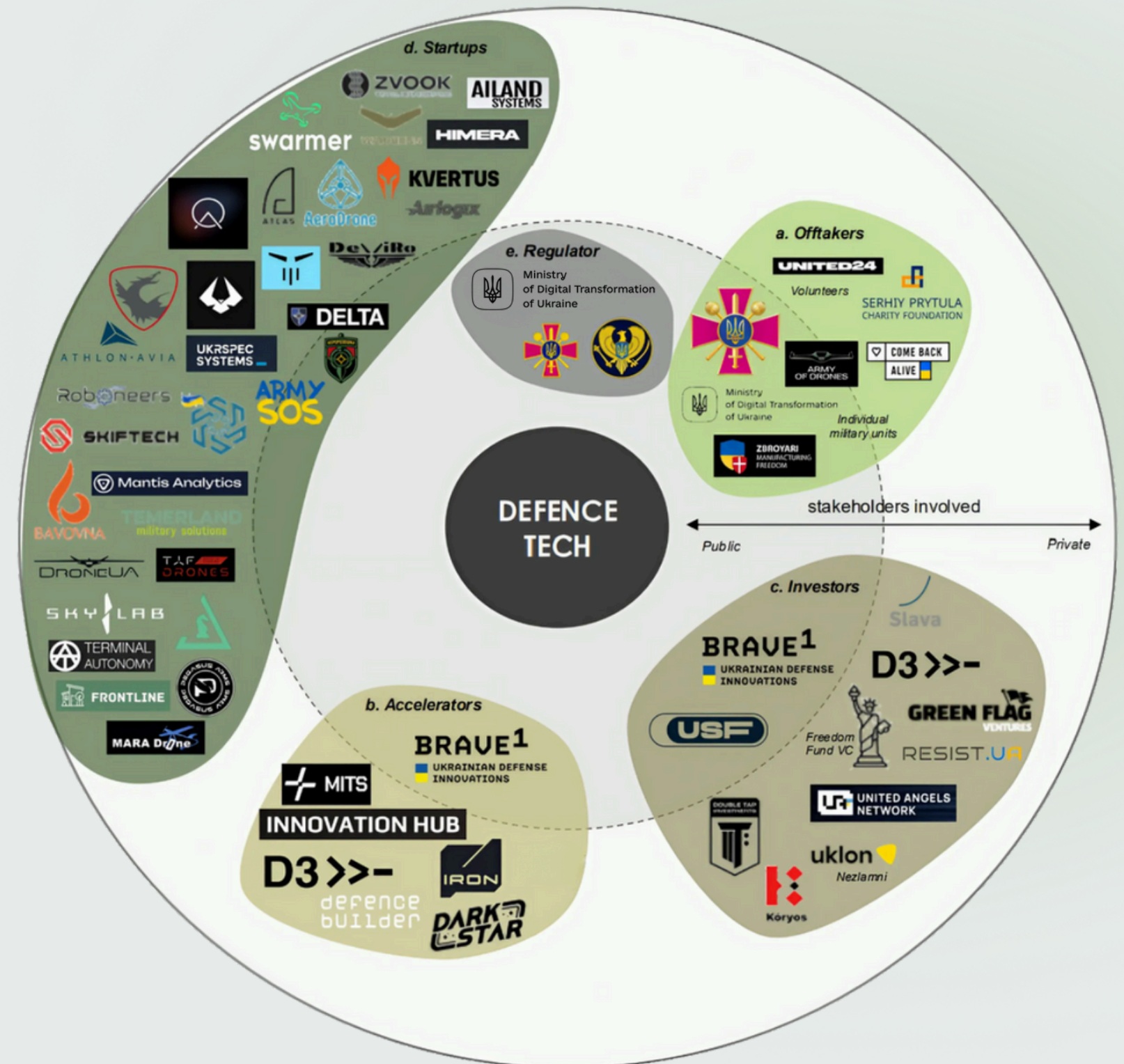
- Water drones
- UAVs for ISR-strike missions
- Automated artillery fire control methods
- UAV-mounted guided bombs and reactive KABs
- navigation and communication for GNSS denied Environment
- Surface-to-air and man-portable air-defense missiles
- Rockets and missile systems
- Air defense systems
- Counter-UAV tools and jammers

ROBUST DEFENSE TECH ECOSYSTEM

➤ A well-developed network of government support mechanisms covering all stages of company growth

➤ Comprehensive support infrastructure for entry-stage startups, including accelerators, venture funds, industry associations, and ecosystem enablers.

➤ Unique market competition model: a high number of equally positioned small players with no oligopoly over key innovation domains.



IRON PARTNERS

● international partners

 DI Forsvar & Sikkerhed

 ASD
AeroSpace and Defence Industries Association of Europe

 Dih

 BSDi
BELGIAN SECURITY & DEFENCE INDUSTRY powered by AGORIA

 SAFE

 BACC
Baltic Automotive Components Cluster

 CenSec
CENTER FOR DEFENCE, SPACE & SECURITY

 ODENSE robotics

● Universities

 ZHYTOMYR POLYTECHNIC STATE UNIVERSITY

 KSE | Kyiv School of Economics

 KAI

 UKRAINIAN CATHOLIC UNIVERSITY

 NATIONAL UNIVERSITY LVIV POLYTECHNIC

● Government

 Lviv city council


 BRAVE¹
UKRAINIAN DEFENSE INNOVATIONS


 Ministry of Digital Transformation of Ukraine


 MINISTRY OF DEFENCE OF UKRAINE

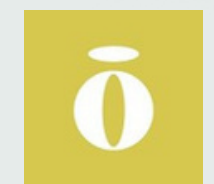
 MINISTRY OF STRATEGIC INDUSTRIES OF UKRAINE


● Investors

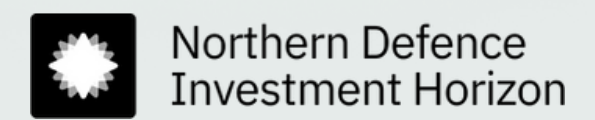
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 MIT

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 DOUBLE TAP INVESTMENTS

 Northern Defence Investment Horizon

LEVERAGING UKRAINIAN EXPERIENCE

DOCTRINE KNOW-HOW

UKRAINE IS SHAPING REAL-WORLD TACTICS, TECHNIQUES, AND PROCEDURES (TTP) FOR DRONES, ELECTRONIC WARFARE, AND SOFTWARE-DEFINED OPERATIONS IN THE FIRST LARGE-SCALE DRONE WAR

PRODUCT KNOW-HOW

UKRAINIAN TEAMS ARE RAPIDLY DEVELOPING AND ITERATING COMBAT- PROVEN, SOFTWARE-ENABLED, AND COST-EFFECTIVE DEFENSE TECHNOLOGIES

INDUSTRIAL BASE

A DIVERSE AND SKILLED INDUSTRIAL BASE ENABLES MASS PRODUCTION ACROSS VARIOUS FORMATS, DESIGNS, AND COMPANY SIZES

ENGAGING WITH UKRAINE'S DEFENSE ECOSYSTEM

➤ FOR MANUFACTURERS

- Set up local operations in Ukraine to stay close to battlefield needs and real-time feedback.
- Launch joint ventures and collaborative R&D initiatives with Ukrainian partners.
- Integrate Ukrainian solutions into your own products and bring your solutions into the Ukrainian ecosystem for mutual enhancement.

➤ FOR GOVERNMENT

- Procure Ukrainian defense technologies (e.g., following the Danish model).
- De-risk the sector by providing guarantees for private investments in Ukrainian defense tech.
- Deploy “lessons learned” missions to extract operational insights from Ukraine’s experience.
- Support joint R&D and analytical programs to drive innovation and shared knowledge.

➤ FOR OTHER PLAYERS

- Invest in Ukrainian defense tech startups.
- Facilitate partnerships between Ukrainian and international manufacturers to co-develop or scale solutions.
- Support research and development, particularly in unmanned and autonomous systems.

Voucher programs | results

1,5

Millions of USD
allocated from the
local budget in 2024

39

Manufacturers
received financial
support

57

Vouchers were
received by
defense companies

12 500 USD

For equipment

31 manufacturer received
financial support in 2024

25 000 USD

**For prototypes to be
sended to the frontline**

In 2024, 15 companies
received compensations

50 000 USD

For R&D

This year, 8 local
manufacturers got grants

IRON DEMO | results

20

**Manufacturers
showcased their
products**

300

**Guests at the
event, including**

manufacturers, military units,
government representatives, and
charitable organizations.



20 companies

8 companies

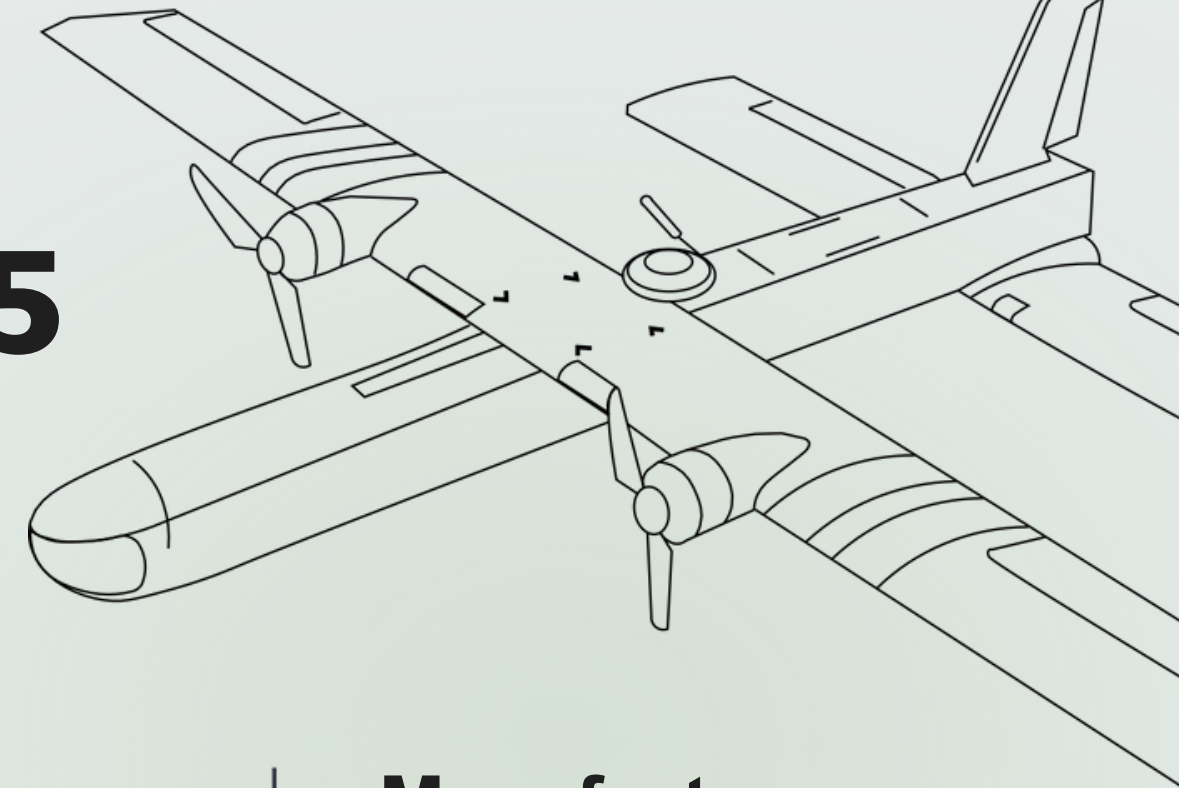
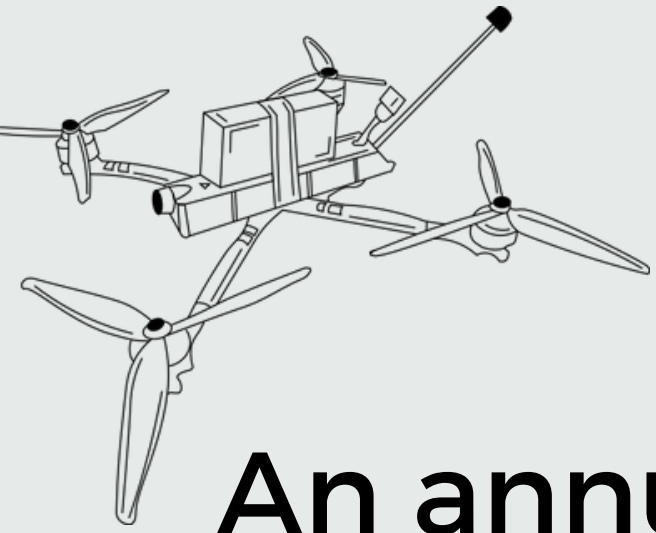
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**Participants
showcased their
products in
action.**

2023

2024

IRONDEMO 2025



An annual two-day industry exhibition on August 1-2 that brings together defense companies showcasing various innovative weaponry prototypes

80+

Manufacturers
will showcase
their products

1000+

Guests at the event

including manufacturers, military units,
government representatives, and
charitable organizations



PRE REGISTER FOR IRON DEMO 2025

● Smart munition

● Other components

● UGV

● EW systems

● UAV

● Electronics



IRON

**SHOUL YOU HAVE ANY
QUESTIONS, PLEASE CONTACT
US**

 cherniuk@ironcluster.org

