





JOINT, ENABLING

(FR) Timely Warning and Interception with Space-based TheatER surveillance (TWISTER)

(established in November 2019)

For Public Release

PROJECT DESCRIPTION

The project aims at strengthening the ability of Europeans to better detect, track and counter hypervelocity threats, in close cooperation with NATO, through a combination of enhanced capabilities for space-based early warning and endo atmospheric interceptors.



FR, DE, ES, FI, IT, NL

The project will address different types of threats, like ballistic missiles up to 3500 km range (including manoeuvring ballistic missiles and re-entry vehicles), high-altitude supersonic/hypersonic cruise missiles, hypersonic glide vehicles and other high manoeuvring Air Breathing Targets (ABT).



BE, HU, SE

Early-warning satellites will provide reliable and timely information on initial detection of the threats, their trajectory and their characterisation, in order to allow their neutralization by an endoatmospheric multirole interceptor.



IDEATION **INCUBATION EXECUTION** CLOSING

OBJECTIVES/PRODUCTS

To this end, the project intends to:

INDICATORS

3rd wave

2019

a) Develop a common understanding of the requirements and threats,

Project Execution Year (PEY) and Project Completion Year (PCY):

PEY

2024

• Interceptor Concept phase (March 2021)

- b) Develop a future European space-based Early Warning capability carrying out the initial detection and tracking of those threats before handing them over to ground based radars,
- c) Develop a new multirole endo atmospheric interceptor able to face a large set of current and future complex and evolving air and missile threats.

PCY

Not identified yet



Contribution to the more binding commitments Yes



Capability **Perspective**

EU CDP priority Air Superiority

CARD references

Counter-UAS as initial focus of A2/AD. Defence in Space. Ground Based Air Surveillance Medium and Long-Range Air Defence and BMD.

Focus Areas:



Operational Viewpoint

Surface Based Air & Missile Defence



CRITERIA FOR SUCCESS

EDF call preparation.

DELIVERABLES ACHIEVED

• Shared view on threats and requirements on both parts of TWISTER

• High Level Requirements agreed for EW architecture study (March 2020)

Strong involvement of the participating MS in the management and the co-funding of the activity are necessary to reach the high level of ambition set for these capabilities.

• EW technological studies and ground demonstrator (Feb 2022) in the frame of EDIDP and



No