



FINAL WRAP UP AND CONCLUSIONS

ESA Symposium on Earth Observation for Soil Protection and Restoration



ESA SYMPOSIUM ON EARTH OBSERVATION FOR SOIL PROTECTION AND RESTORATION

world soils user consultation workshop on space-based EO tools for mapping and monitoring soils
02 - 03 July 2019 at ESA ESRIN, Frascati, Italy

European Mission Soil Week
21-23 November 2023, Madrid, Spain

European Carbon Farming Summit
5-7 March 2024 in Valencia



EO 4 Soil Symposium: Summary first day

Session1: SOIL POLICY SCENARIOS AND EARTH OBSERVATION

Session2: MONITORING SOIL PARAMETERS: EARTH OBSERVATION AS A TRUSTWORTHY TECHNIQUE

Session3: SOIL ORGANIC CARBON MONITORING - SPECIAL SESSION

1. For Continental / Global product, it is necessary to collaborate with international pillars (FAO) to add new test sites.
2. Certification of products, standard protocols: End users only want to use the product if certificated, regulation of satellite mapping.
3. Align with EU and international soil policies for assessing monitoring requirements and evaluating new soil parameters.



EO 4 Soil Symposium: Summary second day

Session4: SOC AND BUSINESS MODELS

Session5: ADVANCED SATELLITE INSTRUMENTATION FOR SOIL HEALTH

Session6: SOIL DATA AND METHODOLOGIES: AI, GEO-STATISTICS, SPECTROSCOPY, MACHINE LEARNING AND OTHERS

Session7:TOWARDS NEW SOIL MONITORING PRODUCTS WITHIN THE COPERNICUS LAND MONITORING SERVICE

HACKATHON AWARD:

[ESA EO4SoilProtection 2024: Predicting SOC Density | Kaggle](#)

[ESA EO4SoilProtection 2024: Predicting Erosion Cat | Kaggle](#)

Session8: REMOTE SENSING OF SOILS VALIDATION METHODS FOR AGROPOLICIES

Session9: SHOW-CASING POTENTIAL SOIL CARBON PRACTISES ON VARIOUS LULC