Agrarian heritage and participatory approaches. Historical irrigation systems



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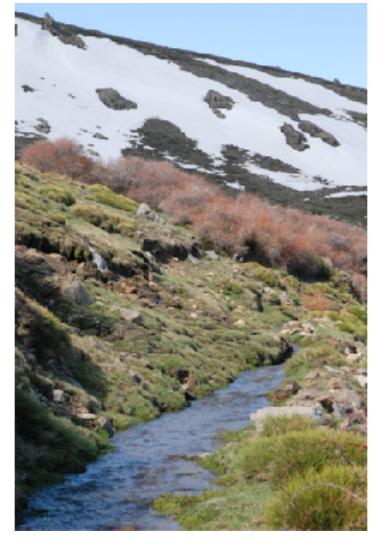
MEditerranean MOuntainous LAndscapes

an historical approach to cultural heritage based on traditional agrosystems

José María Martín Civantos Project Coordinator











Community-led traditional cultural landscape management

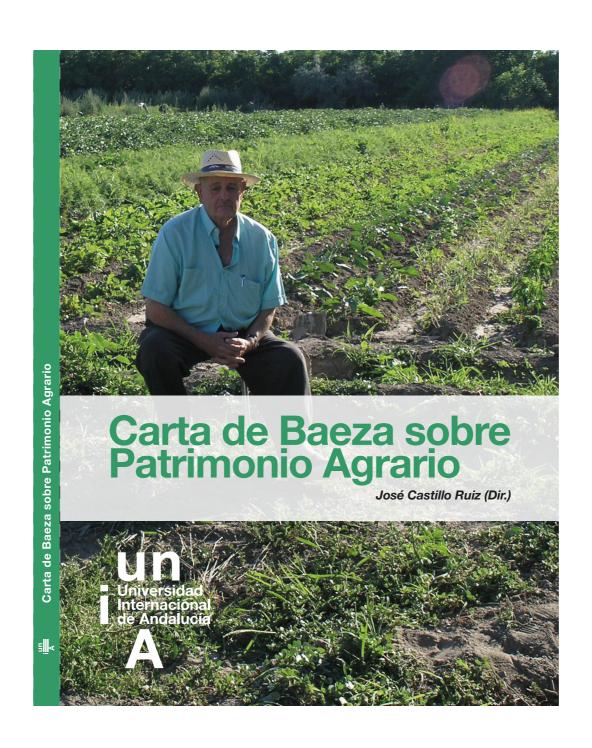


Beyond objects...



Beyond sites...

Rural heritage Agrarian heritage



Practices



Knowledge



Landscapes



Sustainability



Flavours



Historical and traditional irrigation systems



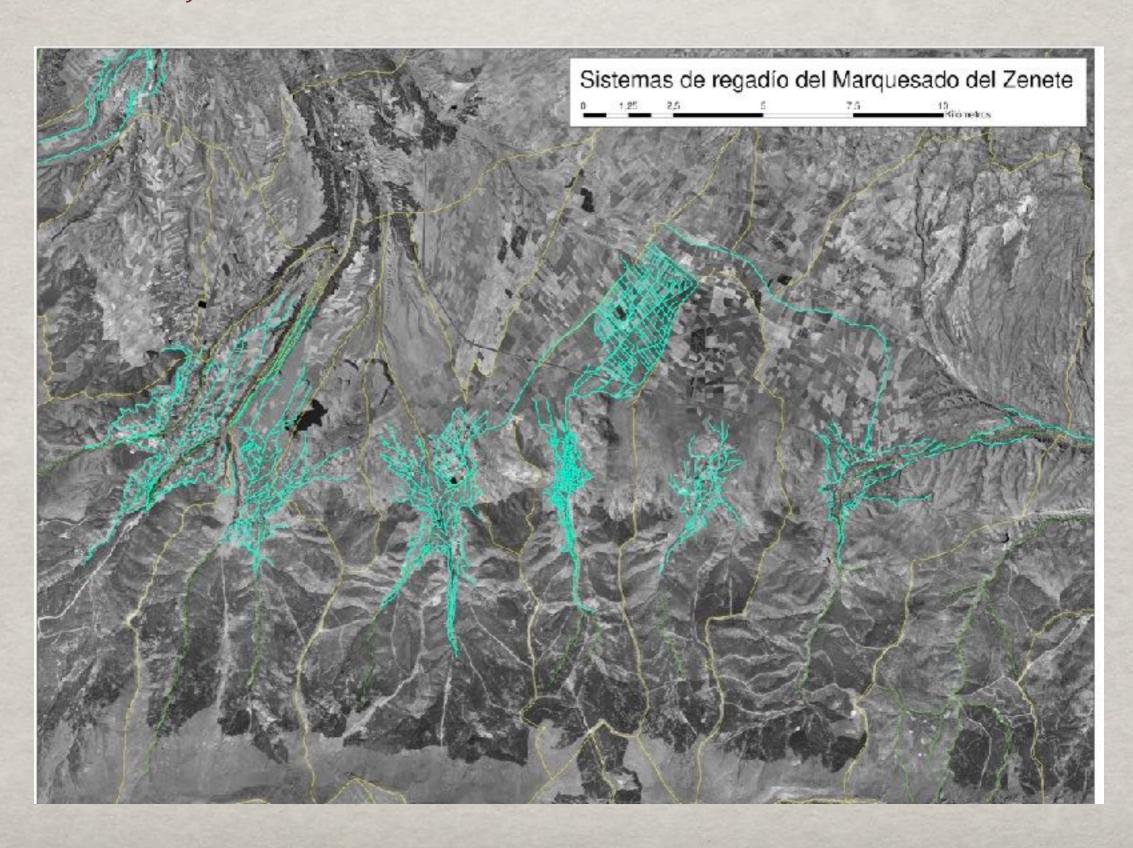




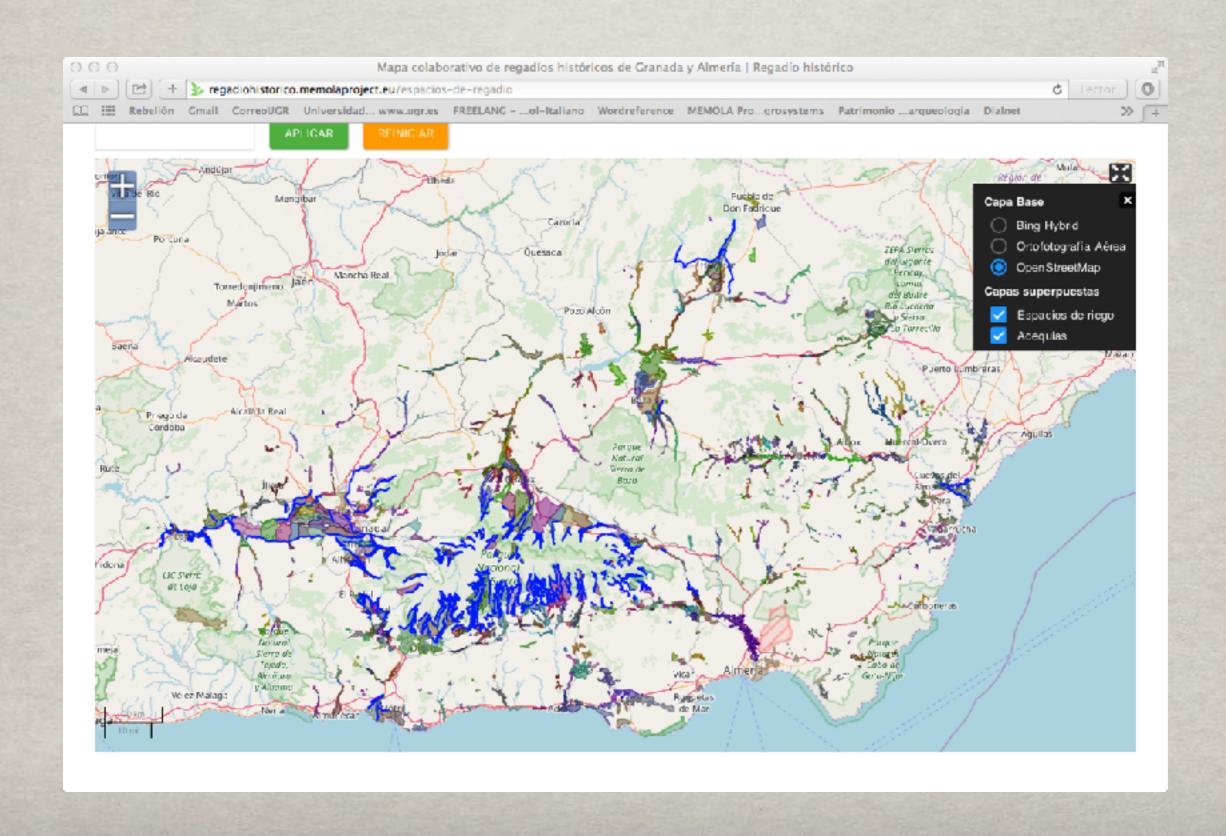
Ferreira irrigation system

118 km channels/canals62 Ha intensive irrigation139 Ha occasional irrigation

More than 3000 kms of channels mapped, just in Sierra Nevada Mountains!



830 irrigation systems, 530 communities, 24000 kms of canals, just in Granada and Almeria provinces!





What is this useful for?

Heritage as a social tool



Channel restoration and maintenance



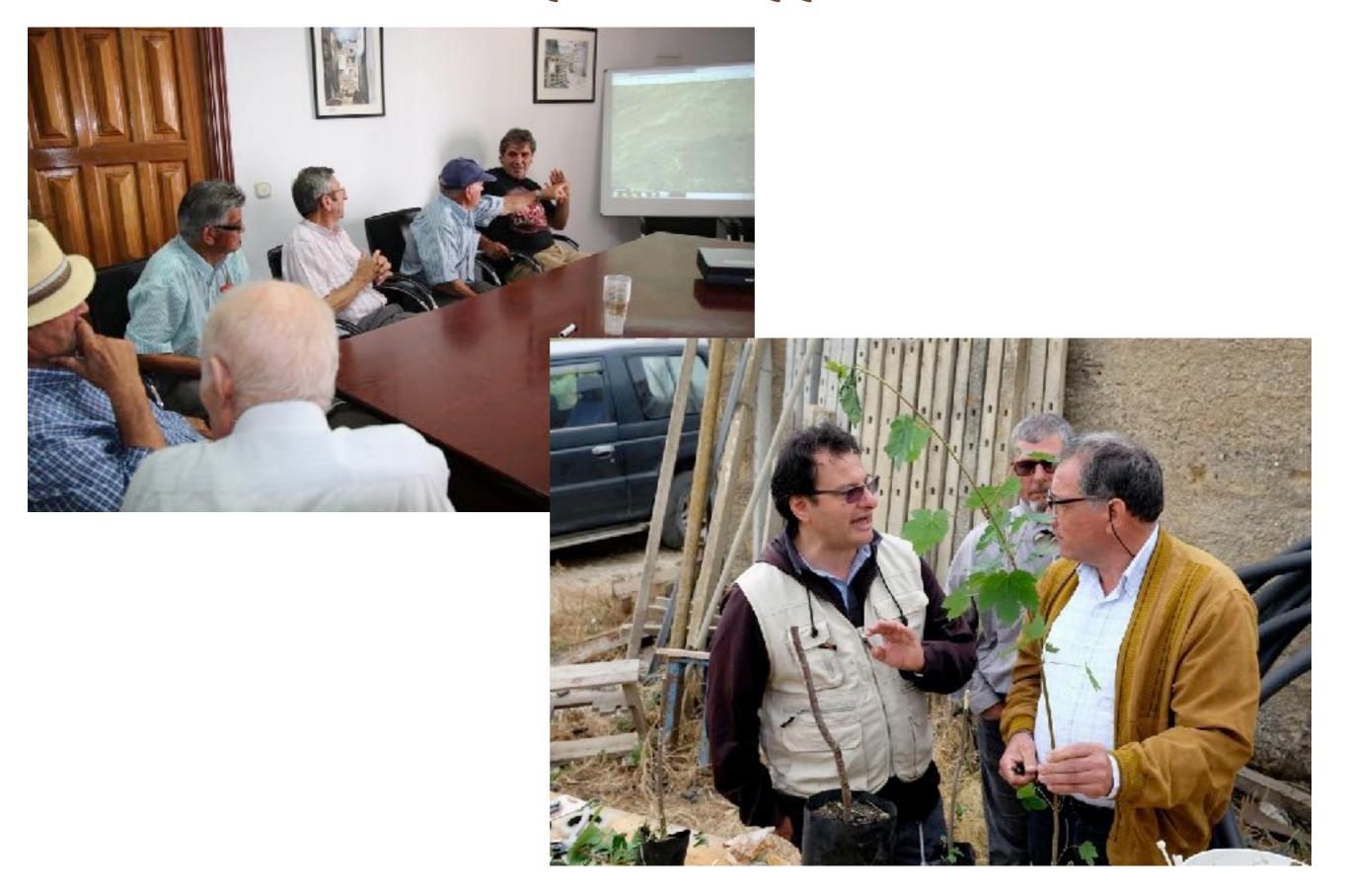








Participatory approach



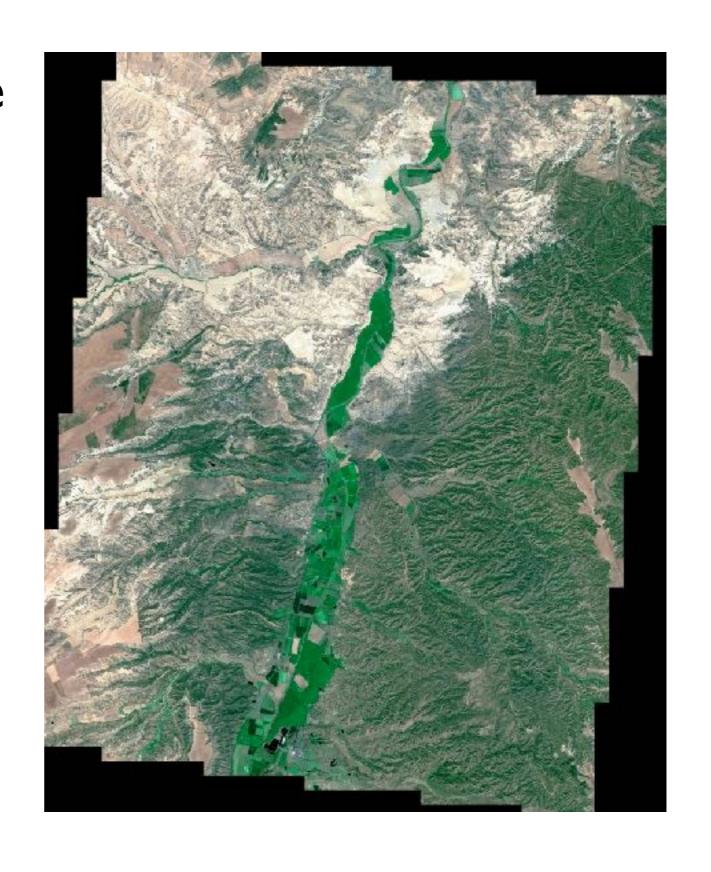
Involving.....

Rural areas Rural communities Cultural landscapes Agrarian activities Tangible heritage Intangible heritage Territorial planning Agrarian policies Environmental policies Global change Climate change Cultural challenges urban/urbanization



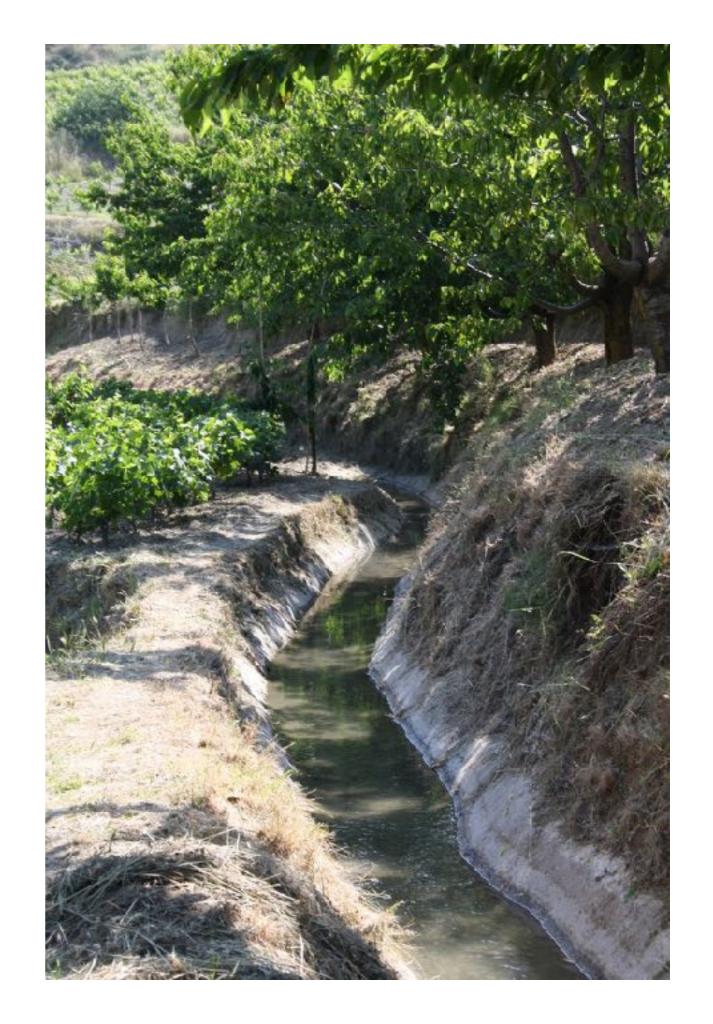
Involving.....

Local ecological knowledge Dialogue of knowledge Elder population Gender role Agrodiversity **Biodiversity** Ecosystem services Governance Land Stewarship **Production Productivity** Economic development Resilience



Involving.....

Water policies & water planning Mediation & **Environmental Mediation** Building restoring comunity & identity Inter & Transdisciplinarity **Epistemology** Role of humanities **Participation** Public/communal/private relationships



CITIZIENSHIP

Young, 2000; Yuval-Davis, 2006

BELONGING

PARTICIPATION



RIGHTS









Schools



Municipalities

Regional level



Associations



Regional governments

European level



Policy brief



International meetings

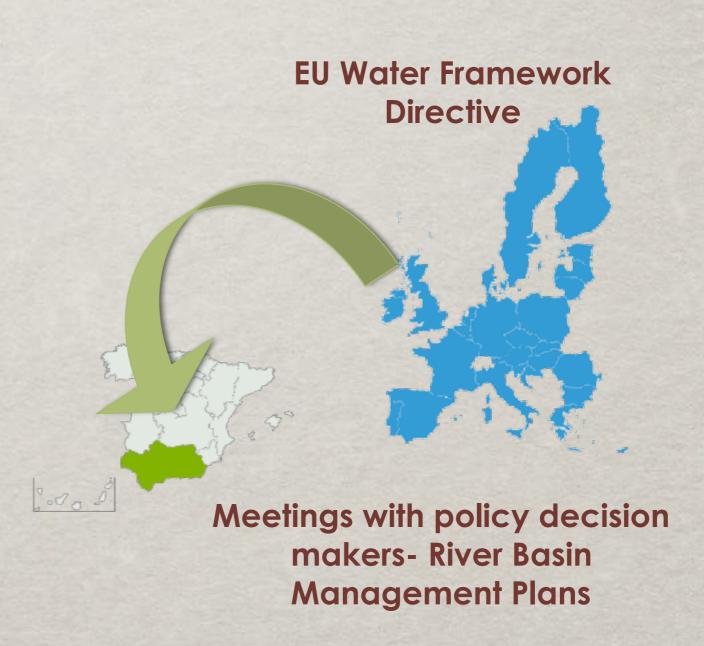


Academia

From local level to global context



Historical and Traditional irrigators Communities
Association of Andalucía





POLICYBRIEF



THE IMPACT OF EUROPEAN WATER POLICY ON THE WATER CULTURAL HERITAGE

This policy brief summaraes the findings of the MEMCLA project with regard to the impact of European water policy on the water cultural heritage associated with historical irrigation systems. The brief also presents suggestions for policy intervertions in order to establish the mechanisms and criteria for the delimitation of their values and for their protection.

June 2015

Abbreviations: Historical Irrigation Systems (HIS); EU Water Framework Directive (WFD); River Basin Management Plans (R9MPs).

INTRODUCTION

Historical irrigation systems as cultural and environmental heritage

Since antiquity, irrigated agriculture has had a significant impact on ecceystems in the Mediterranean basin, where water resources are limited and irregular in time. Furthermore, the 'historical irrigation systems' (HIS) have played a particular role in the ecological history of landscape, not only in southern Europe, but also in very different environmental regions across Europe'. The HIS should be understood as complex land and water management systems, which use the water gravitational potential through distribution networks with simple structures, operated on a small scale and managed by local farmer communities. They work as a socio-ecological constructs which have been able to survive during centuries, thanks to a relevant resilience capacity and a sustainable use of the natural resources. These systems, which are still operational in many places, are agroecological systems of great socio-economic, environmental and cultural interest. They have generated peculiar cultural landscapes as a result of centuries of sustainable interactions between people and nature. The water cultural heritage associated with these systems relates not only to the technology, items and architecture developed, but also to practices, based on traditional environmental knowledge, which have generated ntangible heritage values.

Beyond the intrinsic values held by the HIS, important ecosystem services are also provided by these systems, especially by those which are located in mountain areas. Among these services, it

EUROPEAN

POLICYBRIEF

SOIL AS ENVIRONMENTAL AND CULTURAL HERITAGE AND THE IMPORTANCE OF SOIL PROTECTION.



This policy brief summarises recently developed perspectives on soils that have emerged from the findings of the **MEMOLA project**. The critical environmental dependency of soils is well-established yet to date soils have been undervalued and poorly recognised as cultural materials. MEMOLA has demonstrated that soils are an extensive cultural resource and form part of Europe's rich cultural heritage. This brief stresses the need for a comprehensive European policy for soil protection and management that recognises the complex nature of soil and seeks to promote an awareness of soils as having a dual inheritance that stems from both cultural and natural processes.

The Italian Soil Science Society (SISS) and the European Society for Soil Conservation (ESSC) collaborated in writing this policy brief and is supported by the UK Soil Association.

December 2016

INTRODUCTION

Soil-a vital resource

Soils support life in all its forms by playing a key role in all major earth cycles (Carbon, Nitrogen, Oxygen, Phosphorus, Sulphur and Water and Rock). Simply stated, it is Earth's life support system. Soils are not simply substrates composed on minerals and chemicals though. They are a living medium that is home to a myriad of microorganisms, fungi, animals and plants that are bound in system of co-dependency. Many soil deposits have developed over centuries and millennia and under highly specific local conditions which has in turn produced diverse soil ecosystems that are specific to particular regions.

Human impact on soil systems has increased with the gradual intensification of agriculture since the start of the Holocene (~10,000BP). Soils have not only been used and modified to support the shift to agriculture, but also as resources for building (adobe, piso and cob), material culture (clays for ceramics, pigments, mordants), and even as medicines (poultices, skin protection and more recently alternatives to antibiotics and existing immune suppressants –i.e Rapamycin). The long-established historic relationships that traditional communities have established with their environments has furnished us with a rich soil diversity that is the result of the complex interplay of specific regional environmental factors and culturally specific soil and land management strategies. MEMOLA has worked intensively to document the extent and character of this

telbundgut, C., Kohe, I. 2014. Europeas traditional irrigation in transition. Part I: Irrigation in times past—a historic land use practice across Surepe. Irrig, and Drain, 63: 273—393.

European Commission

Critical, reflective action. Political, legislative and administrative proposals

BOLETÍN OFICIAL DEL PARLAMENTO DE ANDALUCÍA

Núm. 415 X LEGISLATURA 3 de marzo de 2017

IMPULSO DE LA ACCIÓN DEL GOBIERNO

PROPOSICIÓN NO DE LEY EN COMISIÓN

10-16/PNLC-000136, Proposición no de ley relativa al apoyo a las acequias históricas de Andalucía

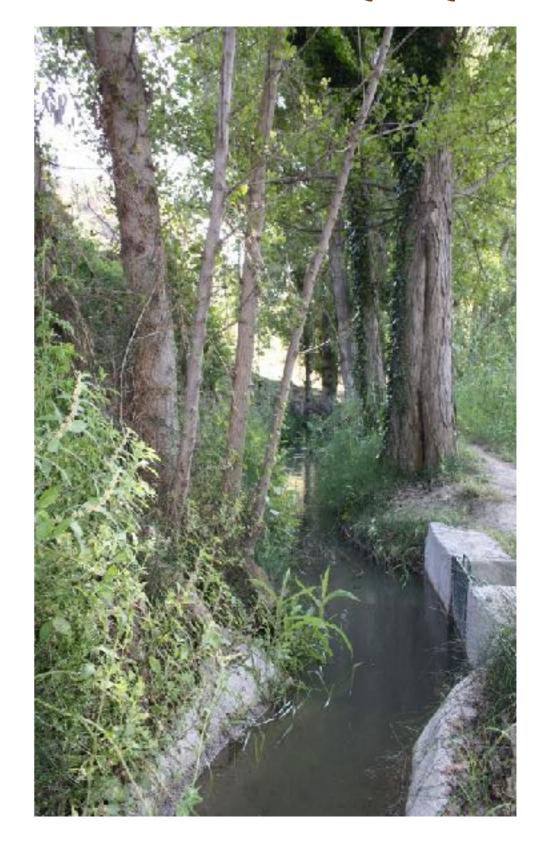
Aprobada por la Comisión de Medio Ambiente y Ordenación del Territorio en sesión celebrada el 7 de febrero de 2017

Orden de publicación de 20 de febrero de 2017

PROPOSICIÓN NO DE LEY RELATIVA AL APOYO A LAS ACEQUIAS HISTÓRICAS DE ANDALUCÍA

El Parlamento de Andalucía insta al Consejo de Gobierno a:

- 1. El reconocimiento público de que las acequias históricas de Andalucía son un patrimonio agrario, cultural, histórico y ambiental que hay que conservar para las futuras generaciones.
- 2. Promover la acción consensuada entre las comunidades de regantes y las administraciones públicas, especialmente las corporaciones locales, que faciliten la conservación de la importante red de acequias históricas que existen en Andalucía.
- 3. La creación de un catálogo de acequias históricas e infraestructuras hidráulicas, que incluya a aljibes y albercas, y a que tome las medidas necesarias para la conservación de las infraestructuras de regadío tradicional que emanen del mismo catálogo.



Digital participative tools



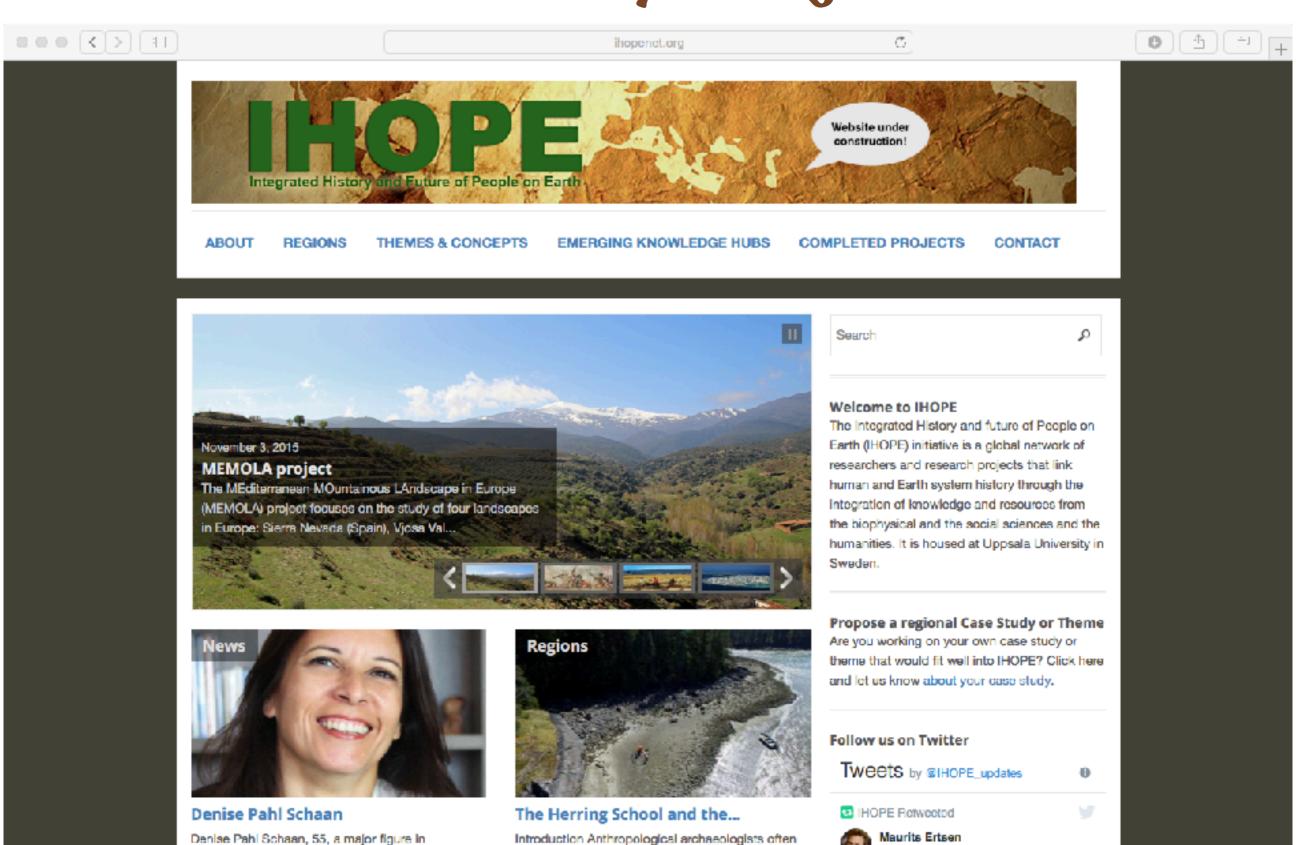
Mapa colaborativo de regadíos históricos de Granada y Almería

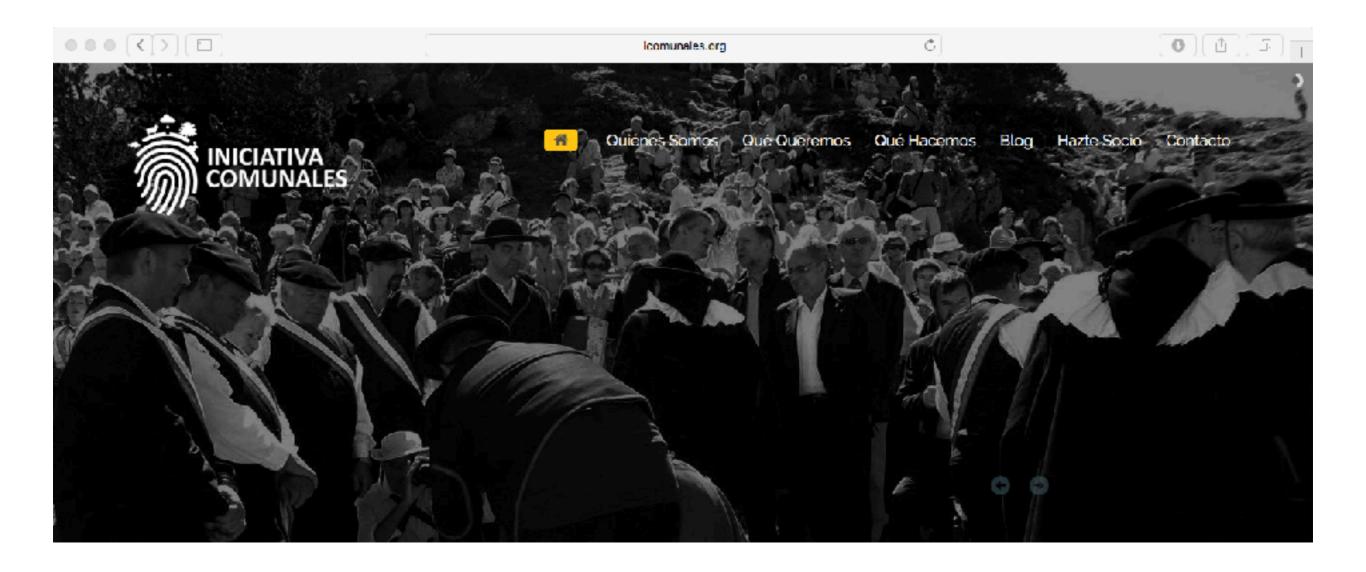


Los **sistemas históricos de regadío** constituyen un sistema agroecológico de interés socioeconómico, ambiental y cultural que han creado paisajes de gran belleza y que dotan (o han dotado) de identidad a los territorios donde se ubican.

El regadío es un paisaje realmente extraordinario, presente en una buena parte de nuestra tierra. Se trata de territorios modelados a lo largo de siglos de historia de coevolución entre el ser humano y la naturaleza. Sus valores, no solo patrimoniales, sino también

Connect local reality with global context

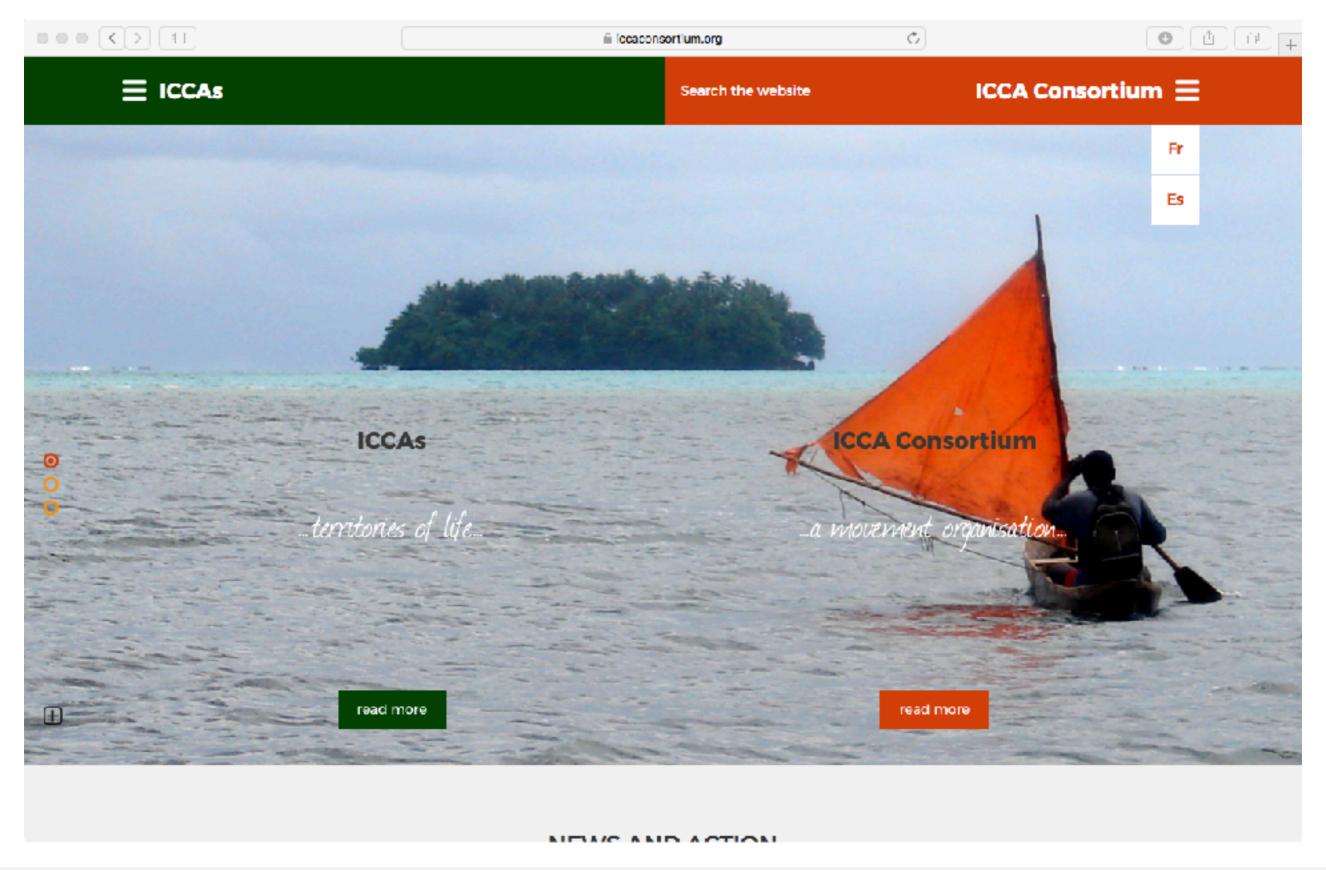




¿Qué es iComunales?

iComunales somos una asociación de ámbito estatal, formada por comunidades que gobiernan aguas, tierras, bienes y derechos de forma comunal. Otros miembros clave de la asociación son ONG, universidades, empresas y otras entidades, además de personas a título individual. Nuestro objetivo común es el apoyo y reconocimiento de estos sistemas comunales de gobernanza, con particular atención a promover sus valores sociales, ambientales y económicos





"territories and areas conserved by indigenous peoples and local communities" or "territories of life"

Rural archaeological sites analysis



... and social impact



Responsibility... long term action, strategy





www.reach-culture.eu



Gracias por la atención Thank you

https://www.facebook.com/ MEMOLabUGR/



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- You Tube /MEMOLAFP7PROJECT





