

StatEO

5-7 May 2026 | ESA-ESRIN | Frascati (Rome), Italy



Earth Observation for Statistics

Carla Martins, Hannes Reuter, Zacharias Zandylakis EUROSTAT E.4



eurostat

Earth Observation Team



Carla Martins



Hannes Reuter



Zacharias Kandylakis

GISCO Team – Geographical Information of the Commission
Regional Statistics and Geographical Information (Unit E4)



Mandate

European Statistical System
Warsaw Memorandum

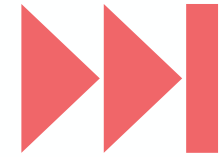
Why? Who?



Action Plan

Governance
Skills
Methodology
Applications
IT

What? How?



Future

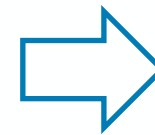
Next steps

What next?

Mandate – European Statistical System (ESS)



eurostat 



NSIs
National Statistical
Offices
+
ONAs
Other National
Authorities

Mandate – European Statistical System



Directors General of the
National Statistical
Institutes

October 2021

Warsaw
Memorandum



February 2022

Governance
framework



Innovate



Collaborate



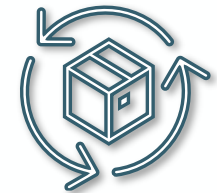
**Implement
/plan**



Governance



Skills



Methodology



Applications



IT Infrastructure



Action Plan: GOVERNANCE



Inside EUROSTAT
Statistical domains



EO4S TASK FORCE

Methodology
Governance/Applications
IT
Skills

GRANTS €€€



Countries /ESS



Outside
EUROSTAT

DEFIS
Joint Research Centre
FAO
OECD
European Environment Agency
AGRI





Action Plan: SKILLS



Share resources

CROS

Collaboration in Research and Methodology for Official Statistics



Training (ESTP*)

*European Statistical Training Programme

Hackathon 2025

Funathon 27 May 2026

ESTP: 30 Nov. 2 Dec 2026 - Frankfurt
From Strategies to Practical Use of Earth Observation Data for Official Statistics

European Big Data Hackathon 2025

Earth Observation: from Space to European Statistics



Funathon
a non-competitive Hackathon



Questionnaire (Inventory)

2023
EO projects

2026
EO skills/ stakeholders



Action Plan: METHODOLOGY



EU-wide Processing



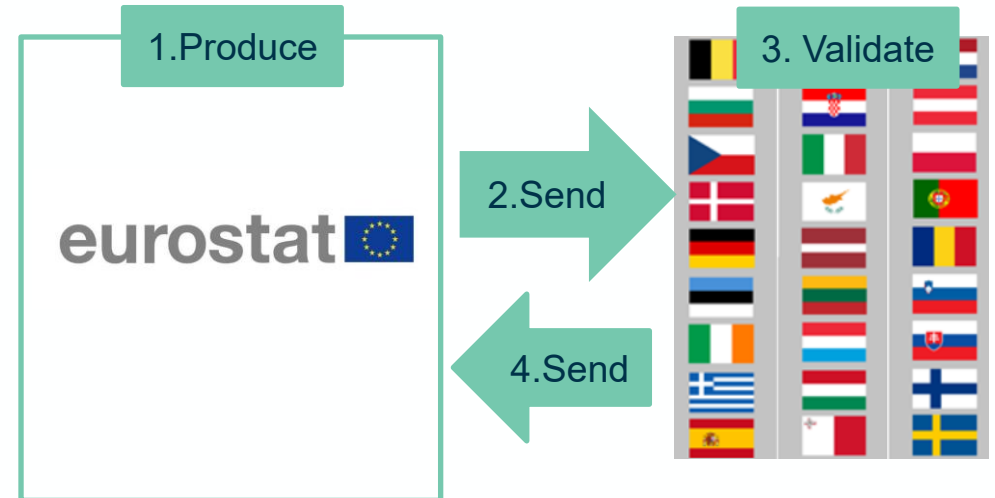
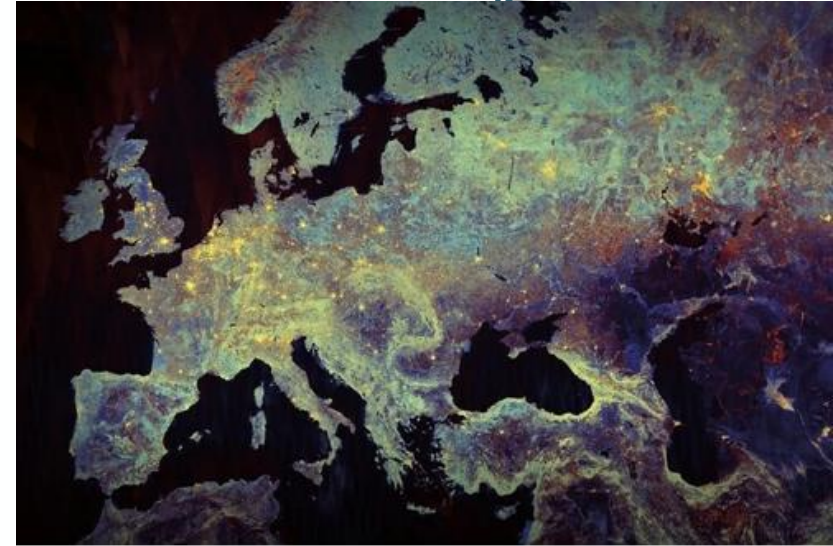
Statistical process



Metadata



AI





Action Plan: APPLICATIONS



Energy – wind turbines



Ecosystem accounting/ Air quality



Agriculture



EUCROPMAP
HRL VLCC CTY

VS

Official
Statistics

Grassland

Methodology Transfer PL



Land Use



Methodology Transfer FR

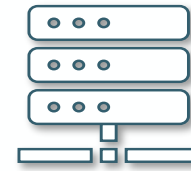
LUCAS

1 million points Land Use and
Coverage Area Frame Survey





IT Infrastructure



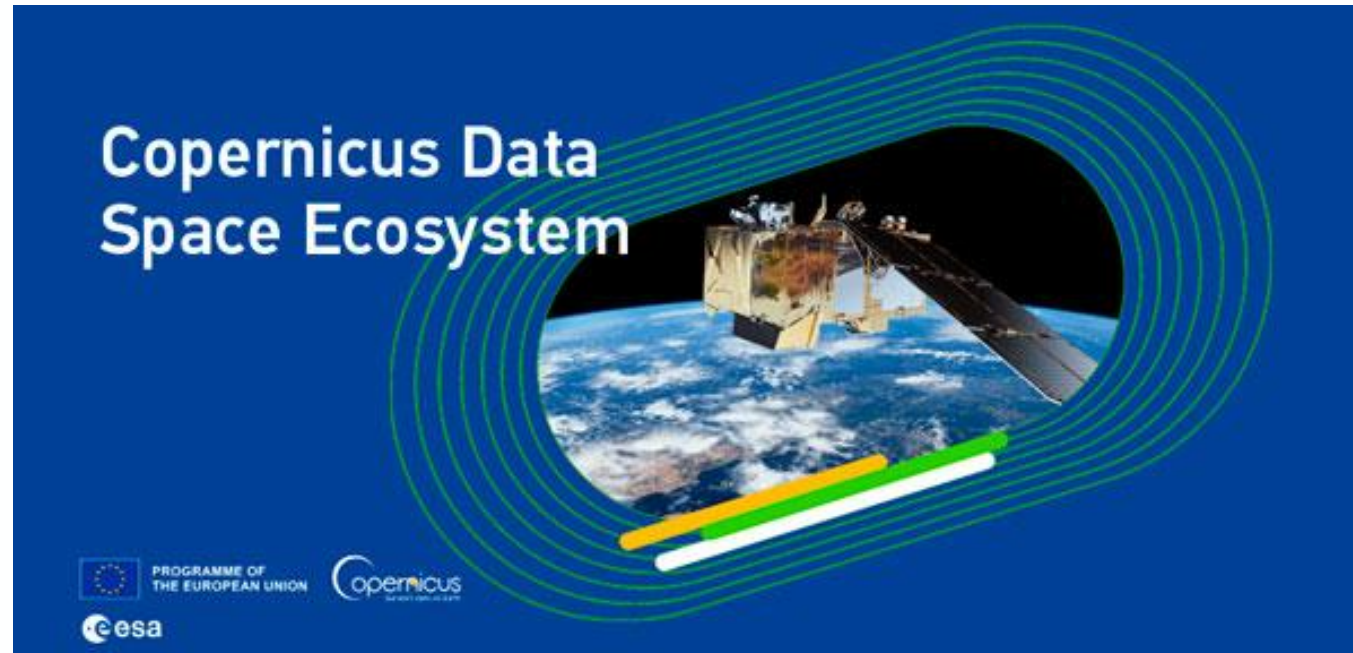
Interoperability



Bring code to the data



Bring you own data



Shared resources



EU wide processing



Sovereignty



Future Strategy



Timeliness



Ground truth

LPIS
FSDN



EU-wide processing



Accuracy



More detail



Interoperability


Classifications
AI

- Task Force / Stakeholder inventory
ESTAT-GISCO-EO@ec.europa.eu

- Knowledge sharing
CROS platform





□ Funathon

 27-28 May
Online* | 9:30-17:30 GMT+1

*onboarding session will be organized one week before the event

What you'll explore


Satellite Image Segmentation

 **Scan to sign-up!**

Thank You!

-  ec.europa.eu/eurostat
-  @EU_Eurostat
-  @EurostatStatistics
-  @EU_Eurostat
-  @Eurostat

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Earth Observation for Statistics

Marta Nagy-Rothengass EUROSTAT E.4

Explore, Experiment,
Have Fun with AI & Data!

Funathon

a non-competitive Hackathon

This event is part of the
ESS-Net AIML4OS Project

AIML4OS

Artificial Intelligence
and Machine Learning
for Official Statistics

Hands-on online international
event designed for statistical
offices to explore AI and machine
learning applications in a practical
and collaborative way.



27-28 May
Online* | 9:30-17:30 GMT+1

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What you'll explore



Satellite Image
Segmentation



NACE Coding
Automation



Housing Price
Prediction

No Pressure, Just Fun!

- ✓ No Competition
- ✓ Join anytime, leave anytime
- ✓ Join with your team, up to 5 persons



Onyxia

Support Team
always available during
onboarding and event



Scan
to sign-up!

For any question or support
essnet-aiml4os@istat.it