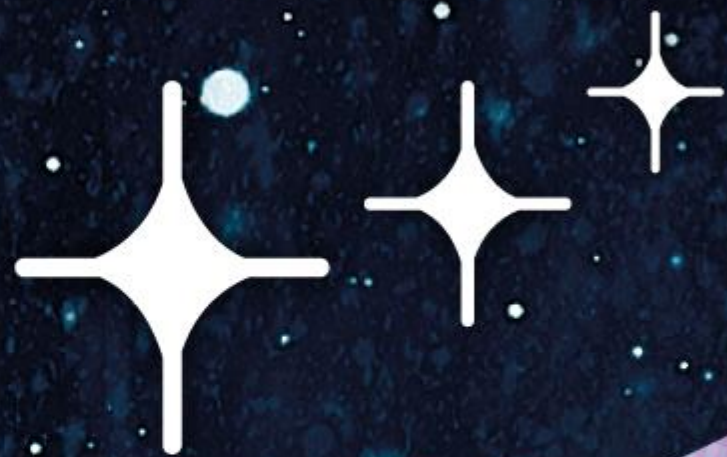


DEFINSPACE 2022



24h
pour **imaginer**
la défense spatiale
de **demain**

Hackathon
le 3 & 4 juin 2022
en France et
en Europe

**Expert
Guide**





Friday June 3rd

1:30pm : Welcome session via GoToWebinar

2:15pm – 3:00pm : logistics verification (teams, rooms, challenges...) and start of group work

4:30pm : Workshop on jury expectations via GoToWebinar

5:30pm : Work through Saturday

Saturday June 4th

10:00am – 12:00pm : Training pitch session

1:15pm – 2:00pm : Jury brief via GoToWebinar

3:00pm : Project presentations in front of jury

5:30- 6:00pm : Jury deliberations

6:00pm : Announcement of winners and event closing via GoToWebinar

**You are welcome
throughout the entire
duration of the
DefinSpace hackathon**

**You can provide coaching
depending on your
availability.
Your support is on a
voluntary basis.**

Thank you for your help !



To connect to Discord:

Create your account with your first and last name and log in at the link below (in white).

If you already have an account, log in with your account at the same link:

<https://discord.gg/definspace>



What to do:

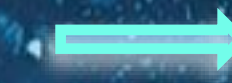
1 Share **your knowledge** of the ecosystem (what exists, doesn't exist, the context etc.)

2 Help evaluate the relevance of the solution proposed

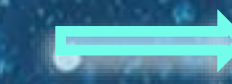
3 **Highlight** any issues in the solution that need clarification

4 Maintaining the **creative process**

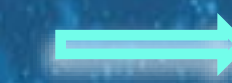
5 **Support** team morale



Answer each team in the most appropriate way possible



Find a balance between what the team is asking, their understanding of the problem and time constraints



Manage your time between each team and move from one team to another

BE CAREFUL:
You are not a team member:
You must be impartial!



CHALLENGE SHEET

TECHNICAL SUBJECT

SPACE TRAFFIC MANAGEMENT (STM) WILL RELY FIRST AND FOREMOST ON CAPABILITIES: WHAT CONTRIBUTION COULD THE ARMED FORCES OF EU MEMBER STATES PROVIDE?

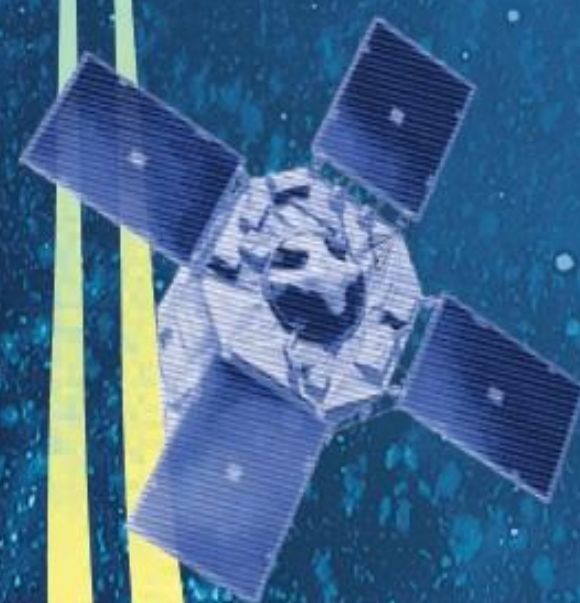
The EU wishes to engage in STM with a high level of autonomy and reliability. Consequently, it must encourage the development of existing capabilities and/or acquire new ones through its member states, with European industry and on its own- essential guarantees of efficiency and credibility.

The armed forces of EU member states which conduct space operations are acquiring or are in the process of acquiring the means to ensure a high degree of autonomous space situational awareness and command.

You have 24 hours to brief us about the contribution the armed forces of EU member states can bring to future STM capabilities. In particular through disruptive technologies you see emerging in the field of sensors and data mining, which could be game changers in this field by 2035.

WITH THIS IN MIND, YOU COULD:

- ▶ Explore existing or emerging technologies likely to revolutionize the capabilities of the armed forces of EU member states in terms of space situational awareness.
- ▶ Select those which you think are potential vectors for the best possible synergy to also contribute to STM capabilities.
- ▶ Depending on the observed or expected maturity levels and with the same investment (order of magnitude of a few hundred M€), propose the best technologies possible according to the ratio (operational added value) versus (possible time to market).
- ▶ Take into account the security aspects which are important in this dual civil-military field (balance between maximum contribution/sensitive data protection)



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2022 ✨ ✨ ✨



CHALLENGE SHEET

GENERIC SUBJECT

HOW SHOULD MINARM DEAL WITH THE ADVENT OF STM TO PRESERVE FREEDOM OF ACCESS AND ACTION IN SPACE?

In the context of very strong space sector growth, with an exponentially increasing number of satellites in orbit, and an ever-increasing number of diverse actors (data, services...) along with the fact that space is seen as ever more strategic, all space sector actors agree on the need for STM with a global objective of security (launches, orbits, end of life, etc).

Europe is no exception and especially since the start of 2021, with the announcement of a future major STM program. With the multiplication of forums, studies, and position-taking, in just one year and certainly more in recent months, Europe has put itself in battle mode to be ready for this important event. This is not only a global issue of security but also of strategic autonomy, space capabilities, standards, and regulation which impact all state, civil, military and private actors.

You have 24 hours to brief us on the threats and opportunities associated with setting up an STM for the MINARM's freedom of access and action in space.

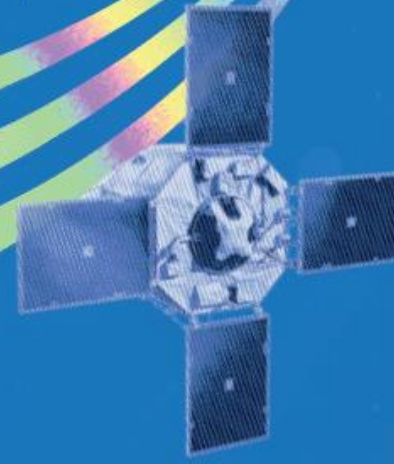
TO DO THIS, YOU CAN:

- ▶ Present the different aspects of STM (capabilities, regulation, standards..) and identify those which could especially concern MINARM.
- ▶ Describe the possible consequences of each of the previously identified aspects then rank them by threat level.
- ▶ For those which present a high risk of constraint or an interference with our freedom of access and action in space, identify if preventive measures seem possible to you to limit the extent of it (STM is still at the beginning of its development)
- ▶ You will present the opportunities for MINARM and the best means to seize them.



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2022





jury name

team name

generic challenge

technical challenge

OVERALL UNDERSTANDING

- ▶ presentation of the context
- ▶ presentation of the problem
- ▶ originality of the problem raised (based on challenge information, several problems can be identified)

 /6 pts

RESOLUTION

- ▶ innovative, original character of the solution proposed (for the technical and the generic challenge)
- ▶ consideration of all stakeholders, organisations and existing technologies
- ▶ coherence of the proposed action plan (feasibility relative to objectives/to the problem)
- ▶ solution that can be aligned with a short-term, middle-term, or even long term vision

 /8 pts

EXPECTED BENEFITS FOR FRANCE AND EUROPE

- ▶ impact on defence space (strategic) and on major societal issues
- ▶ impacts in terms of creation of new services

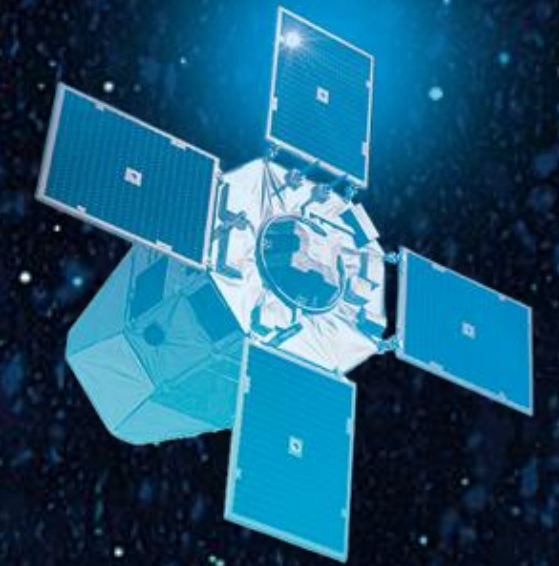
 /3 pts

KNOW HOW

- ▶ presentation, ability to bring the mission to life
- ▶ favourite
- ▶ compliance with presentation specifications (Powerpoint ten pages maximum, timing)

 /3 pts

total /20 pts



Your resources for the Hackathon:



Friday June 3rd

1:30pm – 2:00pm : Plenary session on GoToWebinar :

<https://bit.ly/3NK7ELi>

4:30pm – 5:00pm : Workshop on jury expectations :

<https://bit.ly/3MZwVRN>

Saturday June 4th

1:15pm – 2:00pm : Jury Brief via GoToWebinar :

<https://bit.ly/3NMLn1>

6:00 pm : Announcement of the winners and closing of the event via GoToWebinar :

<https://bit.ly/39UVHne>



CONTACT



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For more informations :

Go on our website :

definspace.fr

