



GreenHeritage

The impact of Climate Change on
Intangible Cultural Heritage

Erasmus+ project

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(CNR-ISMN)

GA N° 101087596



Co-funded by
the European Union



Consiglio Nazionale
delle Ricerche



GH Final Conf. October 3°, 2025 , Roma

GreenHeritage



- ☐ The "GreenHeritage" project seeks innovative tools and methodologies capable of promoting adaptive and systemic approaches to better manage/mitigate the effects of climate change on intangible cultural heritage, with particular reference to Europe, a topic that has received little or no attention.
- ☐ The project aspires to serve as a strong reminder that climate change is present, affecting both directly and indirectly all aspects of Europe's cultural heritage.
- ☐ In this sense it is also an urgent appeal to stimulate collective action.
- ☐ The project acts starting from a local scale, and then reaching a national and European level.



Benefits linked to the protection of cultural heritage

- **Maintaining Cultural Diversity**
- **Support Intercultural Dialogue**
- **Encourage Respect for Differences**
- **Promote Social & Economic Development**

GreenHeritage Partnership



Consortium Partners



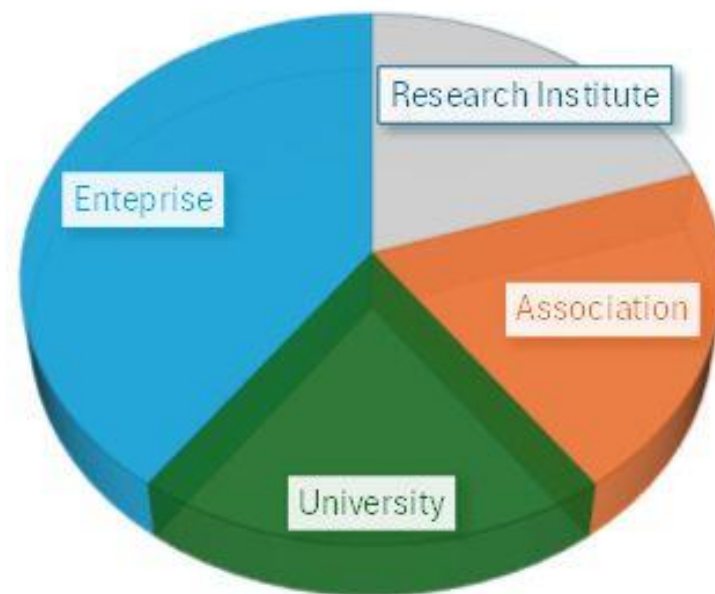
MULTI & INTER -DISCIPLINARY Consortium



Number	Role	Short Name	Legal Name	Country
1	COO	CNR	Consiglio Nazionale delle Ricerche	IT
2	BEN	CUEBC	Centro Universitario Europeo per i Beni Culturali	IT
3	BEN	Fondazione CMCC	Fondaz. Centro euro-Mediterraneo sui Cambiamenti Climatici	IT
4	BEN	FSMLR	Fondacion Santa Maria La Real del patrimonio historico	ES
5	BEN	ReadLab	Research Innovation and Development Lab	EL
6	BEN	ILFA LU	Latvijas Universitates Literaturas Folkloras un makslas Institus Latvijas universitates Agentura	LV
7	BEN	UAEGEAN	Panepistimio Aigaiou	EL
8	BEN	ReadLab Brussels	ReadLab Brussels	BE
9	BEN	ELORIS	Etaireia Ereynas, Ekpaideyshs, kai notomias kai anptyxhs ths perifereias boreioy aigaioy ae	EL
10	BEN	ALLI	Athens Lifelong Learning Institute	EL



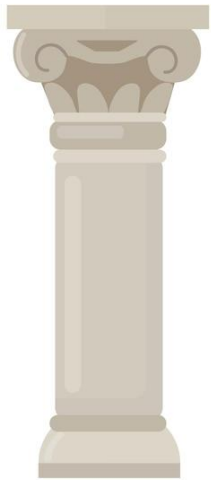
GREEN HERITAGE CONSORTIUM COMPOSITION



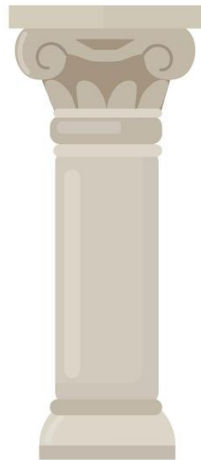
- **O1: Analyse the state of the art on the risks to intangible cultural heritage (ICH) from climate change (CC).**
- **O2: Explore the key role ICH can have in sustainable and CC-resilient development and map adaptation practices already existing in Europe.**
- **O3: Develop a methodology, policy recommendations and handbook for ICH management, conservation and protection against the implications arising from the CC .**
- **O4: Bring the preservation and protection of' ICH to the heart of public debate as well as to the attention of policy-makers at both national and European level**
- **O5: Promote awareness-raising and active citizenship actions regarding environmental issues, sustainability and importance of the conservation of tangible and intangible cultural heritage.**
- **O6: Develop a culture of sustainability and innovation among researchers, industry players and empower them by providing a set of cutting-edge training resources based on intelligent skills, available in digital and open media**
- **O7: Support the development and approach of micro-learning and digital-based education, promoting effective use of digital learning practices and capabilities**



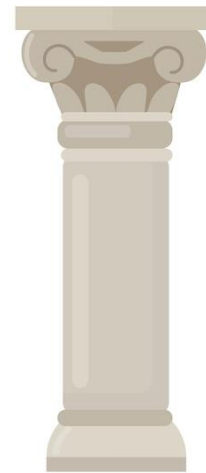
**ICH & CC
challenges**



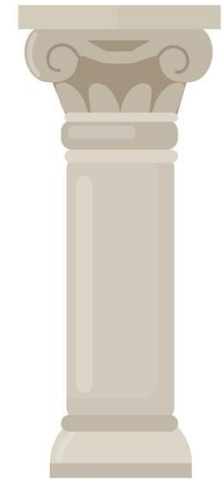
EDUCATION



**Societal
Impacts &
Awareness**



Policy Briefs



GH Pillars

GreenHeritage is implemented in 5 European Countries (Belgium, Grece, Italy, Latvia and Spain).

Outcomes:

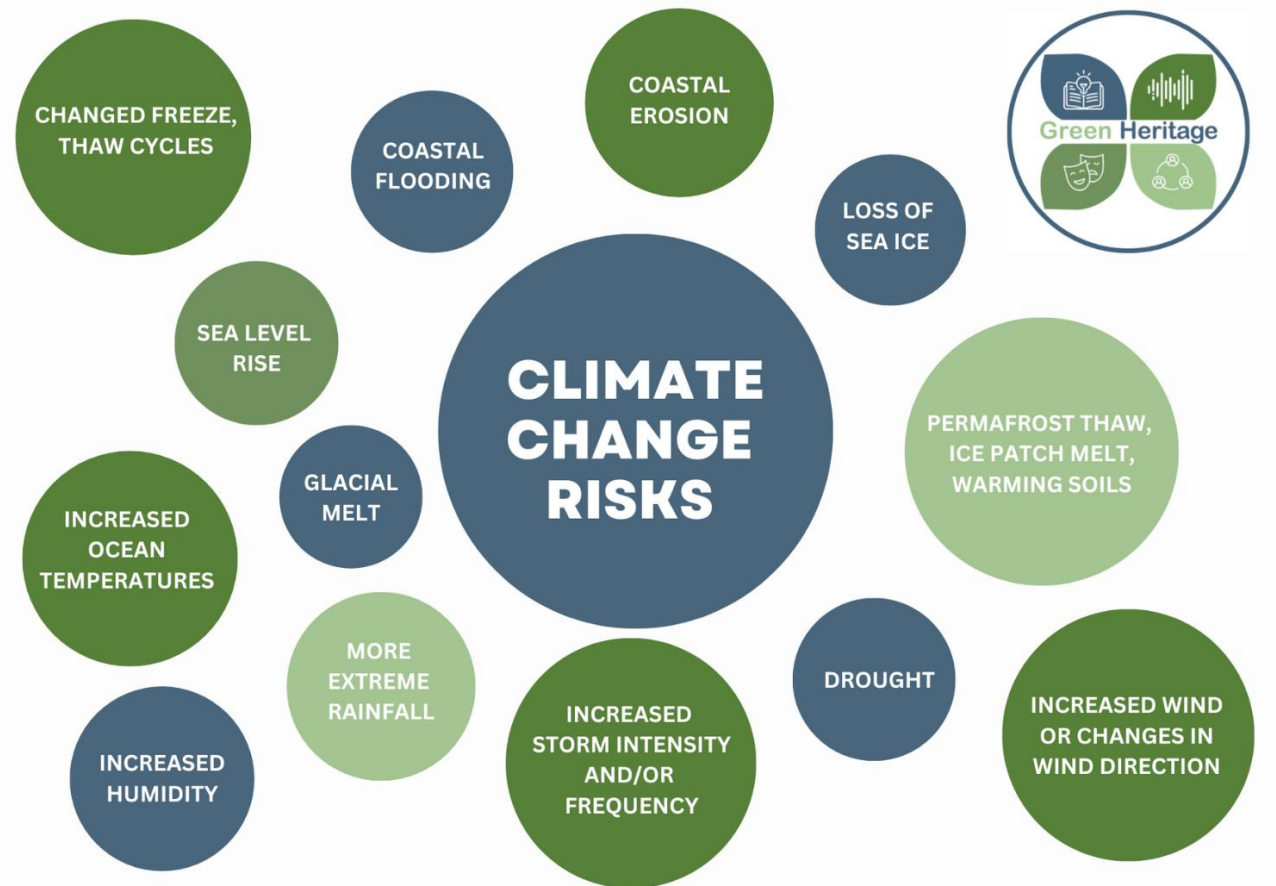
- •A **methodology** for the management, conservation and safeguarding of the ICH with respect to the challenges of the CC, based on the analysis of needs in the partner countries but also throughout Europe.
- •An **interactive map** showing examples of the most at-risk areas and regions in Europe where CC has started to have a negative impact on different types of ICH (**14 Case Studies**)
- •A **blended learning program on ICH and CC** consisting of **4 online modules** and **4 transnational physical workshops**, aimed at PhD students, researchers, policymakers and cross-sector professionals;.
- • A **micro-credential program** on ICH and CC, both relating to the 4 online modules and the workshops.
- •**5 policy roundtables** and **a final conference** that brings together scientists, researchers, communities, leaders and policy makers.
- •**5 policy briefs**, and a **handbook on the state of the art of ICH and CC impacts** at national and European levels that includes key Project findings and final recommendations for policy adjustments
- •**A long-term action plan** that ensures the transferability of the Project results.



Identifying and analysing the state of play at national and European levels regarding ICH and current CC threats

Exploring the key role that ICH could have in sustainable and climate-resilient development and mapping existing adaptation practices across EU

Developing methodology



- A. **Bring together different knowledge systems** and facilitate dialogue between experts and the ICH community.
- B. **Bridge the tangible-intangible heritage gap**, embracing the dynamic nature of ICH in the face of evolving capacities and vulnerabilities to climate change.
- C. **Integrate cultural heritage into climate adaptation** to recognizing how this could be carried out in a **culturally sensitive and appropriate way**.

The methodology

1. Analysis of policy framework, mapping heritage stakeholders, setting-up a mixed working group, inventorying ICH elements
2. Identifying and assessing climate-related risks, ICH and community vulnerabilities and endogenous capacities
3. Creating a catalogue of relevant options
4. Social appraisal of options and selection
5. Designing the safeguarding and adaptation plan
6. Defining indicators, monitoring and using results to enhance or adjust adaptation and safeguarding



GreenHeritage Case Studies typology

- **Traditional agricultural practices and food production customs**
- **Traditional fishing, harvesting and farming practices**
- **Religious rituals and festive events**
- **Traditional craftsmanship that forms the cultural landscape and relationships between people and places**
- **Traditional outdoor leisure practices related to the knowledge of nature**



GH Case studies (14)



✓ Need Analysis and Methodology

✓ Stakeholder categories definition



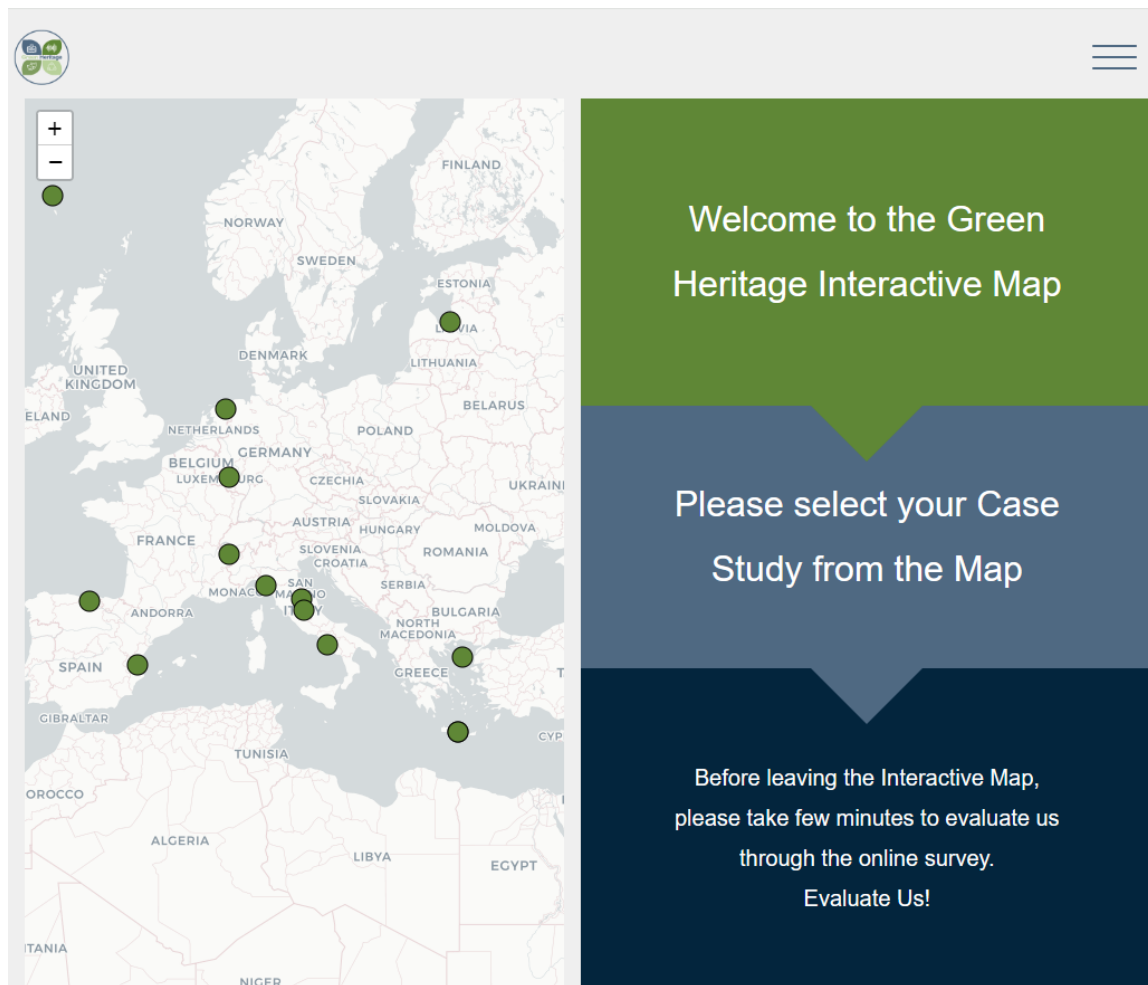


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<https://map.greenheritage-project.eu/>

ICH Map



Purpose of the Interactive Map:

Facilitate collaboration among diverse strategic actors across sectors to address intangible cultural heritage (ICH) and environmental degradation.

Key Features:

- Hosts **over a dozen case studies** and findings
- Provides compact **(but not exhaustive)**, actionable information to educate and motivate users.

Target Groups:

Archaeologists, historians, ethnographers, scientists, anthropologists, educators, community leaders, environmental activists, and local knowledge holders.

Aims to educate and motivate the users on ICH effects, risks and action to be taken.



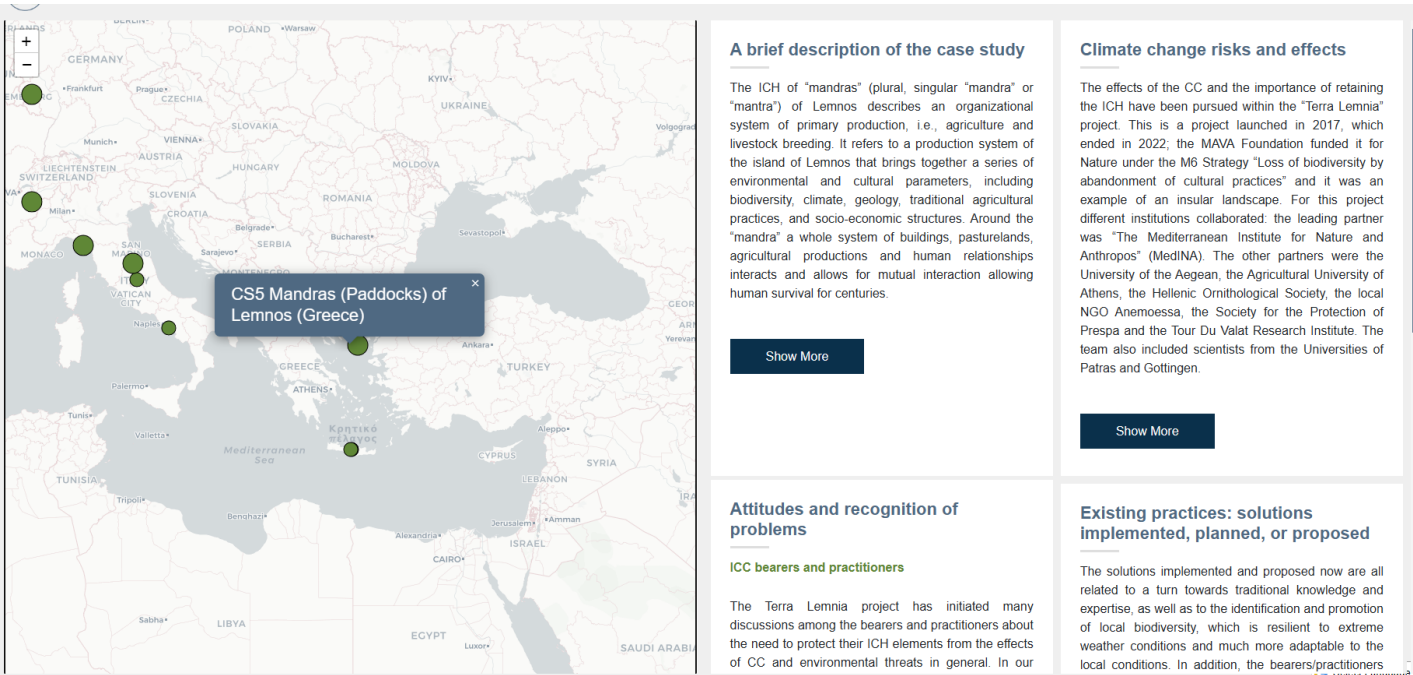


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<https://map.greenheritage-project.eu/>

ICH Map



- A brief description
- Climate change impact on case study
- Attitudes and recognition of problems
- Existing practices: solutions implemented, planned, or proposed
- Further reading and media link

- **CS1 Puffin Harvesting and Hunting (Denmark)**
- **CS2 Alpinism (France, Italy, Switzerland)**
- **CS3 Wine Culture in Germany**
- **CS4 Agricultural and Dietary Tradition of Carob in Crete (Greece)**
- **CS5 Mandras (Paddocks) of Lemnos (Greece)**
- **CS6 Traditional Practices of Wild Edible Plants in Crete (Greece)**
- **CS7 Art of Dry-stone Walling, Knowledge and Techniques in Cinque Terre and Amalfi Coast (Italy)**
- **CS8 Festival of the Ceri / Race of the Ceri- Gubbio (Italy)**
- **CS9 Madonna Avvocata Festival (Amalfi Coast, Italy)**
- **CS10 Network of Big Shoulder-borne Processional Structures (Italy)**
- **CS11 Lamprey Fishing and Preparation Skills in Carnikava (Latvia)**
- **CS12 Skating on Natural Ice (Netherlands)**
- **CS13 Transhumance in the Cantabrian or Northern Third of Spain (Spain)**
- **CS14 Valencian Paella, "the Art of Uniting and Sharing" (Spain)**



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✓ Modules (n.4) & Curricula
definition and implementation

✓ Blended Learning Program definition & content

GreenHeritage VLE

Launched on 12th September

- Hosted on the Open edX platform.
- Accessible at:
elearning.greenheritage-project.eu.
- Branded design aligned with GreenHeritage identity.

Accessibility:

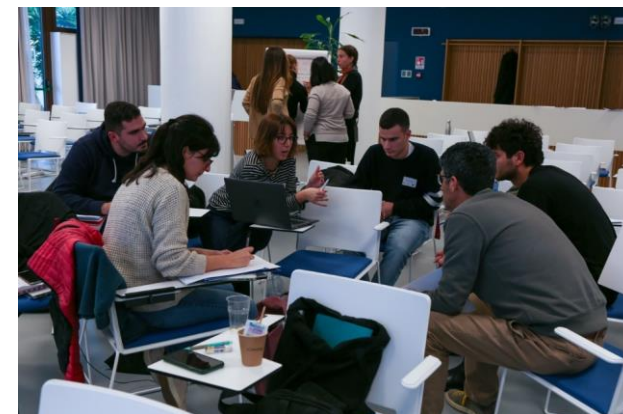
- Complies with EU accessibility standards (e.g., captions, alt text, high-contrast visuals).
- Mobile-friendly for seamless use across devices.



N 4
Courses
on ICH &
CC

4 GH Workshops

Workshops in Latvia,
Spain, Greece, and Italy



✓ Blended Learning Program definition & content





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Certification

Certificates issued to track
learner achievement and
promote engagement.

Verified certificates linked to
unique URLs for
professional use.



Microcredentials (certificate awarded)

Micro-credentials and connection to ECTS

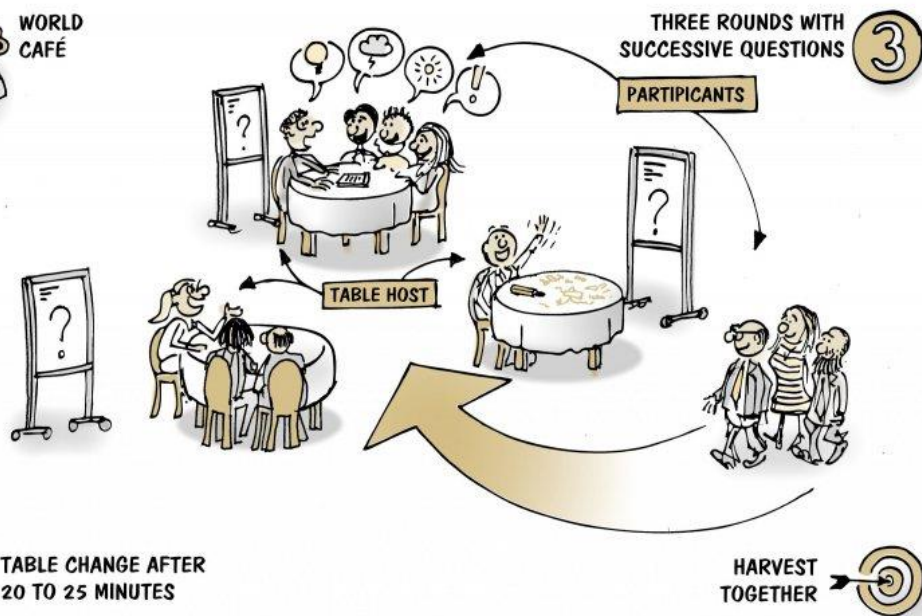
<https://elearning.greenheritage-project.eu/certificates/271b9b8d15d849ae94745c7cf96f3cac>

On a practical level...





WORLD
CAFÉ



✓ PRT

- World Café
- Stakeholders involvement

Spain, Italy, Greece



✓ Policy Briefs

✓ Increased awareness in **Young generation** & Civil Society



PRT & Policy Briefs

NEWS

Cambiamento climatico e tutela del patrimonio culturale

25/11/2024

Si è da poco conclusa la 29esima Conferenza delle Parti (COP29) della Convenzione Quadro delle Nazioni Unite sui Cambiamenti Climatici (UNFCCC) di Baku, in Azerbaijan.

La COP29 ha preso il via l'11 novembre in un'atmosfera "pesante" poiché, come annunciato dalle Nazioni Unite, si prevede che nel 2024 si stabilirà un nuovo record per le emissioni globali di gas serra derivanti dalla combustione di carbone, petrolio e gas naturale. Tra i pochi risultati misurabili positivi della conferenza, sono emersi progressi sulla questione dell'adattamento del patrimonio culturale agli effetti del cambiamento climatico. E questo perché, dopo la pressione coordinata di 35 Paesi – e della Grecia attraverso il Ministero della Cultura – il patrimonio culturale (immateriale e materiale) è stato incluso nel Fondo delle Nazioni Unite per le perdite e i danni.

E' da evidenziare che il Cnr è impegnato su questi temi, oggi di grande attualità, già da diversi anni e che contribuisce all'importante tematica di carattere globale degli effetti del cambiamento climatico sul patrimonio culturale materiale attraverso due progetti: "Heracles" (Horizon 2020, 2016-2019) e "GreenHeritage" (Horizon Europe, 2022-2025) coordinati dal Cnr stesso attraverso l'Istituto per lo studio dei materiali nanostrutturati (Cnr-Ismn) e l'Istituto di ricerche sulla popolazione e le politiche sociali (Cnr-Irpps).



Heracles project

Il progetto "Heracles" ha avuto per oggetto lo studio di soluzioni atte ad aumentare la resilienza dei beni storici e archeologici del patrimonio culturale agli effetti e danneggiamenti causati dai cambiamenti climatici. Il sistema sviluppato è una piattaforma ICT in grado di integrare molte informazioni da sorgenti diverse per fornire una situazione aggiornata funzionale ad una resilienza incrementata in termini di manutenzione, conservazione, mitigazione e management dei rischi. Oltre alla cittadina medievale di Gubbio, dove sono stati monitorati i rischi di dissesto idrogeologico che minacciano gli edifici e le antiche mura urbane a causa degli effetti del cambiamento climatico, anche Creta (Grecia) è stata oggetto di studio con il Palazzo di Cnosso, sito Unesco, e la fortezza veneziana di Koules nel porto di Heraklion. In questo caso oggetto di studio sono stati gli effetti del cambiamento climatico legati all'innalzamento del livello del mare.

Il progetto "GreenHeritage" - per il quale il 20 novembre scorso si è tenuta a Brussels la seconda riunione annuale, alla presenza del Project Officer della Commissione Europea - ricerca strumenti e metodologie innovativi in grado di promuovere approcci adattivi e sistemici per gestire/mitigare meglio gli effetti dei cambiamenti climatici sul patrimonio culturale immateriale, con particolare riferimento all'Europa, un argomento che ha ricevuto poca o nessuna attenzione. Il progetto aspira a fungere da forte promemoria del fatto che il cambiamento climatico è presente, influenzando sia direttamente che indirettamente tutti gli aspetti del patrimonio culturale europeo. In tal senso è anche un appello urgente a stimolare azioni collettive. Il progetto agisce partendo da scala locale, per poi giungere a livello nazionale ed europeo. GreenHeritage, "The impact of Climate Change on the Intangible Cultural Heritage" è co-finanziato dalla Unione Europea (Granting authority: European Education and Culture Executive Agency), nella Call: ERASMUS-EDU-2022-PI-FORWARD.

Tra i risultati del progetto:

- Una mappa interattiva che mostra esempi delle aree e delle regioni più a rischio in Europa in cui il CC ha iniziato ad avere un impatto negativo su diversi tipi di ICH;
- Un programma di apprendimento misto su ICH e CC composto da 4 moduli online e 4 workshop fisici transnazionali, rivolto a dottorandi, ricercatori, politici e professionisti intersettoriali;
- Un programma di micro-credenziali su ICH e CC composto da 4 moduli online rivolti a un pubblico più ampio.

Per informazioni:

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Vedi anche:

- Progetto Heracles (<https://www.heracles-project.eu/>)
- Progetto GreenHeritage (<https://greenheritage-project.eu/>)

Immagini:

(<https://www.cnr.it/it/news/immagine/10066/large>)

(<https://www.cnr.it/it/news/immagine/10067/large>)

**THE FUTURE HAS AN
ANCIENT HEART** *(Carlo Levi)*

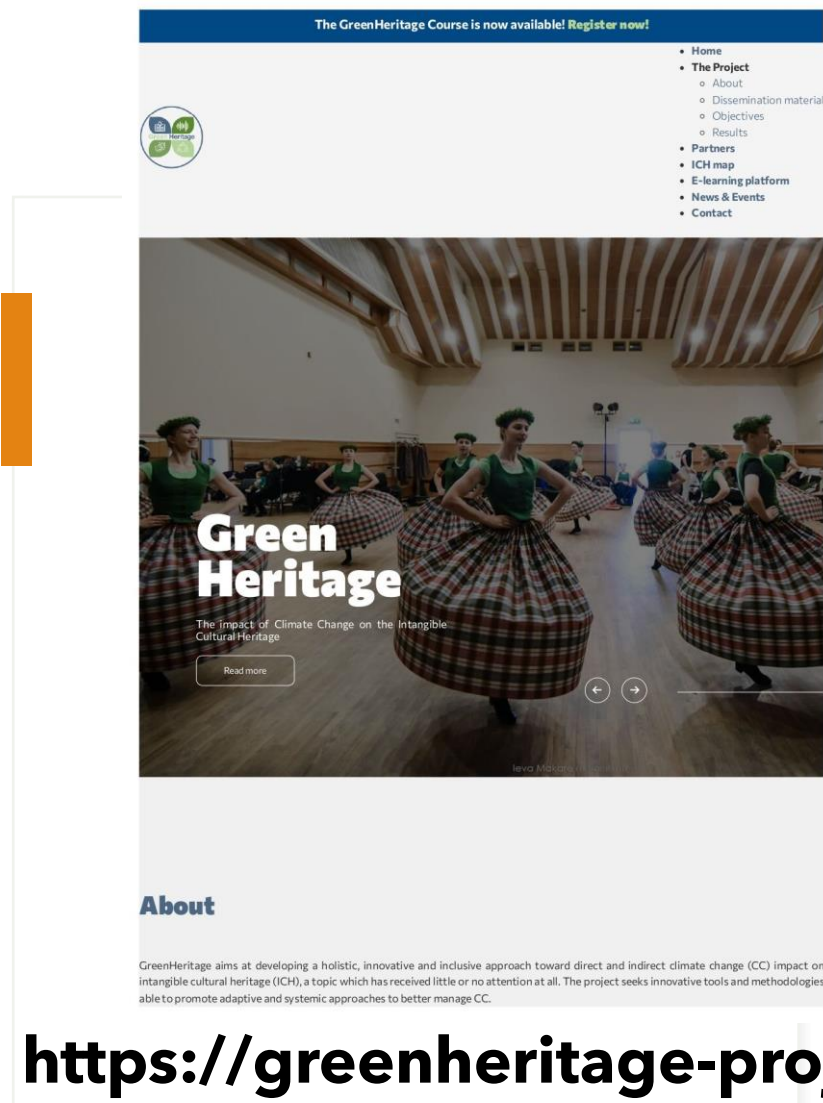


Science, Technology & Research



Cultural Heritage

Tangibile & Intangibile



Grazie!
Thank you!

Contact:
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