



**COORDINATION BETWEEN EC WATER POLICIES AND CAP
-THE CASE OF SOIL LOSS.**

*Mr. Juan Lluch, Deputy Commissioner for Water,
Confederation Hydrographic of the Guadalquivir.*

Seville, 19th October



DIRECTIVE 200/60/EC DWM

DIRECTIVE 2007/60/EC FLOODS

RURAL DEVELOPEMENT POLICY (CAP)

COUNCIL DIRECTIVE 92/43/EEC HABITATS



■ Legal framework,

Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy “

- (33) The objective of achieving good water status should be pursued for each river basin, so that measures in respect of surface water and groundwaters belonging to the same ecological, hydrological and hydrogeological system are coordinated.



■ Legal framework,

Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy “ANNEX V. SURFACE WATER STATUS

- 1.1. Quality elements for the classification of ecological status
 - 1.1.1. Rivers
 - Biological elements
 - Composition and abundance of aquatic flora
 - Composition and abundance of benthic invertebrate fauna
 - Composition, abundance and age structure of fish fauna
 - **Hydromorphological elements supporting the biological elements**
 - **Hydrological regime**
 - **Quantity and dynamics of water flow**
 - **connection to groundwater bodies**
 - **River continuity**
 - **Morphological conditions**
 - **River depth and width variation**
 - **Structure and substrate of the river bed**
 - **Structure of the riparian zone**
 - Chemical and physico-chemical elements supporting the biological elements
 - Thermal conditions
 - **Oxygenation conditions**
 - **Salinity**
 - **Acidification status**
 - **Nutrient conditions**
 - Specific pollutants
 - Pollution by all priority substances identified as being discharged into the body of water
 - Pollution by other substances identified as being discharged in significant quantities into the body of water

13 OF 23 QUALITY
ELEMENTS DIRECTLY
RELATED WITH
EROSION



■ Legal framework,

European Directive 2007/60/EC on the "Assessment and management of flood risk"

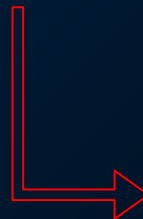
- Assessment of potential risks
- Reduction of adverse consequences for human health, environment, cultural heritage and economic activity associated with floods



Floods are a natural phenomena which cannot be avoided



However, some human activities contribute to an increase in the likelihood and adverse impact of flood events



Human settlements in floodplains

Reduction of the natural water retention by land use



Second pillar of the CAP: rural development policy

As the second pillar of the common agricultural policy (CAP), the EU's rural development policy is **designed to support rural areas** of the Union and meet the wide range of economic, environmental and social challenges of the 21st century. A higher degree of flexibility (in comparison with the first pillar) enables regional, national and local authorities to formulate their individual seven-year rural development programmes based on a European 'menu of measures'. Contrary to the first pillar, which is entirely financed by the EU, the second pillar programmes are co-financed by EU funds, and regional, national or local funds.

Legal basis

- Articles 38-44 of the Treaty on the Functioning of the European Union (TFEU);
- Regulation (EU) No 1303/2013 (OJ L 347, 20.12.2013) (common provisions concerning the European Structural and Investment Funds);
- Regulation (EU) No 1305/2013 (OJ L 347, 20.12.2013) (support for rural development);
- Regulation (EU) No 1306/2013 (OJ L 347, 20.12.2013) (financing, management and monitoring of the common agricultural policy);
- The Omnibus Regulation (Regulation (EU) 2017/2393; OJ L 350, 29.12.2017, p. 15) (introducing changes to Regulation Nos 1305/2013 and 1306/2013).

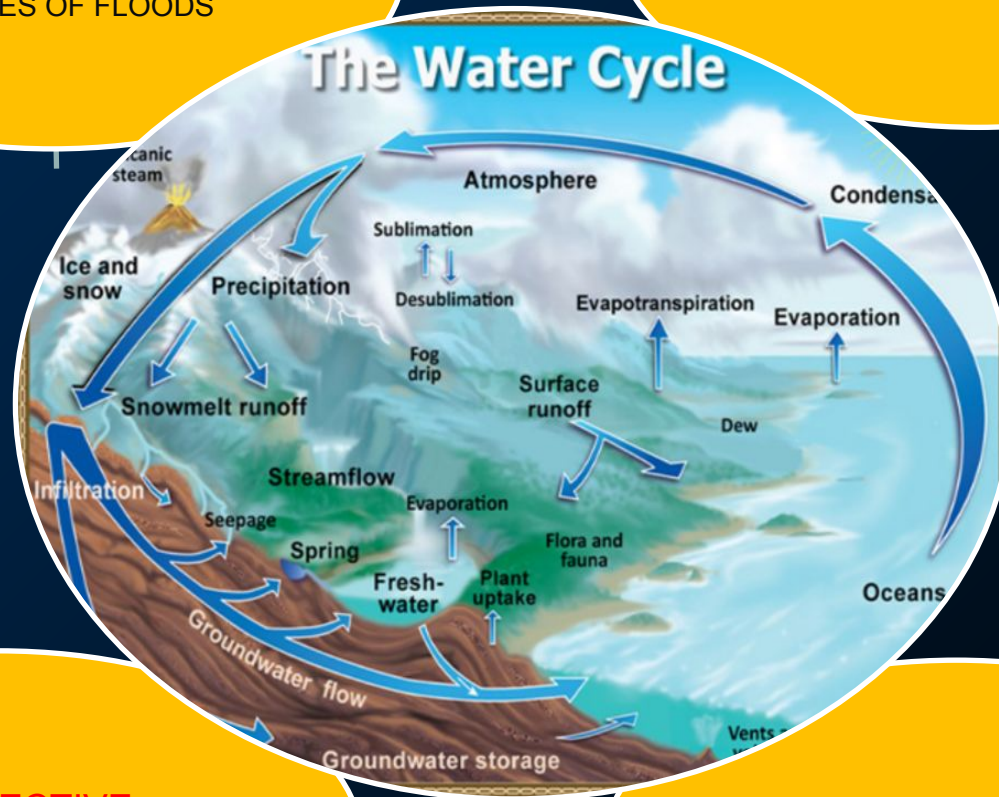


FLOODS DIRECTIVE

REDUCTION OF POTENTIAL DAMAGES OF FLOODS

WATER FRAMEWORK,

ACHIEVE GOOD WATER STATUS

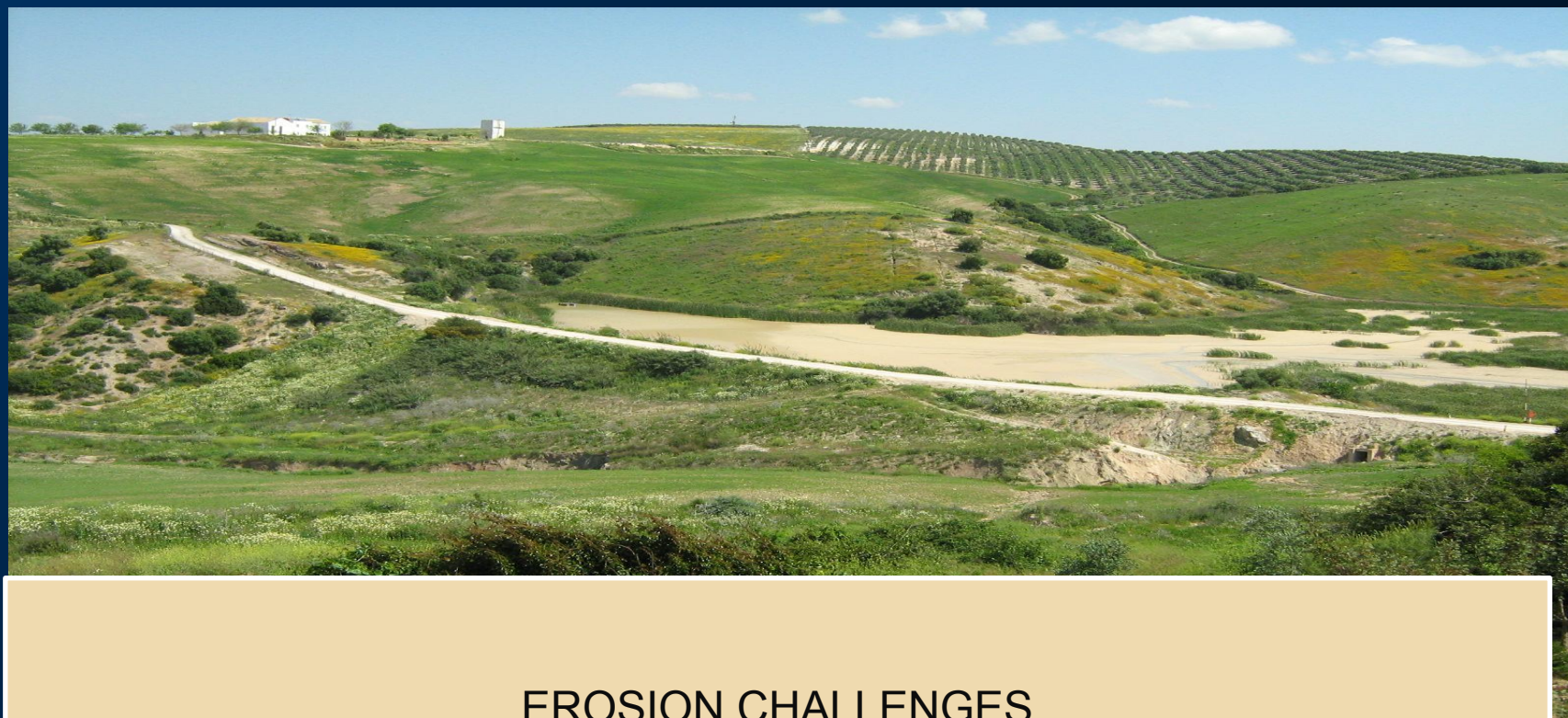


HABITATS DIRECTIVE,

FAVORABLE CONSERVATION STATUS OF NATURAL SYSTEMS

CAP.

SUPPORT RURAL AREAS



EROSION CHALLENGES

LOSS OF FERTILITY OF SOILS

INCREASES COSTS OF CHANNEL MAINTENANCE

REDUCES RESERVOIRS OF DAMS

INCREASES DAMAGES OF FLOODING

RUINS CROPS FIELDS

REDUCES BIODIVERSITY IN RIVERS



What about wide fields?



How their use is related with flow in rivers?



- EUROPE'S LARGE IN NUMBER OF DAMS 5TH IN WORLD
- ALMOST 3% OF TOTAL GROUND OF SPAIN IS NATURAL WATER FLOWS, LAKES OR OTHER WATER SURFACES.
- MANAGED BOTH BY HYDROGRAPHIC CONFEDERATIONS

HUGE COSTS OF MAINTENANCE DUE EROSION.

ONLY MANAGES IN RIVERS



Reduction of the natural water retention by land uses

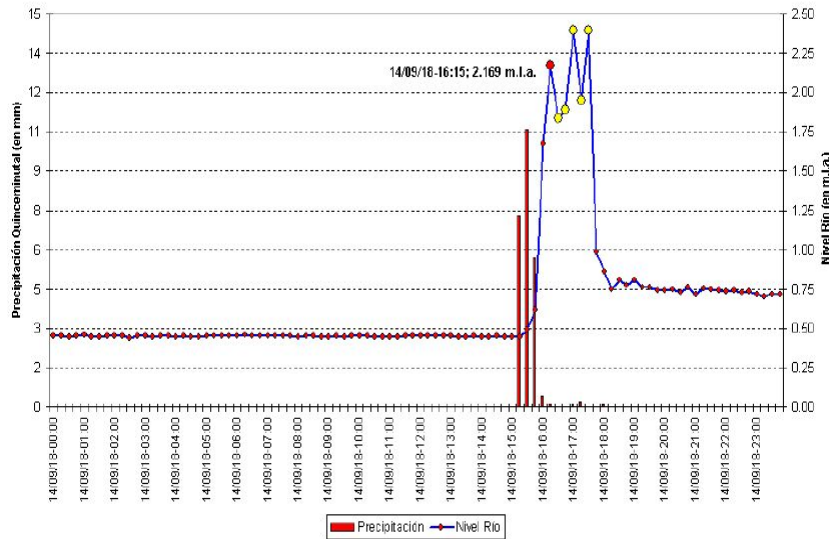
Challenges in rural areas

- Important surface of bare soil in some farming systems (olive groves) → Soil erosion, lack of infiltration
- Destruction of riparian vegetation → Erosion of the river bed, lack of flood abatement
- Lack of vegetation cover in some Mediterranean environments → lack of infiltration, little water retention, high peak flows
- Increased risk of flash floods



Flash flood: RIOFRIO- GRANADA province 14TH SEPTEMBER 2018

A37 Río Frio en Riofrío (Granada)



Impredictible



Devastating



No possibility of defense by dams



From 0.40 to 2.50 in less 15 min



Revision of the Water Framework Directive (WFD): improve coordination with other European Directives (Marine Strategy Framework Directive, Flood Directive, Renewable Energy Directive)



GOBIERNO DE ESPAÑA

MINISTERIO PARA LA TRANSICIÓN ECOLÓGICA

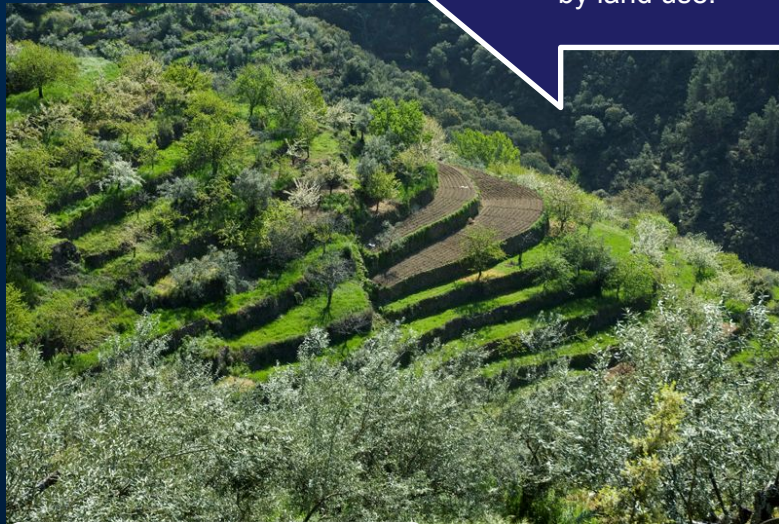
CONFEDERACIÓN HIDROGRÁFICA DEL GUADALQUIVIR, C.A.



Barley crops in olive groves



Weed control by grazing



Crops in platforms



Integrated production methods



Reduction of the natural water retention by land use.

Measures to be enhanced by agricultural and environmental policies:
Enhance infiltration in crop fields



Vernal ponds



Infiltration ditches





Reduction of the natural water retention by land use.

Measures to be enhanced by agricultural and environmental policies:
Enhance riparian vegetation



Specific challenges in mediterranean rivers !!

Reduction of the natural water retention by land use.

Measures to be enhanced by agricultural and environmental policies:

- Natural vegetation cover





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ENHANCE FUTURE OF RURAL PEOPLE



JUAN LLUCH

Seville, 19th October 2018