



ESA, ESRIN and Earth Observation

Joint ESA-JRC- UNODC Workshop on Environmental Crimes

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EUROPEAN SPACE AGENCY

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EUROPEAN SPACE AGENCY ELEVATING THE FUTURE OF EUROPE IN SPACE

THROUGH EUROPEAN COOPERATION
AND WITH INTERNATIONAL PARTNERS

23 MEMBER STATES
4 associate members
1 cooperating state

6500 ESA
WORKFORCE

IMPLEMENTS

60%

OF THE EUROPEAN
SPACE BUDGET

150+

missions delivered

30+

missions upcoming

2026 BUDGET

€8.26B

€15

per European



→ THE EUROPEAN SPACE AGENCY

ESA Membership



23 Member States

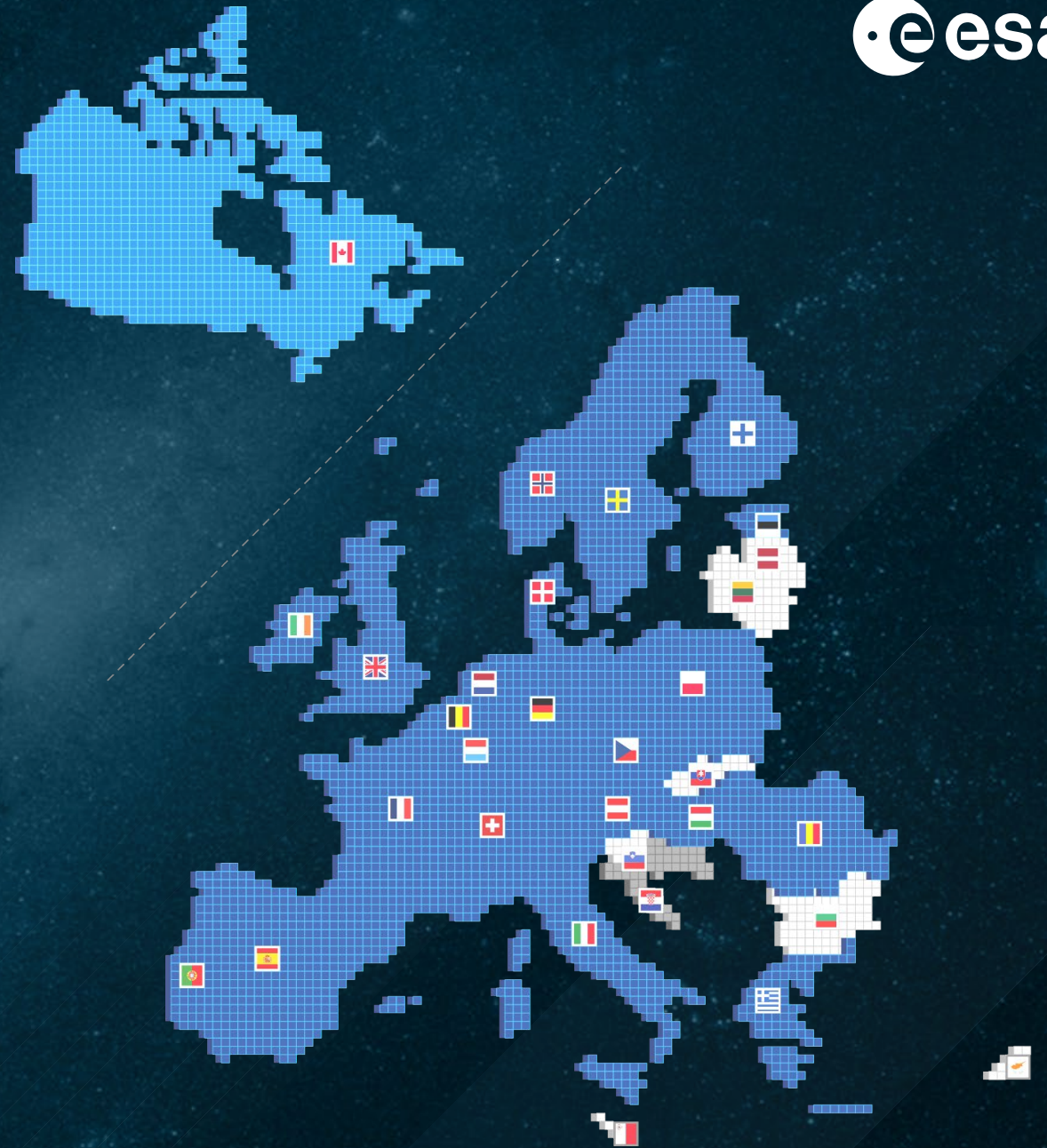
Austria	Luxembourg
Belgium	Netherlands
Czech Republic	Norway
Denmark	Poland
Estonia	Portugal
Finland	Romania
France	Spain
Germany	Slovenia
Greece	Sweden
Hungary	Switzerland
Ireland	United Kingdom
Italy	

3 Associate Members

Slovakia, Latvia, Lithuania

Cooperation Agreements

4 other European States + Canada



ESRIN Activities

- **Earth Observation**
 - *Mission Management*
 - *Cal/Val Activities*
 - *Science Hub*
 - *Phi-lab*
 - *Disaster Charter Coordination Centre*
- **High Performance Computer**
- **Space transportation**
- **NEO Coord. Centre**
- **ESA Security Office**
- **Corporate IT**
- **Comms, Archives**
- **Contracts, Personnel**
- **Site Management**



Earth Observation Activities at

ESRIN ESTEC ECSAT



ESTEC

Satellite Design
& Development



Mission preparation and
Mission Science



Missions Management



ESRIN



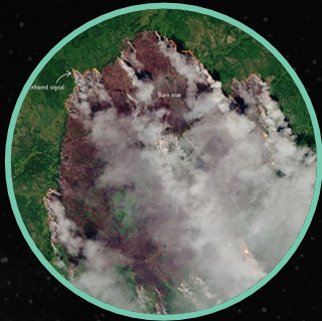
Cal/Val & Data Distribution

Applying the data for Earth Action



Earth
System
Science

Emergency
Response



Digital
Twins

Climate Change



Innovation

Commercialisation

Future systems &
Instruments activities

Accelerate the future
of EO with cutting
edge research

Φ -lab

Accelerate the future of
EO via transformative
innovation & com-
mercialisation actions

InCubed



Continuing to deliver
world class Earth
Observation systems
and earth science

Continuing and enhancing our eyes on Europe and the World

Responding to resilience & security challenges

Supporting industrial innovation

Enhancing understanding,
characterisation &
modelling of the Earth

The Role of Earth Observation for Environmental monitoring, compliance and enforcement

Satellites help policymakers, law enforcement agencies and environmental authorities detect environmental change, identify potential illegal activities and monitor compliance by providing

Global awareness

Independent information

NRT monitoring

Evidence for decision making

Observe

wide-area, repeatable measurements

Understand

fusion, analytics and risk evidence

Act

services for resilience and civil security



Environmental Crimes societal impacts

Environmental crime exploits
and accelerates environmental
degradation

Environmental
pressure

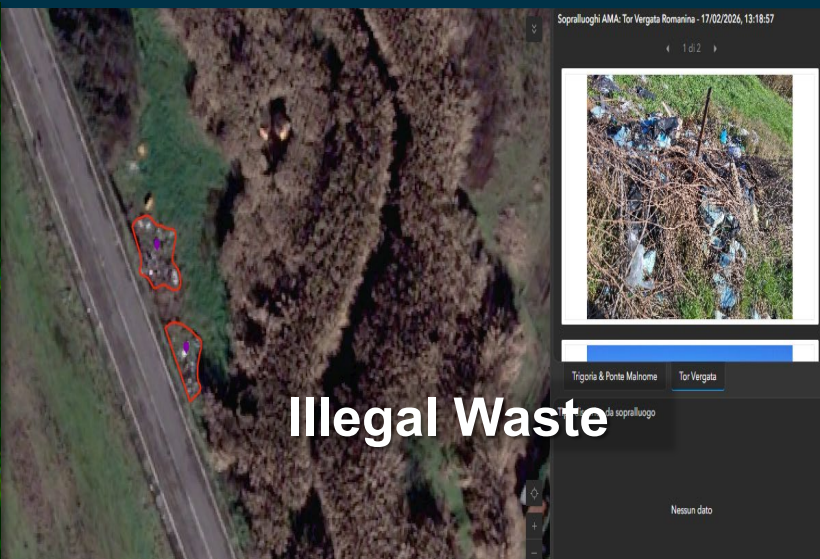
Environmental
degradation

Illegal
activities

**EO reveals change
over time**

Satellite observations
help target field
investigations and
support compliance
monitoring.

From Environmental Crimes to Societal Resilience with EO Data



2026 Workshop objectives

A shared path from EO capabilities to operational uptake

1

REVIEW

Innovative methods for detecting and characterising environmental crimes

2

DEFINE

Evidence needs and operational requirements with practitioners

3

IDENTIFY

Gaps in data, tools, capacity and investigative workflows

4

PRIORITISE

Integration and research actions for ESA, JRC, UNODC cooperation

Outcome

Agreed priorities for follow-up, informed by policy, research and enforcement communities



EUROPEAN SPACE AGENCY

ELEVATING
THE FUTURE
OF EUROPE
THROUGH SPACE

Elevating the future of Earth Observation

www.esa.int