

# PREPARATORY ACTION ON DEFENCE RESEARCH



## SESSION Technology Foresight

INFODAY AND BROKERAGE EVENT  
27 JUNE 2017

Does not represent an official legal opinion of the European Defence Agency



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# PREPARATORY ACTION ON DEFENCE RESEARCH



## Call Text presentation CSA Topic Strategic Technology Foresight

The European Defence Research Runway

# Strategic Technology Foresight - Challenge (1/2)

## The European Defence Research Runway

- Rapid changes in many domains with huge impact on the global security situation
- Monitor important trends and their defence and security implications
- Includes Horizon Scanning & Technology Watch:
  - Signalling of emerging threats
  - Identification of emerging technologies
  - Potential opportunities + analysis of relevant technological developments

# Strategic Technology Foresight - Challenge (2/2)

## The European Defence Research Runway

Strategic technology foresight is challenging but needed in view of:

- the **added value of a common European approach** in properly covering the full range of technologies and sources;
- the need to build a **common understanding of future technology** and its impact on defence trends in order to plan and coordinate accordingly our actions;
- the need for an **innovative approach** with respect to the way these activities traditionally are conducted;
- the **growing relevance of the civil technologies** for defence and the need to include the developments in the civil sector in the exercise;
- identifying **new technologies**.

# Strategic Technology Foresight - Scope (1/3)

## The European Defence Research Runway

- Performing joint technology foresight activities supported by methodologies such as horizon scanning, technology watch, scientometric tools, expert consultation activities.
- Identifying emerging defence research areas for potential exploration in the next Multi-annual Financial Framework.
- Propose and validate a methodology and process for strategic technology foresight activities to be carried out cyclically.
- Take into account similar activities conducted in EDA, NATO and other military and/or civil organisations.

# Strategic Technology Foresight - Scope (2/3)

## The European Defence Research Runway

Activities that should be considered could include, amongst others:

- **Collection of information** (national sources, EU research programme, occidental and non-occidental sources);
- **Analysis** (geopolitical trends, defence and security trends, technology, industrial trends);
- **Engagement with European industry** trade bodies;
- **Evaluation/assessment for defence and security** (future scenario-based evaluations such as Disruptive Technology Assessment Games, consultations of technology and military experts, input from “unconventional” groups with an outside view, more creative thinking, ...);
- Defining and setting up **strategic trends for the medium and long term**;
- **Management and controlled dissemination of results** (secure web-based access with public and restricted dissemination).

# Strategic Technology Foresight - Scope (3/3)

## The European Defence Research Runway

- The strategic technology foresight should be coupled to a process and method for scoping EU-funded defence research based on scenarios to illustrate potential future conflicts.
- Proposals should include elements to ensure continued monitoring and updating beyond the action's lifetime.
- EU contribution: EUR 0.95 million.
- **No more than one action will be funded.**
- **Topic complementary to PADR-STF-02-2018 – Options for complementary grants to be included.**
- **Deadline for applications: 21/09/2017**

# Strategic Technology Foresight - Expected impact

## The European Defence Research Runway

- Underpin coordination of defence research activities at the EU and national level;
- Prepare the long term agenda for defence research in the EU;
- Explore themes for a future European Defence Research Programme;
- Underpin coordination of agendas and optimisation of synergies between the EU defence and civil research activities under the next Multiannual Financial Framework;
- Test the approach through proposing topics for the Future Disruptive Technologies technology area in the last year of the PADR.

**Type of Action:** Coordination and Support Action (CSA)





The information contained in these slides on EDA projects/studies is provided for informative purposes only, and is not a prerequisite (precondition) for application for the call of proposals.  
The only legally binding documents are those published in the Research and Innovation Participant Portal.

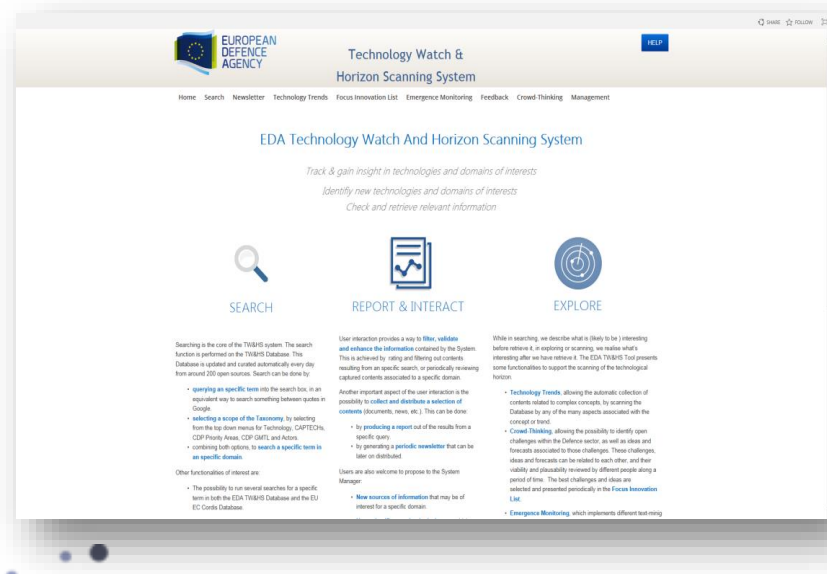
# PREPARATORY ACTION ON DEFENCE RESEARCH



## Information on EDA projects / studies

# EDA TechWatch Tool

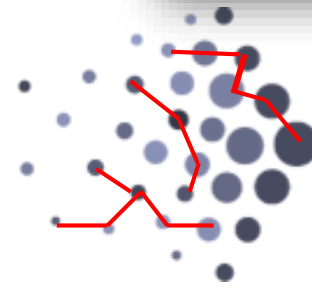
- An adapted Technology Watch / Horizon Scanning methodology to EDA
- A trial tool developed to support the proposed Technology Watch activity



INFORMATION  
SOURCES



AUTOMATIC  
SHORTNING



Technology dossier

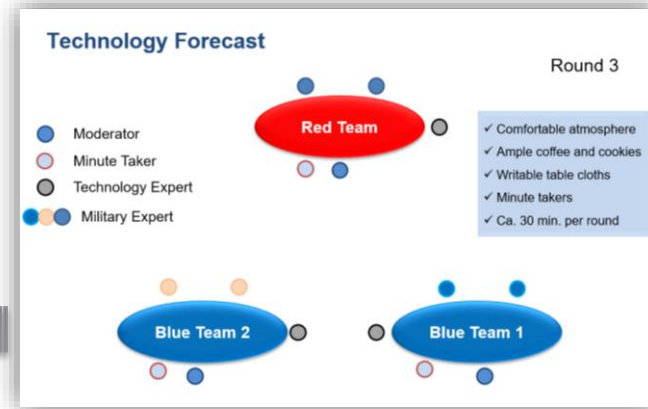
Technology Trends

Focus Innovation list:

Emergence monitoring

# EDA TechWatch Tool Improvements

The screenshot shows the homepage of the EDA Technology Watch And Horizon Scanning System. At the top, it features the European Defence Agency logo and the title 'Technology Watch & Horizon Scanning System'. Below this is a navigation menu with links like Home, Search, Newsletter, Technology Trends, Focus Innovation List, Emergence Monitoring, Feedback, and Crowd-Thinking Management. The main heading is 'EDA Technology Watch And Horizon Scanning System' with a subtitle 'Track & gain insight in technologies and domains of interests'. There are three main sections: SEARCH, REPORT & INTERACT, and EXPLORE. Each section has a brief description and a list of features or capabilities. For example, the SEARCH section mentions 'quering an specific term into the search box' and 'selecting a scope of the Taxonomy'. The REPORT & INTERACT section describes 'User interaction provides a way to filter, validate and enhance the information contained by the System'. The EXPLORE section discusses 'Technology Trends' and 'Emergence Monitoring'.



Based on DTAG, SETAG

The screenshot shows a news website interface with 'Top Stories' and a line graph. The graph plots 'Language on Period: Jun 23, 2017 6:20 AM - Jun 23, 2017 6:20 PM' with a y-axis from 0 to 400. The graph shows several lines representing different languages or topics over time. Below the graph, there are news articles with headlines like 'Faulty fridge sparked London tower fire: Police' and 'Trump says he thinks "tapes" weren't kept Comey honest'.

Based on Technology Innovation Monitoring & European Media Monitoring

Questions?

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Thanks for your attention