

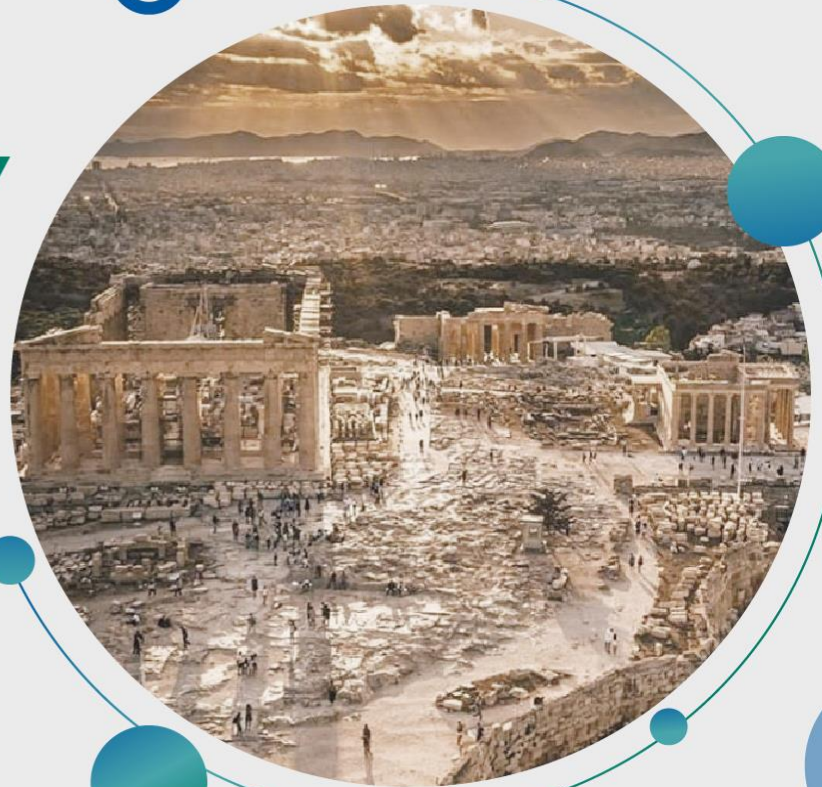


Urban Heritage Climate Observatory

a new GEO Community Activity

Dr. Evangelos Gerasopoulos
National Observatory of Athens

Director of the Greek GEO Office
Co-chair of GEO Programme Board
UHCO co-lead



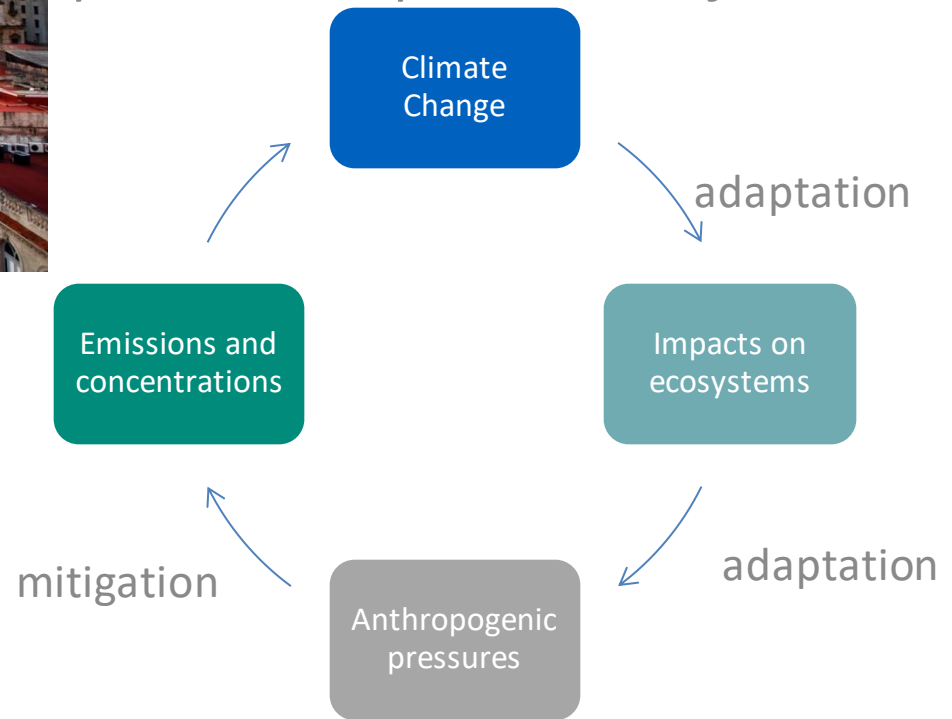
Workshop on Cultural & Natural Heritage
& Climate Challenges
1-2 July 2021



Climate Change Adaptation



Adapting to climate change means taking action to prepare for and adjust to both the current effects of climate change the predicted impacts in the future.



Integrate cultural heritage into the adaptation policies to be promoted at international climate change negotiations to increase resilience
[Committee of Ministers to member States]

EO for WH adaptation

EO could contribute revealing the requirements for World Heritage Climate Change adaptation & facilitate their implementation and effectiveness



Earth Observation

Pollution
Monitoring

Urban
Expansion
Mapping

Disaster
Risk
Assessment

Urgency
Strategies

Good
Practices

Policy

Public
Awareness



Group on Earth Observations



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

GEO 2020-2022 WP

GEO
Flagships

GEO
Initiatives

GEO
Community
Activities

Regional GEOs

GEO Foundational Tasks



SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION 2015-2030



01/07/2021

Session 2: Cultural and Natural
Heritage Requirements for Climate
Change Adaptation

Dr. Evangelos Gerasopoulos

Greek GEO Office



- Participate towards meeting national priorities and GEO's regional vision
- Coordinate EO activities and capacities in the region
- Promote EO information for decision making and raise public
- Maximize synergies amongst key EO partners in Greece
- Play up the leadership of the Greek EO actors
- Identify and trigger exploitation of synergies
- Foster the exploitation of best practices between EO players at the national level



History



UHCO kick off meeting
2-day event

April 2021

Open call
GEO Community
Activity co-led by
UNESCO & Greece

June 2020

Climate Action
Summit
Protection of the
cultural and natural
heritage from adverse
climate change
impacts

September 2019

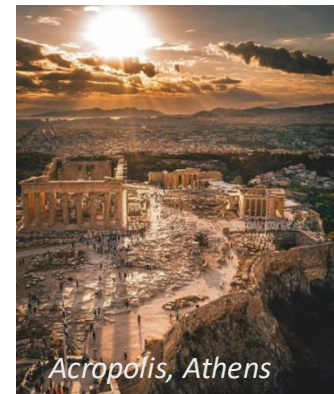
GEO XVI Plenary
EO role by the Head of
the Greek Delegation
Team

November 2019

Report on the
2019 Climate
Action Summit and
the way forward in
2020
By UN Secretariat with
the support of
UNESCO & WMO

December 2019

UNFCCC COP25
Presented by the
Minister of
Environment and
Energy of Greece,
WMO, and UNESCO



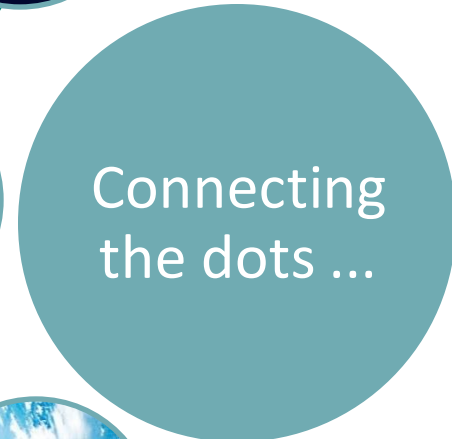
01/07/2021

Session 2: **Cultural and Natural
Heritage Requirements for Climate
Change Adaptation**

Dr. Evangelos Gerasopoulos

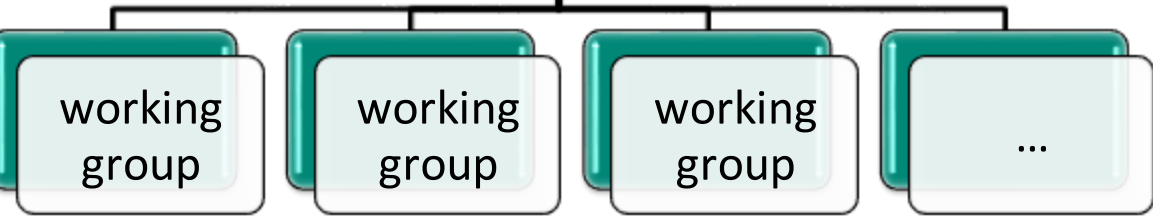
UHCO

The urgency of
climate change



The untapped
potential of EO

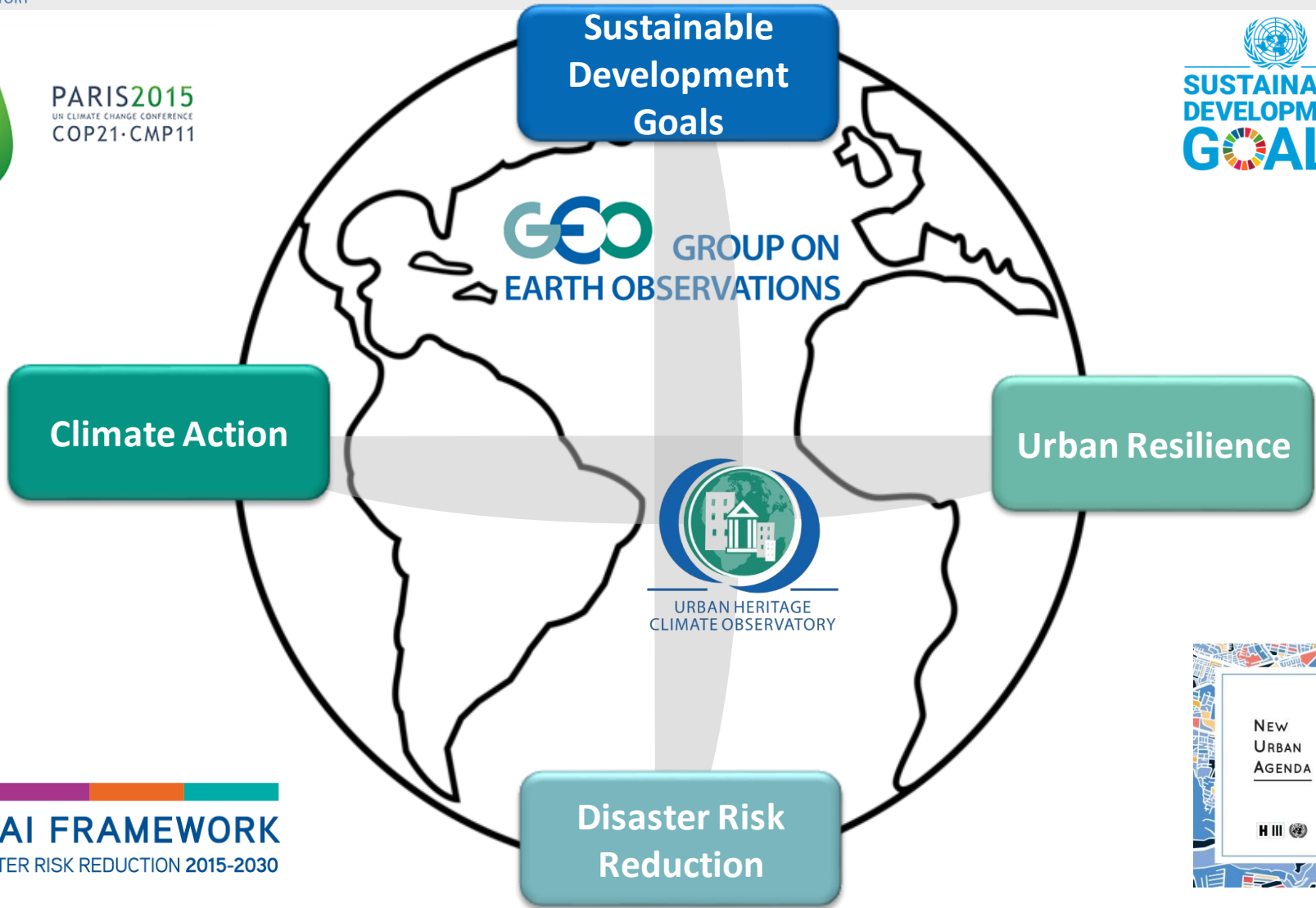
The importance
& vulnerability of
urban heritage



UHCO as the vehicle



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

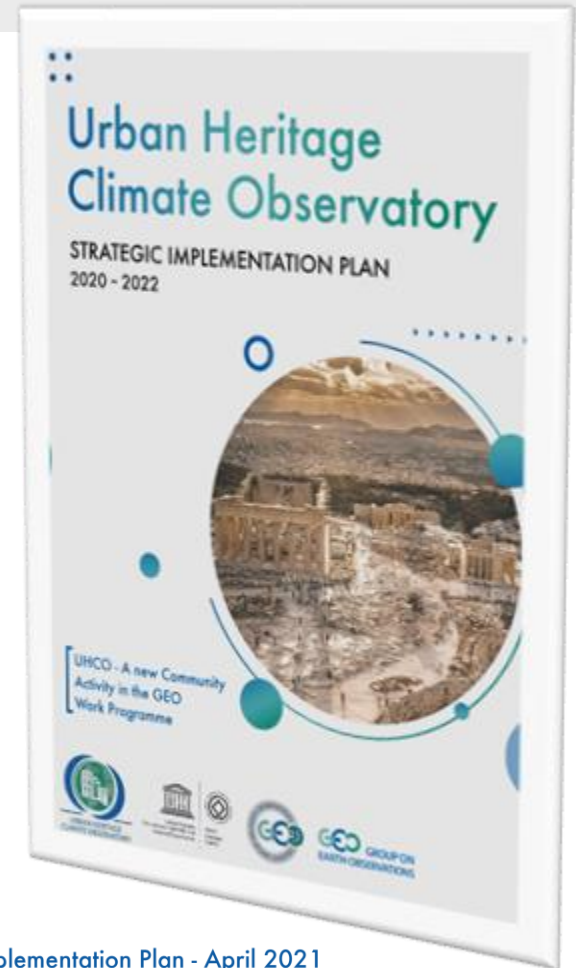



SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION 2015-2030



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	Partners 11



UHCO Implementation Plan - April 2021

We would like to acknowledge all that played a part in the conceptualization, synthesis and reviewing of the current implementation plan. Contributors: Jennifer Bailey & Nefta Votsi (editing), Fatimah Khan (formatting), Eleni Christia & team (graphics).

Objectives

Floods in Venice (UNESCO)

Enrich & modernize processes for the preservation, monitoring, management of urban heritage exploiting EO

Use a bottom up approach to inform global decisions & develop a global service to assist local practitioners in tackling climate change impacts to urban heritage

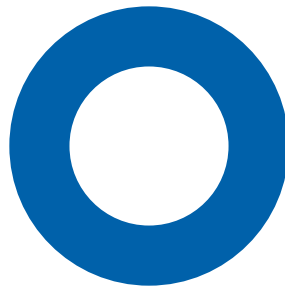
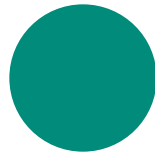
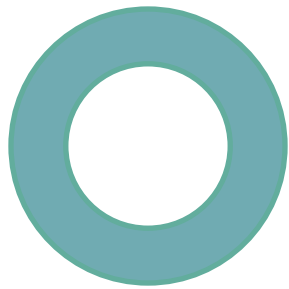
Communication & advocacy around climate action

Planned activities

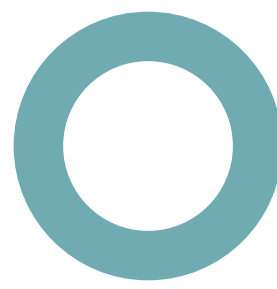
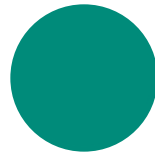
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- ✓ Exchange of letters between GEO & UNESCO
- ✓ Implementation Plan development

- Pull resources for global platform
- Pilot refinement
- Building awareness, training & education

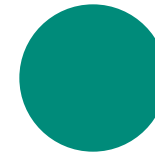
2020



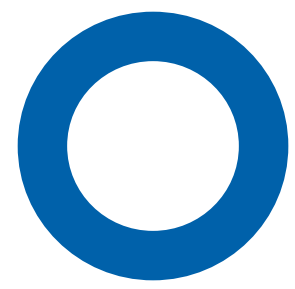
2021



2022



2023 & beyond



- **Launch of UHCO**
- Define working groups & actions
- **Collection of needs, data & global good practices**
- Identify & select pilot sites

- Define frame of indicators
- Initiate pilot implementations
- Conceptualization of global platform

Real needs & engagement



end 2021



data &
information
needs

stakeholders

Matching of data and information needs with available EO assets and provision of a plethora of EO expertise to cultural heritage stakeholders and vice versa



Jaisalmer Fort, Rajasthan, India

Good practices across the board



- Assessment and collection of global good practices

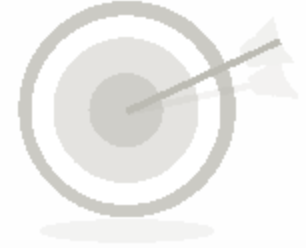


- Building awareness, knowledge and networking



- Reduce fragmentation
- Avoid duplication

end 2021

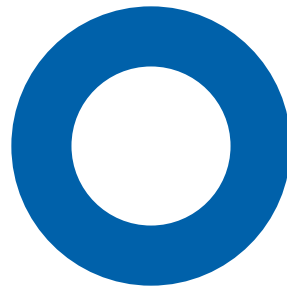
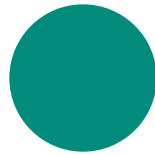
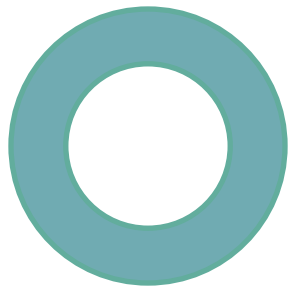


Planned activities

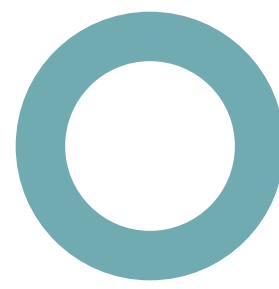
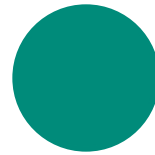
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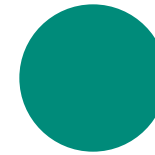
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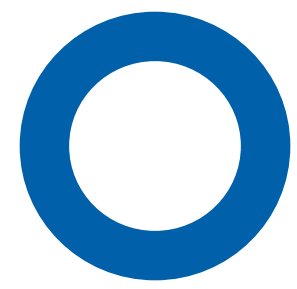
2021



2022



2023 & beyond



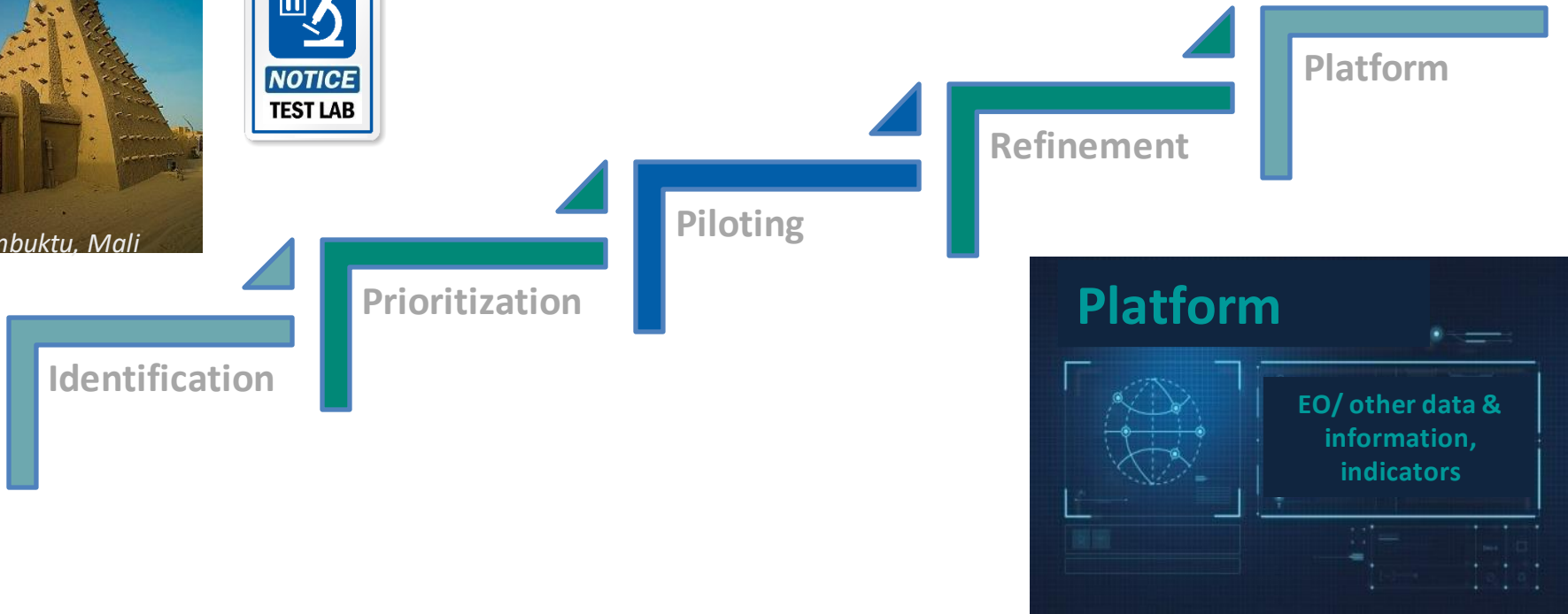
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UHCO “laboratory” sites



Bridge geographical scales, integrating a global EO-based approach into local practices and conversely informing the global platform with local experiences.

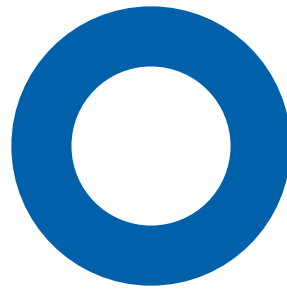
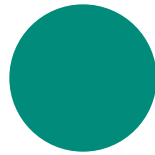
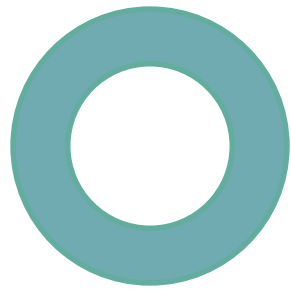


Planned activities

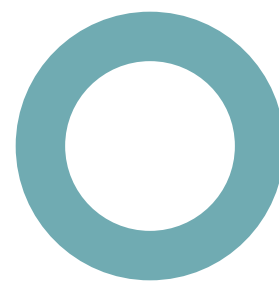
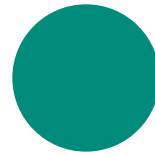
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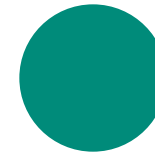
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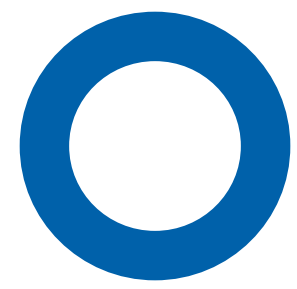
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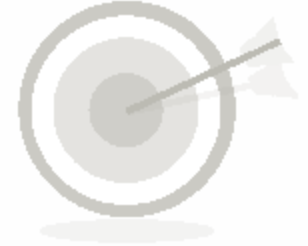
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Training & education

Through training and educational efforts, UHCO will build capacities and facilitate the transfer of knowledge and sharing of good practices to enhance local, national and international efforts of using EO in relation to world and urban heritage.

end 2021



Capacity
building and
development

Educational
activities



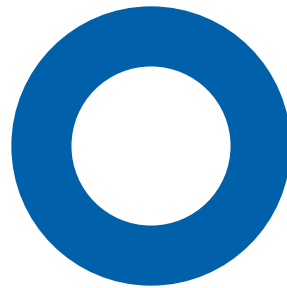
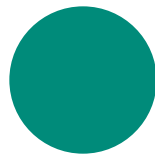
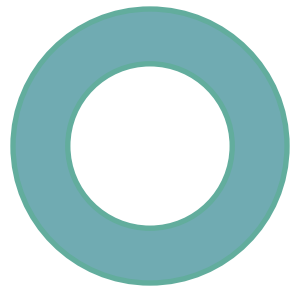
Pushkar town in Rajasthan, India

Planned activities

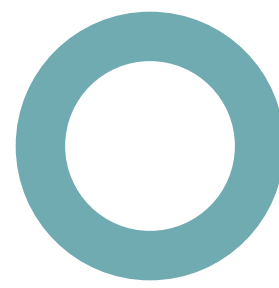
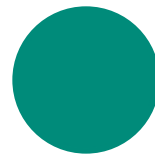
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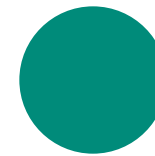
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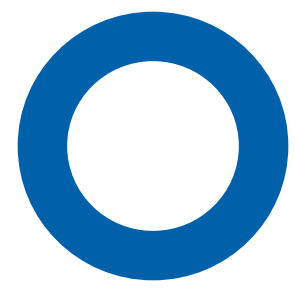
2021



2022



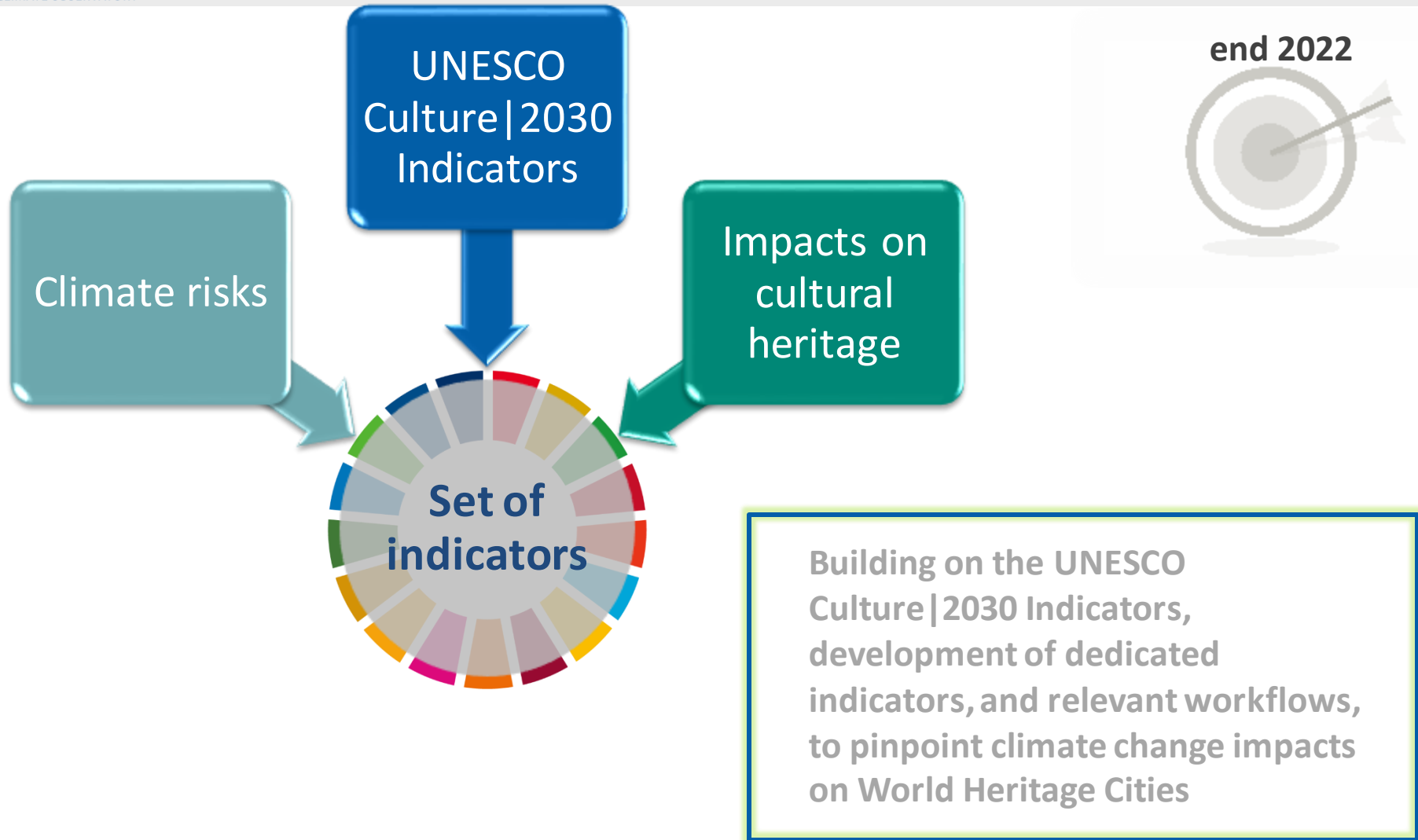
2023 & beyond



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Indicators



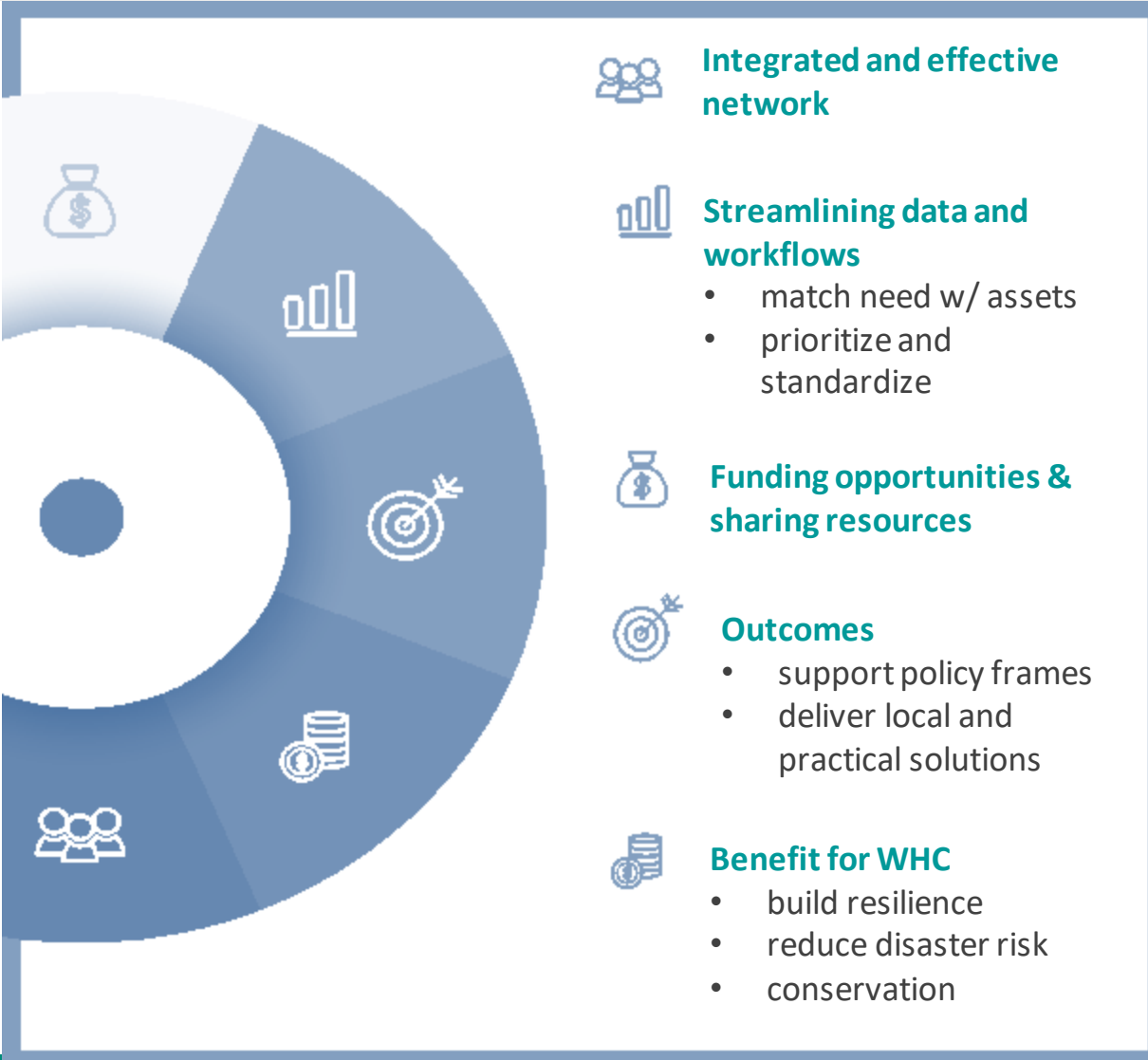
From paper to concrete outcomes



end 2021



Concretizing synergies among partners,
construction of a plan for funding attraction
and strategic design of short- to long- term
roadmap of activities



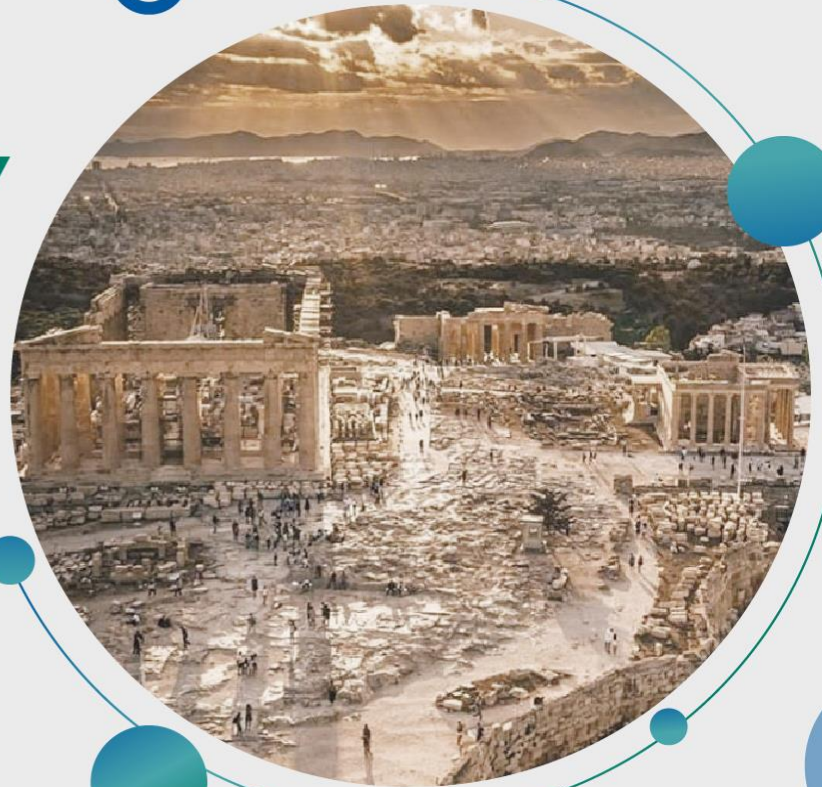
VISION



Urban Heritage Climate Observatory

a new GEO Community
Activity

Thank you!



Dr. Jyoti Hosagrahar

Deputy Director, World Heritage Centre
Culture Sector, UNESCO

Dr. Evangelos Gerasopoulos

Research Director, National Obs. of Athens
Director of the Greek GEO Office

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