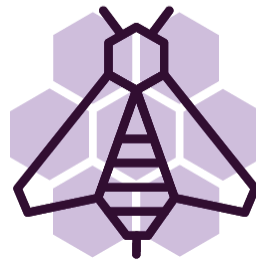




Defence Materiel Organisation
Ministry of Defence

PURPLE
NECTAR
2020



Invitation to participate

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READING GUIDE

This is the Invitation to participate in the Purple NEctar 2020 ICT Innovation Platform organised by the Defence Materiel Organisation.

The Invitation provides an insight into the Purple NEctar theme and the conditions imposed for participation, so that you can make a well-informed decision about whether or not you want to participate.

Chapter 1: Here you will find general information about Purple NEctar and the Contracting Authority.

Chapter 2: Here you will find general provisions and contact details.

Chapter 3: Here you will find a description of the procedure with the requirements imposed for participation.

DEFINITION OF TERMS

- Contracting Authority: Defence Materiel Organisation, part of the Netherlands Ministry of Defence.
- Experiment: potential solution for an outlined problem that is tested during Purple NECTar.
- Invitation to participate: this descriptive document including its Annexes.
- Declaration: self-declaration in which entrepreneurs provide provisional proof to replace certificates issued by government agencies or third parties.

ABBREVIATIONS

- DMO - Defence Materiel Organisation
- DSS - Defence Simulation Symposium
- JIVC - Joint IV Command (Defence IT supplier)
- KIXS - Knowledge, Innovation, eXperiments and Simulation division at JIVC

CHAPTER 1 INTRODUCTION

Defence IT is constantly evolving, every day new ideas emerge and some great IT innovations become available with which mission-ready units can perform their job even more effectively. Innovation requires focus, time and courage. And above all, input from different parties.

From **14 April to 29 April 2020** inclusive, the Knowledge, Innovation, eXperiments and Simulation (KIXS) division at JIVC is organising the annual Purple NEctar innovation platform. During Purple NEctar we create a dynamic experiments environment at the Gilze-Rijen Air Base of the Defence Helicopter Command (DHC), where we experiment, share knowledge and put innovation into practice.

1.1 Purple NEctar

Purple NEctar is an experiments and demonstration environment for Network Enabled Capabilities that are periodically set up under the leadership of KIXS in close consultation with users (operational units). The objective of the experiments is to improve situational awareness for the commander, staff and sub-units through the application of innovative IT.

This time, Purple NEctar and the Swift Blade 2020 training exercise are joining forces to conduct joint experiments for achieving a more effective and more efficient armed forces. This does not alter the fact that there is every opportunity for the other Defence divisions to reach out and join Purple NEctar 2020.

This year specifically focuses on:

- **Mission planning:** networked joint collaboration, accelerating 72-hour process, clarifying goals, focused on achieving shared objectives, etc.
- **Situational Awareness:** Blue Force Tracking, information domain, where are our troops, where are my helis, real-time info available at all times during the mission's execution, air-to-air and air-to-surface links, etc.
- Increasing the **deployability** of personnel and materiel (such as integrated training exercises with simulation/VR etc.)

In addition to the above-mentioned themes, we invite companies to submit their own innovative ideas that could result in an experiment at Purple NEctar.

Even immature ideas/solutions can be tested and demonstrated. Who knows, other participants and visitors might give you ideas or help you with the actual implementation!

1.2 Swift Blade 2020

The SWIFT BLADE 2020 exercise is part of the Helicopter Exercise Programme (HEP) of the European Defence Agency (EDA). The purpose of the exercise is:

"To enhance tactical interoperability between helicopter units from the participating countries in a combined, joint and realistic threat environment. The focus will be on attack, air assault, medevac and SOF operations."

The Netherlands and Belgium will act as the host countries, in which DHC/Gilze-Rijen has been designated as the headquarters for the exercise. The exercise will take place from **14 to 29 April 2020 inclusive**. During this period, plenty of experiments can be conducted on site by Defence

and its partners from the market. On **29 April**, DHC, SWIFT BLADE and Purple NECTar will open their doors during visitor's day. Interested parties from the entire Defence organisation can explore the very latest materiel Defence has at its disposal. There are also lectures and presentations throughout the day. Registrations for visitor's day open at a later stage.

1.3 Contracting Authority

The Contracting Authority is Defence Materiel Organisation (DMO), part of the Netherlands Ministry of Defence. The DMO is responsible for the procurement of defence materiel for the four Operational Commands: the Royal Netherlands Army (*Koninklijke Landmacht*), the Royal Netherlands Air Force (*Koninklijke Luchtmacht*), the Royal Netherlands Navy (*Koninklijke Marine*) and the Royal Netherlands Military Police (*Koninklijke Marechaussee*).

The DMO was established in December 2004 as a separate directorate of the NL MOD. The DMO consists of civilians and military personnel from the navy, army, air force and military police. This consolidation of logistics and materiel expertise results in the procurement and major maintenance preparation of modern, safe and qualitatively good materiel. The disposal of materiel also falls under the responsibility of DMO.

For more information about the Netherlands Ministry of Defence and the DMO, please consult the website www.defensie.nl.

CHAPTER 2 GENERAL PROVISIONS

This chapter sets out relevant conditions specified by the Contracting Authority for your application. The specific conditions relating to the procedure are elaborated in the next chapter.

2.1 Publication and registration period

The closing date for submitting your application is 11 November 2019. The Contracting Authority has the right not to process registrations received after this date.

The following table shows the indicative schedule:

Phase	Date/period
Date invitation is sent	September 2019
Closing date for submitting applications	11 November 2019
Kick-off at Gilze-Rijen Air Base	20 November 2019
Design phase	November 2019 - April 2020
Plenary session at Gilze-Rijen Air Base	13 February 2020
Detailed planning meeting at Gilze-Rijen Air Base	2 April 2020
Purple NEctar experiments	14 to 29 April 2020 inclusive
Stands ready + icebreaker	28 April 16:00
Purple NEctar Visitor's Day	29 April 2020

The Contracting Authority expressly reserves the right to change the indicative schedule. If this is the case applicants will be informed accordingly.

2.2 Language

All documents related to the invitation will be published in Dutch as well as English. Applicants' documents must be written in Dutch or English.

2.3 Termination of the project

The Contracting Authority reserves the right to unilaterally terminate the project at any time, without this resulting in any obligation to compensation to the participants. One reason for terminating the project could be a change in policy. If this is the case, the Contracting Authority will inform participants in writing of the termination of the project.

2.4 Costs involved in participating

Costs associated with the set-up and execution of the experiments will not be reimbursed by the Contracting Authority, even in the event of a termination as described in paragraph 2.3. The Contracting Authority shall not charge any amount for the provision of the facilities.

2.5 Intellectual property

Technical information, which is understood to mean technical information, software and documentation developed in the context of the experiments is the property of the participant. The participant has the right to apply for a patent on his/her own name for the technical information, but only if the unlimited right of the State to use the results free of charge is guaranteed.

2.6 Confidentiality, security and classification

It may be that a participant must be made privy to classified information or networks in order to carry out an experiment, at the discretion of the Defence Security Authority. If this is the case the General Security Requirements for Defence Contracts 2017 (ABDO 2017) shall apply and the participant must be authorised by the MIVD before he/she obtains access to this knowledge. The level and scope of the classification may have consequences for an experiment's execution and results.

2.7 Communication during the project

All formal communication will be handled by e-mail.
You can mail your registration, questions and comments to:

PurpleNectar@mindef.nl

For commercial matters: Mr M. van Swieten
For other matters: Mr F. Demirtas

Please note that e-mails exceeding 20 MB will not be accepted by our e-mail system.

Commercial agreements can only be made with the persons responsible in the procurement department. Other Defence employees at Purple NEctar have no mandate for this purpose. Any commercial agreement made with unauthorised persons is thus null and void.

CHAPTER 3 DESCRIPTION OF THE PARTICIPATION PROCEDURE

The Purple NEctar procedure comprises five (5) phases. This Chapter explains the phases in more detail.

Your experiment must relate to, and have a clear link with, the themes selected for 2020. The themes are: mission planning, situational awareness and increasing the deployability of personnel and materiel.

Mission planning: By mission planning we understand all activities involved in preparing for missions and exercises and readying materiel and personnel for this purpose. Keywords: networked joint collaboration, accelerating 72-hour process, clarifying goals, focused on achieving shared objectives, etc.

Situational Awareness: By situational awareness we understand everything involved to map out the mission and training area, maintain an overview and provide the right intel to those who need it. Keywords: Blue Force Tracking, information domain, where are our troops, where are my helis, real-time info available at all times during the mission's execution, air-to-air and air-to-surface links, etc.

Increasing the deployability of personnel and materiel: By deployability we understand everything that affects personnel and materiel and improving the distribution thereof. Keywords: Training courses, simulations, VR, health

These three themes include practical challenges that the Dutch armed forces have to cope with. These are described in detail in **Annex 2**. However, your input is possible and also very welcome.

3.1 Phase 1: invitation

The first phase concerns this invitation. If you would like to participate in Purple NEctar 2020, you can notify us by 11 November 2019 at the latest, by completing and returning this form by e-mail to PurpleNectar@mindef.nl:

- a. Registration form (Annex 1)
The Contracting Authority requests that you specify on the registration form which problem and/or challenge from Annex 2 your solution suits best. This makes it easier for us to link you to the right Defence division during the kick-off.
- b. Declaration (Annex 3)
- c. Quad form (Annex 4) On this form you can indicate what your solution looks like (if known) and the resources you think you need.
The Contracting Authority would like to know which (Defence) resources are required to be able to conduct the experiments. Therefore, we request that you complete this form as early on as possible so the resources can be reserved.

3.2 Phase 2: Kick-off, Wednesday 20 November 2019

On the basis of your indicated preference you will be divided into clusters, if required. During the kick-off you receive information about the specific problem. You can use it to determine whether your experiment is appropriate. You may choose between an active or a passive contribution:

- a. Active: test with a unit, so you have your experiment actually conducted by a unit (to test your solution).
- b. Passive: demo in an operational setting, so demonstrating (with the help of a unit) what your solution entails, but not testing it.

3.3 Phase 3: Design phase

During this phase, you jointly develop the experiment with the Defence division.

During this phase, the project team assesses whether the experiment will be conducted. The link to the theme, feasibility and ability to connect it to the Defence division are examined.

- Is the solution innovative and worthy of an experiment?
- Can the solution be applied in the operational domain?
- Does it relate to at least one of the units' demands in the problems cited?
- Is there a unit (sponsor) that wants to test it with you?

During this phase, at least two plenary sessions will be organised. They will take place in February and April, in accordance with the planning.

3.4 Phase 4: Contract phase

Prior to the experiments, if necessary, a contract is concluded with a participant. In this contract agreements are established about confidentiality and intellectual property. Participants cannot derive any rights from this contract with regard to any subsequent assignments (also see paragraph 3.8).

An inventory will also be compiled of the resources necessary to conduct the experiments.

3.5 Phase 5: Implementation phase (experiments)

The actual experiments will be conducted between **14 April and 29 April 2020 inclusive**. The first few days will be used to practice, experiment and fine-tune the solutions. The experiment period will conclude with a visitor's day on 29 April. During this day you will have the opportunity to demonstrate your solution/experiment to a large audience.

There will also be a marketplace where the government, knowledge institutes and industry can exhibit their innovations that are not yet mature enough for an experiment/demonstration.

3.6 Purple NEctar APP

For Purple NEctar an APP is available on which all relevant information can be consulted prior to and during the event.

This is why, during this phase, you are requested to supply information to supplement the Purple NEctar APP. This information will consist of your company information and logo, and a description of your contribution.

3.7 Compulsory Grounds for Exclusion

An applicant must not be involved in the circumstances specified in Annex 3: 'Declaration'. For this purpose the applicant must include a legally signed Declaration with his/her registration.

3.8 Follow-up

Participating in Purple NECTar does not mean the Contracting Authority will proceed to order or contract the solution. If, once Purple NECTar has ended, the Contracting Authority decides to apply a solution, this will take place by means of a (European) tender taking into account laws and regulations and the internal procurement processes applied by Defence. A participant may not derive any rights from participation in Purple NECTar with regard to any subsequent contracts.

ANNEXES

ANNEX 1 Registration form

This document is included as a separate document.

ANNEX 2 Problems and challenges for Purple NEctar 2020

This document is included as a separate document.

ANNEX 3 Declaration

This document is included as a separate document.

ANNEX 4 Quad form

This document is included as a separate document.