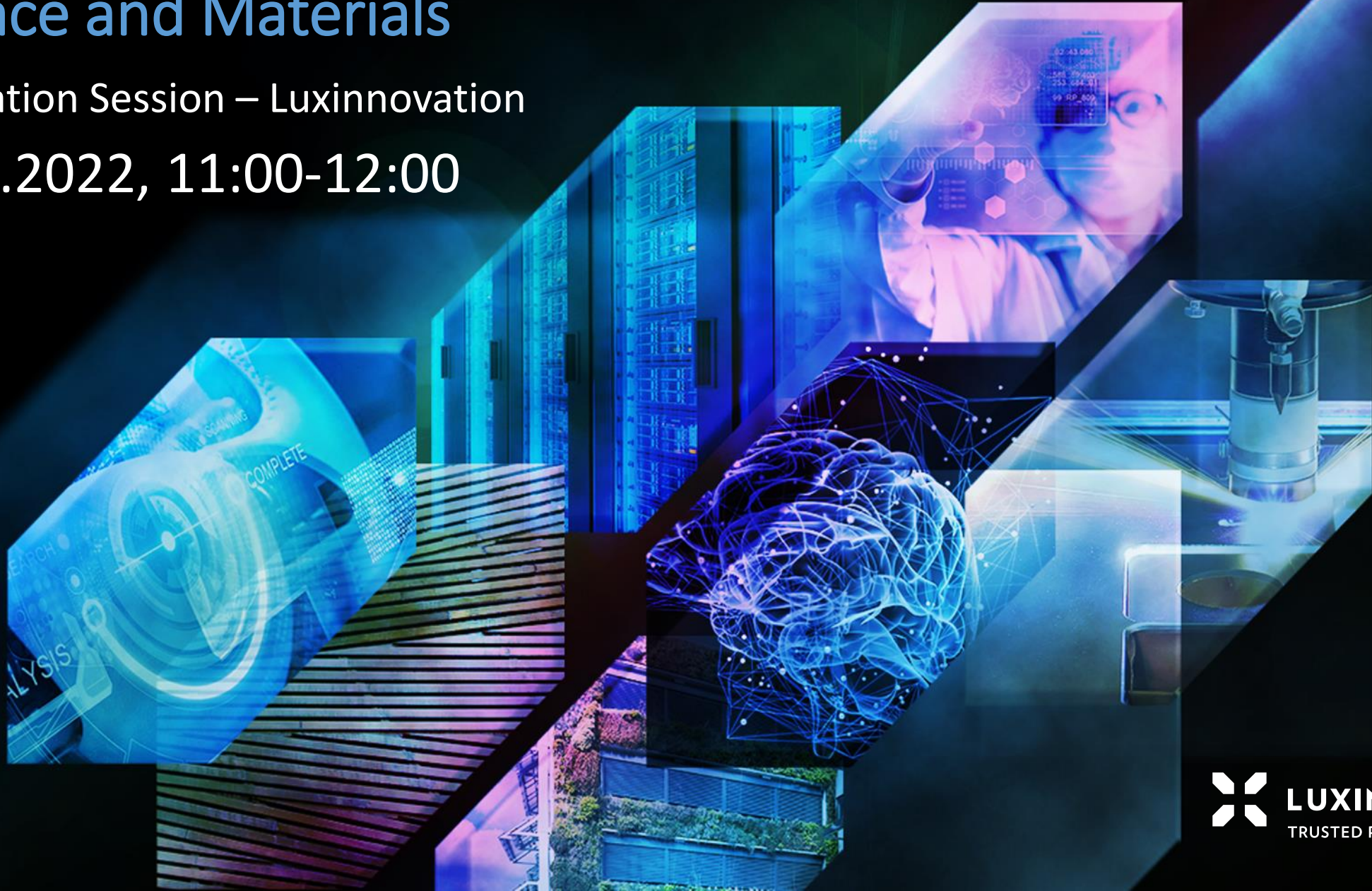


Joint Defence Call 2022 on dual-use technologies in Space and Materials

Information Session – Luxinnovation

10.06.2022, 11:00-12:00



LUXINNOVATION
TRUSTED PARTNER FOR BUSINESS

Agenda

- **Introduction: Joint Defence call 2022 – 10 min**
Speakers: Marco Walentiny (Ministry of the Economy)
Richard Nakath (National Research Fund-FNR)
Colonel Guy Hoffmann (Directorate of defence, Ministry of Foreign and European Affairs)
- **Research industry collaboration platform: mission and objective – 5 min**
Speaker: Benjamin Questier (Luxinnovation)
- **Presentation of the Defence call for proposals on “Space” and “Lightweight Materials” – 25 min**
Speakers: Alexander Link (Luxinnovation)
Richard Nakath (FNR)
- **Luxinnovation Support – 5min**
Speaker: Eric Lauer (Luxinnovation)
- **Q&A - 15min**

Who is Who in the Joint Defence Call



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère des Affaires étrangères
et européennes

Direction de la défense

Granting authority (VETO rights)



Luxembourg National
Research Fund

Granting authority for Research Organisations (R&D grants)



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Économie

Granting authority for Companies (R&D aid schemes)



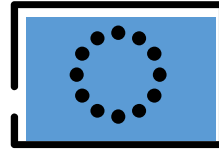
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#MakingInnovationHappen

Defence Industry Community Manager
Research Industry Collaboration Platform Manager

LXI Mission on Defence Industry Activities



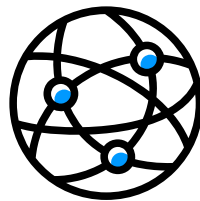
Support national initiatives enabling industry to be recognised by the LU Directorate of Defence



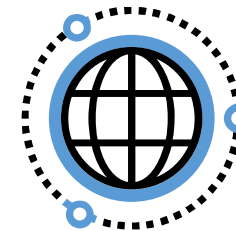
Support LU industry to integrate the EU Defence value chain (EDA, EDF) through direct contact with EU MoD and Prime Contractors



Support LU industry in getting access to NATO procurements programs



Foster the creation of defence industry community within Luxembourg's priority sectors



Promote Luxembourg's Technology capabilities in the defence domain at international level

Why a joint defence call?

National Joint Defence



Innovative
LU industry



Luxembourg
Directorate of
Defence (DoD)

Thriving Industry (Companies and research organisation) in Luxembourg's priority sectors (Space, Materials, CleanTech, Cyber, etc..) to obtain first R&D contract with the Luxembourg DoD



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère des Affaires étrangères
et européennes
Direction de la défense



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Économie



Luxembourg National
Research Fund

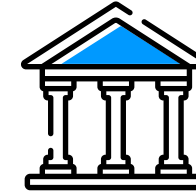


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European Defence Supply Chain



Prime
contractors



Ministries of
Defence (MoD)

France, Germany, Italy, Spain, Sweden, UK - account together for more than 80% of defence spending and 95% of defence R&D investment in the EU



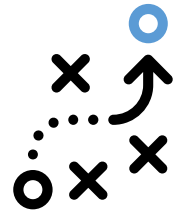
Call objectives – in a nutshell

Development and validation of **innovative dual-use defence solutions potentially benefiting the national defence forces, international defence organisations (EDA, NATO), the defence forces of allied nations, as well as civilian research and local industry.**



Dual use

Creating new knowledge
Adapt existing technology



Flexibility

Both individual and collaborative possible
Bottom-up call
(Space and Lightweight materials)



National industry

Get recognition from Directorate of Defence
Strengthen national innovation capacity
Prepare Industry to EU Defence Ecosystem



Research & Development

All development stages up to the
prototype development can be
targeted (TRL 1-6)

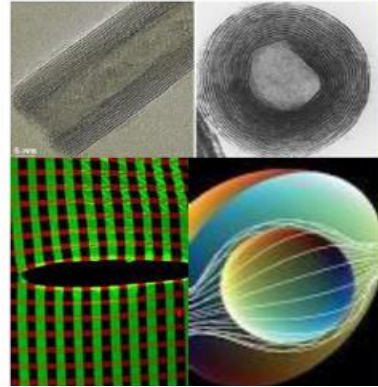
Call topics and targeted R&D activities

Technology domains



Space

- Satellite communication
- Earth Observation and Reconnaissance
- Space Situational Awareness (SSA) and space operations
- Data processing



Materials

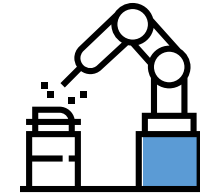
- Lightweight structures and composite materials

R&D Maturity levels



Research

- Generating knowledge
- Integrating knowledge
- Studies
- Design



Development

- Feasibility studies
- Design
- System prototyping (enabling identification of potential prime contractors)

Eligibility criteria

Companies

Only **private enterprises registered in Luxembourg** are **eligible** for direct funding by the Ministry of the Economy.

The company:

- Must demonstrate its **viability and financial soundness** regarding its contribution to the project
- Shall demonstrate the **positive impact of the expected project outcome** on its growth and future assets

Ineligible companies

Undertakings in difficulty

For all companies (excluding SME < 3 year of existence), if more than half of subscribed share capital (share premium included) has disappeared as a result of accumulated losses.

Example of an **undertaking in difficulty**:

Own funds of €50k
Share capital of €200k

Research Organisations

Research organisations must be eligible under article 3-(2) of the FNR statute (Loi modifiée du 31 mai 1999 portant création d'un fonds national de la recherche dans le secteur public) and be registered at the FNR.

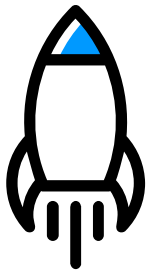
Funding conditions: Ministry of the Economy (MECO)



R&D aid schemes for companies



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Ministère de l'Économie



35% upfront
payment (call
specific)



Max 700k EUR per project
(for individual and
collaborative projects)





Aid rates between
25% and 70% (size
technological
challenges)



15% top-up (aid rate) in
case of collaborative
projects

Ministry of the Economy - RDI aid schemes

- Aid intensities

		Maximum aid intensities <i>(effective aid intensity is below the maximum)</i>	Large Enterprise	Medium-sized Enterprise	Small Enterprise
R&D aid scheme	Experimental development <ul style="list-style-type: none"> Development of a solution 	Collaboration bonus: + max 15% in case of an effective collaboration <i>(with a maximum of 80%)</i>  or 	≤ 25%	≤ 35%	≤ 45%
	Industrial research <ul style="list-style-type: none"> Acquisition of new knowledge No direct commercial application 		≤ 50%	≤ 60%	≤ 70%

Possible mix of Exp. Development and Ind. Research Work Packages

Funding conditions: National Research Fund (FNR)



R&D aid schemes for research organisations



Max 500k EUR per project
(individual and collaborative
projects without companies)



Max 700k EUR per project
(collaboration with
companies)



Aid rates up to 100%

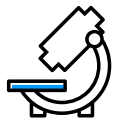
Funding conditions: FNR/MECO use cases

Individual application



Company

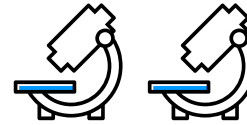
Max state aid
700k EUR per
project



Research organisation

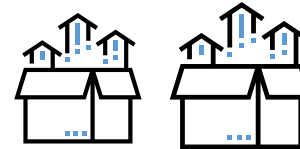
Max grant
500k EUR per
project

Collaborative application



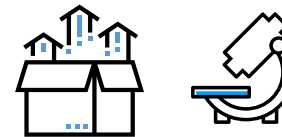
Two (or more)
Research organisations

Max grant
500k EUR per
project



Two (or more) Companies

Max state aid
700k EUR per
project



Company + Research
Organisation

Max grant
1.400.000 EUR
per project

Individual and **collaborative** projects proposals are possible

Collaborations are eligible in **any combination**
(private-public, private-private, public-public)

Submission & Evaluation process: call timeline

03.06.22

29.07.22

5.09.22

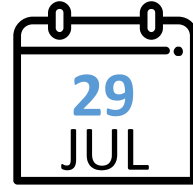
28.10.22

28.02.22

PHASE-1 Project Outline (PO)		PHASE-2 Full Project Proposal (FPP)	
Submission	Evaluation	Submission	Evaluation
(1) PO submission on the research-industry collaboration platform	(1) PO review by granting authorities (2) Eligibility and financial viability check by LXI (3) GO/NO GO decision , including potential recommendations, towards PHASE-2	(1) Coaching LXI for companies (2) FPP submission on - MyGuichet (companies) - FNR grant system platform (research organisations)	(1) Review by Independent expert panel (IEP) (2) Recommendation on projects for award decision (3) State aid Commission for company projects (4) FNR/MECO Joint Funding decision

Submission & Evaluation process : Qualification for PHASE-1

Pre-selection criteria



All

- Alignment with the call text (dual use, TRL1-6, etc)
- Eligibility with regard to state aids
- Completeness of compulsory information



Companies

- Co-funding capacity

Ensure that the **project costs** are **adapted** to your **co-funding capacity**



Compulsory documents (annexes on platform)

All

- Project description and cost estimation (on platform)
- Declaration of honour (**NATO** and **EU EEA/EFTA Countries**)
- Curriculum Vitae

Companies

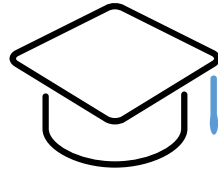
- Organigram - full visibility on the shareholder structure (up to the ultimate beneficial owner)
- 2020/2021 accounts of the applicant(s)
- Business plan and simplified cash-flow (for start-ups only)

(check full list in the call text)

Submission & Evaluation process : Evaluation in PHASE-2



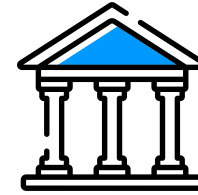
Full project proposal (FPP) submitted at MECO and FNR



Review of all FPP by an independent expert panel (IEP)



Recommendation on projects to be awarded



State aid commission consultation for projects with companies

Evaluation criteria
of the call for proposals
on dual use defence
solutions (next slide)

Evaluation & Submission process : IEP Evaluation in phase-2

- **Relevance**

- project idea -clarity and pertinence of the objectives
- level of innovation and soundness of research approach
- relevance with dual use and defence applications

Check full list of
evaluation criteria
within call text!

- **Impact**

- added value for defence purposes / addressing market opportunities in the defence sector
- soundness of the business plan (economic exploitation of the project results)
- exploitation and dissemination of the project results translated into assets
- ambition of being recognised as Luxembourgish Tech Provider within EU defence supply chain

- **Implementation: quality and efficiency of the project plan**

- coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources
- competences, experience and complementarity
- if applicable, level of ambition in the collaboration and commitment of the participants
- management structures and procedures, quality of the risk management plan and soundness of the risk mitigation plan

Luxinnovation Support – defence call

Phase-1

- Awareness raising on eligibility and financial viability checks
 - Q&A sessions
 - Completeness check



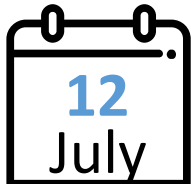
Phase-2

- Stress test (company/project)
 - innovative nature
 - business model/ exploitation plan
 - financial capacity of the company
 - (eligibility criteria)
- Accompanying project measures
 - intellectual property
 - project scope and structure
 - competences and relationship building
 - project financing (subsidies, loans, etc)

Luxinnovation Support – Save the dates



- Shareholder Structure and accounts – how to consolidate data?
- Project costs – how to estimate?
- Q&A



- Cofunding capacity – how to assess own capacity with regards to total project costs?
- Cash-flow forecast (for start-ups only)
- Q&A



- Completeness check
- Q&A

Login

Your email address

alexander.link@luxinnovation.lu

Password

••••••••

Stay signed in

[Forgot your password?](#)

Login



No account yet?

Create your account to benefit from all the functionalities of the platform and be able to interact with the listed organisations.

Sign up

Step: 1

Create your account on

<https://research-industry-collaboration.lu/>



Step: 2

Select the Joint call Defence

Step: 3

Defence

Joint call Defence



The Directorate of Defence of the Ministry of Foreign and European Affairs, the Ministry of the Economy, the National Research Fund and Luxinnovation join forces to offer a new funding opportunity to enterprises and research organisations (“Stakeholders”) looking to develop defence technologies (products, services and systems). Collaborations between enterprises and research organisations are encouraged.



Starting date
03 June 2022



Application deadline before
29 July 2022

Contact

Alexander Link

Table of contents

- 1. Goal of the call



View all the ideas being explored

To have access to all the ideas already proposed, you need to log in.

[Browse ideas >](#)

Browse existing project ideas



Do you have a project idea you would like to explore?

Tell us about it! We will help you to get in touch with the right partners for the realisation of your idea.

[Share an idea >](#)

Find partner for your project idea



Do you have a concrete project you would like to start?

Do you have a project idea and have already identified project partners? Apply right now.

[Apply >](#)

Create your application for phase-1

Thank you!



Create your projects on the [research-industry collaboration platform](#)

Questions on joint call to be addressed at contact@research-industry-collaboration.lu

Questions related to research organisations:
<https://www.fnr.lu/funding-instruments/joint-call-defence/>

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