

DEFRA

Defence-related Research Action

Next Generation Combat Aircraft Technologies Research and Development – Call for proposals (2024)

FULL PROPOSAL DESCRIPTION

Compulsory document - must be completed - in English

Before completing, please consult carefully the **Information document** and the **evaluation matrix for full proposals.**

! Only fully completed templates will be considered for evaluation!

PROPOSAL'S ID	
Project Acronym	Click here to enter text.
Project Title	Click here to enter text.
Research Theme	☐ Structures and associated subsystems
	☐ Propulsion and accessories
	\square Communication, cyber, avionics, embedded sensors and networks
	☐ Transversal disruptive enabling technologies

Please note that the font used to complete the documents must be in Calibri, size 11, with 1,15 line spacing.







PARTNERS / PARTNERSHIP

COORDINATOR (P1)		
Organisation name:	Click here to enter text.	
Type of organisation:	Choose an item.	
Website:	Click here to enter text.	
Principal investigator/R&D lead:		
Last name:	Click here to enter text.	
First name:	Click here to enter text.	
Email:	Click here to enter text.	
Phone number:	Click here to enter text.	

PARTNER 2 (P2)		
Organisation name:	Click here to enter text.	
Type of organisation:	Choose an item.	
Website:	Click here to enter text.	
Principal investigator/R&D lead:		
Last name:	Click here to enter text.	
First name:	Click here to enter text.	
E-mail:	Click here to enter text.	

PARTNER 3 (P3)		
Organisation name:	Click here to enter text.	
Type of organisation:	Choose an item.	
Website:	Click here to enter text.	
Principal investigator/R&D lead:		
Last name:	Click here to enter text.	
First name:	Click here to enter text.	
E-mail:	Click here to enter text.	

PARTNER 4 (P4)	
Organisation name:	Click here to enter text.
Type of organisation:	Choose an item.
Website:	Click here to enter text.
Principal investigator/R&D lead:	
Last name:	Click here to enter text.
First name:	Click here to enter text.
E-mail:	Click here to enter text.

Copy the table to include more partners if needed.

PROJECT SUMMARY

Briefly describe:

- The context and motivation of the project
- Expected results and how these will impact the BDTIB and NGCAT
- Brief explanation of how the project will be carried out

[[max. 2 pages]		
	Enter text		

PROJECT SCOPE

Explain how the project answers to the research and development priorities of the call (cfr. section 2.3 of the information document)

[1	/2 page]			
	Enter text			

1. PROJECT OBJECTIVES

Explain the scope of the project and break it down in major research and development objectives, making sure that those are SMART (Specific, Measurable, Assignable, Realistic, Time-related) defined.

[2	2 pages]			
	Enter text			

2. STATE OF THE ART AND INNOVATIVE CHARACTER

2.1. Knowledge of the state of the art

- Explain the state of current knowledge at national and international level on your topic. Include a list of max. 5 relevant existing publications, projects, references and/or (inter)national networks per project partner to support this.
- Provide an overview of the knowledge to be acquired within the project team
- Provide an overview of the development of new expertise and competences (new techniques, knowledge, way of working...) in Belgium
- Describe the opportunities for (new) national and/or international collaborations

[1 page]

Enter text		
2.2. Positioning of the project with respect to the state of	the art (innovativen	ess)
	within	beyond/innovative
in terms of exploring a gap in (inter)national research		
in terms of exploring new methodologies		
Explain why your proposal is original and innovative.		
[1 page]		
Enter text		
3. RELEVANCE AND POTENTIAL IMPAG	CT FOR THE BDT	IB and NGCAT
3.1. Potential impact of the proposal in light of the expect	rad autcomas	
Explain the relevance and potential impact of the project (e.g. its routcomes, insights,) for NGCAT, in relation to the expected important formula in the preliminary scientific and technological research which we have generation and technological research which was a capability and the control of the project (e.g. its routcomes, insights, in relation to the expected important formula in the capability and technological research which was a capability and the capability and the capability are capability and the capability are capability and the capability are capability.	act for your theme.	-
[1/2 page] Enter text		
3.2. Plans to maximise the impact of the project		
 Explain the concrete plans of valorisation and exploitation of WP valorisation. The target groups of these valorisation proposed is there a link with another regional / federal / international part of the possible follow-on projects for this proposal, either (1/2 page) 	osals must be explicitly project?	described.
Enter text		

\mathbf{a}	.3.	Data management plan	· /D///D/
٠.	-	Data management hiar	1 (1)11/11
_		Data management plan	1 (

Will data be collected, reused and/or generated?

Please select the adequate answer(s) taking into account the following concepts:

Data content:

Refers to the type of data regarding what it contains. E.g. numeric (databases, spread sheets), textual (documents), image, audio, video, mixed media...

• Data format:

Refers to the technical format of data; to the way in which the data is encoded for storage, often reflected by the filename extension. For example: pdf, xls, doc, txt, rdf...

Data volume:

You may roughly estimate this using the following categories: From 0-10GB; From 10-100~GB; From 100-100~GB; More than 1000~GB.

My proposal will □ COLLECT DATA	
☐ REUSE EXISTING DATA	
☐ GENERATE NEW DATA	
Please describe:	
Which data you will collect/reuse/generate	
 How data will be collected / from which source it will be reused / how w Its content, technical format and estimated volume. 	ull it be generated
 Any existing constraints regarding its use. 	
, , , , , , , , , , , , , , , , , , , ,	
Enter text	
ow will you handle legal issues?	
lease answer the following statements taking into account the following conc	epts:
Local issues. This includes personal data intellectual property issues a	ad convity requirements Begarding
Legal issues: This includes personal data, intellectual property issues as personal data, you must ensure when dealing with personal data that E	, ,
complied with.	dia Fiotection Laws (i.e. GDFR) are
complica wall	
My proposal will use / process / store personal data:	☐ YES
	□NO
If your answer is 'YES': shortly describe the kind of personal data.	
Add the process and reference to your file in the partners' privacy register.	
Enter text	
The work undertaken in the project will possibly result in research	□YES
data with potential for technology transfer and valorisation:	
add the potential for technology transfer and valorisation.	□ NO

If your answer is 'YES', your proposal must take into accou Explain who will be the owner of the data (who will have the Indicate whether there will be intellectual property rights describe how these will be managed.	he rights to contro	l access).		
Enter text				
The work undertaken in the project will possibly us classified information.	se or generate	□ YES □ NO		
If your answer is 'YES', your proposal must take into account possible security requirements (see section 6.2. of the information document. Identify the classification needs for the work packages of the project that involve threat and /or vulnerability assessments and the information on specifications or capabilities of the tool(s) used. Attention! Classified information is sensitive, but other, more stringent, rules will apply than the ones described for sensitive information in the following data management paragraphs.				
Enter text				
Data must comply, as much as possible with FAIR princip reusable. For this purpose, data must be accompanied Metadata is the information that describes, explains, locu easier to retrieve. Where metadata are in place, rese standards.	les; it must be find by descriptive info ates, and /or mak	dable, accessible, interoperable and ormation in the form of metadata. es the use of an information source		
What documentation will be provided to enable under generated in this project?	erstanding and r	euse of the data collected /		
Enter text				
Metadata standards will be used:	☐ FOR ALL DAT☐ FOR SOME D☐ FOR NONE O☐	ATA		
 if your answer is 'for all data' or 'for some data', please describe in detail which standards will be used. if your answer is 'none of the data', please state in detail which metadata will be created to make the data easy/easier to find and reuse. 				
Enter text				

Data storage and backup during the project

Please give preference to the use of robust, managed storage with automatic backup, such as networked drives, which offer ample storage space and data security for most purposes.

Consider data protection, particularly if your data is sensitive – for example, containing personal data, politically sensitive information or information relating to religion and health. If this is your case, enquire with the partners' support staff whether your intended storage solution meets the data security policy.

Please answer the statements/questions, taking into account the following information. Note that you may choose one or more answers.

The data will be stored in	☐ the partner's Research Storage ☐ OTHER
storage.Explain the reasons for using these solution	se during the project, in addition to / instead of the partner's research ons. E.g. because you need more space than available by the partners; ors; or because your data requires additional security.
Enter text	
How will the data be backed up?	
Enter text	
How will data security and protection of s data be taken care of during the research	
If your answer is other than 'Not applicable' :	Describe the main risks and how these will be managed.
Enter text	
What are the expected costs for data stor covered?	age and backup during the project? How will these costs be
Costs related to data storage and backup duri are fully justified and relate to the project.	ng the project can be covered by the project budget providing these
Enter text	
Data preservation in the long term - a	fter the project
Please answer the following questions/state you may choose one or more answers to the	ements, taking into account the following information. Note that e second statement.
	Id be preserved (archived) in the long term, in as far as legal and mb, long-term storage is considered to be at least 10 years, unless as dictate otherwise.
All data will be made and the last	(-t-last 10)
All data will be preserved in the long term	n (at least 10 years) ☐ YES ☐ NO

If your answer is 'NO': clearly describe what data will be contractual, legal or regulatory purposes, or for physical pto keep.		
Enter text		
The data will be archived within	☐ Partners' Networked Researc	h Storage
If your answer includes 'OTHER': Specify which storage so of the partners' networked research storage. Please explo		
Enter text		
How will data security and protection of sensitive data be taken care in the long term?	 □ Not applicable (there are no □ Default security of the presearch storage □ Additional security measure 	artners' networke
If your answer is other than 'Not applicable' : Describe th your partners' support staff whether your intended storag involves sensitive data. Enter text		
What are the expected costs for data preservation i	n the long term? How will these c	osts be covered?
Costs related to data preservation in the long term can be justified and relate to the project.	e covered by the project budget provid	ding these are fully
Enter text		
ata sharing and reuse ease answer the following questions taking into acco	ount the following information:	
As stated before, data must comply, as much as possible interoperable and reusable. It is thus important that you of applicable, data sets will be linked to the scientific prodeposited in. Note that the data available for sharing and reuse may of the privacy or security related reasons preventing or restricted at a volumes to deposit them in a repository in its entire in the short, mid or long term. A staged approach will protect the degree of certification of users to the sensitivity of the	provide information regarding data solublications they underpin and which differ from the preserved data, since the tricting the access to data, or lacking ty. This could be the case for part or the pride access for communities of certifications.	sharing and reuse. have either been here may be legal, of space for large ne entirety of data;
Are there any factors restricting or preventing the site.g. agreements with 3rd parties):	haring or reuse of the data	□ YES

Enter text	
Which data will be made available to the public?	☐ ALL ☐ SOME PART ☐ NONE
 If your answer is 'SOME PART' or 'NONE': Indicate the restrictions on the sharing of the data (why cale) Explain what data sharing agreement will be implemented Enter text 	n't it be shared)
Enter text	
Where/how will data be made available to the public?	☐ In a restricted access repository☐ Upon request by mail☐ Other (specify)
When will data be made available to the public?	 □ As soon as corresponding communication(s) are published □ After the project is finished □ After the completion of the project (with embargo)
If your answer is other than 'as soon as corresponding commu the restrictions on the time release of data (embargo periods). I properties, or seek patents.	
Enter text	
Who will be able to access the data and under which con-	ditions?
Enter text	
Which data will be made available for re-use?	☐ ALL ☐ SOME PART ☐ NONE
If your answer is 'SOME PART' or ' NONE' : Indicate the restrictic could be taken to overcome or to minimize restrictions.	ns on the re-use of the data. Explain what actions
	ns on the re-use of the data. Explain what actions
could be taken to overcome or to minimize restrictions. Enter text	ns on the re-use of the data. Explain what actions
could be taken to overcome or to minimize restrictions.	
could be taken to overcome or to minimize restrictions. Enter text esponsibilities ease answer the following questions/statements, taking into acc	rount the following information:
could be taken to overcome or to minimize restrictions. Enter text esponsibilities	rount the following information:

Enter text

Who will be responsible for ensuring data preservation and sharing?

Enter text

Who bears the end responsibility for updating & implementing this DMP?

Default response: The project coordinator bears the overall responsibility for updating & implementing this DMP. Enter text

4. QUALITY OF THE PARTNERS / PARTNERSHIP

Research institutes (public or private non-profit): please provide a description of expertise and skills for each partner:

- Their professional background
- Maximum 5 top publications relevant for the proposal (indicate clearly the international peer reviewed publications)
- A list of the research projects carried out over the past five years in the topic of the call or related areas (specify the duration of the work and funding source).
- A list of their (inter)national contacts and the (inter)national networks to which they belong within the context of the proposal.
- The scientific quality, management, synthesis and communication skills of the coordinator.
- If possible, include web links for all the information above.

Private companies:

please provide a description of expertise and skills for each partner:

- Their active production / research and development activities in Belgium
- A list of the products / prototypes / research and development projects they actively contributed to over the past five years in the topic of the call or related areas.
- A list of their (inter)national contacts and the (inter)national networks to which they belong within the context of the proposal.
- An overview of their R&D team and R&D capabilities.
- A list of their Defence customers, if any.
- The management, synthesis and communication skills of the coordinator.
- If possible, include web links for all the information above.

[2 pages per partner]

COORDINATOR

Enter text	
PARTNER 2	
Enter text	

PARTNER 3

Enter text
PARTNER 4
Enter text
Copy the table to include more partners if needed.
Articulate the rationale for choosing this partnership in addressing the topic of the proposal. The different dimensions of the added value in a partnership can be seen as (non-exhaustive list): Well-balanced partnership Complementarity of expertise among partners Complementarity of disciplines and way of working (multi, inter) to properly cover the project objectives Long term perspective on collaboration: can this project be the starting point for a broadened or intensified collaboration?
[1 page]
Enter text
5. COHERENCE BETWEEN RESEARCH OBJECTIVES AND METHODOLOGY
Translate your research objectives into a methodology (used methods, techniques, systems and/or way of working) in order to achieve the results: The division of the project into phases The organisation of the project team The technologies used Detail the results your approach will enable to gather (expected outcomes): Take possible ethical issues into account if relevant [5 pages] Enter text

6. WORK PLAN

6.1. Relation of the work packages to the proposal objectives

Please provide a description of the project in terms of work packages, tasks, and deliverables in accordance with the GANTT chart.

Refer to:

Number and title of Work Package, Work Package leader (financed, non-financed)

- Number, title and timing of tasks, task leader, participants to the task (financed, non-financed, subcontractors...)
- Timing of deliverables
- Number of person-months for each task
- Means, tools, procedures, techniques to carry out the tasks

Notes:

- The work plan must be detailed to the level of work packages (WP) and tasks (Tasks). The definition of subtasks is not possible.
- Work packages or tasks necessary for the implementation of the project but not financed by Defence must also be described and added to the GANTT chart.

Compulsory work packages:

- Coordination, project management and reporting
- Data management
- Valorisation / Exploitation

[1/2 pages/WP]

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6.2. Work planning and time schedule: GANTT chart

6.3. Workload intensity in relation to the work packages: GANTT chart

Complete the GANTT chart in accordance with the description of the detailed work plan, tasks and deliverables above.

- Work intensity of each partner within each task (expressed in person-month [PM])
- Include for each partner the person-months funded by the project and the person-months funded by other sources (see notes). Make sure that these data correspond with the data filled in the budget tables under point 6.5.

Notes:

- Partners include: financed, non-financed and subcontractors.
- 1 Person-month [PM] = 1 full-time equivalent [FTE] or 2 half-time equivalents over 1 month...
- Other sources of financing may include: salary payment by institutions other than Defence and/or via other projects, voluntary contributions... If a given task requires 7 person-months, and 6 months will be financed by the project, the 7th month must appear under 'other sources of financing'.

Compulsory work packages:

- Coordination, project management and reporting
- Data management
- Valorisation / Exploitation

6.4. Risk assessment of the project

Main risks

Number, identify and explain the main (max 10) incurring risks that could delay or hinder the project. Locate the number of each risk in terms of its likelihood of occurrence and impact on the project. (R1 & R2 are shown as an example)

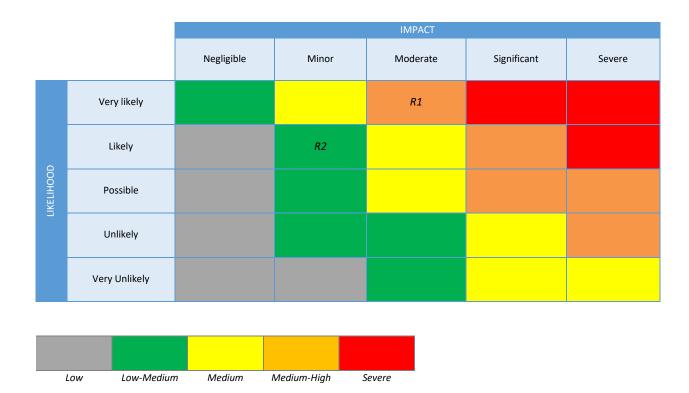
Risk nr	Description of the risk	Likelihood	Impact
R1	Click here to enter text.	Choose an item.	Choose an item.
R2	Click here to enter text.	Choose an item.	Choose an item.
R3	Click here to enter text.	Choose an item.	Choose an item.
R4	Click here to enter text.	Choose an item.	Choose an item.
R5	Click here to enter text.	Choose an item.	Choose an item.
R6	Click here to enter text.	Choose an item.	Choose an item.
R7	Click here to enter text.	Choose an item.	Choose an item.
R8	Click here to enter text.	Choose an item.	Choose an item.
R9	Click here to enter text.	Choose an item.	Choose an item.
R10	Click here to enter text.	Choose an item.	Choose an item.

Additional information regarding Impact:

- Severe = impossible to achieve the main project objectives,
- Significant = there will be a direct and substantial impact on the projects' main objectives,
- Moderate = there is an impact on some of the projects' main objectives, but not to an extent that the overall goal cannot be achieved,
- Minor = the impact on the projects' main objectives is not substantial.
- Negligible = the risk will not cause any obstructions to achieve any of the projects objectives

Likelihood and impact

Locate the number of each risk in terms of its likelihood of occurrence and impact on the project. (R1 & R2 are shown as an example)



Contingency measures

For each risk of category "medium high" and "severe" mitigation measures have to be defined and a check has to be made that the residual risk is below or equal to "medium".

Risk nr	Mitigating measures	Residual risk after mitigation (with motivation)
Choose an item.	Click here to enter text.	Click here to enter text.
Choose an item.	Click here to enter text.	Click here to enter text.
Choose an item.	Click here to enter text.	Click here to enter text.
Choose an item.	Click here to enter text.	Click here to enter text.
Choose an item.	Click here to enter text.	Click here to enter text.
Choose an item.	Click here to enter text.	Click here to enter text.
Choose an item.	Click here to enter text.	Click here to enter text.

References (not mandatory)

References to the content of the proposal that give a better understanding of the information provided in the tables above.

Refers to risk(s) number	Document or part of the proposal	Remarks
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.

Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.

6.5. Budget assessment

Complete the **Full proposal cost template** (available on the submission platform) taking into account the budget rules explained under sections 2.7. and 2.8. of the information document. Make sure that the number of person-months indicated in the Gantt chart correspond to the number of person-months in de cost template.

Justification of the requested budget

Budget justification for the Coordinator (P1)

Specific Operation

Explain the nature of the specific operation costs that are included in the full proposal cost template.

Description		Cost (Euro)
	TOTAL	

Equipment

Explain what kind of equipment will be purchased.

Description		Cost (Euro)
	TOTAL	

Subcontracting

Explain the activities that will be subcontracted (and to whom if already known)

Description		Cost (Euro)
Tasks:		
Name:		
Address:		
	TOTAL	

Budget justification for Partner 2 (P2)

Specific Operation

Explain the nature of the specific operation costs that are included in the full proposal cost template.

Description	Cost (Euro)
TOTAL	

Equipment

Explain what kind of equipment will be purchased.

Description		Cost (Euro)
	TOTAL	

Subcontracting

Explain the activities that will be subcontracted (and to whom if already known)

Description		Cost (Euro)
Tasks:		
Name:		
Address:		
	TOTAL	

Budget justification for Partner 3 (P3)

Specific Operation

Explain the nature of the specific operation costs that are included in the full proposal cost template.

Description		Cost (Euro)
	TOTAL	

Equipment

Explain what kind of equipment will be purchased.

Description	Cost (Euro)
TOTAL	

Subcontracting

Explain the activities that will be subcontracted (and to whom if already known)

Description	Cost (Euro)
Tasks:	

Name: Address:	
TOTAL	

Budget justification for Partner 4 (P4)

Specific Operation

Explain the nature of the specific operation costs that are included in the full proposal cost template.

Description		Cost (Euro)
	TOTAL	

<u>Equipment</u>

Explain what kind of equipment will be purchased.

Description		Cost (Euro)
	TOTAL	

Subcontracting

Explain the activities that will be subcontracted (and to whom if already known)

Description		Cost (Euro)
Tasks: Name: Address:		
Name:		
Address:		
	TOTAL	

Duplicate if necessary, with necessary partner-number changes)