

# NEWA

## New European WAtcher

### OBSERVING OUR BORDERS FROM SPACE

The security of Europeans is increasingly dependent on space assets for enhanced border monitoring and effective law enforcement throughout the EU. The project NEWA draws up a sustainable road-map outlining use of radar satellites for European space-based Reconnaissance & Surveillance (R&S).

With borders stretching more than 10.000 kilometres across land and some 50.000 kilometres at sea, new space based technologies for border surveillance are of strategic importance to the EU. Across these vast areas, radar satellites hold the potential to feed intelligence to border control and law enforcement authorities throughout Europe. Moving Target Indication by Space Based Radar (MTI SBR) promises to enhance efforts to mitigate trafficking of human beings and drugs. However, the effectiveness of radar satellites at the service of European space based R&S is dependent on the accessibility of critical technological components, some of which are currently not produced in Europe. Therefore NEWA undertakes a comprehensive mapping of existing technological gaps that prevent the establishment of

such capabilities. Hence the NEWA project seeks to support the European Commission, the European Defence Agency (EDA) and the European Space Agency (ESA) in their work aimed at identifying critical technologies for European strategic non-dependence in the area of moving object detection and identification.

NEWA will support further European capabilities by identifying the most critical innovation concept techniques that need to be developed in Europe in order to secure effective space-based R&S. Also NEWA will help EU research centres invest into this field of interest. In doing so, the project will draw up a sustainable European roadmap for such technological development, taking into account the different requirements of the authorities within the EU that are responsible for border control and law enforcement in this area of space security and defence policies.



**CLAUDIO CATALLO**  
IS PROJECT COORDINATOR

### QUESTIONS & ANSWERS

#### What do you want to achieve with this project?

The main purpose of NEWA is to review the state of the art in EU competences for the MTI technique and the useful technologies. The aim of the final Roadmap is to support the development of next generation Radar satellite capabilities for citizen security and environmental monitoring.

#### Why is this project important for Europe?

The importance of NEWA is to develop an EU Roadmap for the implementation of independent T&T, and increase EU competences not only for the benefit of the large integrator companies but also for PMIs and SMEs.

#### How does your work benefit European citizens?

The European citizens will benefit from NEWA by the wide range of applications, such as environmental monitoring, and maritime surveillance that can focalize efforts on the implementation of T&T indicated by the study



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**NEWA addresses State of the Art in EU Technology and Techniques (T&T) useful for identifying and following moving objects by means of radar satellites, which could be used for smart border surveillance.**

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## LIST OF PARTNERS

- Thales Alenia Space Italia SpA, Italy
- E-GEOS, Italy
- Istituto Affari Internazionali, Italy
- Universitat Politecnica de Catalunya, Spain
- Foundation puor la recherché stratégique, France
- INDRA Espacio, Spain
- Selex System Integration Ltd, United Kingdom
- Thales Systemes Aeroporttes S.A, France

## COORDINATOR

**Thales Alenia Space Italia SpA, Italy**

## CONTACT

**Claudio CATALLO**

Tel: +39 06 4151 2551

E-mail: [claudio.catallo@thalesalieniaspace.com](mailto:claudio.catallo@thalesalieniaspace.com)

## PROJECT INFORMATION

New European WAtcher (NEWA)

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