



Supporting the Luxembourg Defence Industry and Research



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère des Affaires étrangères
et européennes, de la Défense, de la
Coopération et du Commerce extérieur

Direction de la défense



- **Objective: Strengthen collective defence and deterrence capabilities:**
 - Essential to maintain technological superiority
 - Industry and research centers are key players
- **LU small in size** but industry with **excellent technologies** and dynamic innovation ecosystem
- LU defence industry characterized by **high-tech industries in niche sectors** rather than military equipment manufacturing:
 - Focus of our support :
 - foster innovation and maintain the technological edge :
Allocation of over 2% of its defence budget to R&D since 2023
 - Facilitate and support companies and research centers in integrating the defence supply chains



- Get a **deeper understanding of LU Defence Ecosystem**
- Give **visibility and credibility** to our companies and research centres
- **Strengthen collaboration** with ministries (Meco, Directorate of foreign affairs, MRHE), organizations such as LXI and the NRF, as well as the private sector
- Help LU actors to **access EU and NATO innovation and acquisition programs**
- **Promote LU's defence industry** at national and international level



- **LU industrial base has grown** not only with established companies but also new players who have dual-use technologies which they can offer to defence
- **Catalogue** on Defence Industry & Research Capabilities
 - **Operational domains:** LAND, AIR, SPACE, NAVAL, CYBER
 - **Main sectors** active in Security & Defence:
 - **Space and Information superiority** (SatCom, EO, SSA, Data Exploitation, Cyber, AI and autonomous systems, Space hardware)
 - **Cyber and Digital Transformation** (Cyber, Supercomputing, Post-Quantum, AI; Autonomous Systems)
 - **Materials and Manufacturing** (additive manufacturing and 3D printing, ultra-light weight, composite materials, hard materials solutions, digital design optimization)



- Directorate of Defence (DoD) has set up a **collaboration in 2020 with Luxinnovation (LXI)** to:
 - Create a **security and defence community (SDC)**
 - **Support Integration of LU Industry and Research into the European Defence Value Chain & facilitating their access to EU and NATO innovation and procurement programs**
 - Promote LU Industry and Research capabilities for security and defence at national and international level
- Collaboration with MECO, MRHE, LXI & NRF to launch R&D calls in the defence sector



➤ National Joint Defence Calls

- **Joint initiative** between DoD, MECO, MRES, NRF and LXI
- **Aim** : Development and validation of innovative dual-use defence solutions & support LU Industry in getting access to the defence market
- **Focus** on dual-use technologies for defence (TRL 2-6)
- **Thematic calls** for projects focusing on dual-use capabilities:
 - **2022** call focused on dual-use capabilities in the fields of Space and Materials (Land, Air, Space)
 - **2024** call focused on dual-use capabilities in the fields of "Smart Mobility," (Land, Air, Space), "Resilient infrastructures (Cyber, Space)," and "Strategic Foresight & Climate Change (Land, Air, Space)"
- **Funding** for collaboration between industry and research institutions : €9.5mio in 2022 and €13.8mio in 2024



European defence Agency (EDA)

- EDA brings together member states and European industry to **organise, plan and develop the required military capabilities**
- EDA has established Capability Technology groups ('CapTechs') to:
 - undertake **research & technology activities** in response to agreed defence capability needs
 - **Identify technology gaps and common areas of interest for cooperation**
- Cofinancing by Dod & active participation of Luxembourg in **CapTech Working groups** with Governmental experts and 50 companies
- Since 2021: over 15 ongoing projects



European Defence Fund (EDF)

- **EU funding program for R&D projects** which aim to deliver **cutting –edge defence technologies**
- **Promotes cooperation** between companies and research actors throughout the Union
- **DoD co-finances development projects & actively encourages** LU industry and research organizations to engage in this program
- Number of **LU entities participating** steadily **increasing**:
 - **2021 EDF call**: 9 LU entities submitting 13 proposals
 - **2024 EDF call**: 20 LU entities submitting in 28 project proposals



NATO Innovation Fund (“NIF”)

- Established in 2022, and **headquartered in LU**, NIF is a standalone **deep-tech VC fund**, backed by 24 NATO Allies
- **Invests in cutting-edge science and engineering startups** to strengthen the defence, security and resilience
- **NIF budget: € 1 billion**
- LU reinforced its **strong support** for this strategic initiative by **committing €28 million over the fund's 15-year lifespan**



Diana (Defence Innovation Accelerator for the North Atlantic)

- Supports start-ups in developing cutting-edge capability solutions by providing them with resources, networks and guidance
- **LU joined the network** last year:
 - LU companies gain **access to 23 accelerators and 182 test centres across 32 NATO countries**
 - Integration enhances **company visibility** and fosters **international collaborations**
- **Technoport** acts as **central accelerator**, supported by **test centres** like the Luxembourg House of Cybersecurity, the Luxembourg Space Test Centre or the Quantum Communication Infrastructure Laboratory



- Participation to **fairs**, support and establishment of national **pavillions** (e.g Eurosatory in 2024, 2025 Paris Air Show)
- **Events** (Luxembourg Defence Technology and Innovation Day)
 - Showcasing Luxembourg Industry and Research capabilities
 - Bringing together defence stakeholders
 - Creating networking opportunities & encouraging exchange of best practices
 - Fostering partnerships



Thank you!