

Managing cultural heritage from a sustainable approach: recent initiatives of the Ministry of Culture of Spain

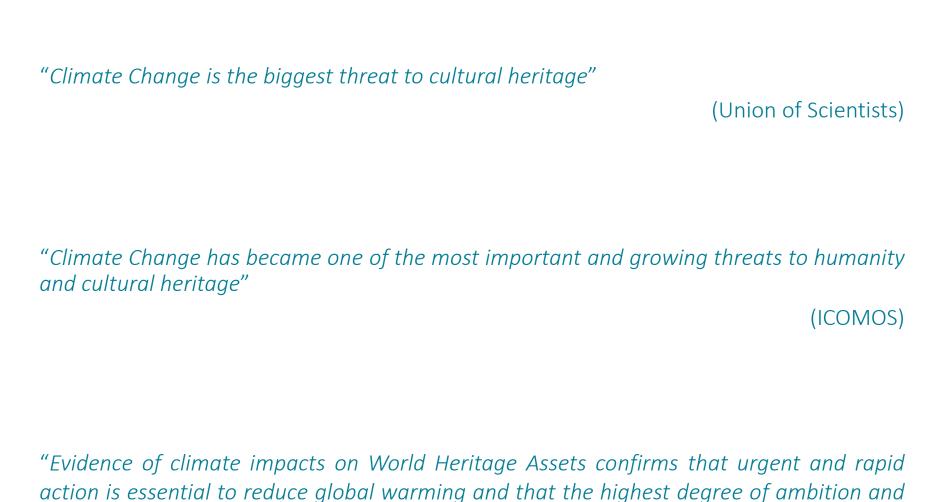




DE CULTURA





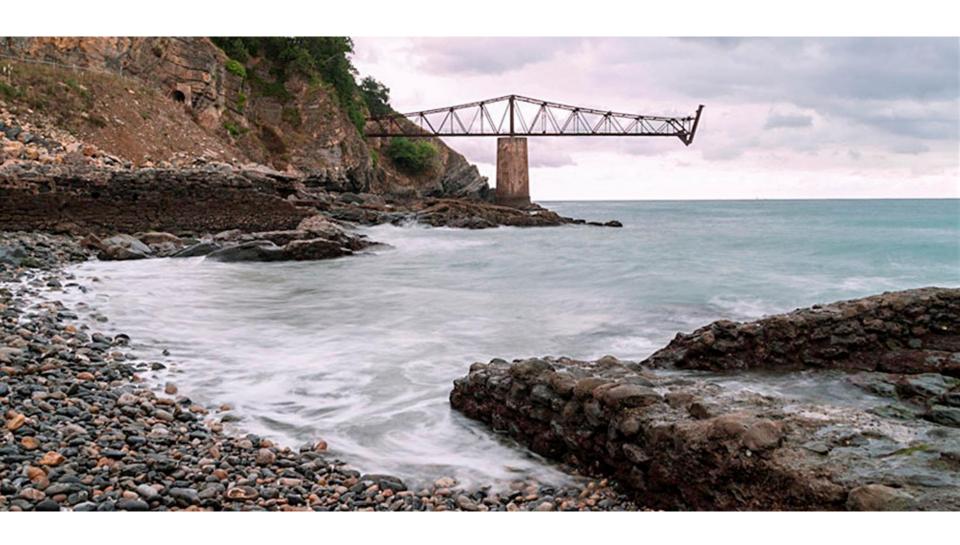


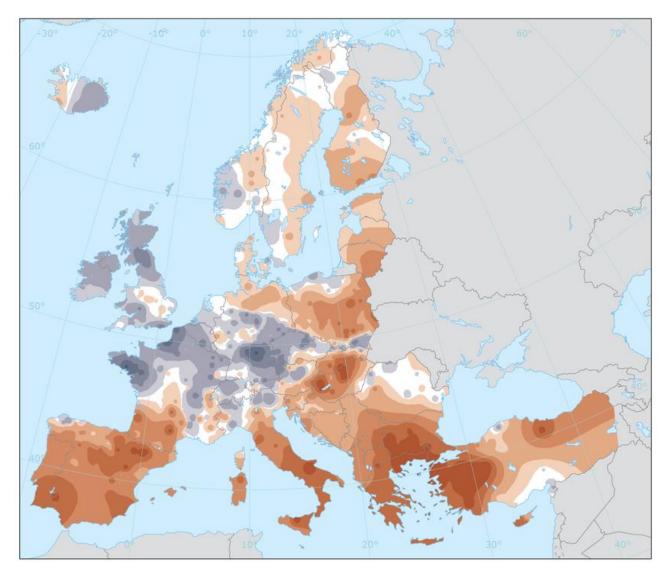
leadership is needed from all countries to ensure the full implementation of the Paris

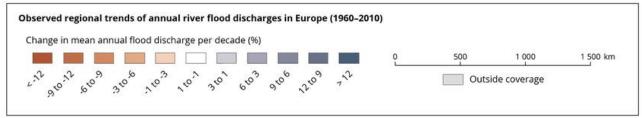
(UNESCO)

Agreement"

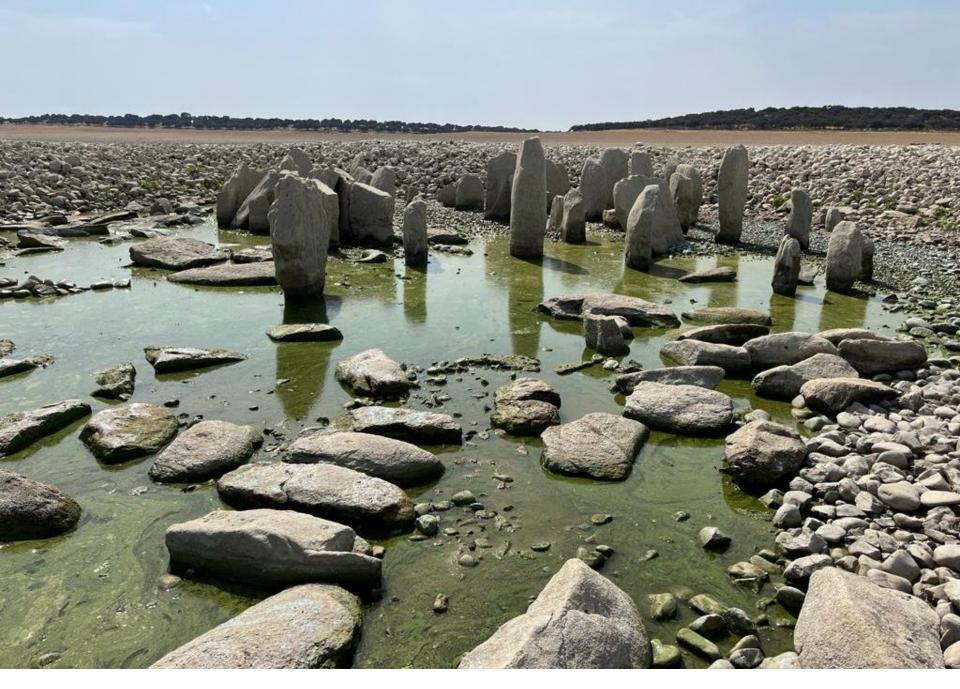












Valdecañas Dolmen emerged by the decrease of the water level of the reservoir (Spain), July 2021



Expoliation of Valdecañas Dolmen (Spain), July 2021





Extraction of the Pre-roman bovid sculpture found in Valdecañas reservoir by the Ministry Technicians



Extraction of the pre-roman bovid sculpture found in Valdecañas reservoir

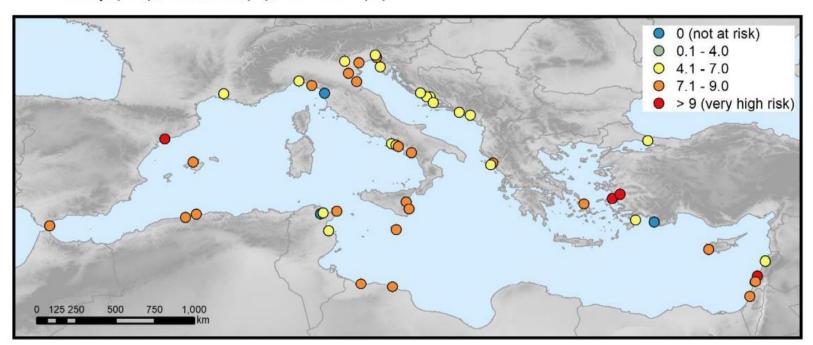




Erosion risk in 2100 (high-end)



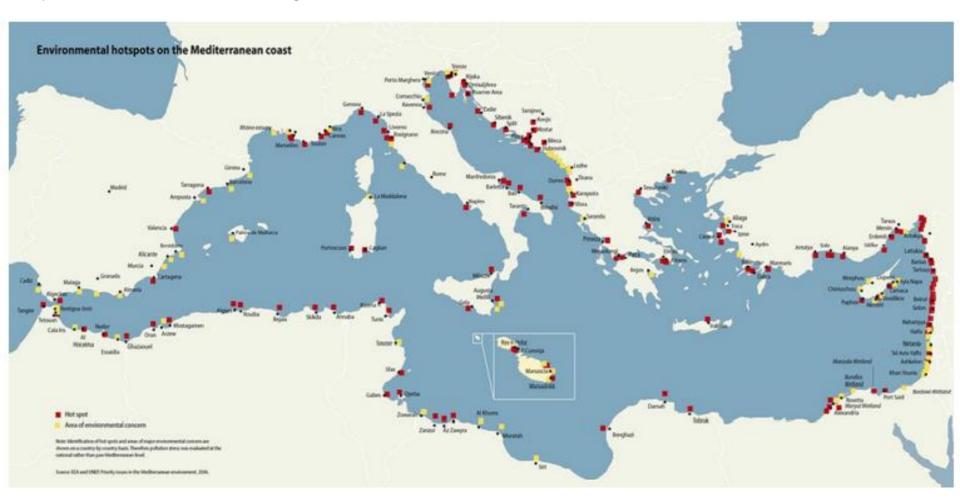
- 46 WHS at risk (94 %)
- Highest risk: Tyre, Lebanon
- Italy (14), Croatia (7), Greece (4)





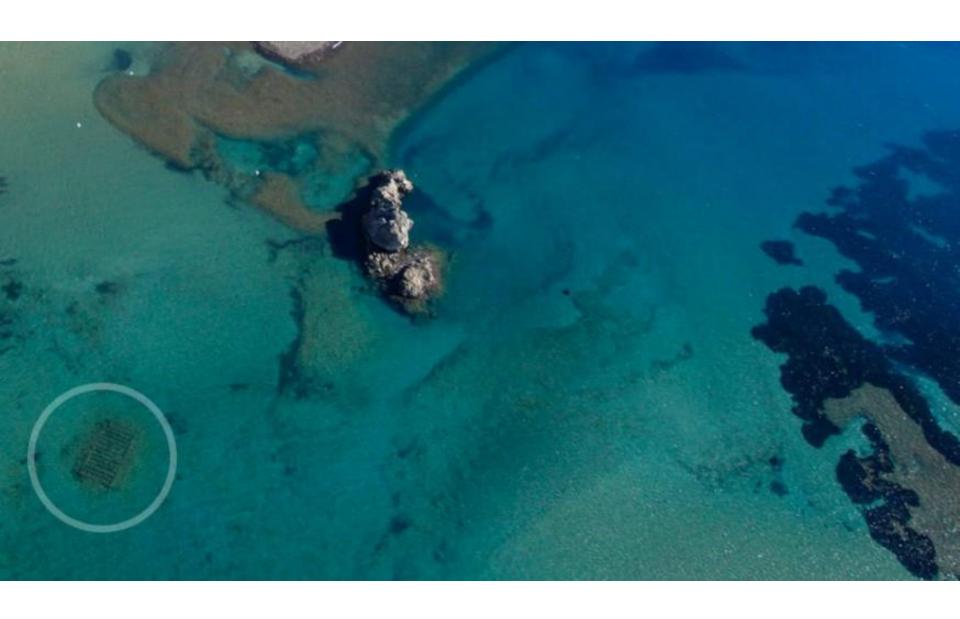
Tarraco roman amphitheater (Spain)

Hotspots on undwerwater cultural heritage

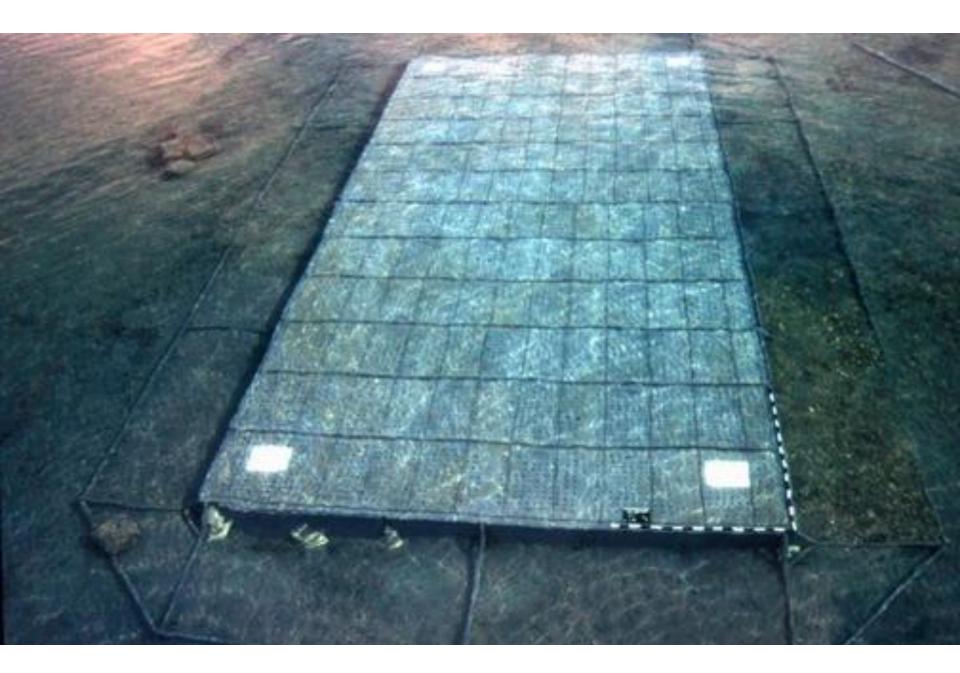


"Tropicalization" of the Mediterranean Sea (Increased temperature, salinity, acidity, invasive species...)





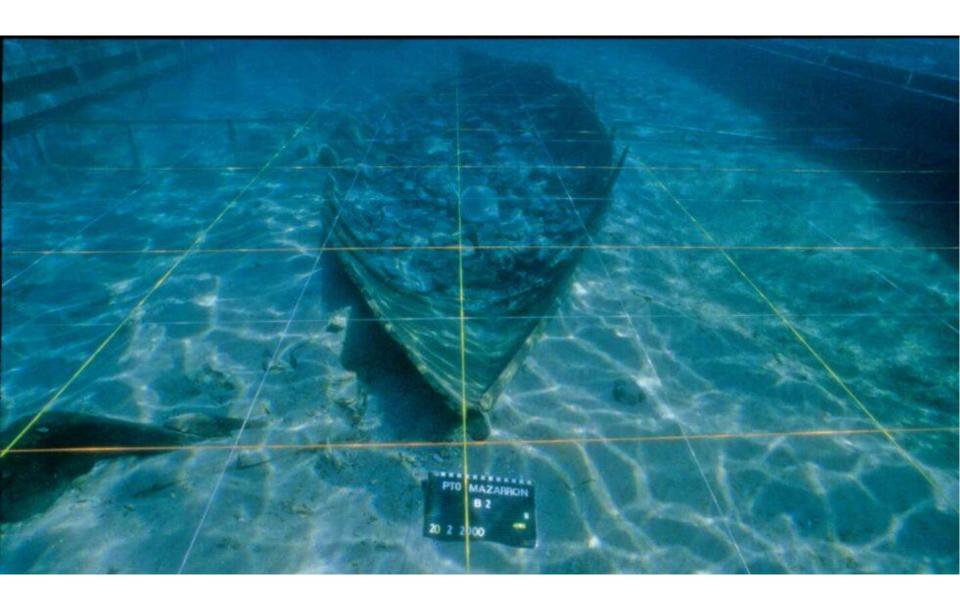
Location of the Phoecian shipwreck Mazarrón II (VII th century BC, Spain)



Security cage for "in situ" preservation of the Phoecian shipwreck Mazarrón II (Spain)

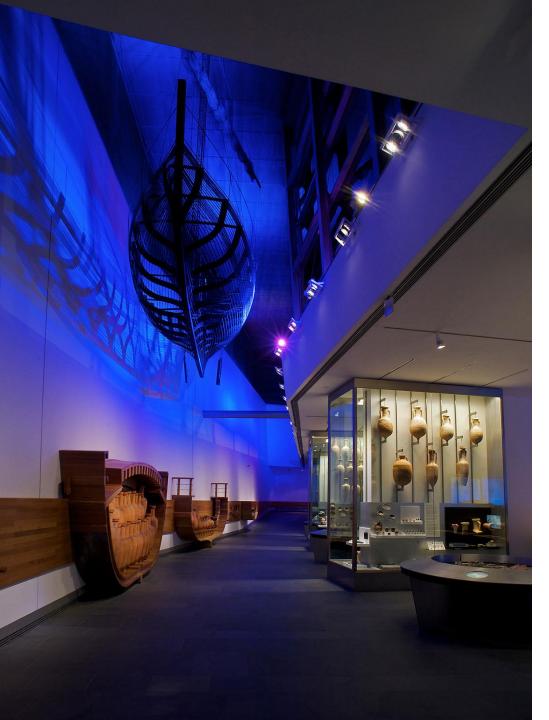


Dismantlement of the Security cage of the Phoecian shipwreck Mazarron II (Spain)





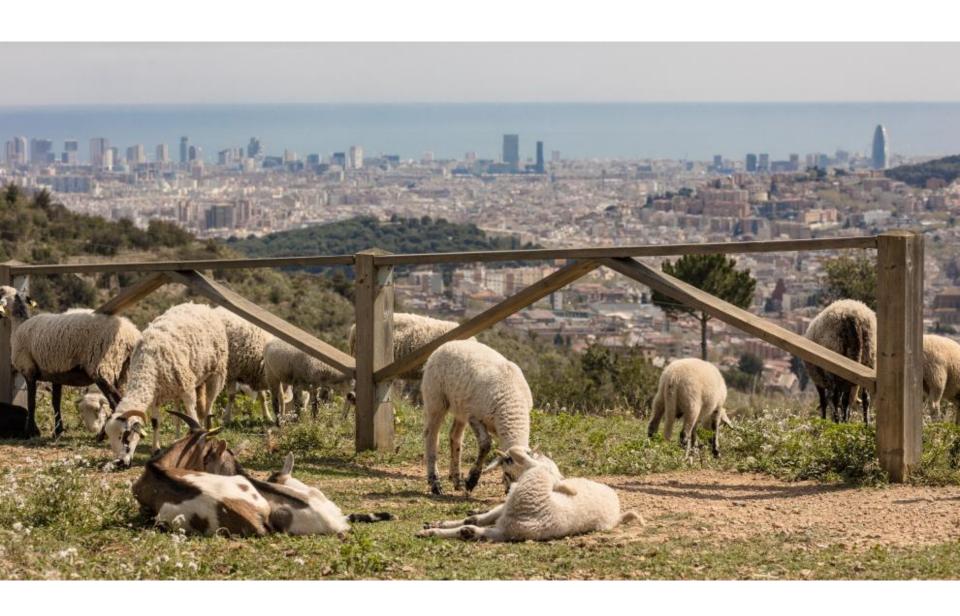
Mazarron II being monitored by the Ministry Technicians(Spain)





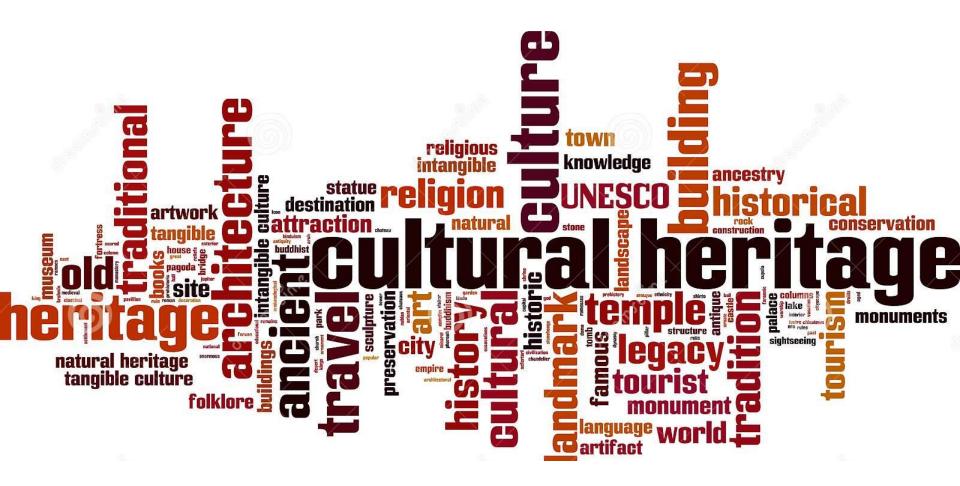
National Museum of Underwater Heritage (ARQUA) and Mazarron I Phoecian shipwreck (Spain)







Sheeps in Madrid for preventing fires



The Green Paper on the Sustainable Management of Cultural Heritage





Environmental Sustainability: The challenge of making cultural heritage liveable



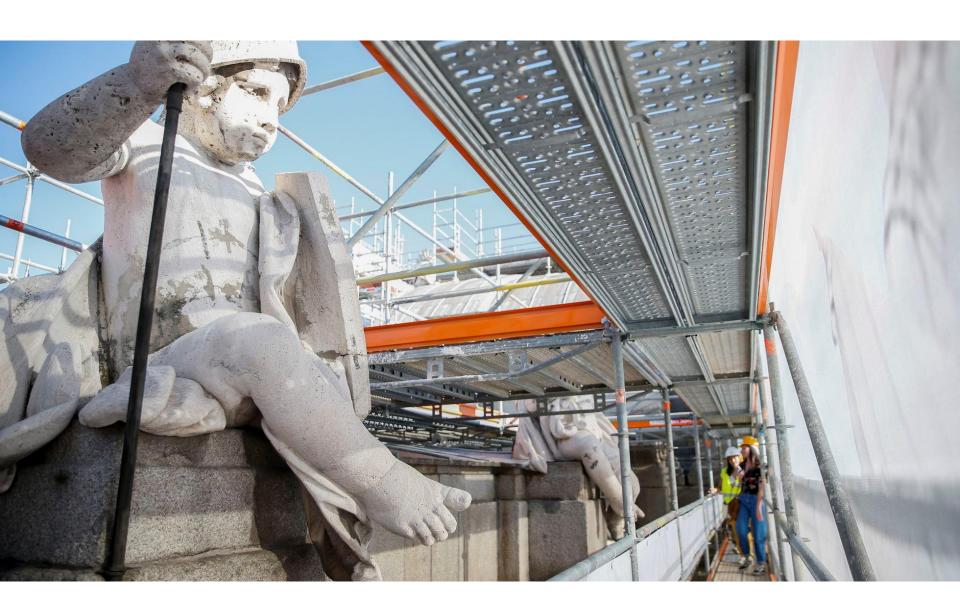
Economical Sustainability: Management of massive cultural tourism



Social Sustainability: Citizen governance and the engagement of the local communities



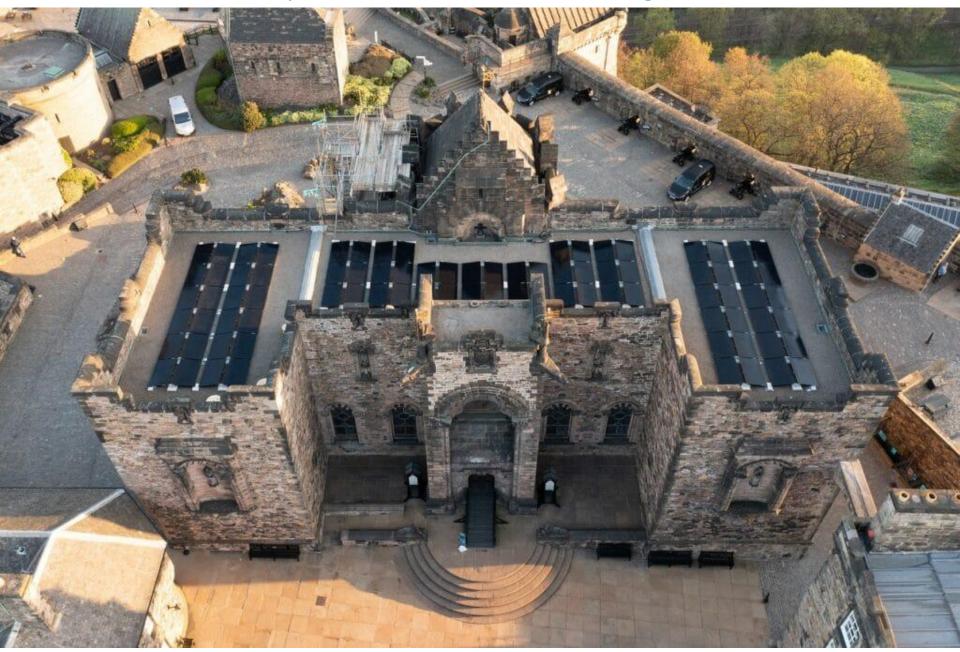
Social Sustainability: Intangible heritage as a resource of social cohesion and identity



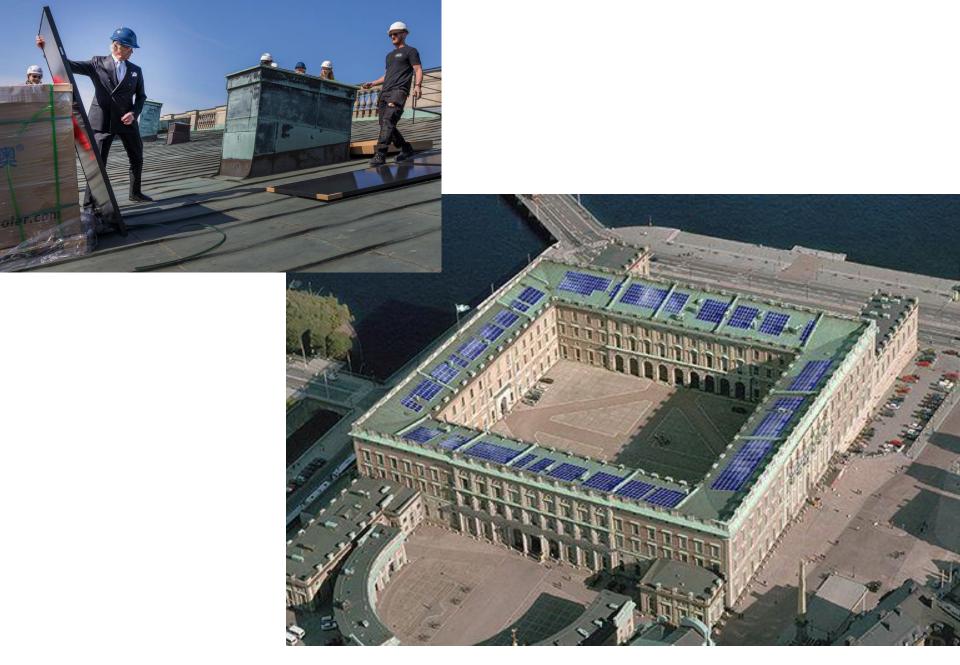




Protocol for the Implementation of Renewable Energies in Cultural Assets



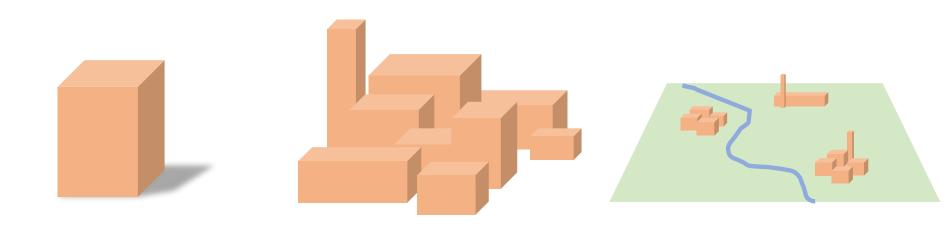
National castle of Scotland with solar panels (Great Britain)



The King of Sweden helping to place solar panels on the roof of the Royal Palace of Stockholm (Sweden)



Methodological approach



Buildings Urban sets Territory



Solar panels on the roof of auxiliary and contemporary buildings near a Listed Castle (Spain)



Solar panels on a flat roof with parapets (Spain)



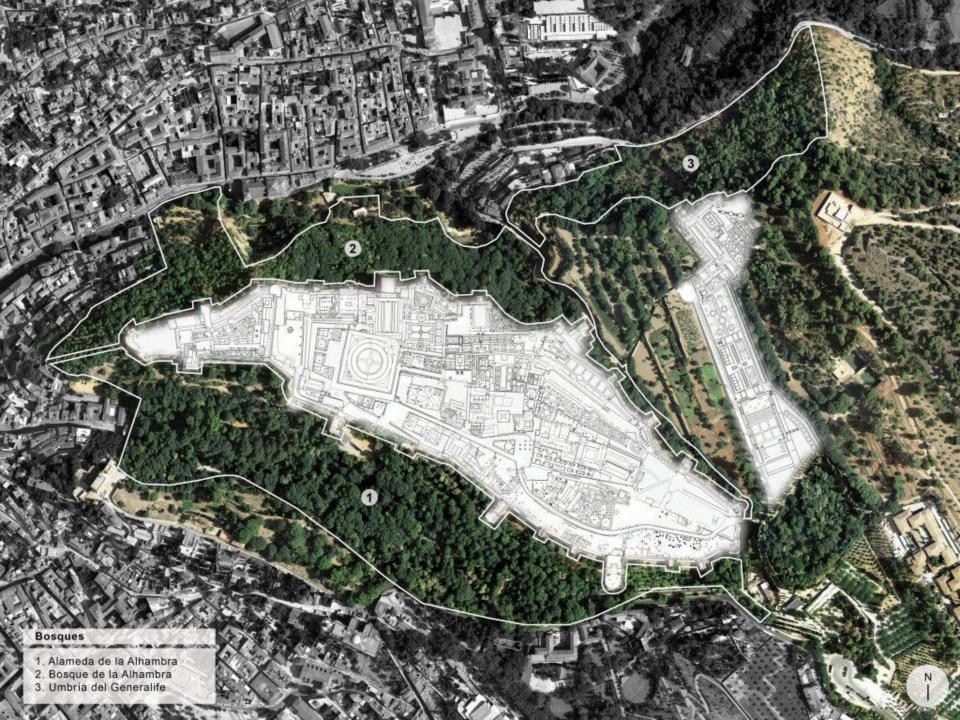


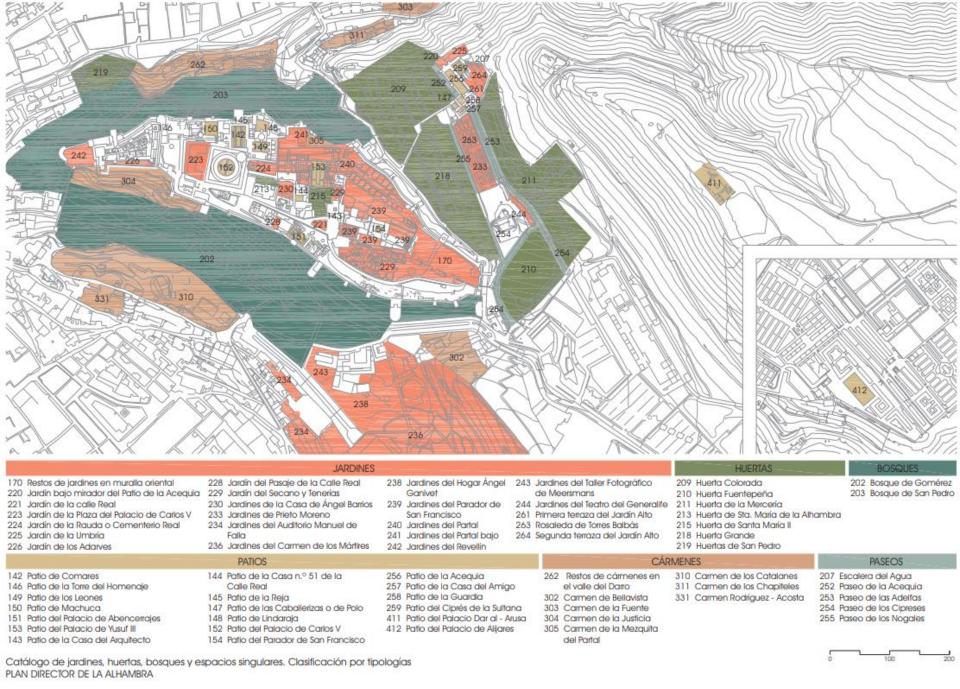


Guidelines for the implementation of green energies in cultural assets: a question of balance

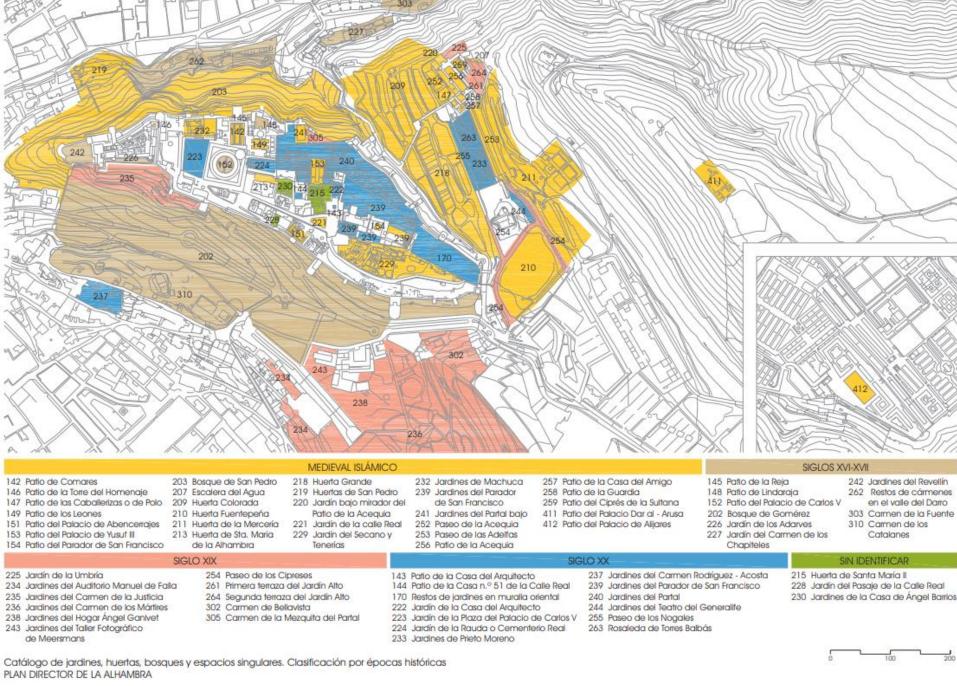
Greek Initiative (EU MED 9): Alhambra as a pilot study project







Tipology of the green areas of La Alhambra (Alhambra Director Plan)







Generalife Palace (Granada, Spain)



Fountain at the Mirtles Court , XIII th century (Granada, Spain)



Pool of El Partal palace (Granada, Spain)





The Royal Canal (nasrid period, Granada, Spain)

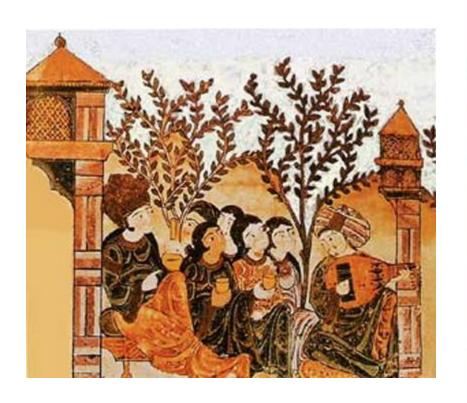




Sheep for preventig fires at Generalife pasture (Granada, Spain)



Generalife orchards (Granada, Spain)





Agricultural Treatise of Ibn Luyun (XIII th Century)

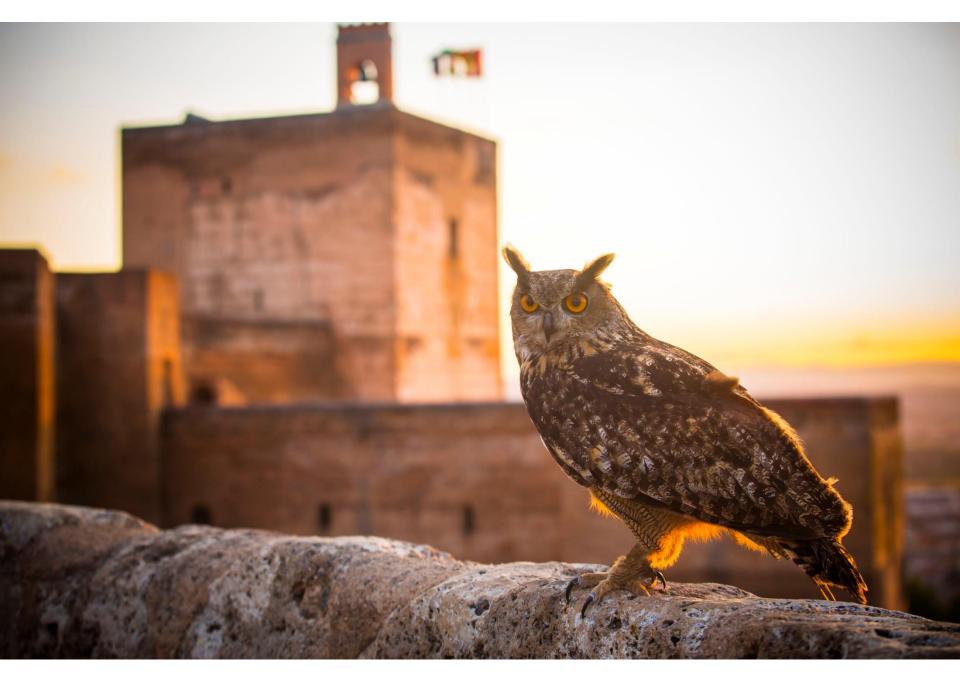




Quince in the Generalife orchards (Granada, Spain)



Vineyards in the Generalife orchards (Granada, Spain)



Alhambra as a Cultural Landscape

QR for downloading the Green Paper on the Sustainable Management of Cultural Heritage:



THANK YOU SO MUCH!

antonio.antequera@cultura.gob.es







