

7SHIELD aims to develop a flexible and holistic security framework covering all macro-stages of crisis management

to protect European Space Ground Segment infrastructures against physical & cyber threats.

7SHIELD integrates a series of state-of-the-art technological achievements from multidisciplinary fields, namely:

- Sensors technologies
- IoT
- Edge computing
- Semantic reasoning
- High-level analytics
- Decision support systems
- Crisis management
- Situational awareness



7SHIELD ADVANTAGES

Highly adaptable and modular – Interfaces with existing or new cyber & physical systems

Cost effective - Replaces 2 separate SIEM and PSIM by one hybrid system of systems

Always at the state-of-the-art – Continuously improved preparedness and detection models

Easy and quick to handle – User friendly interfaces and seamless systems integration

7SHIELD COMPONENTS

CORE FUNCTIONALITIES

RISK SIMULATION & ASSESSMENT

HETEROGENEOUS DATA INGESTION AND CORRELATION

HYBRID THREAT DETECTION

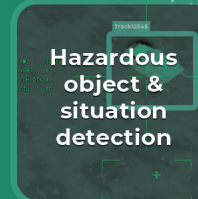
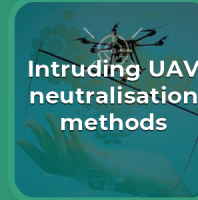
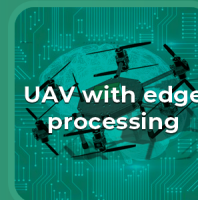
HYBRID RISK EVALUATION & DECISION SUPPORT

CYBER AND PHYSICAL THREAT INTELLIGENCE

INTEGRATED COMMAND, CONTROL AND COORDINATION

SEMANTIC QUERIES

STANDALONE MODULES

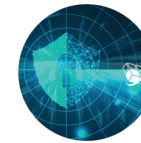


OUR PILOTS



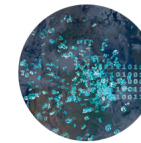
ARCTIC SPACE CENTRE

Simulation of a physical attack on the Arctic Space Centre operated by the Finnish Meteorological Institute in Sodankylä, Finland.



ICE CUBES SERVICE

Simulation of threat detection and mitigation on Ice Cubes Service operated by Space Applications in Sint-Stevens-Woluwe, Belgium.



NOA GROUND SEGMENT

Simulation of a Cyber & Physical attack on the Ground Segment of the National Observatory of Athens in Penteli, Greece.



DEIMOS GROUND SEGMENT

Simulation of a Cyber & Physical attack on DEIMOS's Ground Segment, Spain.



ONDA DIAS

Simulation of a Cyberattack on the ONDA DIAS (Copernicus Data and Information Access Services) operated by SERCO in Frascati (Rome), Italy.



ACCELIGENCE
Cyprus



CENTRIC
United Kingdom



CeRICT
Italy



CERTH
Greece



CS GROUP
France



CS Novidy's
France



Cyberlens
Netherlands



DEIMOS
Engineering and
Systems
Spain



DEIMOS
Space
Spain



DFSL
Israel



EETT
Greece



ENGINEERING
Italy



FMI
Finland



Hellenic Police
Greece



INOV
Portugal



KEMEA
Greece



NOA
Greece



Resilience Guard
Switzerland



RESILTECH
Italy



SATWAYS
Greece



SERCO
Italy



SpaceApps
Belgium



7SHIELD

**Safety and Security Standards of
Space Systems, ground Segments
and Satellite data assets**



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 883284.

PREVENTION



DETECTION



RESPONSE



MITIGATION



**TECHNOLOGIES AGAINST PHYSICAL
AND CYBER THREATS**