

# AHEAD Project presentation

CERIS Workshop  
Foresight & Key Enabling Technologies

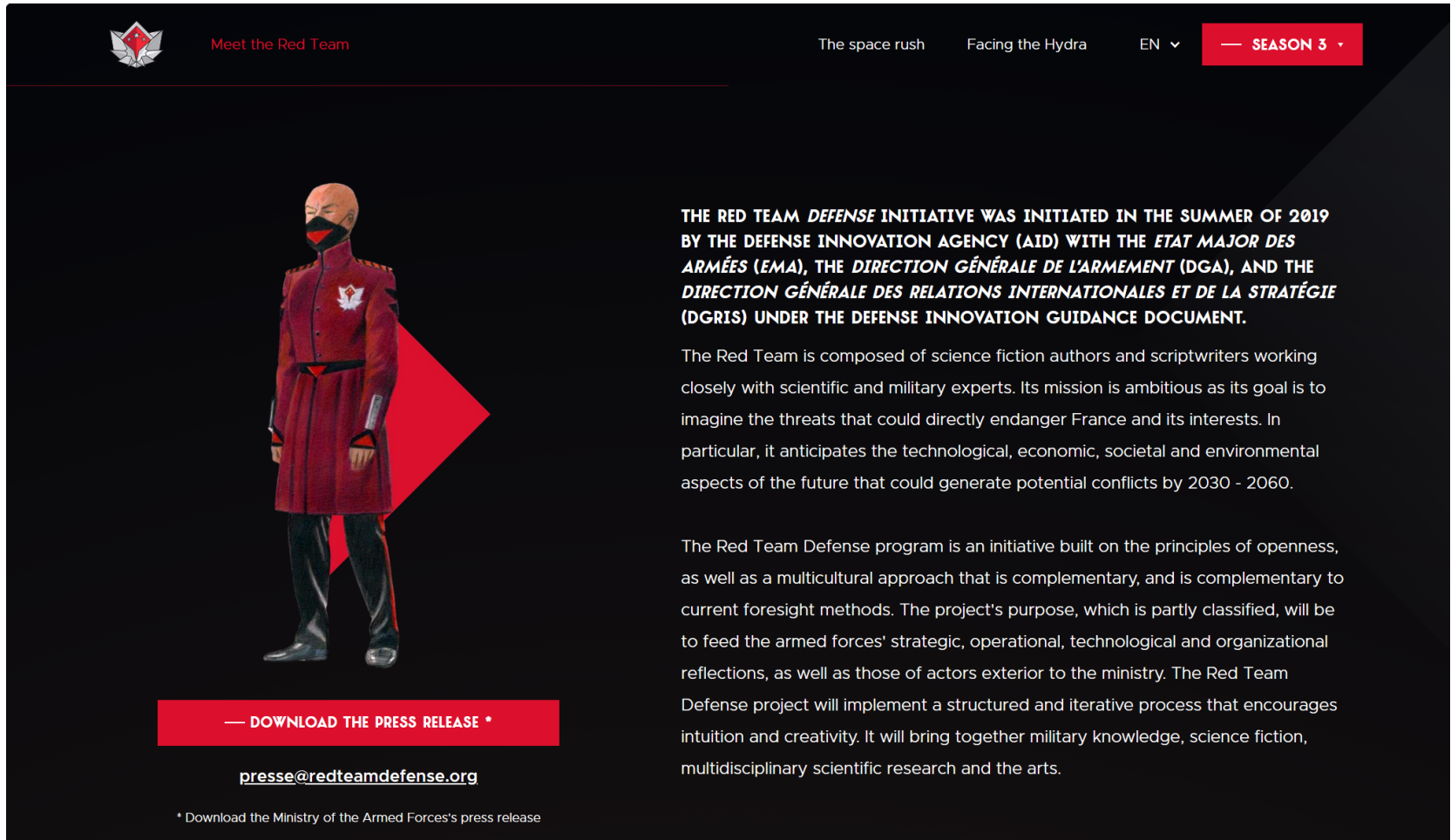
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# How it started : [Discover the Red Team \(redteamdefense.org\)](https://redteamdefense.org)



Meet the Red Team

The space rush Facing the Hydra EN — SEASON 3



**THE RED TEAM DEFENSE INITIATIVE WAS INITIATED IN THE SUMMER OF 2019 BY THE DEFENSE INNOVATION AGENCY (AID) WITH THE ETAT MAJOR DES ARMÉES (EMA), THE DIRECTION GÉNÉRALE DE L'ARMEMENT (DGA), AND THE DIRECTION GÉNÉRALE DES RELATIONS INTERNATIONALES ET DE LA STRATÉGIE (DGRIS) UNDER THE DEFENSE INNOVATION GUIDANCE DOCUMENT.**

The Red Team is composed of science fiction authors and scriptwriters working closely with scientific and military experts. Its mission is ambitious as its goal is to imagine the threats that could directly endanger France and its interests. In particular, it anticipates the technological, economic, societal and environmental aspects of the future that could generate potential conflicts by 2030 - 2060.

The Red Team Defense program is an initiative built on the principles of openness, as well as a multicultural approach that is complementary, and is complementary to current foresight methods. The project's purpose, which is partly classified, will be to feed the armed forces' strategic, operational, technological and organizational reflections, as well as those of actors exterior to the ministry. The Red Team Defense project will implement a structured and iterative process that encourages intuition and creativity. It will bring together military knowledge, science fiction, multidisciplinary scientific research and the arts.

— DOWNLOAD THE PRESS RELEASE \*

[presse@redteamdefense.org](mailto:presse@redteamdefense.org)

\* Download the Ministry of the Armed Forces's press release

# Fiat lux et facta est lux\*

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HORIZON-CL3-2022-SSRI-01-01:

Increased foresight capacity for security call  
(Horizon Europe 2021-2022 work programme)

\* " *Let there be light: and there was light*" (Gen 1.3)

# Great opportunity for LEAs

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- Try our hand at the same game as the military.
- Participate to a project led by security practitioners relying on “technical partners” with expertise in foresight & criminology.
- Demonstrate the value of foresight by delivering capability roadmaps our bosses can make decisions with.
- Change LEAs’ mindset: anticipating and planning can be applied to the civil security sector.

# AHEAD in a nutshell

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- Aims to design and implement a foresight methodology then generate capability roadmaps for civil security practitioners
- Strong internal security forces component (10 out of 13 consortium members)
- Started on 01/09/2023.
- Articulation of research around 5 foresight exercises, responding to HE cluster 3's operational destinations:
  - Fight against crime and terrorism (FCT)
  - Border Management (BM)
  - Enhanced cybersecurity (CYB)
  - Disaster resilient society (DRS)
  - Infrastructure (INFRA)

# Where are we?

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- Completion of the 1st AHEAD Foresight exercise on « online policing » (alpha stage):
  - Analysis of results
  - Assessment of the “evidence-based” capability roadmap which was generated
- About to start: 2<sup>nd</sup> AHEAD Foresight exercise on Border Management:
  - Looking for STEEPL experts
  - if you are interested, please contact AHEAD project manager:

[elarnaouty.m@civipol.fr](mailto:elarnaouty.m@civipol.fr)

# The research perspective

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- Identification of foresight approaches for civil security contexts (University of Ghent)
- Foresight framework (UPPERION)

# Foresight for Civil Security Contexts

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**In the context of civil security, foresight is the systematic study of**

- exploring potential future outcomes,
- regarding changing trends in science and technology,
- with consideration for public policy (Miles, 2010).

It is difficult to predict how the civil security landscape will change in the future. Law enforcement agencies need to critically assess and adapt police capabilities prepared for evolving technology and civil security concerns.

**Foresight methods can help law enforcement agencies**

- determine possible threats,
- assess their own capabilities, and
- inform the development of threat response policies.



# Review of Foresight Programs

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**Aim:** Identify advanced foresight approaches developed by EU LEAs, non-EU LEAs, and organisations from other sectors that could be tailored to the civil security domain.

## Methodology

- We identified **42 programs** (Madjlessi et al., 2023, Appendix A).
  - Literature was identified through search engines and academic databases (i.e., Google; Google Scholar; ProQuest) from September to December 2023.
  - Article titles, abstracts, and subject lines were searched using a logical combination of search terms (“foresight” or “future studies” or “anticipation” or “technology foresight” or “strategic foresight” AND “capabilities” or “government” or “defence” or “megatrends” or “scenarios” or “strategy”). Reference lists of selected literature were also searched to identify other potentially relevant sources.
- We selected **10 countries and organizations** to review based on:
  - large-scale government involvement,
  - deliberate rationale for methodology
  - publicly accessible information,
  - prior internal or external methodological evaluation
  - recommendations of the AHEAD Consortium members

# Key Foresight Programs

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## 1. Finland: Future Frequency

- The workshop is accessible and easy to understand, with the goal of encouraging open-minded thinking about possible futures and individual agency to impact the future.

## 2. European Commission: Scenario Exploration System

- The game is adaptable and emotionally engaging, with the goal of adopting long-term perspectives to explore alternative futures needed for policymaking.

## 3. Japan: Science and Technology Foresight

- The Delphi survey is a long-running method of curating expert consensus across disciplines to predict technology advancements, including the estimated degree of importance, expected time of realization, and goals needed to be set, with recommendations tied to subsequent policymaking.

## 4. European Defence Agency: Technology Watch & Foresight

- The multi-method framework demonstrates robust defence research, with the goal of facilitating creative thinking and informing future defence policies. The exercise involves back-casting, scenario building through a virtual world café discussion, and a futures-backward method of technology identification with a large range of experts.

## 5. United States: Global Trends

- The reports provide scenarios on key trends and uncertainties in the coming two decades, with the purpose of assisting policymakers in developing national security strategy. The reports are considered highly robust, but there is little to no information about the methods used.

# Key Take-aways

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- **Participants should demonstrate**

- Competence – being knowledgeable in their field
- Diversity – representing a wide range of disciplines
- Engagement – participating actively
  - e.g., Finland; European Commission; Japan; European Defence Agency

- **Subsequent impact**

- Increasing open-mindedness, long-term thinking, personal agency, and emotional engagement about the future
  - e.g., Finland; European Commission
- Connecting and communicating foresight results for better informed policy and decision making
  - e.g., Japan; European Defence Agency, United States

- **Robust methods**

- Access to data and resources necessary for informed anticipation are often available to defence and intelligence agencies
- However, common research practices, such as evaluation and transparency, are often limited across foresight studies.
  - e.g., European Defence Agency; United States

# Questions and Contacts

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