



SMART ECOMOUNTAINS

Governing the waters: recovering old irrigation channels with local actors for sustainable food systems

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We focus on the cultural, social and environmental (biocultural) values of traditional & historical irrigation systems, in Southern Spain and the Mediterranean:

- Scientific evidence
- Traditional ecological knowledge (TEK)
- Bottom-up approach (finding common goals with local communities)
- Volunteering campaigns (as a social intervention tool)
- Empowering local communities governance



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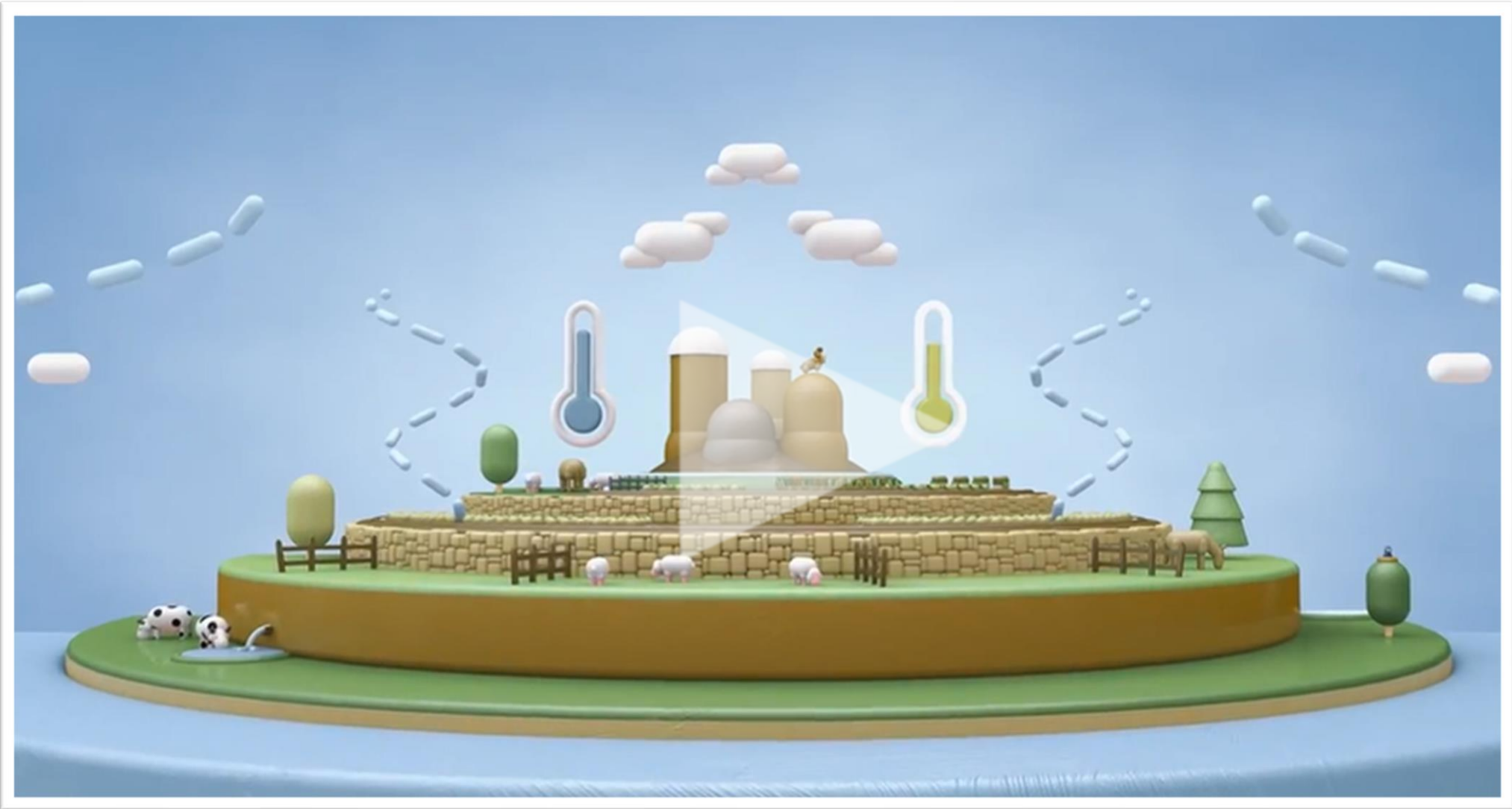
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Commons Governance in H&TIS

Why are traditional irrigation systems important?

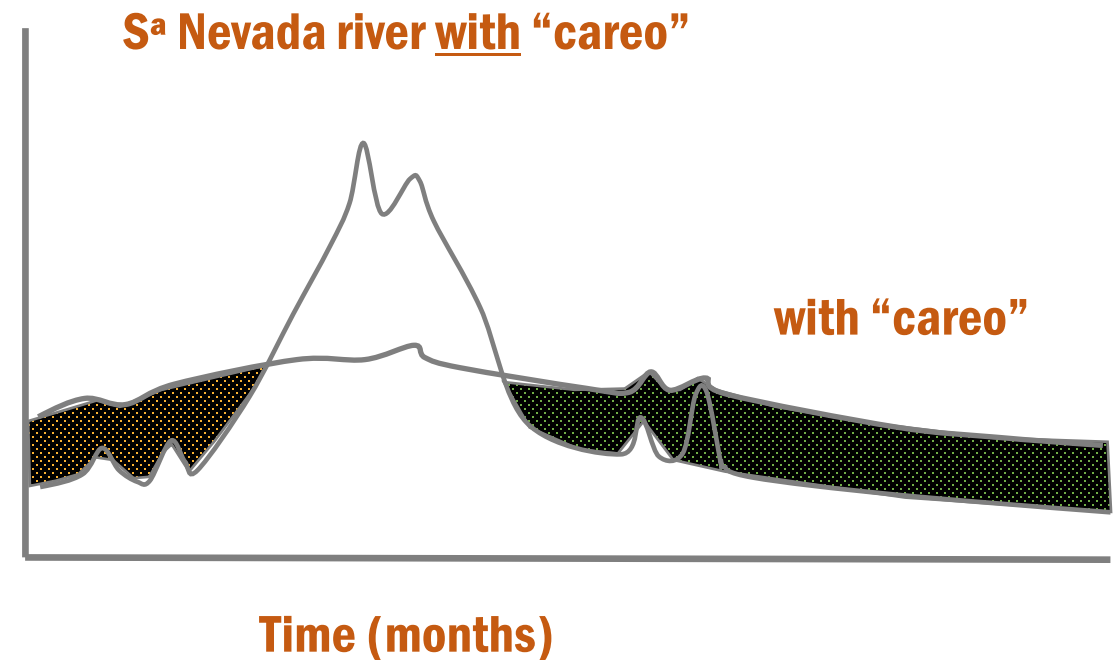
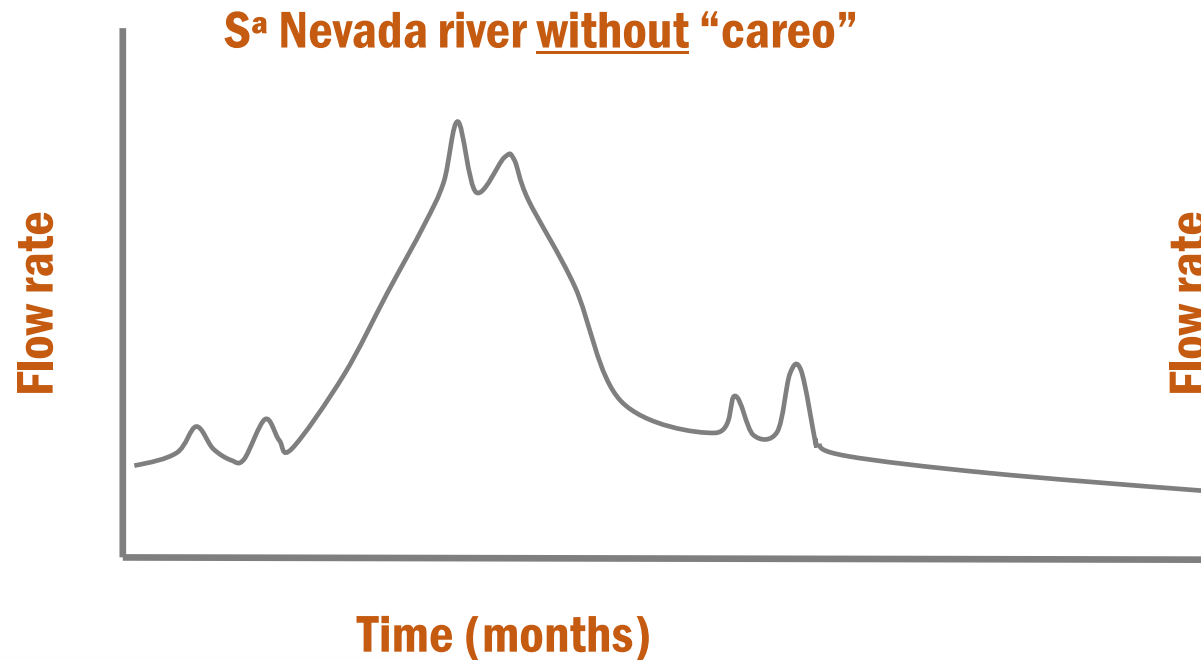


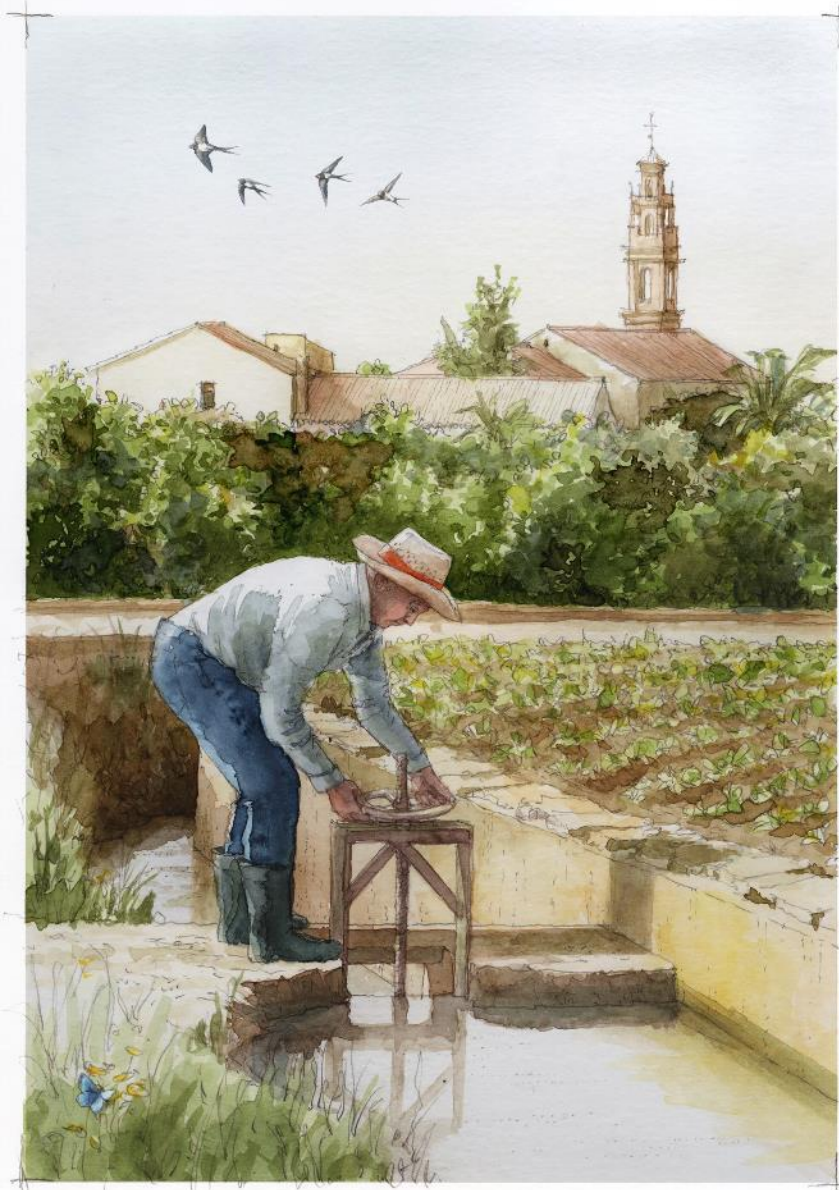
MEMOLab YouTube Video: <https://youtu.be/-IfiDn8TUCI>



In the hidrological basins studied, the “careo” irrigation channels duplicate the river Flow rate

- “Careo” irrigation channels recharge 70% of Sierra Nevada water supply





MANAGEMENT:

- Increasing water availability in ecosystems through the year (biodiversity, drinking and irrigation water)
- Climate change mitigation and adaptation (fix carbon, minimum CO₂ footprint, green infrastructure)
- Prevent and minimize natural disasters (wildfires, landslides, floods, etc.)

COMMON GOVERNANCE:

- Social justice, sustainability, democratizing management of natural resources
- Tool to fight corruption, land & water grabbing, out-of-the-market logic (inherent values vs market values)
- Food sovereignty

Governance is an essential part of H&TIS, and the values they provide. Empowering local communities on the basis of direct democracy institutions (common governance) is the key for sustainability and social justice, and democratize natural resources governance and management

- Local level institutional agreements (e.g. irrigation communities with municipalities)
- Stewardship agreements (University of Granada with irrigation communities)
- Participatory management Plans: one or several irrigation communities (e.g. at a higher scale, as a river basin)



- Between municipalities and Irrigation communities (8 agreements)



ESTRATEGIA	RECURSOS	FECHA
↑ PAREDS	↑ €	ANUAL
1€	↑URGT	11
1€	OTRAS	11
		2023
		ENERGIA 202
↑ PAREDS	↑ €	2023
		EN PAREN
		2023
	↑ €	2023
		2023



Danke!
¡Gracias!
Merci !
Thank you!



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