

INTERNATIONAL ASSOCIATION IRRIGANTS d'EUROPE





The largest associations managing water in agriculture have created **IRRIGANTS d'EUROPE**. Founders include the national associations in charge of irrigation water management of the Member States where irrigation is most relevant:



ANBI - Associazione Nazionale Consorzi di Gestione e Tutela del Territorio e Acque Irrigue (IT)



FENACORE - Federacion Nacional de Comunidades de Regantes (ES)

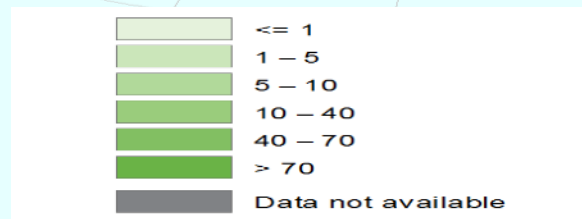


Irrigants de France (FR)

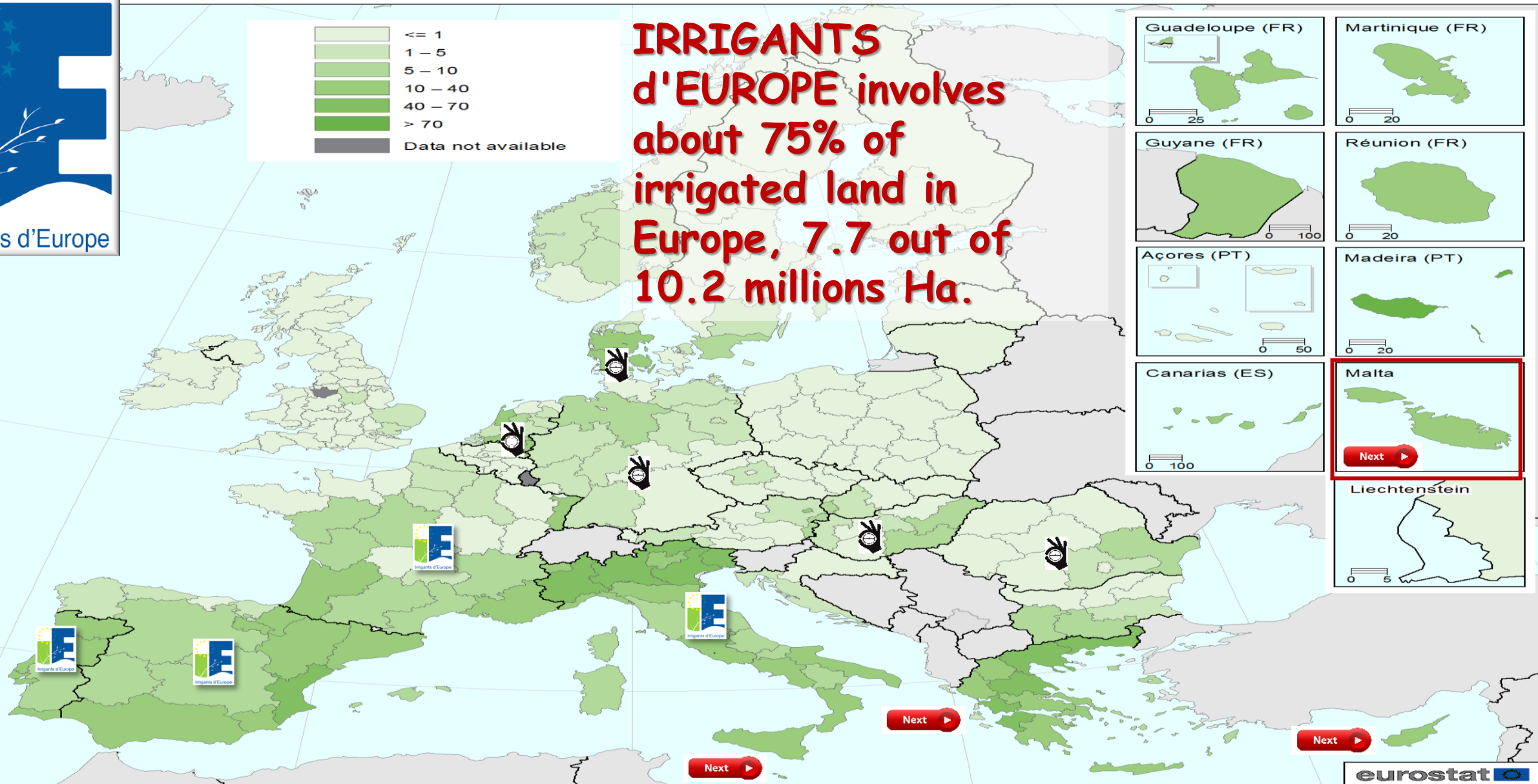
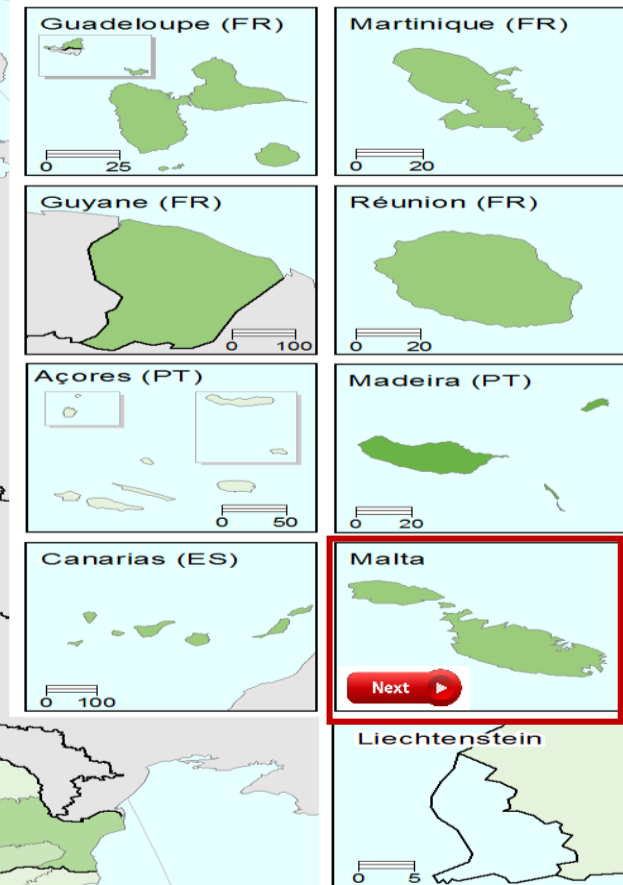


FENAREG - Federaçao Nacional de Regantes de Portugal (PT).





**IRRIGANTS
d'EUROPE** involves
about 75% of
irrigated land in
Europe, 7.7 out of
10.2 millions Ha.





- Irrigated agriculture has **great potential** in terms of production of public goods, it is supported by **excellent technical capabilities**, and still counts on **untapped resources**.
- Irrigation and water management are the **keys to sustainable agriculture**, responding to the challenges of climate change and food security.
- Water use **is now more sustainable**: investments were made to support environmentally friendly growth in the sector, which is now among the most advanced and innovative in the agricultural sector and beyond.
- Rather than being a societal cost, water use in irrigated agriculture is a **key driver for economic growth in rural environments** and a corner stone for the implementation of precision agriculture
- **Investments in new technologies can only be borne by crops with sufficiently stable economic return**, which are for the most part irrigated.





IRRIGANTS d'EUROPE has been established to **bring together the irrigated agriculture sector at European level, restoring legitimacy to the proper use of water resources in modern agriculture.**

- **IRRIGANTS d'EUROPE** is giving a single voice to irrigated agriculture before the European Institutions.
- **IRRIGANTS d'EUROPE** is participating in the governance of processes related to the use of water in agriculture, at all levels, starting from the European level.





- **Collaborating with professional agricultural organisations** of the member States, coordinating the priorities of the irrigated agriculture sector;
- **Developing activities to promote and represent the agricultural irrigation and water management sectors** at the European and international levels;
- **Promoting and undertaking cooperation** between the European bodies in charge of water management in agriculture;
- **Collating and providing relevant information** to its members and to the European Institutions;
- **Collaborating with universities and research institutions** on research and innovation processes;
- **Promoting activities underlining the benefits and positive externalities** of agricultural irrigation for the European society and environment;
- **Encouraging and enabling communication at all levels** about the importance of irrigated agriculture;
- **Performing additional actions leading to the active and effective participation** of European irrigation institutions in the policy and technical debate.





MORE IRRIGATED LAND MORE WATER USE ??

	2005 Before Modernization	2014 After Modernization	
Irrigated Land (million Ha)	3.3	3.6	+ 0.3
Total Water Use (hm ³ /y)	16500	15129	-1371
Water Use (m ³ /ha)	5500	4600	-900

Gutierrez-Martin, C., Montilla-Lopez, N., 2018. University of Cordoba, WEARE.

+ 9% IRRIGATED LAND - 6,8% WATER USE

MODERNIZATION OF IRRIGATION SYSTEMS: IMPACT ON WATER USES

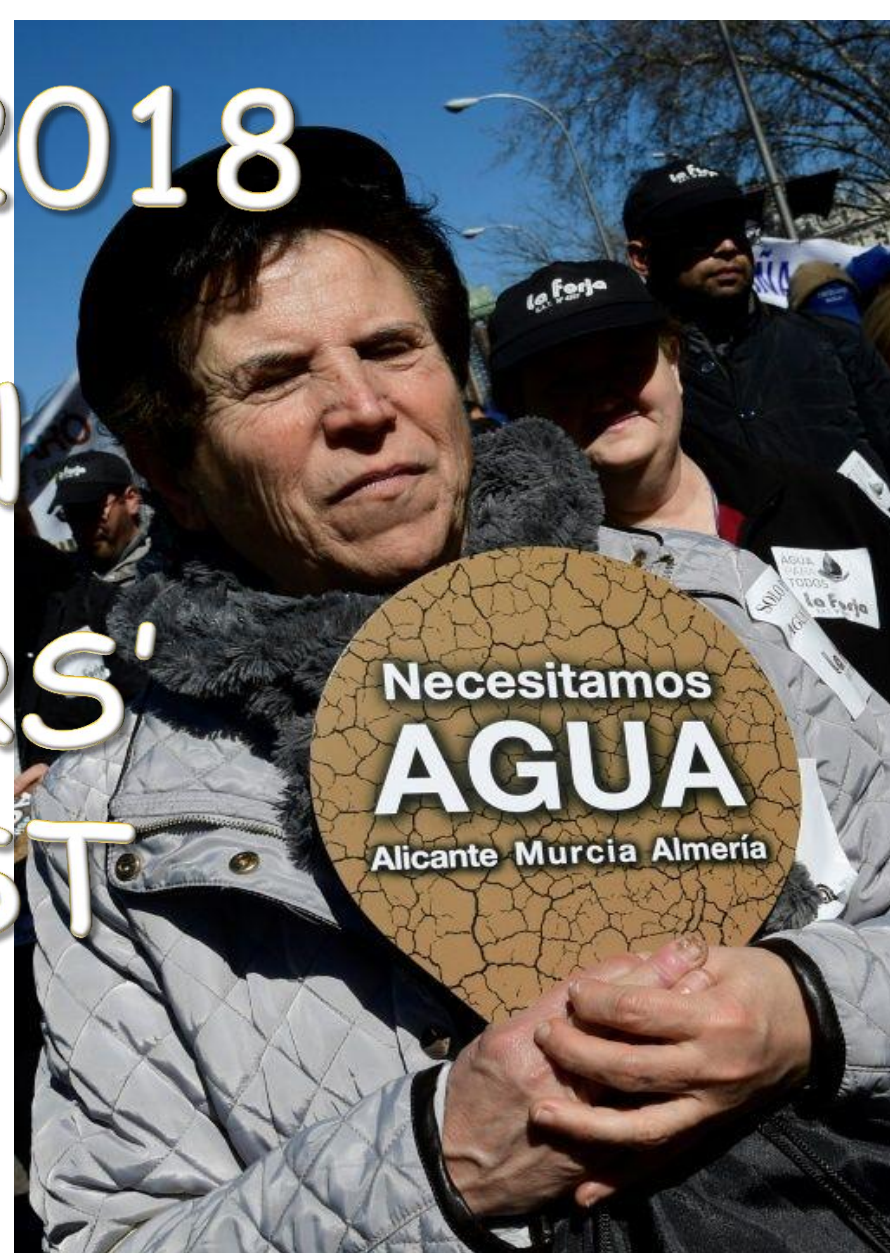
Comunidades Regantes (ES) -22,14% WWF-ES Report 2015 + 17.57%



EUROPE 2018

SPAIN

FARMERS' PROTEST





Power Consumption/Generation (IT 2017)	MWh	+ CO ₂
Drainage & Irrigation	608.900	304.400
Hydropower & Photovoltaic	-497.000	-248.500
Modernization	-30.000	-15.000
Water savings at farm level	-64.500	-32.250
Net Power Consumption/CO ₂ Emission	17.4	8.69

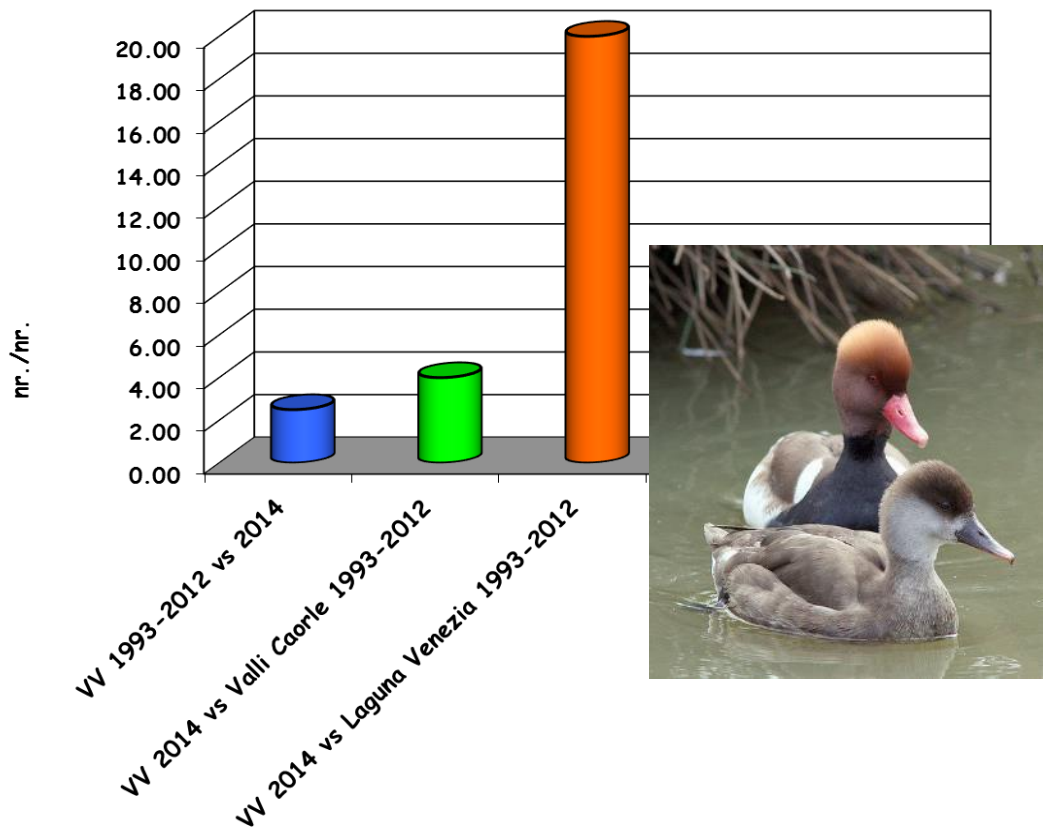
Mannini, P., MACFRUT 10 May 2018



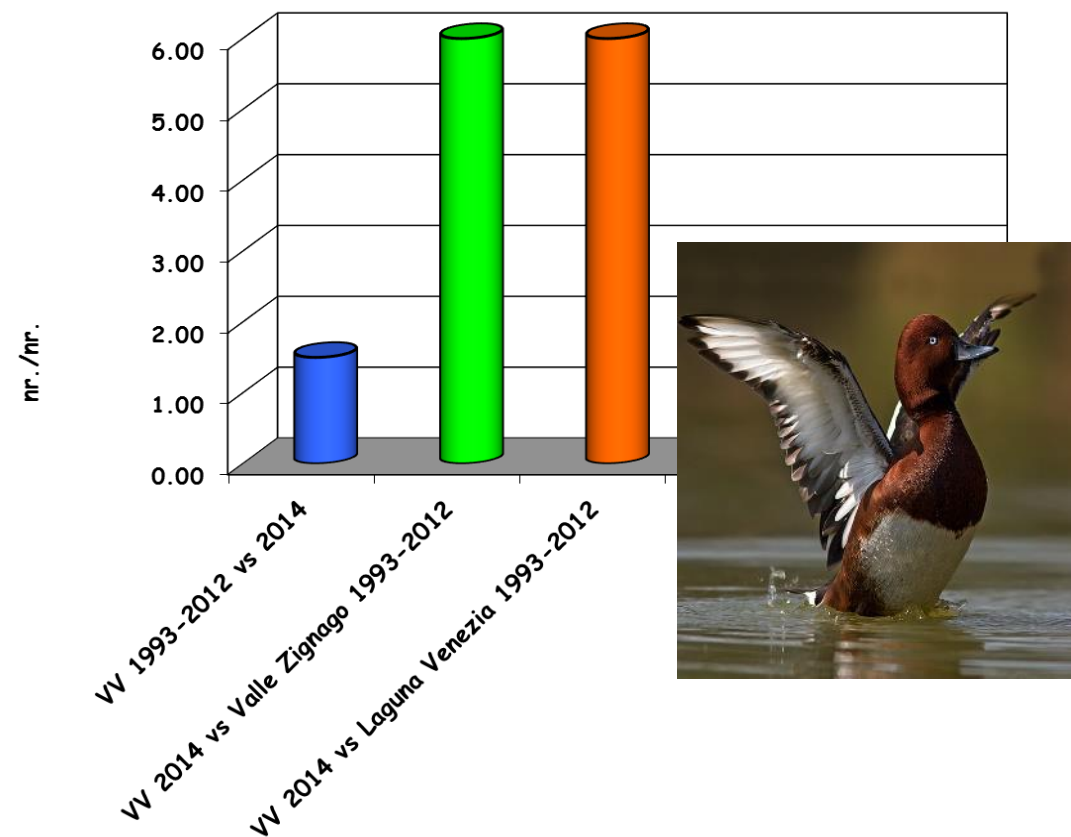
A. Battilani, DG AGRI Civil Dialogue 25 May 2018

MORE BIODIVERSITY WITH IRRIGATED AGRICULTURE

Indicatore Netta Rufina



Indicatore Aythya nyroca



LIFE11 ENV IT 035 WSTORE2

Reconciling agriculture with environment through a new water governance in coastal and saline areas





POSITIVE EXTERNALITIES (Italy)

IRRIGATED AGRICULTURE LANDSCAPE

€ 191,88
millions/month

PRESERVING RURAL SOCIETY

€ 114, 64
millions/month

ARID LANDSCAPE ONLY IN OCCASION
OF SEVERE DROUGHT

€ 114, 64
millions/month

PARTIAL ACQUIFER RECHARGE

€ 38,87
millions/month

Progetto CREA, Università di Udine (2013-2014) – R. Zucaro



SOUTH AFRICA 2018

CAPE TOWN

FARMERS' RESPONSIBLY
SACRIFICING





COLLECTIVE MULTIACTOR APPROACH

STAKEHOLDERS' ACTIVE PARTICIPATION =
DIALOGUE AND AGGREGATION CAPABILITIES

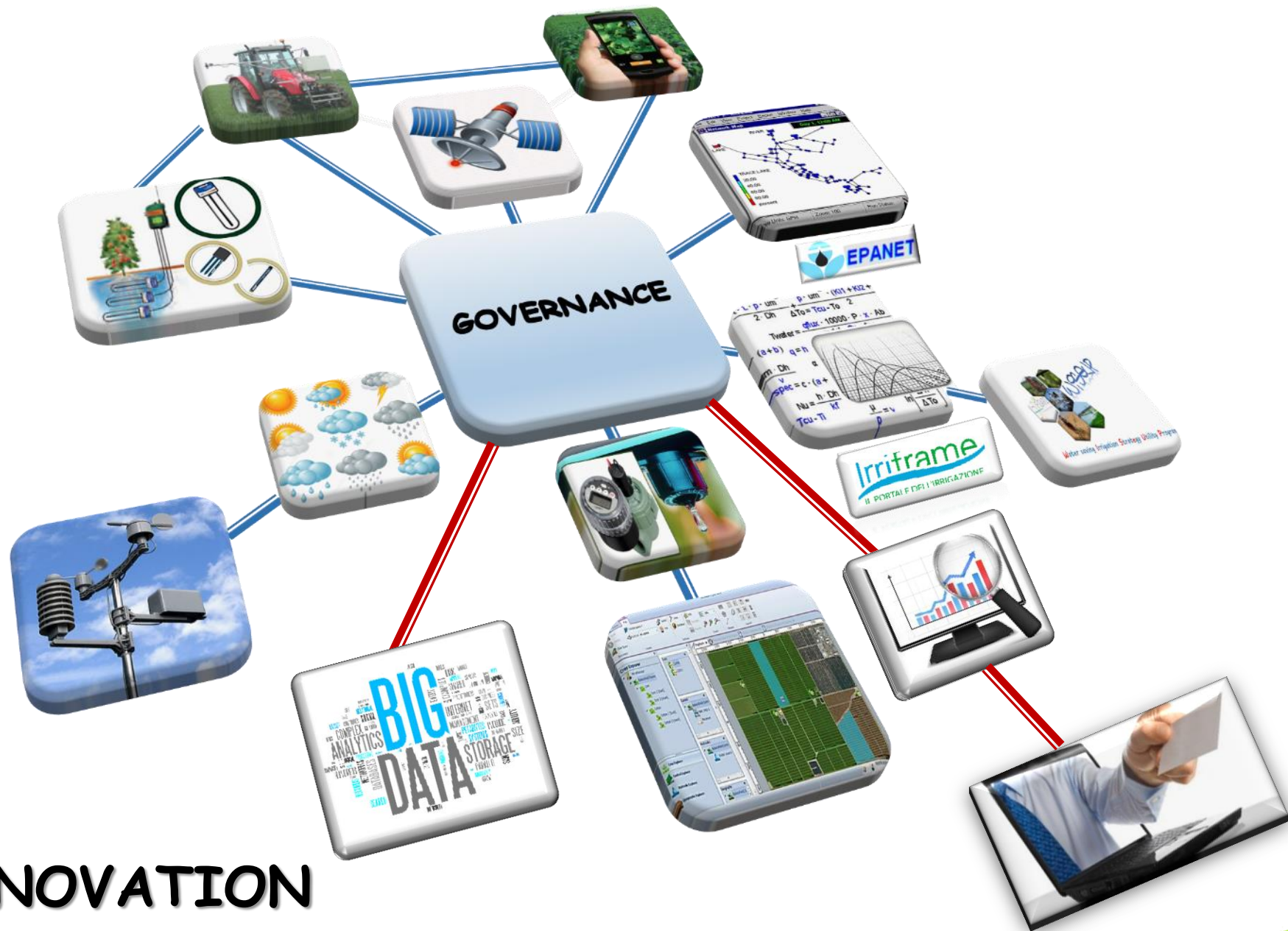
PROBLEMS PRIORITIZATION = COLLECTIVE
RESPONSABILITY FOR UNDERTAKEN ACTIONS

**IDENTIFICATION OF INTERSECTORIAL
SOLUTIONS** = COLLECTIVE CROSS-CUTTING
ACTIONS

**HARMONISED APPLICATION OF SOFT AND HARD
SOLUTIONS** = INDIVIDUAL PERFORMANCES FOR
COLLECTIVE RESULTS

AGREED AND SHARED BENEFITS =
RESPONSABILITY TOWARDS INDIVIDUALS AND
RURAL & URBAN COMMUNITIES





FRONTLINE INNOVATION



FRONTLINE INNOVATION

PRECISE
IRRIGATION



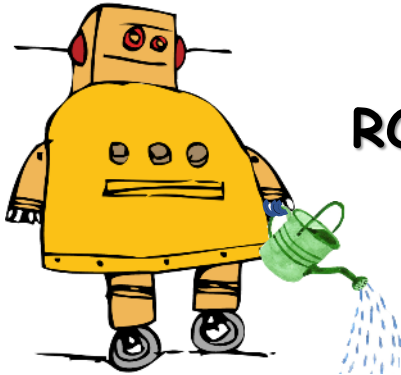
INNOVATION



**BIG
DATA**

AGRICULTURE 4.0

ROBOTICS



WATER REUSE AND
QUALITY





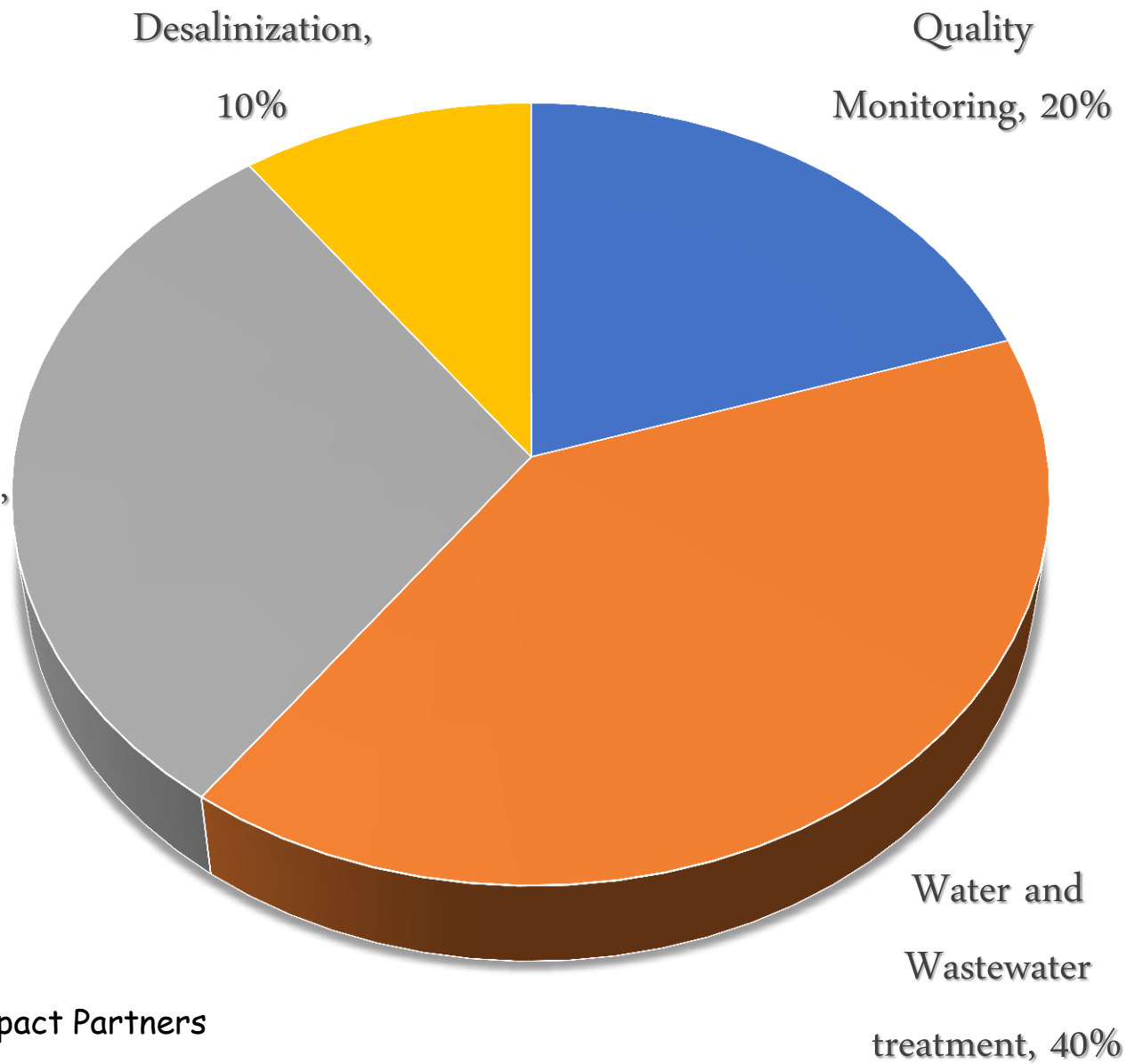
IRRIGATION SECURE SUFFICIENTLY STABLE ECONOMIC RETURN

	INCREASE	Relative Crop Value
STAPLE CROPS	+ 27%	1.0
FRUIT CROPS	+ 35%	6.7
VEGETABLES	+ 82%	12.7
FODDER CROPS	+ 48%	0.7

IRRIGATION INCREASE IN THE AVERAGE LAND RENTABILITY
OF **13500 EURO PER HECTAR** (Italy 2017)

Source ANBI, IT 2018





STARTUPS IN THE WATER SECTOR (EUROPE, USA, ISRAEL)

Source Global Impact Partners





Too often irrigated agriculture is indicated as an environmental threat and a societal cost, ignoring its benefits.

We face the risk of using the best of science and technology to address irrigation challenges, and at the same time see how European citizens are not aware of the importance of irrigated agriculture.





THANKS FOR YOUR ATTENTION

