



**EUROPEAN NETWORKING FOR SATELLITE  
TELECOMMUNICATION ROADMAP  
FOR THE GOVERNMENTAL USERS REQUIRING  
SECURE, INTEROPERABLE, INNOVATIVE  
AND STANDARDISED SERVICES**

**September 2020**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 870330.

# SECURE SATELLITE COMMUNICATIONS (secure SatCom)



as an answer to:

- network interruptions and wider break-downs due to man-made and natural disasters;
- cyber threats.

**Crisis & disaster management**



**Logistics support**



**Key infrastructure monitoring**



**Border surveillance**



**Defence**



**Arctic communication**



**Maritime surveillance**



# GOVERNMENTAL SATELLITE COMMUNICATIONS

- Increasing dependence on highly sensitive information for decision-making;
- Connectivity and access not always guaranteed or at a high cost;
- Growing demand for secure and highly-available connectivity in a resilient network.

**Reliable communication  
independent of private sector companies**

**GOVSATCOM**

# GOVSATCOM

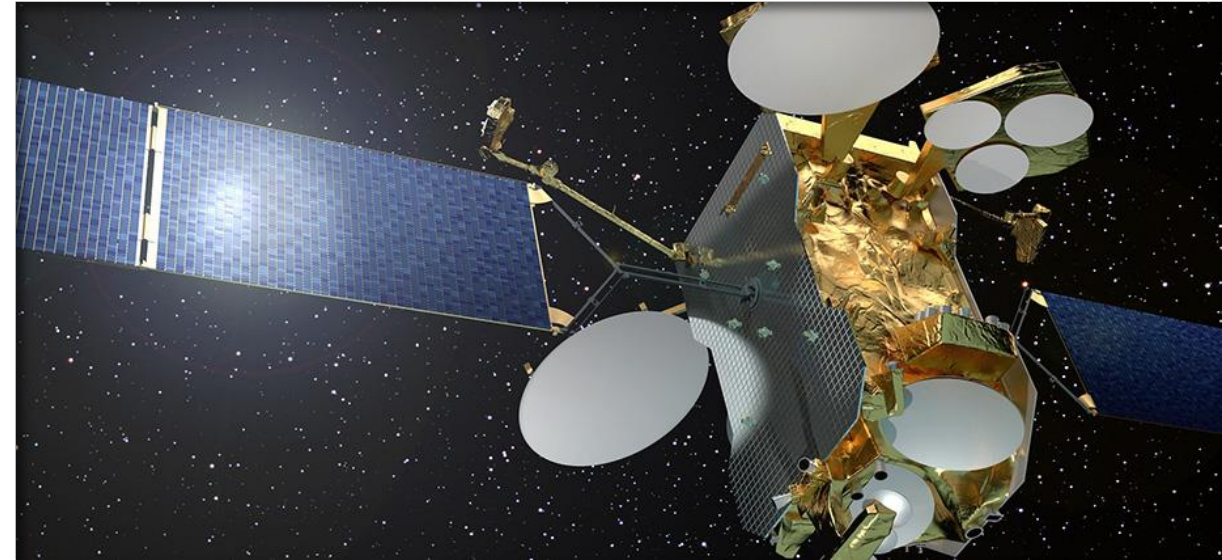


- Governmental Satellite Communications (GOVSATCOM) identified as one of key capability development programmes by the European Council;
- Programme to be developed by the European Commission, European Space Agency, European Defence Agency and EU Member States;
- Dedicated to EU governmental stakeholders.

Source: European Space Agency, [www.esa.int](http://www.esa.int)

# GOVSATCOM

- Pooling & sharing relevant governmental and commercial satellite assets and solutions;
- Providing secured and guaranteed access to satellite communication capacity and services;
- Fostering civil-military synergies;
- Affordable to end-users in terms of terminal cost and service access;
- Boosting competitiveness and innovation.



Source: European Defence Agency, [www.eda.europa.eu](http://www.eda.europa.eu)

# ENTRUSTED PROJECT RATIONALE

- A clear definition of governmental users with respect to potential secure SATCOM services;
- Identification of current and evolving use cases, user needs and associated requirements;
- Identification of gaps between secure SATCOM capabilities and governmental users' requirements;
- User-driven approach in secure GOVSATCOM services development (tailored user access);
- Risk management and security accreditation.

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# PROJECT CONSORTIUM

## MEMBER STATES REPRESENTATIVES



Austria



Cyprus



Luxembourg



Romania



Finland



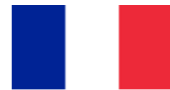
Greece



Spain



Netherlands



France



Poland



Italy



Portugal



Malta

## EU AGENCIES AND ENTITES



GSA

GSA



JRC



SATCEN



European Union  
EXTERNAL ACTION

EEAS



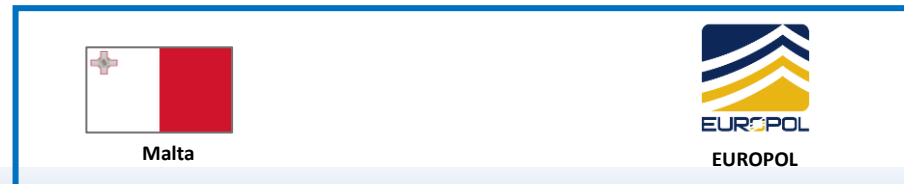
EFCA



EMSA



EDA



EUROPOL  
EUROPOL

# PROJECT OBJECTIVES

1. Establish and maintain **the Network of governmental Users (NoU)** of secure GOVSATCOM services;
2. Identify **governmental user needs** for secure SATCOM systems and create a consolidated and prioritised **set of user requirements** for the EU GOVSATCOM programme;
3. Develop a **synergies map** that serves the uptake of secure GOVSATCOM solutions among users, based on different capabilities and requirements;
4. Elaborate a **long-term roadmap and coordination plan for research and innovation activities (RIROC)** in the field of secure GOVSATCOM.

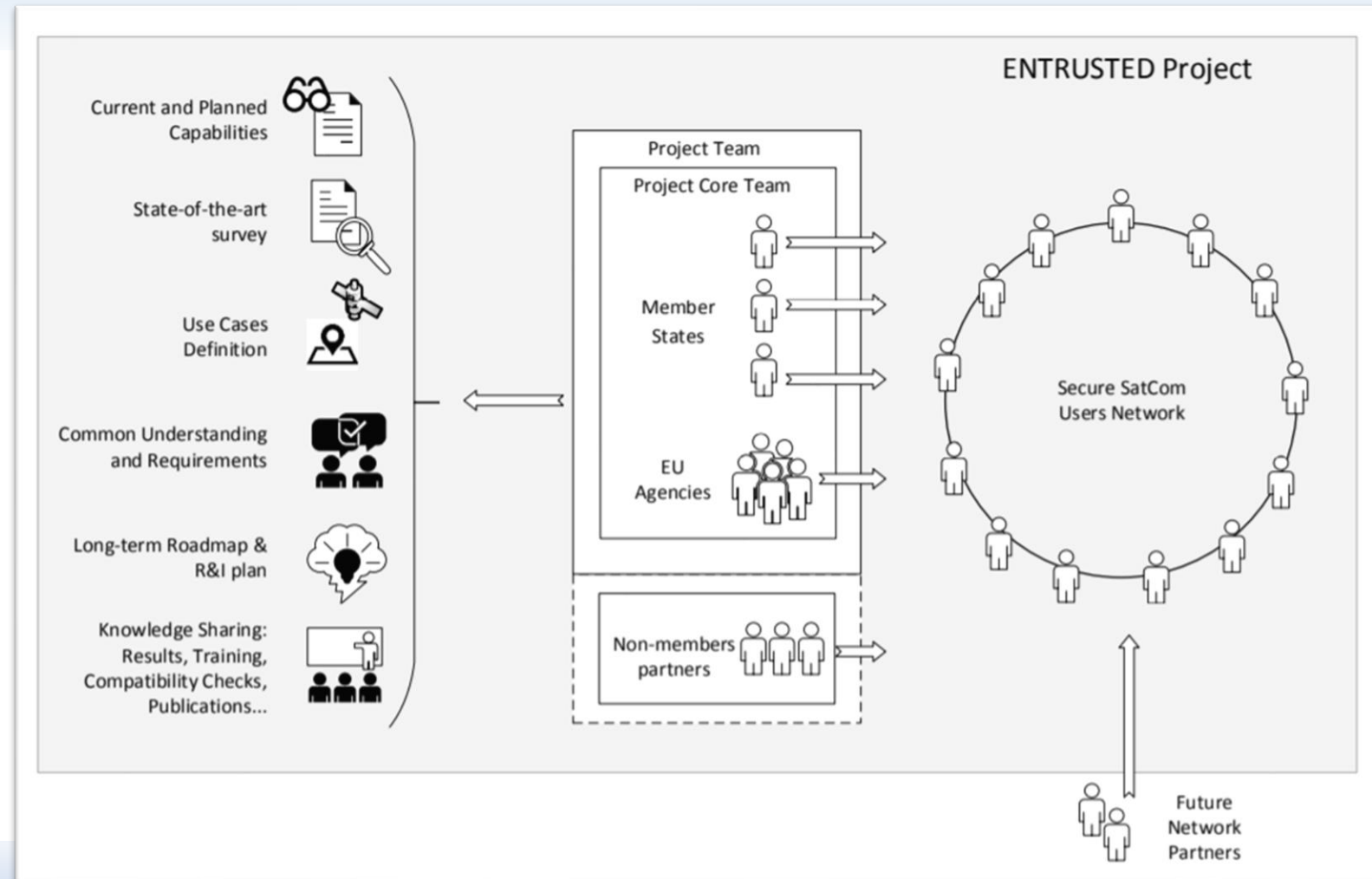


# RIROC

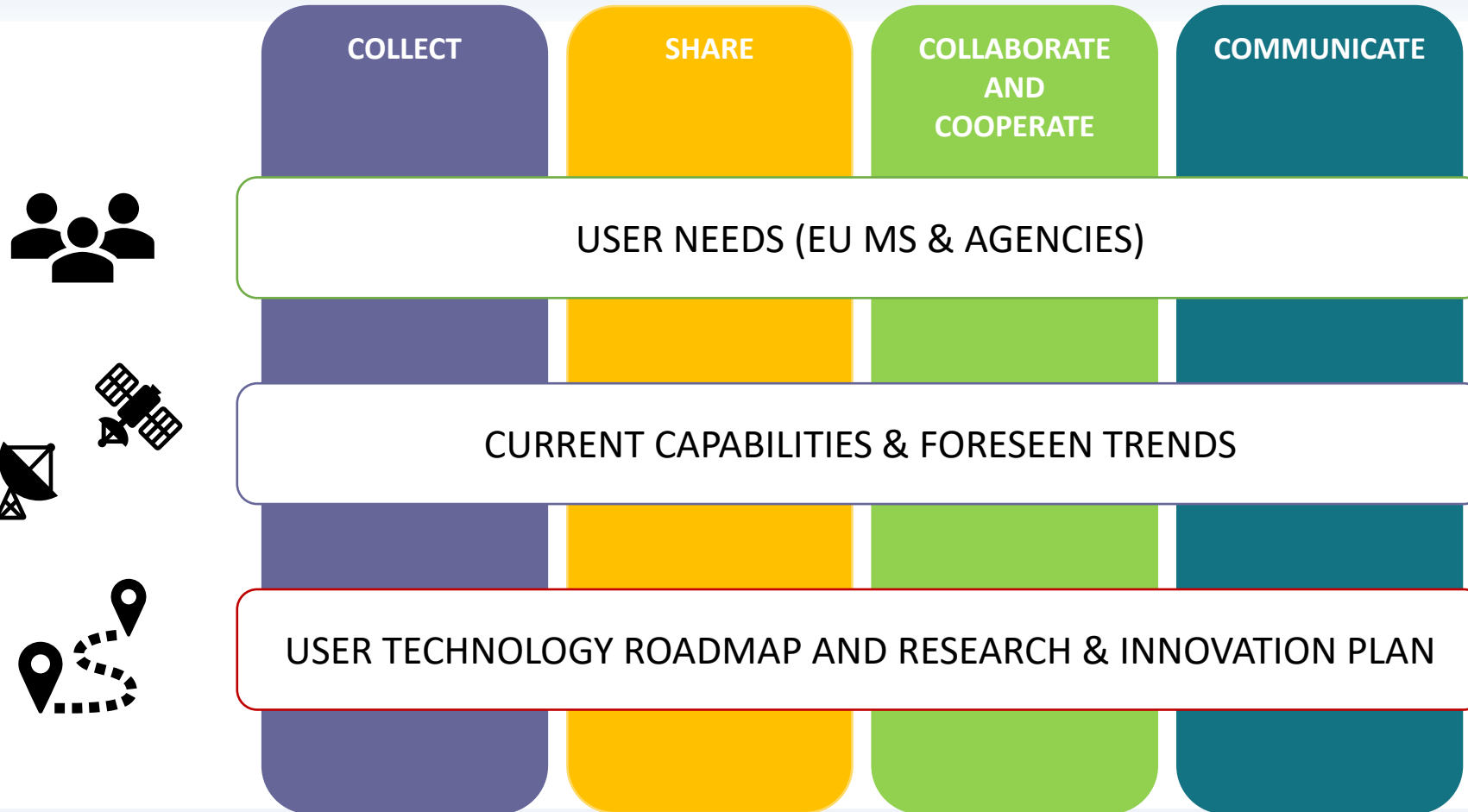
- Identification and prioritisation of topics that require R&I, in order to satisfy user needs and fill-in capability gaps;
- Indication of potential funding sources;
- Proposition of implementing actors and actions (e.g. joint R&I projects).

**Intended as a point of reference for the NoU and a wider European R&I community (funders, institutes and industry).**

# PROJECT CONCEPT



# PROJECT CONCEPT



# PROJECT OUTLINE

WP LEADERS



GSA



SatCen



Agenzia Spaziale Italiana



European Commission



POLISH SPACE AGENCY

WORK PACKAGE 1: PROJECT MANAGEMENT AND COORDINATION

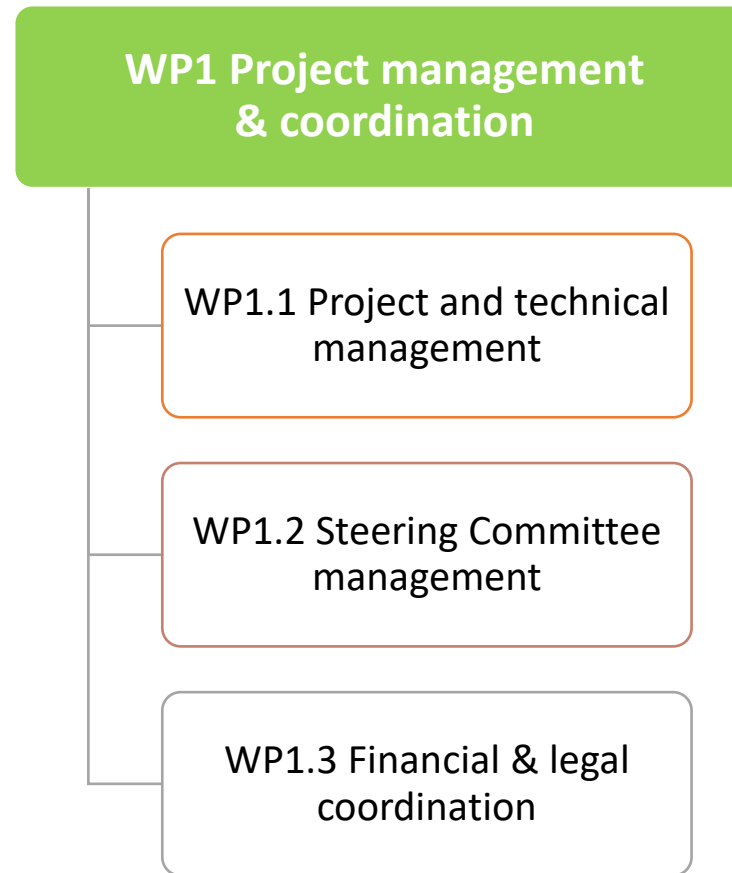
WORK PACKAGE 2: USER NEEDS, REQUIREMENTS AND USE CASES DEFINITION

WORK PACKAGE 3: ANALYSIS OF SATCOM USER TECHNOLOGY

WORK PACKAGE 4: R&I ROADMAP DEFINITION

WORK PACKAGE 5: COMMUNICATION AND DISSEMINATION

# WORK PLAN STRUCTURE



# WORK PLAN STRUCTURE



## WP2 User needs, requirements & use cases definition

WP2.1 User communities identification and survey activities

WP2.2 Collection of user needs and identification of user requirements

WP2.3 Definition of Fields of Application and use cases

WP2.4 Validation of user requirements

# WORK PLAN STRUCTURE



## WP3 Analysis of SatCom user technology

WP3.1 Review of the state-of-the-art technology and enabled services

WP3.2 Analysis of future technology

WP3.3 Identification of key technological factors

# WORK PLAN STRUCTURE



## WP4 R&I roadmap definition

WP4.1 Existing relevant R&I

WP4.2 R&I gap analysis

WP4.3 RIROC definition



# WORK PLAN STRUCTURE



## WP5 Communication & dissemination

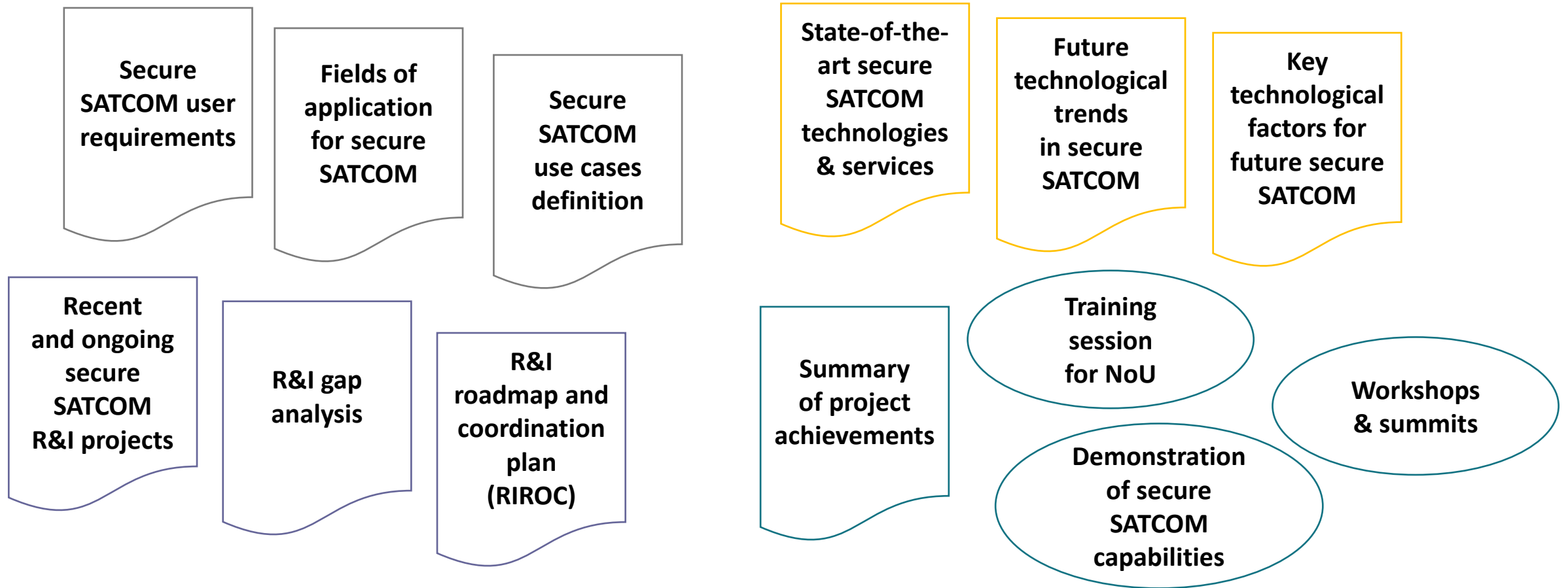
WP5.1 Communication  
& dissemination strategy

WP5.2 C&D channels management

WP5.3 Training and workshops

WP5.4 Secure SatCom  
demonstration

# MAIN DELIVERABLES



# EXPECTED OUTCOMES

- Sustained cooperation and exchange of information through a representative network of secure GOVSATCOM users;
- Uptake of governmental satellite communication solutions among users from different communities, backgrounds and MS;
- Efficient use of investments following the EU Research & Innovation Roadmap and Coordination plan (RIROC).

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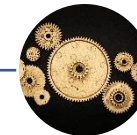
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# CONTACT

## ENTRUSTED Project Coordinator: European GNSS Agency

e-mail: [entrusted@gsa.europa.eu](mailto:entrusted@gsa.europa.eu)



## Work Package Leaders:



[entrusted.eu](http://entrusted.eu)



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