









The Greek GEO Office (GGO) in a nutshell

GGO has been operating at the National Observatory of Athens since **2007**, under the supervision of the General Secretariat of Research and Innovation. It is the **main representative of Greece in GEO** and the **national contact point for Earth Observation (EO)** aiming to maximize synergies between the main partners of EO in Greece (users, stakeholders, industry).



Mandate

Address the need for a permanent coordination mechanism of GEOSS at national level

Interface between GEO and the Greek State

Participate in national strategic planning for meeting national priorities

Promote collaboration within the country and with neighboring countries in the EO domain

Map EO capacities, capabilities, gaps, and needs against GEO's Engagement Priorities

Promote EO as an enabler for informed decision making and raise awareness on its benefits

Highlight the leadership of Greek EO actors in various domains at the international stage

Structure

BOLZANO 2-4 OCTOBER 2023



Interfacing



From R&D to an urban envelope











GEO's Plenary unanimously approved the 4th engagement priority on "Resilient Cities and Human Settlements", a mandate under the New Urban Agenda



Interfacing





Greek Statement: Proposed Community Activity to draw on the GEO community's rich expertise to **realize the untapped potential of EO** to monitor and enable specific mitigation and adaptation strategies to shield urban cultural heritage from climate change risks (**Nov '19**).

Call for Interest: Earth Observations for Climate Change Impacts on World Heritage Cities



Open invitation by GEO Member Greece in collaboration with UNESCO



Urban Heritage Climate Observatory: a GEO Pilot Initiative

created global methodology, global collection of use cases, global platform to collect and integrate EO-based data, information and composite indicators.

From national priority to GEO WP co-chaired by UNESCO-WHC

Interfacing



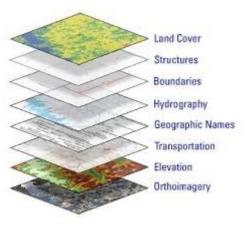
From global to local practice and back













National Flagship Programmes

"Resilience, Inclusion and Development: Towards a Just Green and Digital Transition for Greek Regions (JustReDi)





Earth Observations Toolkit for **SUSTAINABLE CITIES**AND HUMAN SETTLEMENTS

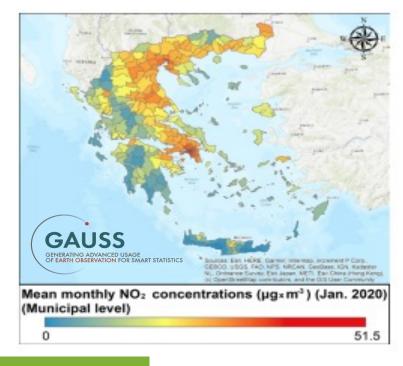
GAUSS - Earth observation for smart statistics

Monthly concentration of pollutants (PM_{2.5}, PM₁₀, NO₂, O₃) SDG11.6.2

In collaboration with



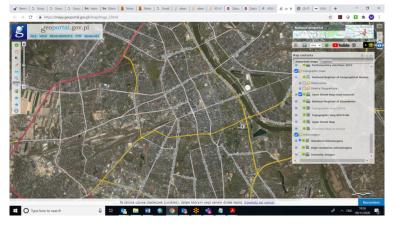




- SDG11.3.1
- HAB
- Landsat
- 1978 2020

- SDGs 11.3.1, 11.7.1, 11.7.2
- Poland
- CLC, Sentinel-2

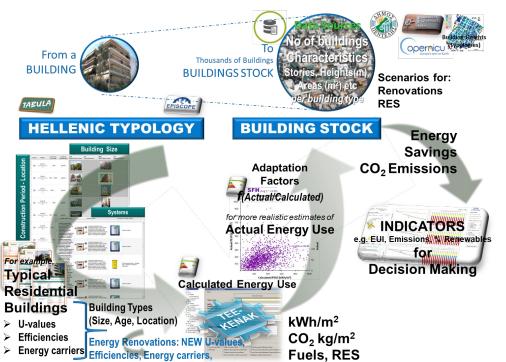




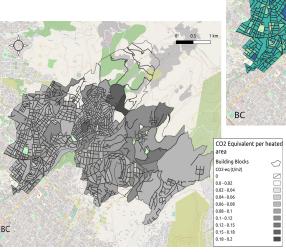
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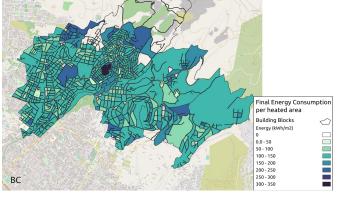
Bring new players in EO projects

Experts in Buildings Energy Efficiency

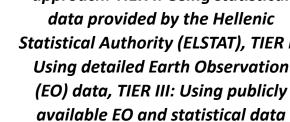








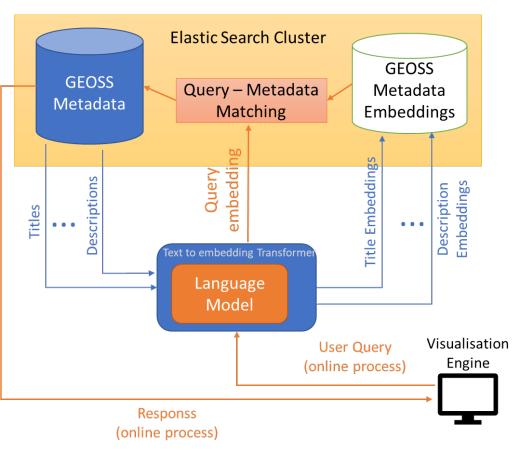
Buildings energy efficiency. 3 Tier approach: TIER I: Using statistical data provided by the Hellenic Statistical Authority (ELSTAT), TIER II: Using detailed Earth Observation (EO) data, TIER III: Using publicly available EO and statistical data







Bring new players in EO projects



Natural Language Processing NLP-based cognitive search (Large Language Model) for GEOSS datasets



Experts in Natural Language Processing NLP-based cognitive search



Working relationship with <u>GPP</u>. Implementation of a fusion-DEMO.



Experts in low-cost sensors for harsh conditions

In line with GEO's direction to strengthen the insitu component of EO and improve coverage in unrepresented areas



Further steps needed

- Continuous development of a broad, dynamic national stakeholder ecosystem
- Systematic links with authorities/agencies (i.e. governmental, regional, local)
- Creation of an official platform for effective communication and exchange
- Periodic update of EO landscape mapping using EOMI as a tool of self-diagnosis
- Push for mandate and legal basis for EO incorporation
- Resources mobilization for the Greek GEO Office



Hellenic Group on Earth Observations

Grazie per la vostra attenzione!



