



National coordination and EO maturity indicators – the Greek GEO Office (GGO)

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Learn more here:





The 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

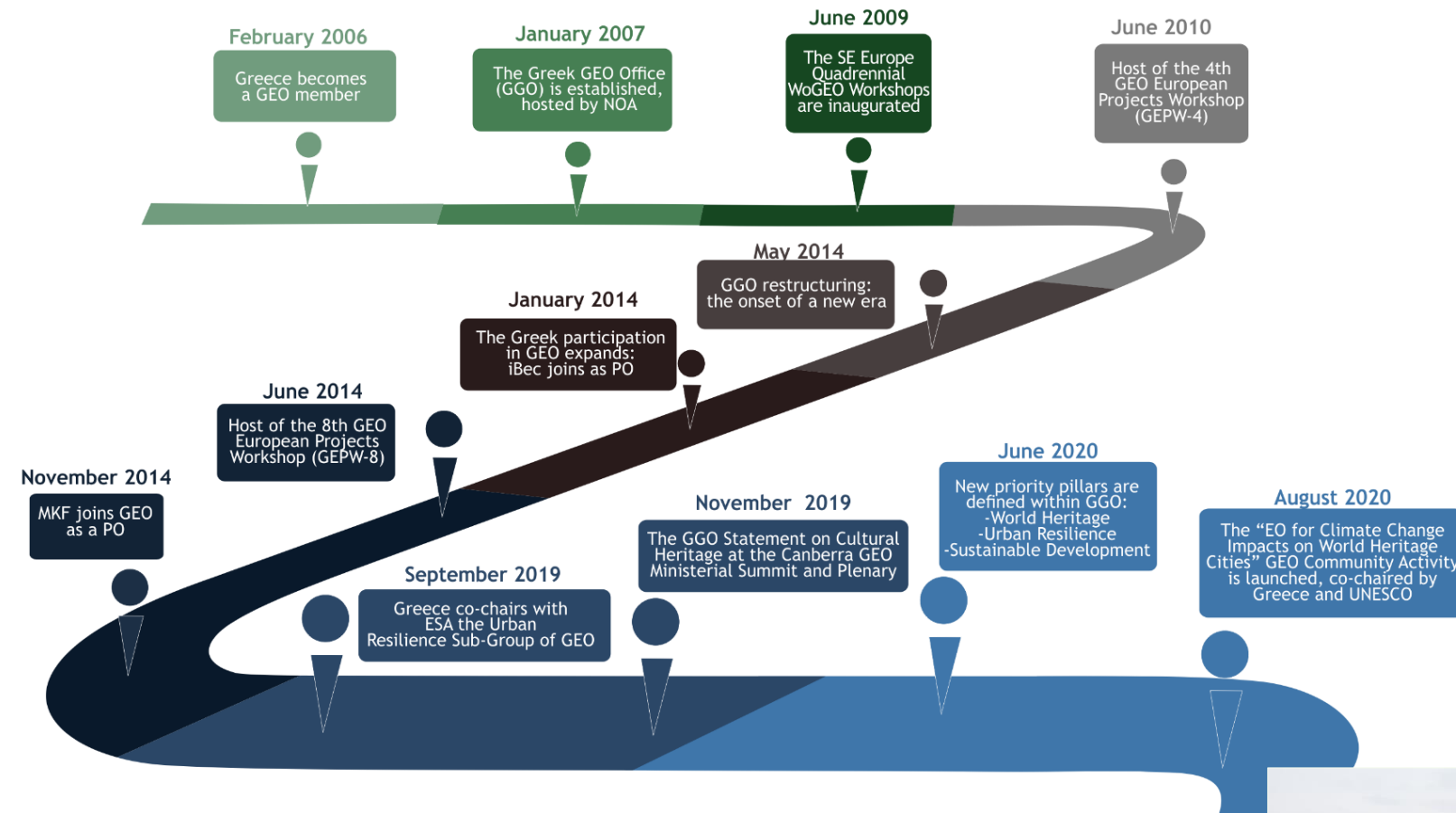
Promote EO as an enabler for informed decision making and raise awareness on its benefits

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

Structure



A short history



Good things come in threes!

Ever-growing GEO presence (PO, WG, PB)

Key role in new thematics

15 years of open and meaningful collaboration punctuated by milestone meetings across the globe





Recent highlights – the Urban envelope

September 2019

Greece co-chairs with
ESA the Urban
Resilience Sub-Group of GEO

Triggered by UN-Habitat request for support for urban indicators

Foster discussions across GEO activities (EO4SDG, Human Planet, GUOI)

Identify use EO cases/tools in support of urban indicators

Liaise with internal & external experts

Advocate for the 4th Engagement Priority (with GEO Sec)

**GEO
WEEK
2021**
Accelerating action

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

Accelerating action

Accelerating action

UN HABITAT
FOR A BETTER URBAN FUTURE



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

Online knowledge resource (since Feb '21)

Increase impact through dissemination (e.g. EURISY Workshop, GEO Week 2022)

Develop SDG 11.6.2 web tool

Pursue further realization in Greece



Recent highlights – SDGs and Official Statistics



EARTH OBSERVATIONS FOR THE
SUSTAINABLE DEVELOPMENT GOALS



UN-GGIM
EUROPE

UNITED NATIONS
COMMITTEE OF EXPERTS ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT



A converging ecosystem

"A major innovation will be the presentation of key **census topics on an EU-wide 1 km square grid.**"

Open Data Directive **High-value Datasets:**
"geospatial, EO and environment, meteorological, statistics."

47th meeting (Oct '21) of the European Statistical System Committee: the **Warsaw Memorandum on Earth Observation for official statistics** was adopted.

Feb '21: MoC with ELSTAT



Interface between ELSTAT and EO

UN-GGIM: SDG Line of Work

Support ELSTAT's Innovation

Pursue R&D projects, towards institutionalization



Recent highlights – Urban Heritage Climate Observatory



Greek Proposed 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



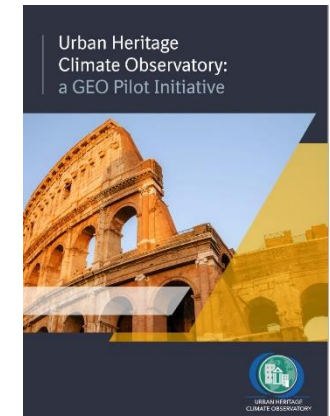
Open invitation by GEO Member Greece in collaboration with UNESCO

Open invitation to **gauge the interest and support of the GEO community** to propose a Community Activity, incorporating urban cultural heritage aspects into the 2020-2022 Work Programme (**June '20**).



Launch event of the new GEO Community Activity, coordinated by the **Greek GEO Office and UNESCO World Heritage Cities**.

>**200 delegates**, UNESCO, the UNFCCC Secretariat, the European Commission's Copernicus program, the Global Covenant of Mayors and the Greek Government. (**April '21**).



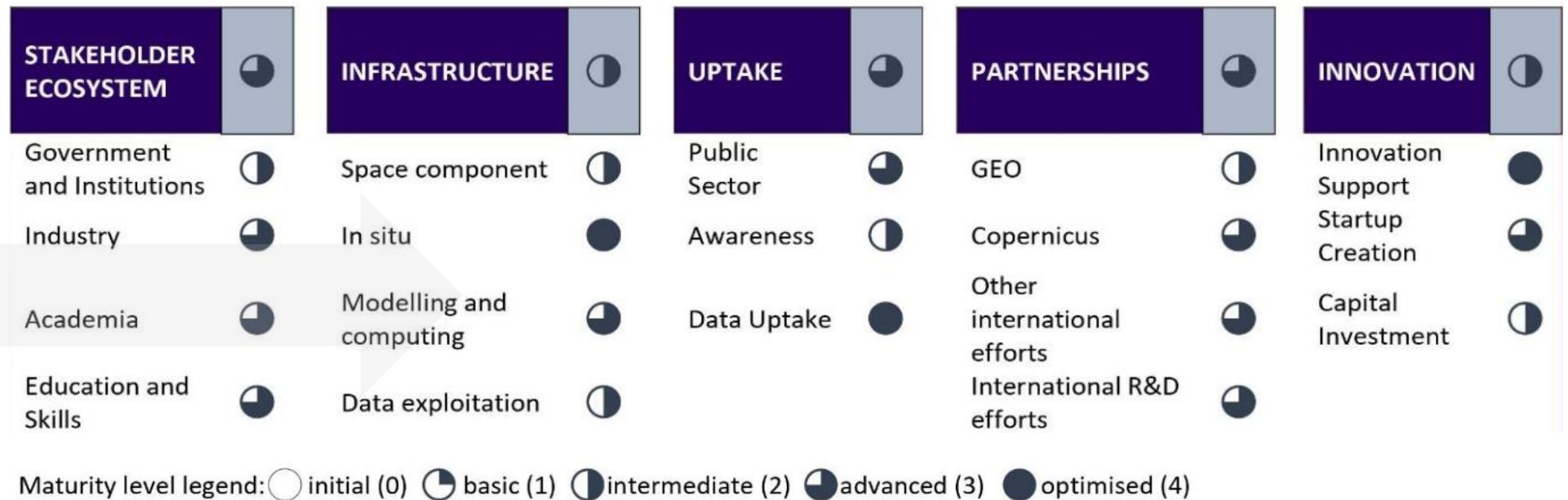
GEO Work Programme 2023-2025: Co-created **global methodology, global collection of use cases, global platform to collect and integrate EO-based data, information and composite indicators**.

Users: UNESCO and its consulting bodies, cultural heritage practitioners, national/local governments, urban planners, policy makers, site managers, research communities, GEO community (**Oct '22**).



EO maturity indicators, a Greek stocktake

- Ecosystem knowledge
- Desktop Research
- Interviews
- Validation by National Experts (Academia, Industry, Government)
- Consolidation and Harmonization by the EOMI team
- **49 Indicators**
- **5 Pillars**



Advanced status across the pillars. EOMI allowed the **identification of particular strengths and areas necessitating more effort**. Compared to the 2016 stocktake, the evolution of the industry is well reflected as is the **enlargement of the community** mirrored in the partnerships pillar. **EO tagging** is missing.



EO maturity indicators, a Greek stocktake

| STAKEHOLDER ECOSYSTEM | INDICATORS | Maturity |
|-----------------------------|------------------------|----------|
| Government and Institutions | Governance | |
| | Public Service Bodies | |
| | Staff | |
| | Budget | |
| Industry | Companies (number) | |
| | Companies (scale) | |
| | Companies (employment) | |
| | Resellers | |
| | Sales | |
| | | |
| Academia | Researchers | |
| | Publications | |
| Education and Skills | University courses | |
| | Training programmes | |

| INFRASTRUCTURE | INDICATORS | Maturity |
|----------------------------------|----------------------|----------|
| Space component | Own satellites | |
| | Third party missions | |
| | Ground-based | |
| | | |
| In situ component | In situ | |
| | | |
| Modelling and computing | Modelling | |
| | Computing | |
| Data exploitation infrastructure | Data access | |
| | Data handling | |
| | VAS platforms | |

| UPTAKE | INDICATORS | Maturity |
|----------------------|---------------------------------|----------|
| Public Sector Uptake | EO for policy making | |
| | Operational public activities | |
| | EO Data Sharing | |
| | | |
| Awareness | EO focussed events | |
| Data Uptake | Copernicus data (or equivalent) | |

| INNOVATION | INDICATORS | Maturity |
|--------------------|-----------------------------|----------|
| Innovation Support | Clusters or Innovation Hubs | |
| | Total number of startups | |
| | Creation Rate | |
| | Annual Revenue | |
| Startup Creation | | |
| | | |
| Capital Investment | Venture Funds | |
| | Capital raised | |

| PARTNERSHIPS | INDICATORS | Maturity |
|-----------------------------|--------------------------------------|----------|
| Involvement in GEO | Financial Contribution | |
| | GEO Flagships | |
| | GEO Initiatives | |
| | Provision of data to GEOSS | |
| Involvement in Copernicus | Financial contribution | |
| | Copernicus Services Contribution | |
| | Copernicus-related R&D projects | |
| Other international efforts | ESA activities or equivalent | |
| | SDG Reporting | |
| | Other Global Agenda Initiatives | |
| | UN Ecosystem activities | |
| | Spatial Data Infrastructure Efforts | n/a |
| | Standardisation and Interoperability | |
| | | |
| International R&D efforts | International financial institutions | |
| | Other funds | |

Growing infrastructure and upcoming investments, **strong in situ component**. **Awareness has greatly increased** for some actors. **Institutionalization**, not there yet. **More involvement** in GEOSS, Flagships, Copernicus Services is called for. **Lacking** in private capital. Foster **interaction between Industry and Academia**.

Periodic implementation →..



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Thank you!

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