

HEDI



EDA limited | EDA and pMS eyes only

INNOVATION IN DEFENCE

Security and Defence perspectives for
Luxembourg investors – 27 March 2025



EDA CORE MISSION

Intergovernmental Agency
of the Council of the European Union



Established in 2004
Based in Brussels



Interfacing with
EU civilian and
defence policies,
voicing Ministries
of Defence's joint
positions

Identifying shared needs and priorities at EU level
to ensure that EU Member States' armed forces
have the capabilities they actually require

Enabling
collaborative
defence research,
technology, and
innovation, to
prepare the future
of EU defence

Aggregating demand
towards joint procurement,
to fill capabilities shortfalls

Harmonising requirements and engaging
in joint capability development, while
ensuring interoperability



2023 EU Capability Development Priorities



LAND

- › Ground Combat Capabilities
- › Land Based Precision Engagement
- › Future Soldier Systems



AIR

- › Air Combat Platforms & Weapons
- › Airborne Command & Inform Capabilities
- › Integrated Air & Missile Defence
- › Air Transport



MARITIME

- › Naval Combat & Maritime Interdiction
- › Underwater & Seabed Warfare
- › Maritime Domain Awareness



SPACE

- › Space Operations
- › Space Services



CYBER

- › Full Spectrum Cyber Defence Operations Capabilities
- › Cyber Warfare Advantage & Readiness



STRATEGIC ENABLERS & FORCE MULTIPLIERS

- › Electro Magnetic Spectrum Operations (EMSO) Dominance
- › Persistent & Resilient C4ISTAR
- › Military Mobility
- › Critical Infrastructure Protection & Energy Security
- › Sustainable and Agile Logistics
- › Medical Support
- › Chemical, Biological, Radiological & Nuclear (CBRN) Defence
- › Cohesive & Well-Trained Militaries

RESEARCH & TECHNOLOGY

MAIN R&T CONTRACTING TOOL:

- ▶ Cat B projects funded by Member States, Bottom-up initiatives (Opt In)

Many R&T projects in EDA create the **foundation** for industrial proposals in EDF

EDA manages several EDF projects on behalf of the European Commission to facilitate integration into the Relevant networks and possibly uptake results into other activities

R&T MANAGEMENT TOOLS:

- ▶ Technology assessment and prioritisation:
 - **Strategic Research Agendas (SRA)**
 - **Overarching Strategic Research Agenda (OSRA)**
 - **Technology Building Blocks (TBBs) Roadmaps**

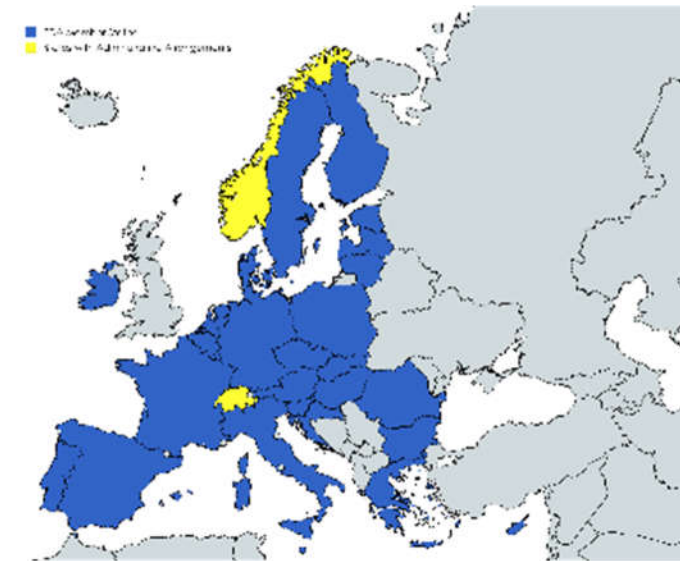
LUXEMBOURG R&T AD HOC PROJECTS

Luxembourg participation in R&T Ad Hoc projects:

- **17 ongoing projects (total value: € 74,3 million)**
- Luxembourg participates in **16,6%** of all projects under execution
- **5 projects under preparation**
- Luxembourg participates in **14,7%** of all projects under preparation

CapTechs with active Luxembourg participation:

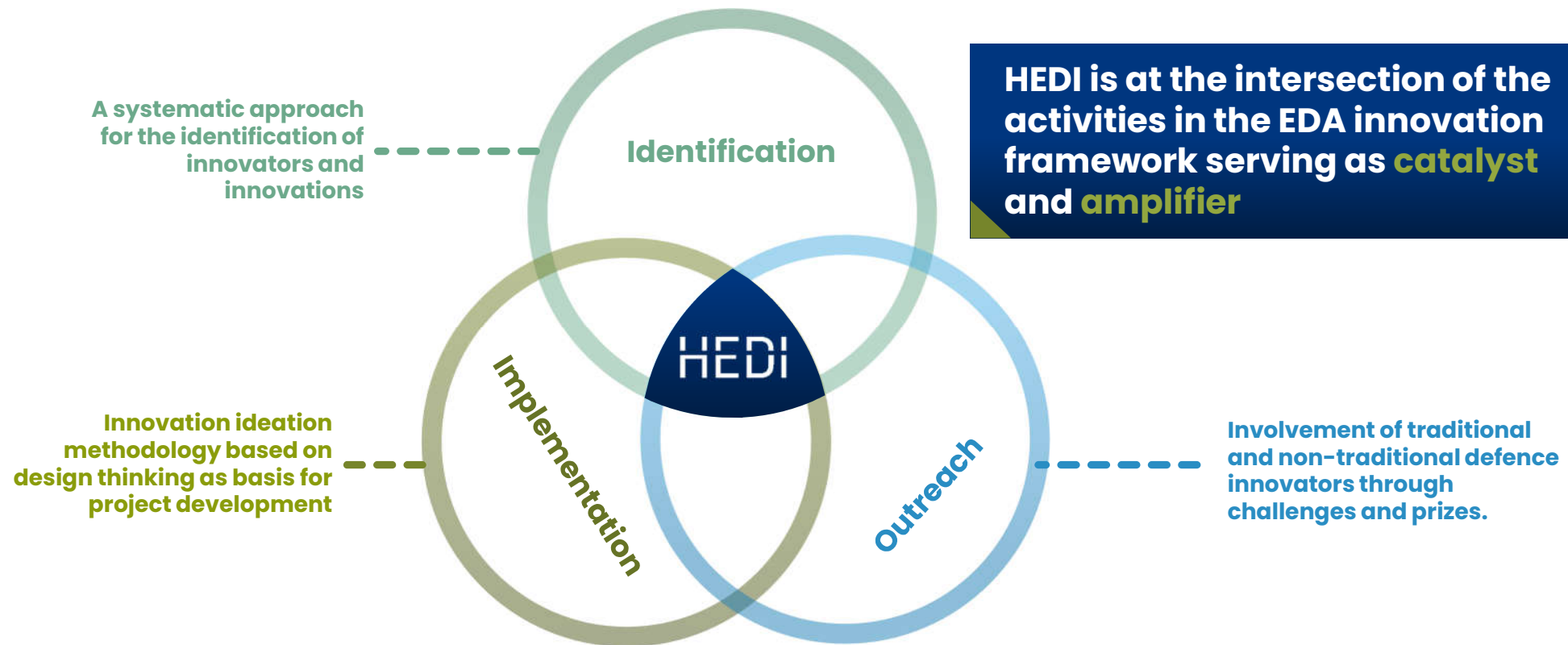
- **Luxembourg is active in 9/15 CapTechs:** Air, CBRN, Energy, Land, Maritime, Materials, Optronics, Simulation, and Space



www.eda.europa.eu

EDA Innovation Framework

Creating added value for military capabilities



HEDI 2.0 – EVOLUTION OF THE PORTFOLIO



Defence Frontier Insights

Identifying and analysing the latest advancements and new players in the defence sector.
Generate key insights and actionable intelligence.



HEDI Innovators Forge

Support **maturation** of groundbreaking innovations for the defence sector to transform promising concepts into impactful solutions



Uptake of Innovation - Experimentation Highways

Expand the **experimentation** toolbox to develop blueprints for the rapid adoption of emerging capabilities.



Common Picture

Platforms for exchanging best practices, create networks and exchange on defence innovation (e.g., EDIN network, engagement with MS and AC)

European Defence Innovation Days

Organization of a high-level event uniting European innovators, exhibition spaces and talks by leaders in Defence Innovation.



EXAMPLE OF HEDI'S CATALYST ROLE

The domain selected for the first Innovation Project under HEDI in **2023** was Space:
Innovative VLEO satellite system for defence applications

- Two projects funded by HEDI – one year development, less than 1 million euro in total.
- Follow-up project in the CapTech Space **signed in 2024** → **In orbit demonstration expected within 2026**
- **HEDI's catalyst role demonstrated: From ideation to launching satellites in less than 3 full years!**

06 MARCH 2024

European satellite constellation for very low earth orbit to launch in two years

in [Twitter](#) [Facebook](#) [LinkedIn](#)

GEDA



EUROPEAN DEFENCE INNOVATION DAYS 2025

Building Tomorrow's Capabilities Today:
From Innovation to Fielding



3 DAYS OF
PROGRAMMING +
MAKEATHON



800 IN-PERSON
PARTICIPANTS



30+ SPEAKERS



80+ EXHIBITION
STANDS



3 BREAKOUT
SESSIONS

HEDI



HEDI OPEX



First EU Defence Innovation Operational Experimentation Campaign:
Agile Field Testing with Emerging Technologies



Development of a **Blueprint for the Rapid-Adoption of UAS/UGS for X-Domain Logistics**



Immersive collaborative and intensive field-testing environment with key stakeholders (Host MS, Industry, Experts MS, UA)

Host Member State: **ITALY**  Hosting Entity: **Italian Army / NAD**

OPEX Campaign General Structure:

09 – 13 JUN 25 //

TIER 1



Single platform / Single Domain

16 – 24 JUN 25 //

TIER 2



Multi platform / Single Domain

09 – 15 JUL 25 //

TIER 3



Multi platform / Cross Domain

SIMULATION OF DDIL / CONTESTED ENVIRONMENTS

PASSIVE
Environmental

PASSIVE/ACTIVE
Mutual/Low Interference

ACTIVE
Medium/High Interference

AUTONOMOUS LOGISTICS THE BACKBONE OF THE FUTURE BATTLEFIELD

The first EU Defence Operational Experimentation Campaign will be focused on Autonomous Systems for Cross-Domain Logistics (Air and Land)

Rome - Summer 2025

FIELD-TESTING NEXT-GEN TECHNOLOGIES AT
THE SPEED OF RELEVANCE

ACCELERATING THE RAPID-ADOPTION OF
FUTURE-PROOF CAPABILITIES



Thank you for your attention

