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

Photos and graphics from www.esa.int, www.eda.europa.eu, www.pexels.com

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

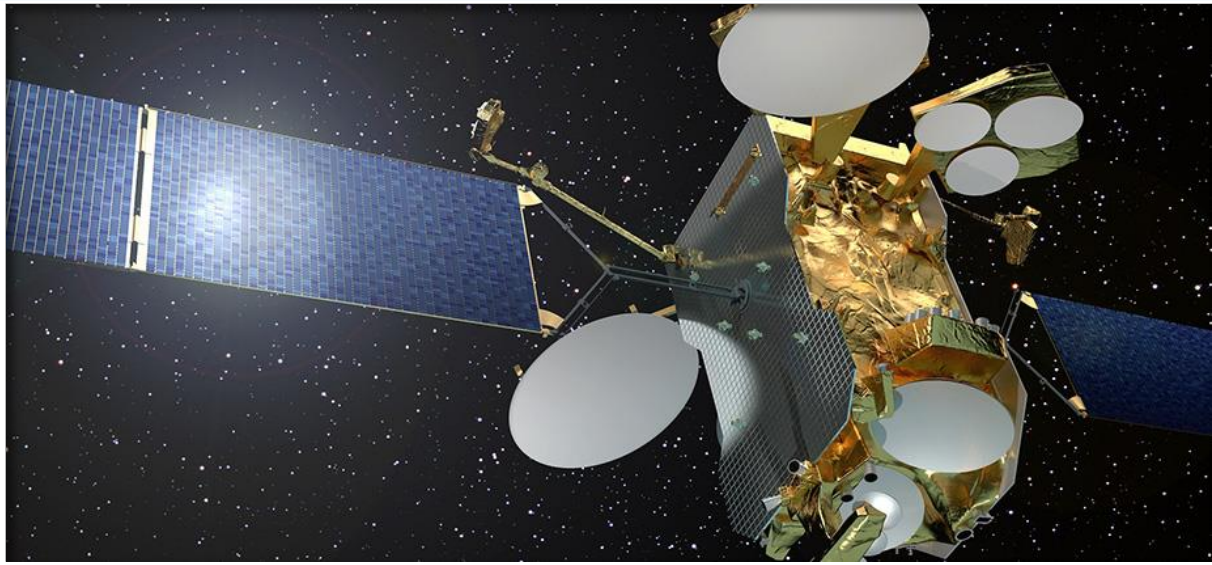
GOVSATCOM

Source: European Space Agency, www.esa.int

- 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.

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

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.

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

PROJECT CONSORTIUM

MEMBER STATES REPRESENTATIVES

Austria
Cyprus
Luxembourg
Romania
Finland
Greece
Spain
Netherlands
France
Poland
Italy
Portugal

EU AGENCIES AND ENTITES

GSA
JRC
SATCEN
EEAS
EFCA
EMSA
EDA

Malta
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.

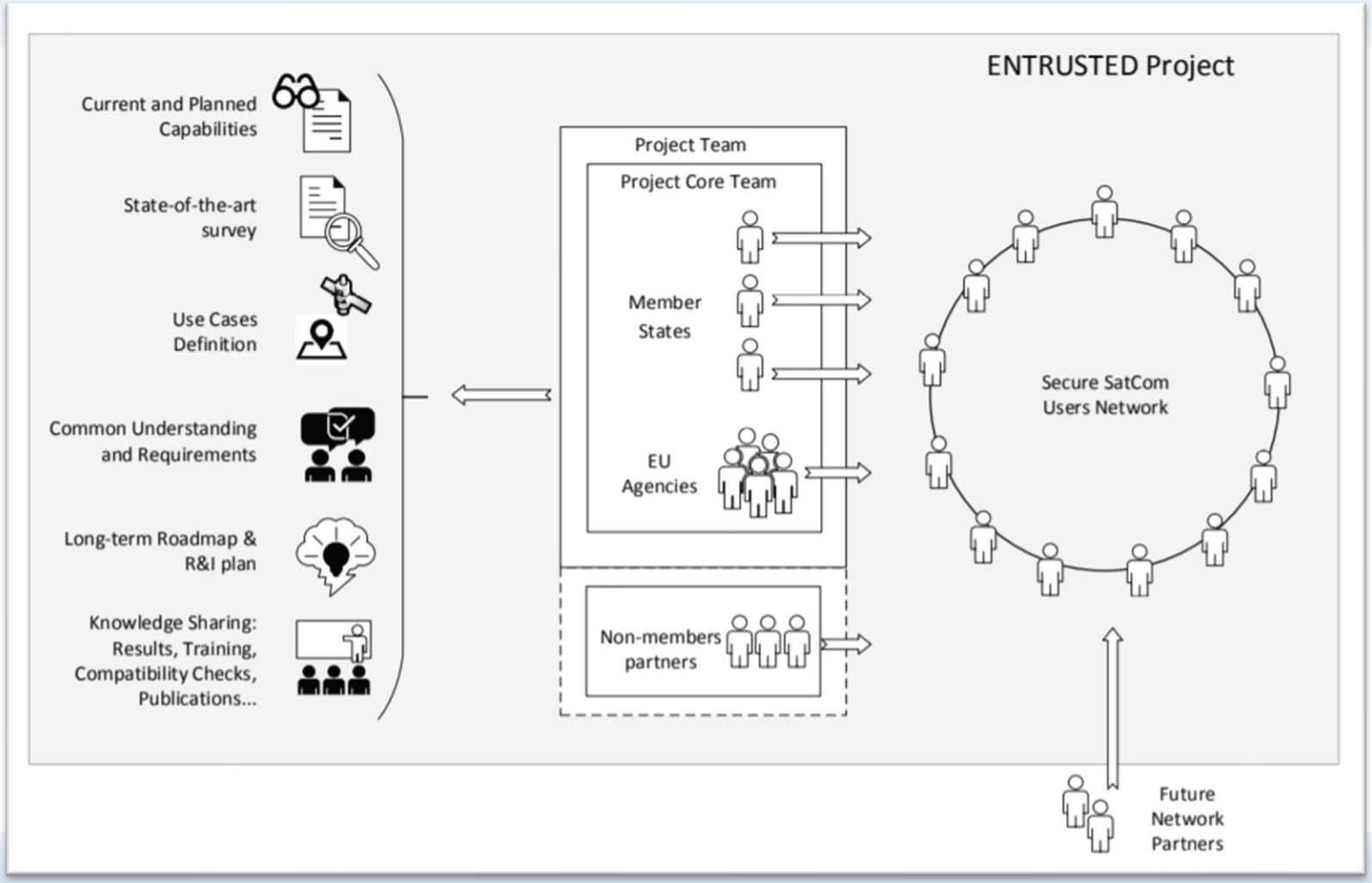
RIROC

- 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).

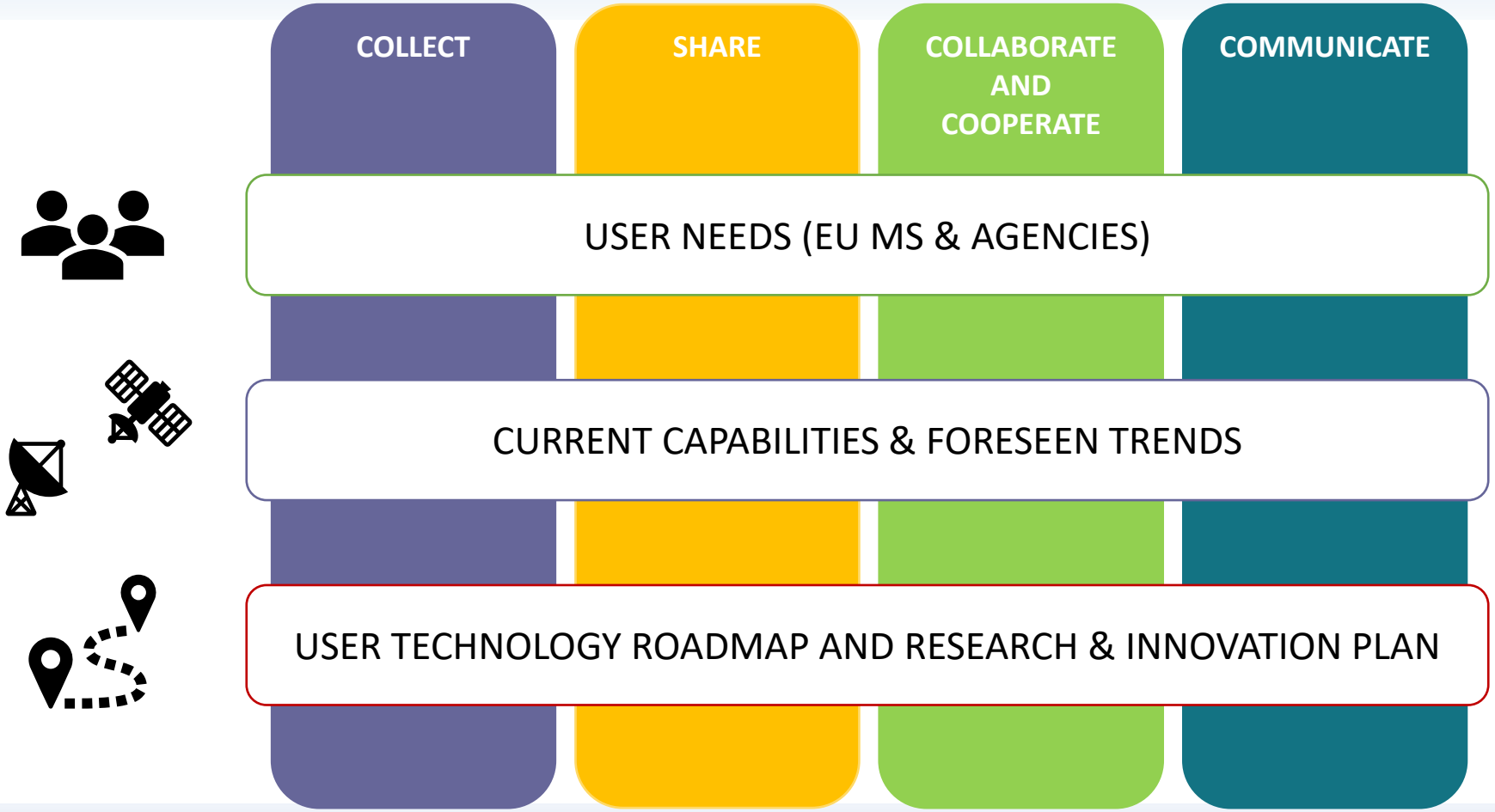
Intended as a point of reference for the NoU and a wider European R&I community (funders, institutes and industry).

Photo by João Jesus, www.pexels.com

PROJECT CONCEPT



PROJECT CONCEPT



PROJECT OUTLINE

WP LEADERS

GSA

WORK PACKAGE 1: PROJECT MANAGEMENT AND COORDINATION

SatCen

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

Agenzia Spaziale Italiana

WORK PACKAGE 3: ANALYSIS OF SATCOM USER TECHNOLOGY

European Commission

WORK PACKAGE 4: R&I ROADMAP DEFINITION

POLISH SPACE AGENCY

WORK PACKAGE 5: COMMUNICATION AND DISSEMINATION

WORK PLAN STRUCTURE

WP1 Project management & coordination

- WP1.1 Project and technical management
- WP1.2 Steering Committee management
- WP1.3 Financial & legal coordination

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

POLISH SPACE AGENCY

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

Secure SATCOM user requirements

Fields of application for secure SATCOM

Secure SATCOM use cases definition

State-of-the-art secure SATCOM technologies & services

Future technological trends in secure SATCOM

Key technological factors for future secure SATCOM

Recent and ongoing secure SATCOM R&I projects

R&I gap analysis

R&I roadmap and coordination plan (RIROC)

Summary of project achievements

Training session for NoU

Demonstration of secure SATCOM capabilities

Workshops & summits

EXPECTED OUTCOMES

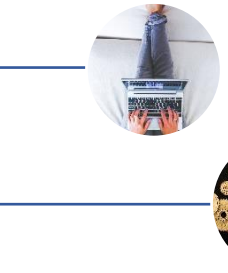
- Sustained cooperation and exchange of information through a representative network of secure GOVSATCOM users;
- Uptake of governmental satellite communication solutions among users from different communities, backgrounds and MS;
- Efficient use of investments following the EU Research & Innovation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

FOLLOW ENTRUSTED & CONTRIBUTE

Visit ENTRUSTED website.

Subscribe to our newsletter.

Follow us on social media.



Fill-in our survey.

Share your experience and ideas.

Let’s connect our efforts!

Photos by: Miguel A. Padrinan, Bongkarn Thanyakij, KABOOMPICS, Tracy Le Blanc, Pixabay, www.pexels.com

CONTACT

ENTRUSTED Project Coordinator: European GNSS Agency

e-mail: entrusted@gsa.europa.eu

LinkedIn Twitter

Work Package Leaders:

SatCen

Agenzia Spaziale Italiana

European Commission
JRC

POLISH SPACE AGENCY

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