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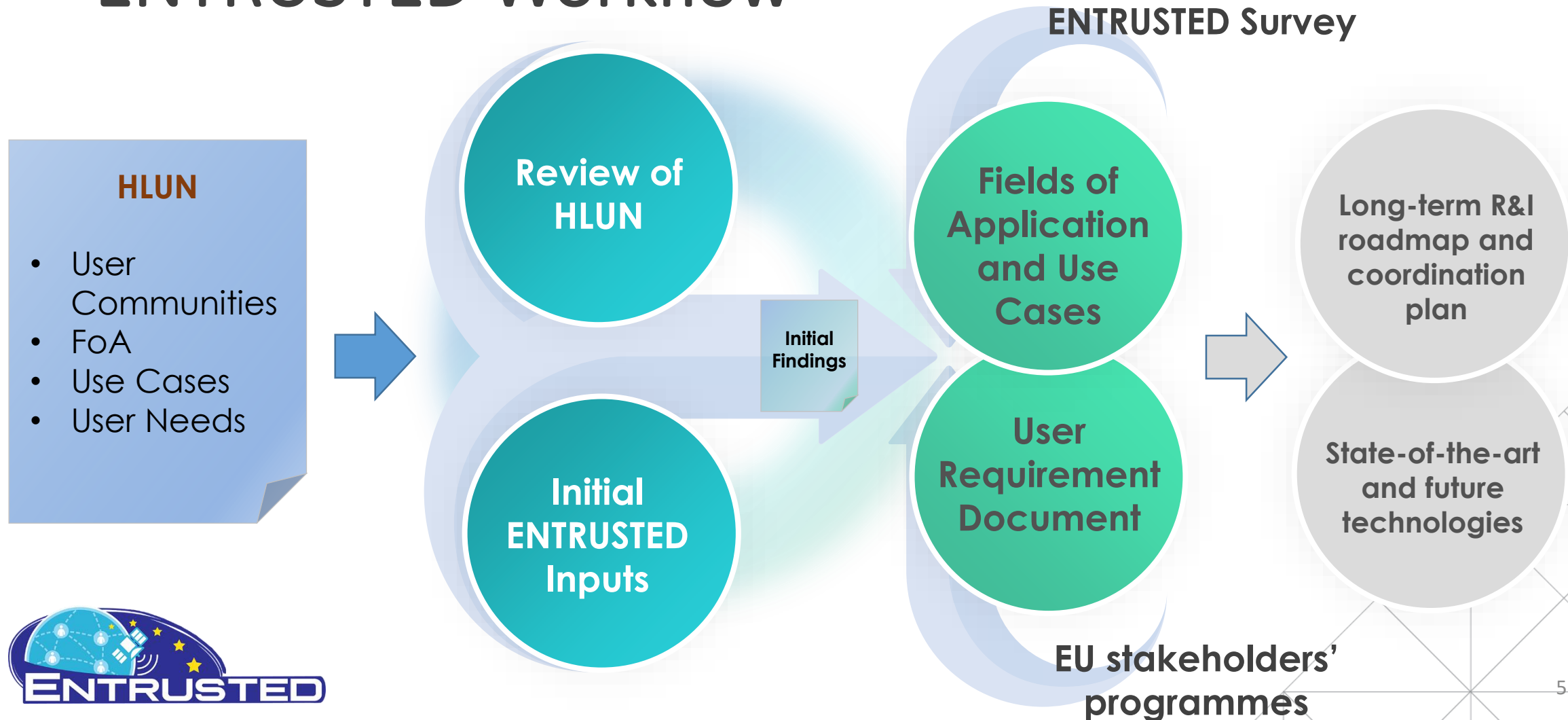- Way Forward within ENTRUSTED

Introduction

- The **ENTRUSTED** project aims at establishing a solid **Network of governmental Users (NoU) of secure SATCOM services** and at setting the scene for a potential future EU GOVSATCOM programme

- Current activities are focusing on:

  – Identifying all potential **Users** of secure SATCOM services and the respective **Use Cases**

  – Structuring the Use Cases in different **Fields of Application (FoA)** to support an efficient specification of the services

  – Reflecting User Needs in a consolidated **User Requirements Document**
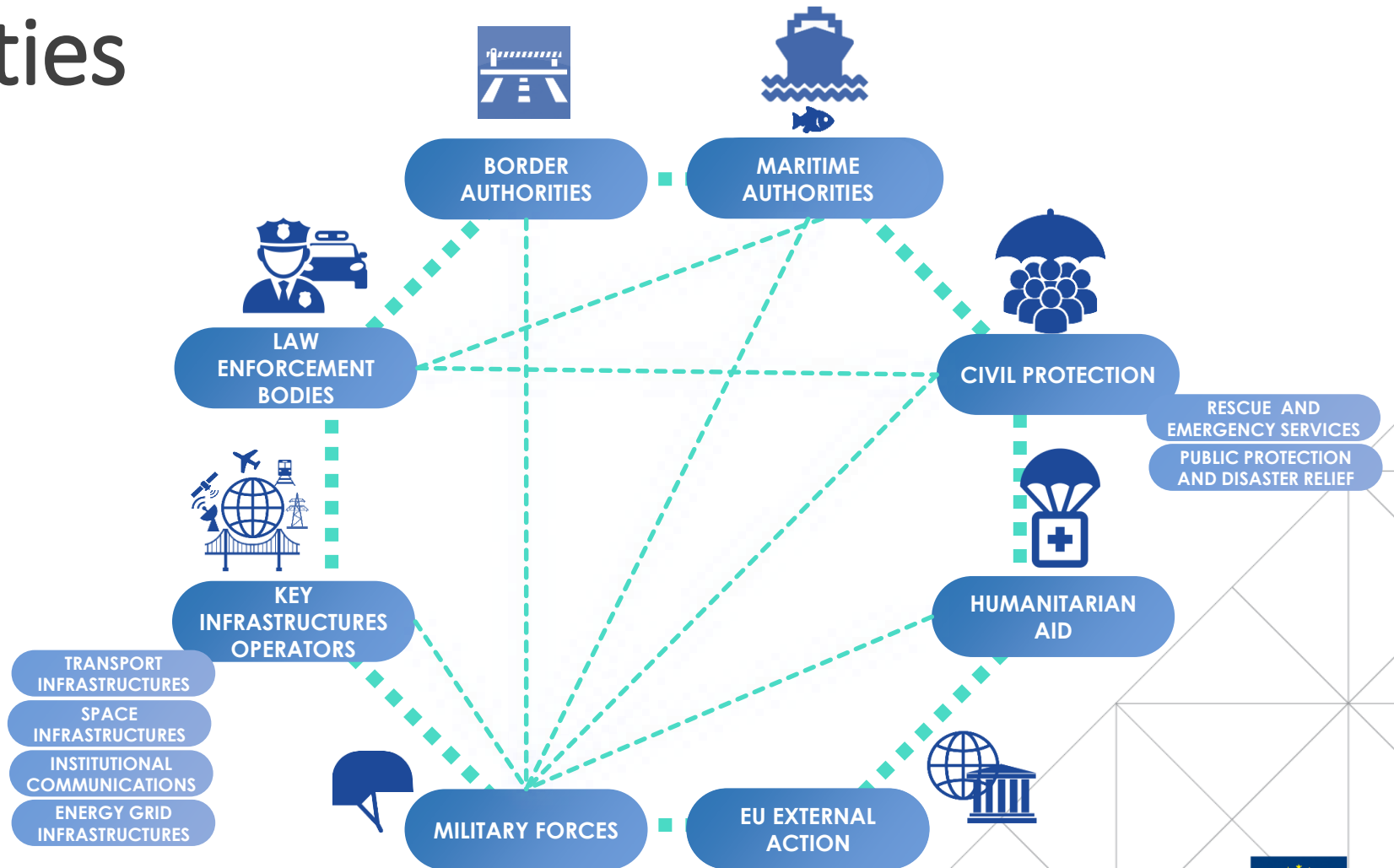
Secure SATCOM User Needs - Background

- In the last years, EU Member States (in coordination with relevant EU entities) have been working in different activities related to **secure SATCOM**

- **The High Level Civil-Military User Needs** for Governmental Satellite Communications (HLUN)[1] document was one of the outputs

  - It was developed in cooperation between EU Member States, EC, EEAS and EDA

  - It is now used within ENTRUSTED as reference to advance in the specification of future secure SATCOM user requirements

  - It has been reviewed by ENTRUSTED partners to identify updates and missing points

[1] The HLUN document was endorsed by the Council's Political and Security Committee in March 2017

ENTRUSTED Workflow

ENTRUSTED Survey

HLUN

- User Communities
- FoA
- Use Cases
- User Needs

Review of HLUN

Initial ENTRUSTED Inputs

Initial Findings

Fields of Application and Use Cases

User Requirement Document

Long-term R&I roadmap and coordination plan

State-of-the-art and future technologies

EU stakeholders' programmes

5

User Communities

- Potential users of GOVSATCOM services are identified from User Communities

- Synergies between communities are present in some cases, depending on the specific use case and country

Fields of Application

- To structure the specification of future services, GOVSATCOM user requirements will be gathered for the relevant Use Cases and grouped by Fields of Application

Surveillance
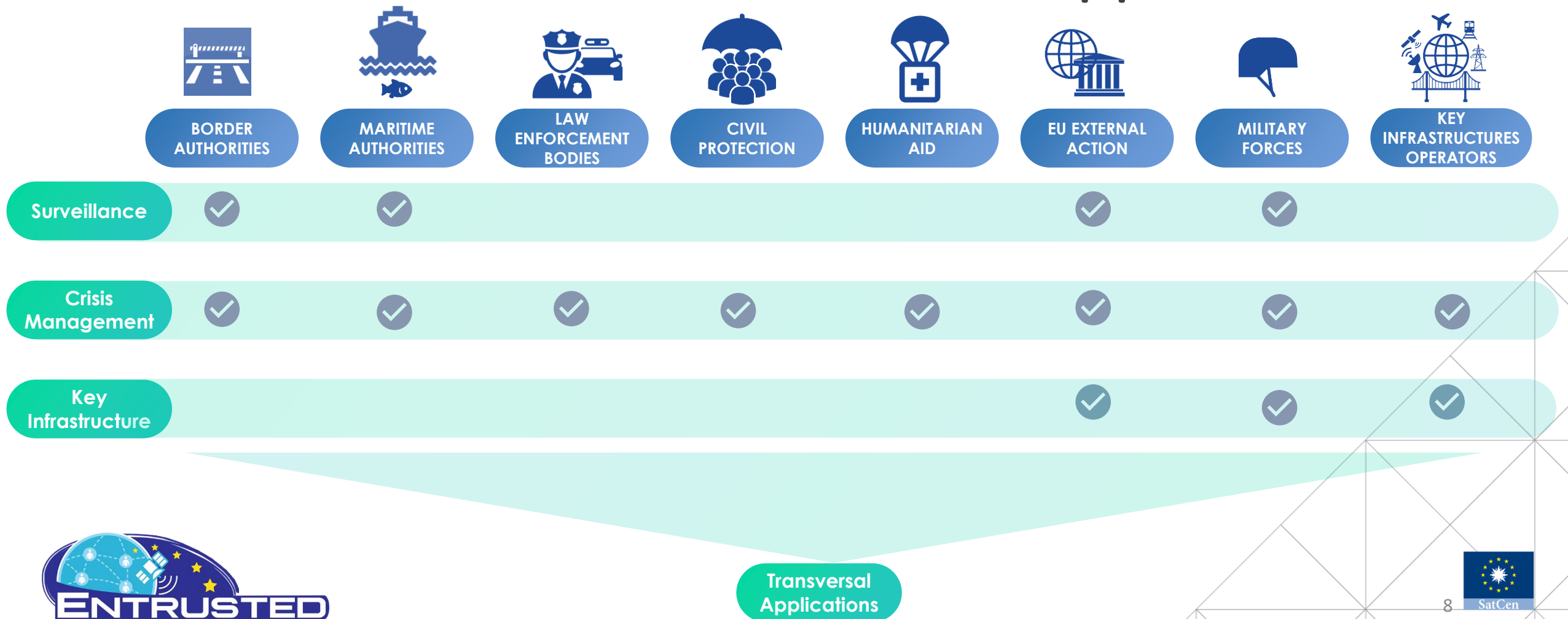
Crisis Management

Key Infrastructure

Polar regions users

RPAS Beyond-line-of-sight communications

Machine-to-Machine communications and IoT

Specific Use Cases (Transversal applications)

User Communities and Fields of Application

	Border Authorities	Maritime Authorities	Law Enforcement Bodies	Civil Protection	Humanitarian Aid	EU External Action	Military Forces	Key Infrastructures Operators
Surveillance	✓	✓				✓	✓	
Crisis Management	✓	✓	✓	✓	✓	✓	✓	✓
Key Infrastructure						✓	✓	✓

Transversal Applications

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Surveillance: Use Cases

BORDER SURVEILLANCE & CONTROL

01 Sea border scenarios

02 Land border scenarios

03 Pre-frontier scenarios

04 Military operations (CSDP & national missions)

MARITIME SURVEILLANCE & CONTROL

01 Safety and surveillance maritime traffic

02 Maritime security: Illegal activities

03 Maritime security: Fishing activity control

04 Military operations

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Crisis Management: Use Cases

MARITIME EMERGENCY

01 Maritime Search and Rescue (SAR)

02 Response to maritime disasters (civil and military)

HUMANITARIAN AID

01 Assistance in case of disasters and armed conflicts

02 Telemedicine

CIVIL PROTECTION

01 Response to natural and man-made disasters

02 Ambulance and fire risk rescue response within EU

LAW ENFORCEMENT INTERVENTIONS

01 Fight against international drug traffic

02 Fight against international Organized Crime Groups (OCG)

03 National police missions within EU

EU EXTERNAL ACTION

01 Civilian CSDP crisis management or police operations outside the EU

02 Election observation

03 Military CSDP missions

Key Infrastructures Operations: Use Cases

TRANSPORT INFRASTRUCTURES

01 Air traffic management

02 Rail traffic management

03 Road traffic management

SPACE INFRASTRUCTURES

01 Enhancement of G.S. infrastructures, services and service synergies:

- Copernicus
- EGNOS and Galileo
- EUSST network

02 Protection and enhancement of Military space infrastructures

INSTITUTIONAL COMMUNICATIONS

Communication services for:

01 • National diplomacy

02 • the 139 EU delegations

03 • The 46 ECHO field offices

04 • EU High & Special Representatives

05 • EUROPOL network

06 • Police routine operations

ENERGY INFRASTRUCTURES

01 Backup link for energy grid infrastructures

Specific Use Cases for Civil and Military Users

POLAR REGIONS

01 Surveillance services

02 Diplomatic activity

03 Protection of space infrastructure

04 Air Traffic Management (ATM)

05 Crisis management missions

RPAS / BLoS COMMUNICATION

01 RPAS Command & Control communications

02 RPAS sensor data transmission

M2M & IoT COMMUNICATION

01 Secure and cost-effective M2M communications

02 IoT secure applications

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User Needs Review

01 Common Needs

- Guaranteed service provision
- Avoidance of interception and intrusion
- Interoperability and standards
- ...

02 FoA common needs

- Required geographical coverage
- Intercommunication needs within different missions in the field
- User terminal needs
- ...

03 Use Case specific needs

- Type of content and service needed
- Time to activation of service
- User Terminal needs (if specific for the use case)
- ...

User Requirements

- ENTRUSTED will work in the **translation of needs into requirements**, with the objective of generating a solid and consolidated URD

- Requirements will be specified to **satisfy service user needs and expectations**, also considering the **GOVSATCOM programme environment** (e.g. EU and MS related actions and initiatives)

- The associated requirements will be **grouped accordingly to the Fields of Application and associated Use Cases identified**, to efficiently address the different services

Way Forward

- ENTRUSTED **will launch a survey** with the objectives of gathering governmental **user requirements** for GOVSATCOM to go one step forward in the specification of future services, identifying **new use cases**, and **enlarging the NoU**

- Answers will be collected, analysed and processed to **generate a consolidated User Requirement Document** that will serve as baseline for potential associated developments

- The User Requirement Document will support the identification of **key and enabling technologies**, and the elaboration of a **long-term R&I roadmap and coordination plan** to support future activities

Join the Secure SATCOM Network of Users!

How to get in touch:

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ENTRUSTED Partners:

Austria

Cyprus

Luxembourg

Romania

Malta

Finland

Greece

Spain

Netherlands

France

Poland

Italy

Portugal

GSA

JRC

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