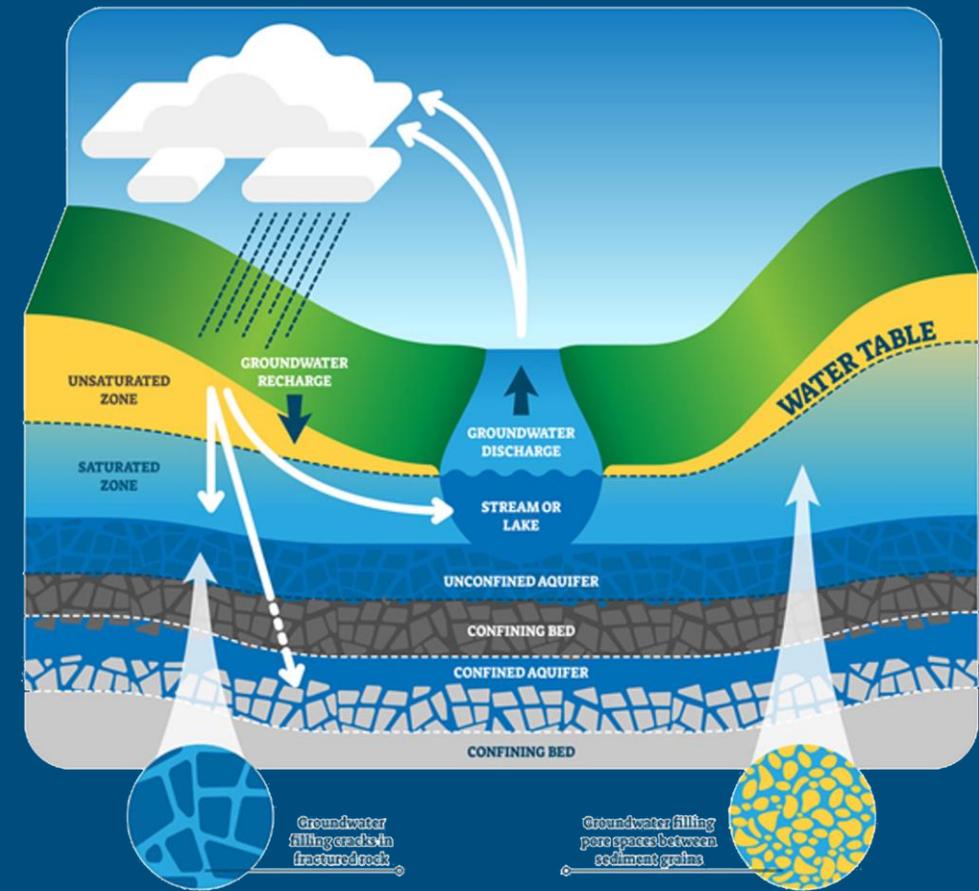


Governing groundwater: Achieving the SDGs through accelerating inclusion and participation

UNDP–SIWI Water Governance Facility, IWRA,
IW:LEARN, UNESCO, Government of Slovenia



Co-managed aquifer recharge in Spain

Enrique Fernández-Escalante TRAGSA

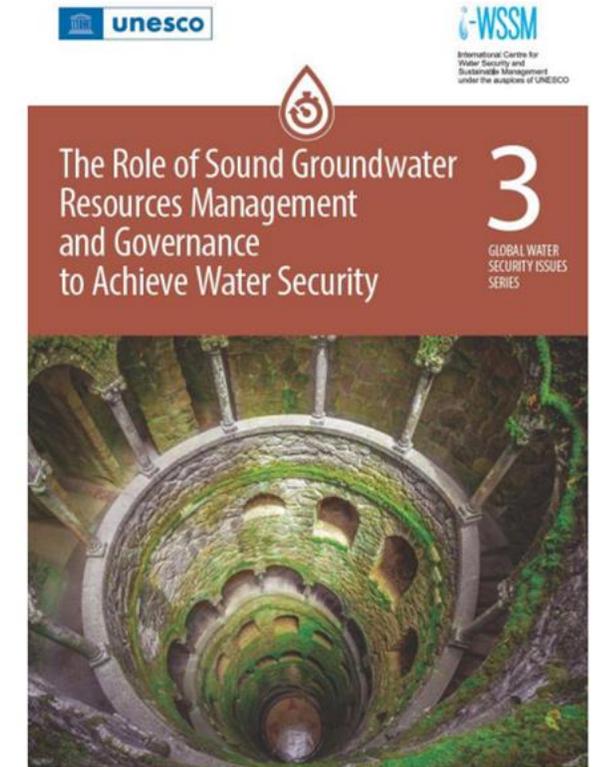
and

Elena López Gunn ICATALIST



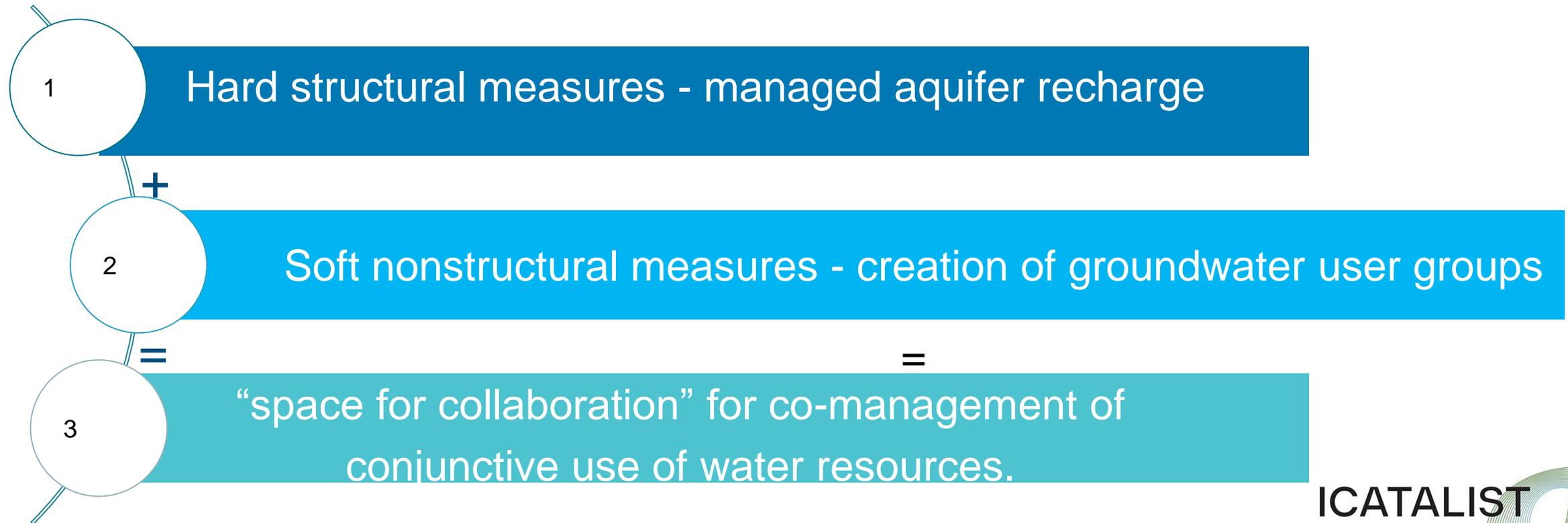
Main message: Co-managed aquifer recharge

- A “**space for collaboration**” is created based on trust on **the fair use of (ground)water resources**, with strong functional **organizational structures** that help take decisions with direct positive outcomes on improved groundwater quality and quantity.
- This space becomes the basis for **new governance arrangements** that are better suited and **more responsive** to the collective interest of all users.



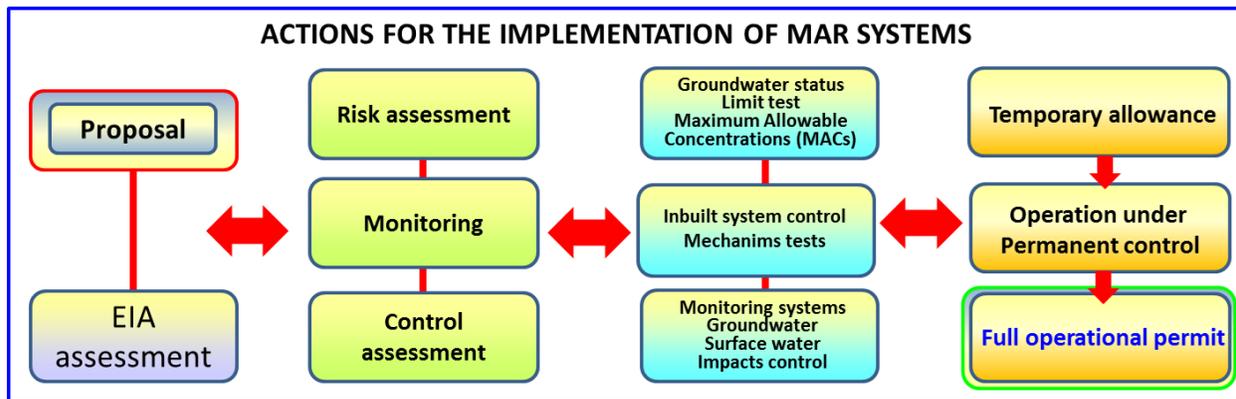
The Role of Sound Groundwater Resources Management and Governance to Achieve Water Security. I-WSSM-UNESCO.
The GWSI Series 3 is officially on the UNESCO Digital Library website. The 3rd volume includes cases from more than 10 countries. 280 pg, 2021. ISBN: 978-92-3-100468-1
The first chapter defines the Co-Managed Aquifer Recharge concept (Co-MAR) and exposes a good Spanish example in which stakeholders intervene in IWRM in close cooperation with water authorities and «stakeholders».

Summary



Hardware and Software

MAR + **CUAS**
 (managed aquifer recharge) (groundwater user groups)



Hard Infrastructure process

Soft Infrastructure process

ICATALIST

Shared Value
Innovation



Case study location – comanaged MAR

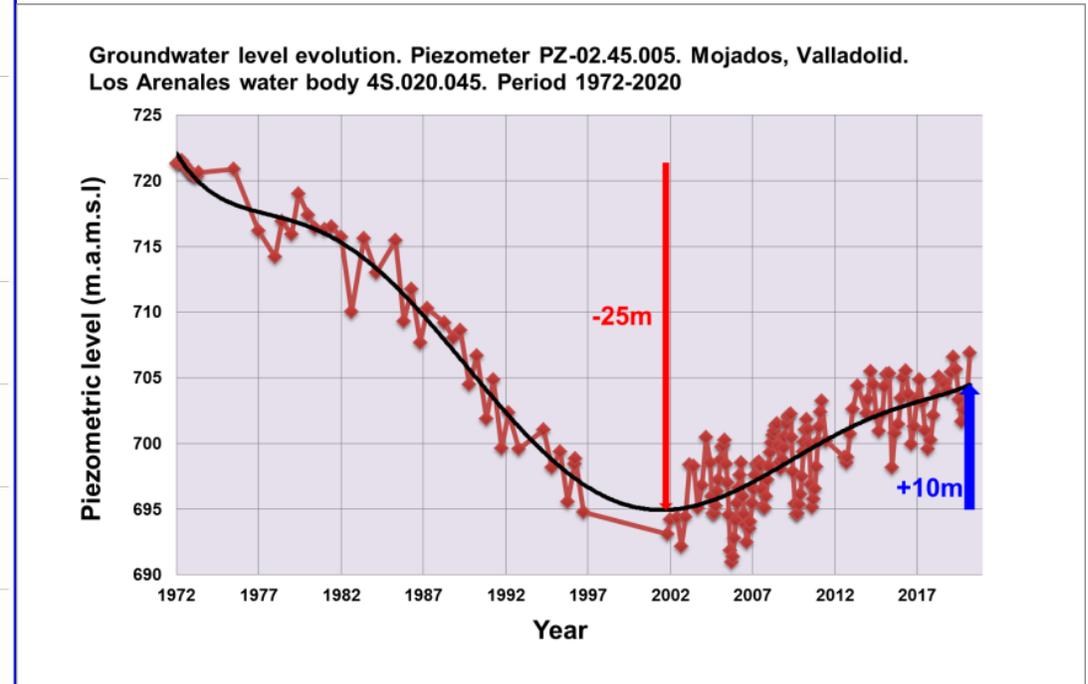
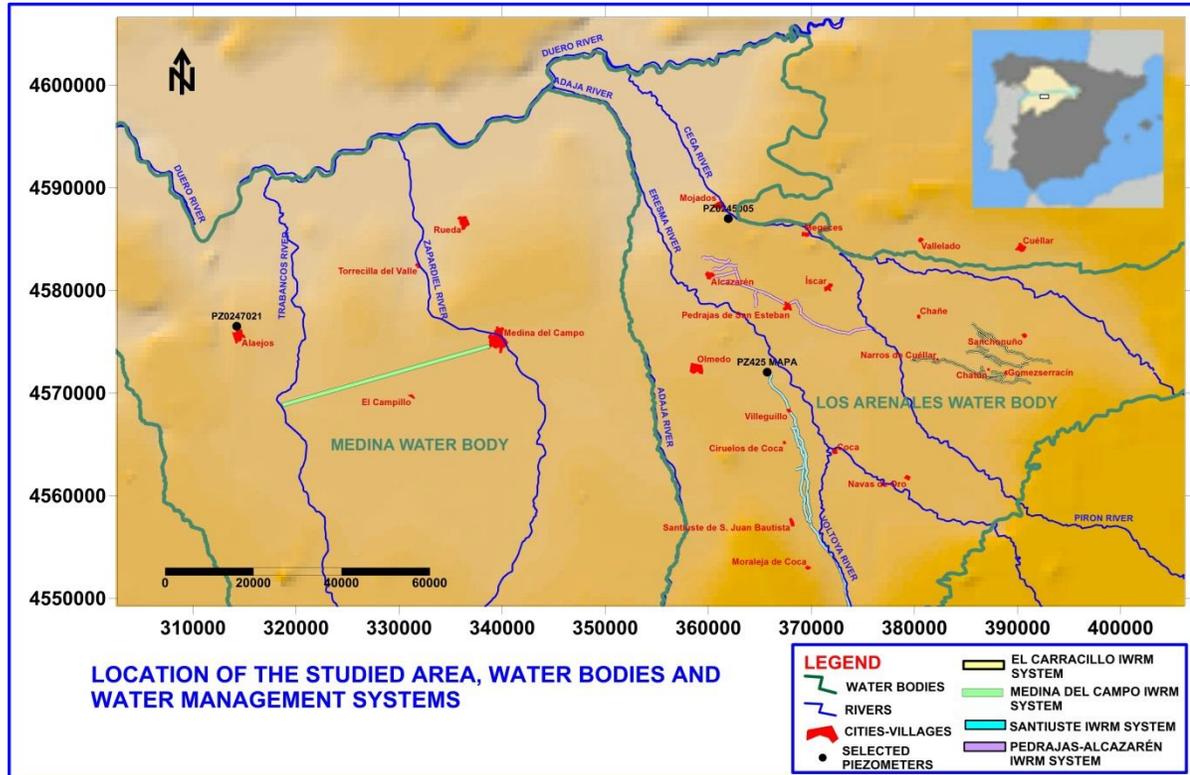


Figure. Piezometric evolution of Los Arenales water body (1975-2020)
 (source: authors 'own based on open data publicly available from: chduero.es, 2020)

Example El Carracillo, Medina del Campo, Cubeta de Santiuste de San Juan Bautista and Alcazarén, and the experiences and socio-technical changes from the introduction of Managed Aquifer Recharge (MAR)

provide between 22 and 25% of the total amount of water used for irrigation in the area.



Thank you! Gracias!

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