

Info Day 25 Jan 2024



DEFRA call 2024



Programme

08:30 Registration and coffee

- 09:00 General introduction
- 09:15 DEFRA: context and objectives
- 09:30 Two testimonies
- 10:10 Q&A
- 10:20 Coffee and network opportunities
- 10:50 Content of the 4th call: timeline and themes
- 11:15 Eligibility criteria for the consortia; criteria and attention points for experts
- 11:30 Q&A
- 11:45 Standing lunch and network opportunities
- 13:15 DEFRA Security aspects
- 14:00 Submission procedure and use of the platform
- 14:15 Evaluation procedure
- 14:30 Q&A
- 14:45 Closure and reception
- 16:30 End of info day





Agenda





DEFRA: context and objectives



4

Two testimonies

Q&A



3



Housekeeping rules



- Please mute your mobile devices
- **2** You can use SLIDO to interact with panelists
- 3 Standing lunch will take place in the Mess ; closing reception will take place in the Bar
- 4 Outbreak sessions will take place in dedicated rooms







Networking opportunities



Conference room Frank De Winne

Room E-10.11: Cyber - Short-term Mitigation Techniques for Software Resilience (theme 1)

Room K-00.28: Securing critical Maritime Infrastructure (theme 2)

Improved Underwater Communications between Sensors/Weapon Systems and Data systems to Render Data into Actionable Data (theme 3)

Room K-00.29: Next-Generation Vision and Sensor Fusion (theme 4)

Room K-00.33: Prolonged Forward Casualty Care (theme 5)

Mess 2 - Lunch

6 Bar (cafetaria) - Receptie





Meet the DEFRA team

RHID Royal Higher Institute for Defence - Scientific & Technological Research of Defence

& BELSPO Belgian Science Policy

Maaike Vancauwenberghe Director Research Programs



Karen Pieters Director a.i. STRD Program Manager DEFRA



From 1st March on: Silke Van Steelant Program manager





Marleen Bosschaerts Dep. Director Research Programs Coordinator BCCM – FED-tWIN - SEPRO



Pascal Dermine Administrative assistant







DEFRA Context





Strategic Vision for Defence (2016) STAR-plan (2022)

A gradual increase of the R&T contribution for security and defence to reach 2% of defence spending in 2030.

Strengthening the Scientific, Technological and Industrial Potential Policy Declaration Minister of Defence 31 Oct 2022

"... knowledge centres in Belgium, companies in general and Belgian SME's,"

"....will flow back to society in the form of knowledge, technology and employment..."



Belgian Defence 'Research, Technology & Innovation Vision 2030'

5 boosters for Defence Research, Technology and Innovation







Belgian Defence 'Research, Technology & Innovation Vision 2030'

From an internal scientific and technological research programme to a research, technology and innovation policy within a national and European context.







Structurally reinforce the Belgian Defence R&T-capabilities

(Royal Military Academy, Defence laboratories, Military Hospital Queen Astrid) Develop a broader knowledge and technological base



Stimulate and support collaborative research and development (EDA, EDF, ESA, NATO) Facilitate short-cyclic innovation projects for Defence

Create **local** ecosystems for research, development and innovation







DEFRA OBJECTIVES



Reinforce Belgian security and defence policy

Strengthening the Belgian defence-related industrial & technological base



Disclose and develop knowledge and technology for defence applications

Belgian Defence capability development; **Culture of innovation** within Belgian Defence;



Triple Helix approach : promote systemic, multi/interdisciplinary and integrative approaches Improve knowledge transfer between research institutes and industry

Introduce entrepreneurs' insight into research

Include potential end-users in research and innovation





DEFENCE-RELATED RESEARCH ACTION



DEFRA Effort





TWO TESTIMONIES



KU LEUVEN - VIVES - SOLENCO POWER PROF. DR. FRANK BUYSSCHAERT, ING. SAM SCHOTTE



25/01/2024

DEFRA HYDE







Presentation Outline









Project Objectives



HYDE: **HY**drogen technology for energy supply in **DE**fence applications (funding €1.6M)



Objective: make NATO Tier 2/3 class military camps (as) independent (as possible) for their basic energy and water needs, using mainly PV energy and water from the environment as primary sources



Use of **hydrogen as chemical energy buffer**, combined with batteries, electrolyser and fuel cell systems and recover heat as much as possible for heating (water, dwelling)





Partners



KU Leuven (Coordinator):

- Prof. Frank BUYSSCHAERT
- Prof. Veerle VANDEGINSTE
- ➢ Prof. Michael KLEEMAN

VIVES (Partner):

- Ing. Sam Schotte
- ➢ Ing. Hanne Van den Berghe

Solenco Power (Partner):

- ➢ Ir. Sven Duchatelet
- Ir. Wim De Gang

KU Leuven Bruges (MECH, TME, M-Group) KU Leuven Bruges (MTM, Siem) KU Leuven Ghent (ESAT, Electa)

VIVES Zuid, Kortrijk VIVES Noord, Ostend











Partners



Subcontractor 1: Elhove CommV (Support with NATO regulations and networking)



Subcontractor 2: Sirris OWI-lab (Climate testing)







Project Description: EWSS



Design of an Energy and Water Supply System (EWSS)



Key performance indicators of the EWSS:

- Autonomy for at least 7 days
- Reduced Host Nation Supply (HNS) during weeks of operation
- Reduced logistics
- \Box Reduced CO₂ footprint (70% less than SOTA)







Project Description: EWSS

Electrical power:
 Source: PV-panels or HNS
 Buffer: Batteries or Supercapacitors, Hydrogen (via electrolyser and fuel cell)

Heat:

Source: fuel cell
 Buffer: stratification tanks – hot sanitary water, camp heating

Water:

Source: from the environment or delivered

□ Needs the necessary filtration to obtain:

DPotable water (drinking and sanitary water)

HDPI water for feeding the electrolyser







Project Description: EWSS layout







Project Description: EWSS layout







Project Description: EWSS layout

















Timeline: from pre-proposal to kick-off











Experiences

Recommendations







EXPERIENCES



- Working with Defence is:
 - □Not daunting!
 - Enriching for researchers and industry learn to know the MIL world
 - □Being offered many and other extra-ordinary opportunities
 - Getting insights behind the scenes
 - □Using other standards
 - Opening possibilities to interact with larger European defence programs and funding







EXPERIENCES (CT'D)



- Steering Committee (SteerCo)
 - □ Coordinator + Partners + RHID + MIL End User
 - □ Organised twice a year for HYDE
 - Open, round-table communication culture
 - Used to show progress of the project, forge and consolidate interactions with military units, tackle difficulties, ...
 - Addressable and solution oriented!



Cooperation with Field Accommodation Unit (FAU) and field measurements







RECOMMENDATIONS



- Ethical Commission Dual Use, Military Use & Misuse (EC DMM):
 - **Do not forget** to timely inform **the Ethical Commission** about participating into a MILoriented project.
 - □ Ideally during the pre-proposal phase.
 - Lt takes time!

Hiring process:

- Open to all nationalities
- Limited time between signing and start of project (long and tedious hiring process for Int'ls!)
- □ Scarcity of talented profiles (engineering)
- □ Non-NATO members will possibly be screened by State Security
- □ Include the necessary risk mitigation in the early phase of the project









RECOMMENDATIONS (CT'D)



- Subcontractors:
 - Prior to selecting a subcontractor, check your institution's policy: is a tendering process needed?

4

- Consortium agreement:
 - □ Most legal aspects are covered by the DEFRA contract and Annexes signed by all parties.
 - □ Yet, it is recommended that the legal services of the network **verify whether all legal requirements are covered** (e.g. responsibilities, NDAs within the network, etc.)







RECOMMENDATIONS (CT'D)

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- Acquisition procedures for purchasing large equipment:
 - Use of governmental funding is subjected to tendering
 Tendering procedures are long and tedious
 Think also about potentially important lead times
 - Check the legal aspects when more than one partner is involved







Conclusions



DEFRA allows projects in an **extraordinary and solution-oriented environment**

Mind the short period between acceptance and start of the project (**potential hiring issues!**)

Contact your Dual Use, Military Use and Misuse **Ethical Commission** as soon as possible

Find good partners that can strengthen the consortium!



- IMEC -IDLAB-UGENT
- DRIES NAUDTS





BOLSTER



BOLSTER – A TESTIMONY







BOLSTER project scope

- Mission-critical communication is most vital during any operational process or intervention with the involvement of Belgian Defence
- During crisis situations fixed communication infrastructure failed or proved inadequate for various reasons
- Need for additional ad hoc deployable wireless capacity in unexpected crises





BOLSTER objectives

- Perform interdisciplinary research to design, develop, validate and optimise innovative beyond 5G solutions for a private mobile standalone tactical network
- Beyond 5G (B5G) architecture that can offer ad hoc deployable and reliable wireless capacity to support mission-critical defence operational processes
- The **generic use case** will focus on providing **extended coverage** by employing a mobile base station **during a crisis** both in urban and rural environments
- Strong interaction with relevant defence, related bodies and stakeholders to define and fine-tune suitable use case







Partnership

IDLAD



- IDLab is a research group with international recognition in mobile and wireless communications
- Research activities on end-to-end wired/wireless networking solutions driven by professional and mission-critical applications
- Proven knowledge gained in the DARPA SC2
 competition validated in complex defence scenarios
- Experimentally driven research on top of open research infrastructures and platforms (SDR and commercial radio based)

CITYMESH

- Research-oriented and dynamic Mobile Network
 Operator (MNO)
- National telecommunications operator holding national licenses for frequencies in the 2022 auction
- Integrator of smart network infrastructures and drone solutions
- Innovations of top of commercial infrastructures
- **Proven track record** on research project in collaboration with other partners.





How to score?











Involvement of stakeholders as soon as possible! Have a clear vision on the scope and objectives!

Refine **use case** and **technology selection** together with stakeholders Show what the value is for Belgian Defence Work towards a **PoC** to demonstrate results




BOLSTER approach





Challenges

- IMEC cannot produce solutions for warfare situation
 - Dual use of the envisioned solutions
 - Accent on homeland security and disaster management
- Challenging to get in **contact with proper stakeholders** during proposal preparation time
- Availability of technology features in (commercial) solutions versus standardization and marketed promises
- Proof of Concept: demonstrate in a simplified real-life environment due to practical challenges
- Lead times of required equipment can be high, anticipate on this





Administration and finances

- Properly check the **eligibility criteria** for participating organizations
- Pay sufficient attention to Data Management Plan (DMP) and discuss with experts within your organization
- Properly check IP regulations between partners during proposal time (Part of DMP)
- Be careful with purchasing **equipment** and check if depreciation rules apply
- The official starting date is very soon after the acceptance of the proposal
 - the contract foresees some extra months to delay the actual kick-off of the project if needed
- Besides the base contract with KHID, a consortium agreement is also needed
- Communication of **requested documents** is comprehensible
 - Ask questions when unclear! Karen Pieters is very responsive and helpful!





Timing – BOLSTER proposal









Dos and	don'ts			
Define a detailed work plan Clear roles and contributions of the partners in the different WPs Gantt chart	Include novel research topics Cleary state TRL levels of the envisioned solutions	Ask questions to Belgian defence	Be vague regarding the scope and objectives	Underestimate the work to produce a high-quality proposal
Define user groups and involve stakeholders related to the topic and use cases	Provide correct financial numbers	Create a proficient Data Management Plan	existing o solution	ocus on ommercial ns Include n aspects!
	indicated page Be strict with mits submiss		D	EFRA Belgian Science Policy Office



belspo

DEFENCE-RELATED RESEARCH ACTION





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Networking opportunities



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6 Bar (cafetaria) - Receptie





Agenda



Q&A

Content of the 4th call: timeline and themes

Eligibility criteria for the consortia; criteria and attention points for experts





CONTENT OF THE 4th CALL: timeline & themes

- TIMELINE
- THEMES & INDICATIVE BUDGET
- PROJECTS
- CONTRACTS





Timeline

Step	Date	At / via
Call launch	21 December 2023	Website & mailing
Information day	25 January 2024	RMA
Deadline pre-proposals	22 February 2024 (14h00)	Online submission platform
Communication of evaluation result pre-proposals	14 March 2024	Mail
Deadline Full proposals	18 April 2024 (14h00)	Online submission platform
Remote scientific peer review evaluation	22 April – 31 May 2024	Online evaluation platform
Feedback to applicants in preparation of panel meeting (consensus reports and questions to applicants)	21 June 2024	Mail







Timeline

Step	Date	At / via
Written feedback by applicants (answers)	26 July 2024	Mail
Panel evaluation, incl. interviews with the applicants	Between 22 August and 4 September 2024	RHID
Selection proposal formulated by the scientific committee of the RHID	12 September 2024	NA
Final selection of proposals by the board of directors of the RHID and allocation of projects	19 September 2024	NA
Communication of results to applicants	24 September 2024	Mail
Signature contracts	14 November 2024	Online E-sign platform







Themes & Indicative budget

Theme	Indicative budget (M€)
Theme 1 – Cyber: Short-term Mitigation Techniques for Software Resilience	1,8
Theme 2 – Securing critical Maritime Infrastructure	1,8
Theme 3 - Improved Underwater Communications between Sensors/Weapon Systems and Data systems to Render Data into Actionable Data	1,8
Theme 4 – Next-Generation Vision and Sensor Fusion	1,8
Theme 5 – Prolonged Forward Casualty Care	1,8
Theme 6 – Open Call: Research on Innovative and Future-Oriented Defence Solutions	3,0
Total budget	12,0





Theme 1 : Cyber : Short-term Mitigation Techniques for Software Resilience

- Context:
 - Currently used systems : programming languages that lack memory safety \rightarrow vulnerabilities.
 - Migrating these systems to safe languages :
 - long conversion time ;
 - abrupt change of the full code base
 - \rightarrow short-term solutions needed but uptake is hampered : various shortcomings e.g. performance impact
- **Scope**: Focus on the following aspects :
 - Innovative solutions to harden legacy hardware written in C and/or C++
 - Performance, DoS resistance of these solutions
 - Compatibility and comparison with existing approaches
- Impact: To facilitate the development of more secure information systems and cyber-physical systems
 - \rightarrow contribute to the force protection objective
 - \rightarrow reduce the number of security incidents

! Collaboration with Royal Military Academy is required !





Theme 1 : Cyber : Short-term Mitigation Techniques for Software Resilience

<u>POC :</u>



Data Acquisition and Processing Mr Lieven Van de Vondel Research Manager

Lieven.VandeVondel@mil.be





Theme 2 : Securing critical Maritime Infrastructure

- Context:
 - Presence of critical infrastructure requires robust measures to ensure their protection
 - Crucial for future projects : the energy island Belgian North Sea
- Scope:
 - Physical security : vital role helps deter unauthorized access strenghtens overall security
 - To enhance these measures, perimeter monitoring systems/maritime unmanned systems can :
 - Provide real-time situation awareness to authorities MIK or MOC
 - Conduct regular inspections
 - Identify potential threats
 - Provide non-lethal and lethal capabilities \rightarrow to deter/neutralize threats
 - Attention on the following challenges :
 - Balance delayed vs real-time data dissemination
 - Max effectiveness with min collaterial damage
 - Trade-off ranging single use sensor/effector \rightarrow permanent observation/neutralization
 - Max probability of detection with min probability of false alerts
- Impact: to facilitate the research credible and realistic architecture existing legal framework and all other competent parties involved – compatible with systems in MIK/MOC



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Theme 2 : Securing critical Maritime Infrastructure

<u>POC :</u>



Mobility, Systems & Protection Maj Benoit Dequick, PhD Research Manager

Benoit.Dequick@mil.be



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Theme 3: Improved Underwater Communications between Sensors/Weapon Systems and Data systems to Render Data into Actionable Data

- Context:
 - Advancements in underwater communication technology, namely in wireless networks, robotics, localisation, ranging and tracking : obvious candidates to look into
 - Significant challenge in real-time : effectively managing and processing the anticipated abundance of information, particularly from unmanned systems
 - Complex underwater environment compounds the difficulties: limited visibility, changing salinity profiles, corrosive conditions,...
- **Scope**: Focus on the following aspects :
 - Improved data transmission on a qualitative/quantitative level
 - Enhanced decision-making processes : data fusion, data visualisation,...
 - Underwater automatic detection, classification and identification
- Impact:
 - to develop a demonstrator to overcome the challenges in either the data transmission domain, the data fusion domain or the challenge of localisation, tracking and ranging.
 - Research to be applied in the naval mine warfare another relevant maritime domain







Theme 3: Improved Underwater Communications between Sensors/Weapon Systems and Data systems to Render Data into Actionable Data

<u>POC :</u>



Data Acquisition and Processing Mr Lieven Van de Vondel Research Manager

Lieven.VandeVondel@mil.be





Theme 4: Next-Generation Vision and Sensor Fusion

- Context:
 - Technological evolutions at sensor level open up many options, but also pose several challenges due to the increased bandwidth and increased amount of information
 - The level of multi-sensor integration when using different EO/IR systems together remains limited : state-of-the-art embedded hardware advanced image processing techniques will be needed
- Scope: research efforts should have the goal to :
 - Extract actionable information from a combination of sensors : visible, SWIR,... but also multispectral/hyperspectral sensors
 - Create enhanced vision capabilities : intelligently combining of sensor data to simplify the load of data going to the user
- Impact:
 - Multi-and hyperspectral imaging : useful in military surveillance and reconnaissance
 - Other fields of interest :
 - Stand-off capability to detect IED, UXO, mine indicators
 - Stand-off capability to detect CBRN-agents
 - \rightarrow To seek a demonstrator for either lightweight electro-optical devices or for high-end platform mounted systemes





Theme 4: Next-Generation Vision and Sensor Fusion

<u> POC :</u>



Data Acquisition and Processing Mr Lieven Van de Vondel Research Manager

Lieven.VandeVondel@mil.be





Theme 5: Prolonged Forward Casualty Care

- Context:
 - to enhance the provision of care for wounded soldiers on the battlefield
 - Situations where immediate medical assistance is not readily available
- Scope: areas of particular interest :
 - Remote assistance : develop methods using AI for medical treatments protocol may involve the integration of e.g. wearable sensors, telemedicine,...
 - Drones for extended care : to develop drones
 - for medical supply able to bring equipment to remote areas
 - to evacuate a patient ou of the hostile environment
 - Homemade instruments : explore 3D-printing using a list of medico-surgical consumables to enhance the capabilities of buddies in treating injuries
 - Multipower rewarming system : develop a rewarming system for e.g. tents that can use different kind of energy sources
- Impact:
 - Influence the way tactical combat casualty care could be provided by using technologies by improving care and evacuations
 - Impact on the workload and standards of care





Theme 5 : Prolonged Forward Casualty Care

<u> POC :</u>



Human Factors & Medicine

Mrs Lucie Geurts, PhD Research Manager

Lucie.Geurts@mil.be





Theme 6 : Open Call: Research on Innovative and Future-Oriented Defence Solutions

- **Context**: to address new, upcoming or unforeseen challenges and/or creative or disruptive solutions
- Scope: open to any research for defence within the defence research areas
- Impact:
 - to realize innovative and cost-effective solutions for defence applications, ground-breaking or novel concepts, new promising future technological improvements
 - o Including within the social and human sciences
 - To improve readiness, deployability and sustainability across all spectrums of tasks and missions e.g. operations, equipment, infrastructure,...

Proposals can only be introduced in the open call if the subject of the proposal does not correspond with one of the other 5 themes.





Theme 6: Open Call: Research on Innovative and Future-**Oriented Defence Solutions**









Data Acquisition and Processing Mr Lieven Van de Vondel **Research Manager**

be

Mobility, Systems & Protection Maj Benoit Dequick, PhD Research Manager

Intelligent & Autonomous Systems & Platforms Mrs Claudia Verheyen **Research Manager**

Space Mr Thomas Vangeebergen **Research Manager**

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Mrs Lucie Geurts, PhD

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Claudia.Verheyen@mil.be



Projects

- The projects will have a duration of **2 to maximum 4 years**.
- Selected projects will start in **December 2024**.

• Funding rules

	Public Research Institute and Private non-profit research centre	Private company
Partner budget FINANCED BY DEFENCE	• 100% eligible costs	 LargeCap enterprises: 65% eligible costs MidCap enterprises: 75% eligible costs SME: 80% eligible costs

To discriminate between SME, MidCap and LargeCap enterprises article 2 of <u>Regulation (EU) 2021/697 of the</u> <u>European Parliament and of the Council of 29 April 2021 establishing the European Defence Fund and repealing</u> <u>Regulation (EU) 2018/1092</u> is applied, which refers to Article 2 of the <u>Annex to Commission Recommendation</u> <u>2003/361/EC.</u>





Contracts

- Contract between Belgian Defence and funded partners.
- Three parts:
 - Basic contract
 - Designates the contracting parties
 - Contains the general obligations applicable to the project
 - Defines the contract duration and budget
 - Is signed by the heads of the partners (directors, rectors, CEOs)
 - Annex I: Technical specifications
 - Operational implementation of the project
 - Work description and planning
 - Details on funding by expenditure category
 - Is signed by the persons in charge of the realisation of the project (the promotor)
 - Annex II: General conditions applicable to the 2024 contracts.
 - General provisions applicable to all DEFRA contracts
 - Must not be signed





ELIGIBILITY CRITERIA FOR CONSORTIA – ATTENTION POINT FOR EXPERTS

- ELIGIBILITY CRITERIA FOR PARTNERS
- ELIGBILITY CRITERIA FOR THE PARTNERSHIP
- ATTENTION POINTS FOR EXPERTS





ELIGIBILITY CRITERIA FOR PARTNERS

Public research sector: all Belgian universities, colleges of higher education, federal scientific institutions, defence research institutes and other public research institutes

Private non-profit research centres must have operational and/or research activities in Belgium. They must have legal personality and their registered office in Belgium.

Private sector, companies (including SMEs) complying with the following criteria are eligible partners:

- The company must have operational and/or research activities on the Belgian territory.
- The company must have a legal personality and its registered office in Belgium. The legal personality is required at the latest when signing the research contract.
- At the moment of signing the contract, the company must have fulfilled its obligations to pay its taxes and social security contributions.

NEW! All types of organizations can act as project coordinator





ELIGIBILITY CRITERIA FOR PARTNERS

You are a company, a(i)sbl or a foundation? Upload your UBO register in the online platform!

The delivery of an extract of the UBO register is a formal requirement for a valid application for the call.

The documents of the applicants are submitted to the General Intelligence and Security Service which will examine them in accordance with its missions and legal powers as defined in the law of November 30, 1998 governing intelligence and security services. The advice rendered by the security service may be based on a classified note.





ELIGIBILITY CRITERIA FOR THE PARTNERSHIP

TRIPLE HELIX

Partnership:

- at least one (public or private non-profit) research institute
 - at least one company

For **theme 1 – CYBER**, it is **MANDATORY** to have the Royal Military Academy (RMA) as a partner in the network.





ATTENTION POINTS FOR EXPERTS

Eligibility criteria for potential remote evaluators

You need to provide information for minimum 4 proposed evaluators (min. 2 Belgian and 2 foreign experts.

Experts must meet following criteria:

- Be outstanding and (inter)nationally (well) recognised in their research field (min 5 peer-reviewed publications in the given research field)
- Be able to evaluate all the aspects covered by the proposal
- Be external experts (not belonging to Belgian Defence)
- Be free of conflict of interest





ATTENTION POINTS FOR EXPERTS

Experts are considered to have a conflict of interest if they stand to **profit professionally**, **financially or personally** from approval or rejection of an application.

Eligible experts must:

- have no direct link with the project;
- not be involved in the preparation of the pre-proposal and/or the full proposal;
- not directly benefit from the acceptance of the proposal;
- not be a family member or partner relative to the first degree of any of the applicants;
- not belong to applicants' institutions/companies;
- not be a director, a trustee or a partner of the applicants' institutions/companies;
- not have been employed within the applicants' institutions/companies in the past 5 years; ۲
- not have held a contract or collaborated in any way with any of the applicants or their research groups in the past 5 years;
- not be a(n) (ex) PhD-promotor (one of the) of (the) applicants;
- have no common projects or co-publications with any of the applicants or their research groups within the last 5 years;
- not be in any other situation which compromises or casts a doubt on his or her ability to evaluate the proposal impartially, or that could reasonably appear to do so in the eyes of an external third party.









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Networking opportunities



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6 Bar (cafetaria) - Receptie





Agenda



2

DEFRA Security aspects

Submission procedure and use of the platform

3

4



Q&A





DEFRA Security aspects




SUBMISSION PROCEDURE AND USE OF THE PLATFORM

- DEFRA WEBSITE
- DEFRA ON-LINE SUBMISSION PLATFORM
- SUBMISSION PROCEDURE
- COMMUNICATION





DEFRA WEBSITE

https://defra.belspo.be

Available documents

- Information document, incl. submission & evaluation guidelines and budget rules
- Evaluation matrices (pre & full proposals)
- Evaluators eligibility criteria
- Platform submission guidelines
- FAQ
- Structure pre & full proposals
- General conditions contract





https://defra.belspo.be

Consult the Platform submission guidelines on the website

PHASE 1 - submission of pre-proposals:

• Pre-proposal template (Word file)

PHASE 2 – submission full proposals:

- Full Proposal template (Word file)
- Gantt chart (Excel file)
- Cash or in-kind commitment letter non mandatory (Word file)





Platform homepage before log in



LOGIN if you want to have access to the online platform



Once logged-in: directed to your personal homepage

DEFRA Defence-nelated rescarce agtion	DEFRA platform		You are logged as: testdefra@belspo.be Logout Platform submission guidelines Information file	
			Add Pre-proposal	
			PRE-PROPOSALS : Submission deadline is 22/2/2024 14:00	
Reference	Acronym	General information		Submitted
			Back to Homepage	
			Platform submission guidelines © BELSPO - Federal Science Policy Office 2024 - <u>Privacy policy</u> - <u>Cookie policy</u>	Contact BELSPO

Click on "Add Pre-proposal" button to create Pre-proposal.





Pre-proposal page (1/2)

DEFRA		You are logged as: testdefra@belspo.be Logout Platform submission guidelines				
DEFENCE-BELATED RESEARCH ACTION	belspo	Information file				
	DEFRA platform					
New Pre-proposal - Information sheet						
ТНЕМЕ						
O Theme 1 - CYBER: Short-term Mitigation Techniques for Software Resilience						
O Theme 2 - Securing critical Maritime Infrastructure						
O Theme 3 - Improved Underwater Communications between Sensors/Weapon Systems an	Theme 3 - Improved Underwater Communications between Sensors/Weapon Systems and Data systems to Render Data into Actionable Data					
O Theme 4 - Next-Generation Vision and Sensor Fusion						
O Theme 5 - Prolonged Forward Casualty Care	O Theme 5 - Prolonged Forward Casualty Care					
O Theme 6 - Open Call: Research on Innovative and Future-Oriented Defence Solutions						
PROPOSAL'S ACRONYM (maximum 15 characters)						
PROPOSAL'S TITLE (maximum 255 characters)						
COORDINATOR						
Lastname Email						
Defra 2023 testdefra@belspo.be						
Type of organisation Defence research institutes						
Organisation						
Laboratoires de la défence - Defensielaboratoria						
Organisation's abbreviation DLD						
DED Department/Research unit/Division						
Research unit						



Pre-proposal page (2/2)

PARTNERS			
Complete all fields for the partner(s)			
Lastname Firstname	Type of organisation	Organisation	
			Abbreviation:
+1	×		
SUMMARY (+ 1/2 page) : The context	and motivation of the project - Expe	cted results and how these will impact De	efence - Brief explanation of how the project will be carried out (± 1/2 page)
Sommart (11/2 page) . The context of	and modivation of the project "Expe	cted results and now these win impact be	erence biter explanation of now the project will be carried out (± 1/2 page)
· · · · · · · · · · · · · · · · · · ·			
KEYWORDS minimum 2, maximum 6			
KETWORDS minimum 2, maximum 6			
As the coordinator, I confirm to have	read and to have asked all the natu	ral persons involved and mentioned in thi	his Pre-proposal to read the

As the coordinator, I commit to have read and to have asked an the natural persons involved and mentioned in this pre-proposal to read the <u>privacy statement</u> related to the DEFRA programme. Furthermore, I confirm to have obtained these persons' explicit consent to process their personal data in the context of this privacy statement.

Click SAVE first and then BACK TO LIST in order to upload the CONTENT DOCUMENTS. Note that if you do not save the information will be lost.





Pre-proposal page – mandatory fields:

- Themes of the Call
- Proposal's Acronym Minimal required info to
- Proposal's Title
 Start
- Name, institution and contact details of the Coordinator
- Partners (institution coordinates)
- Summary
- Keywords (min 2)
- Approval statement for submission





Personal homepage will change after saving Pre-proposal

DEFERA DEFENCE-RELATED RESEARCH ACTION		DEFRA platform	You are logged as: testdefra@belspo.be Logout Platform sulation guidelines of formation file
		Add Pre-proposal	
		PRE-PROPOSALS : Submission deadline is 22/2/2024 14:00	
Reference	Acronym	General information	Submitted
<mark>▶ Pre-proposal</mark> Pre-001	DEFRA-test	Title: DEFRA test pre-proposal Coordinator: Defra 2023, Laboratoires de la défence - Defensielaboratoria	Information sheet Content Experts Print Pre-proposal Submit
1 pre		Back to Homepage	
		Platform submission guidelines © BELSPO - Federal Science Policy Office 2024 - <u>Privacy policy</u> - <u>Cookie policy</u>	Contact BELSPO





SUBMISSION PROCEDURE

Information sheet: displays Pre-proposal page for further editing

Content: contains downloadable template to be filled in off-line and subsequently uploaded to platform + button to upload extract(s) of the UBO register

Experts: allows introducing 6 evaluation experts

Print Pre-proposal: preview Pre-proposal PDF-file

Submit: for submitting the Pre-proposal





SUBMISSION PROCEDURE

Download word template for pre-proposals

Complete all fields, take into account evaluation criteria for pre-proposals (cfr evaluation matrix)

Upload completed pre-proposal (PDF-file)

Upload extract(s) of the UBO register

Propose experts for evaluation of full proposals (min 2 Belgian and 2 foreign experts; *2 non-grata*)





SUBMISSION PROCEDURE

Click on 'Submit'. You will be directed to the Pre-proposal page

At bottom of page, click on 'Check'.

! This "function" ONLY checks if all necessary fields are completed. The content of the Pre-proposal and the fulfilment of the eligibility conditions are your responsibility.

At bottom of page, click on 'Submit'. The Pre-proposal will be submitted to BELSPO

Confirmation by e-mail to coordinator and a '<' will appear on your Personal Homepage

Deadline for pre-proposals: 22/02 - 14h





Personal homepage after submission

DEFERA Defende-related research action			DEFRA platform Add Pre-proposal	You are logged as: testdefra@belspo.be Logout Platform submission guidelines Information file	
PRE-PROPOSALS : Submission deadline is 22/2/2024 14:00					
Reference	Acronym	General information		Submitted	
▶ Pre-proposal Pre-001	DEFRA-test	Title: DEFRA test pre-proposal Coordinator: Defra 2023, Laboratoires de la défence - Defen	sielaboratoria	Information sheet Content Experts (4) Print Pre-proposal Submit	
1 pre			Back to Homepage		
			tform submission guidelines nce Policy Office 2024 - <u>Privacy policy</u> - <u>Cookie policy</u>	Contact BELSPO	





EVALUATION PROCEDURE

Two-step procedure:

- PHASE 1: PRE-PROPOSALS
- PHASE 2: FULL PROPOSALS





PHASE 1: PRE-PROPOSAL

- General eligibility check
- Evaluation by internal evaluation committee Defence
- Criteria:

	Themes 1, 2, 3, 4, 5	Theme 6*
Quality of the pre-proposal	40%	30%
Quality of the partners & adequacy of the partnership	30%	30%
Impact	30%	40%

* Possibly additional criteria based on strategic considerations and the diversity of topics of the pre-proposals.

- Theme 1 to 5: max. 5 pre-proposals invited to submit full proposal
- Theme 6: max. 10 pre-proposals invited to submit full proposal







PHASE 2: FULL PROPOSAL

- Step 1 Remote scientific peer review evaluation 3 independent experts (min 1 Belgian, 1 foreign)
- Step 2 Scientific Experts Committee (SEC) evaluation, incl. interviews with the applicants
- Step 3 Selection proposal formulated by Scientific Committee RHID
- Step 4 Final selection proposals by Board of Directors RHID
- Selected projects start December 2024





COMMUNICATION

For questions about the call for proposals, the call procedure and documents, the submission and evaluation of proposals

defra@belspo.be

For questions about the content of the call and projects, the conclusion of the contract for selected proposals, and everything related to the project implementation: questions about reporting, invoicing, implementation, communication, follow-up and valorisation of the project

defra@mil.be









SCAN THE QR CODE TO JOIN AT

slido.com Code: # 2975327







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Further questions

FAQ on website defra@belspo.be

GOOD LUCK!



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Networking opportunities



Conference room Frank De Winne

Room E-10.11: Cyber - Short-term Mitigation Techniques for Software Resilience (theme 1)

Room K-00.28: Securing critical Maritime Infrastructure (theme 2)

Improved Underwater Communications between Sensors/Weapon Systems and Data systems to Render Data into Actionable Data (theme 3)

Room K-00.29: Next-Generation Vision and Sensor Fusion (theme 4)

Room K-00.33: Prolonged Forward Casualty Care (theme 5)

Mess 2 - Lunch

6 Bar (cafetaria) - Receptie

