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Session A3: LIFE+ Segura Riverlink, Implementing a Green Infrastructure Approach

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Presenter Information

Eduardo Lafuente Sacristán, Rosa Olivo del Amo, Francisco Javier Sanz Ronda, Jorge Sanchez Balibrea, Francisco José Oliva Paterna, Mar Torralba García, and Francisco Corbalán Martínez



SEGURA RIVERLINK

LIFE12 ENV/ES/001140 LIFE



SEGURA RIVERLINK

F R A N Q U E O F L U V I A L



FISH PASSAGE 2015
22-24 June 2014. Groningen (The Netherlands)



LIFE12 ENV/ES/1140



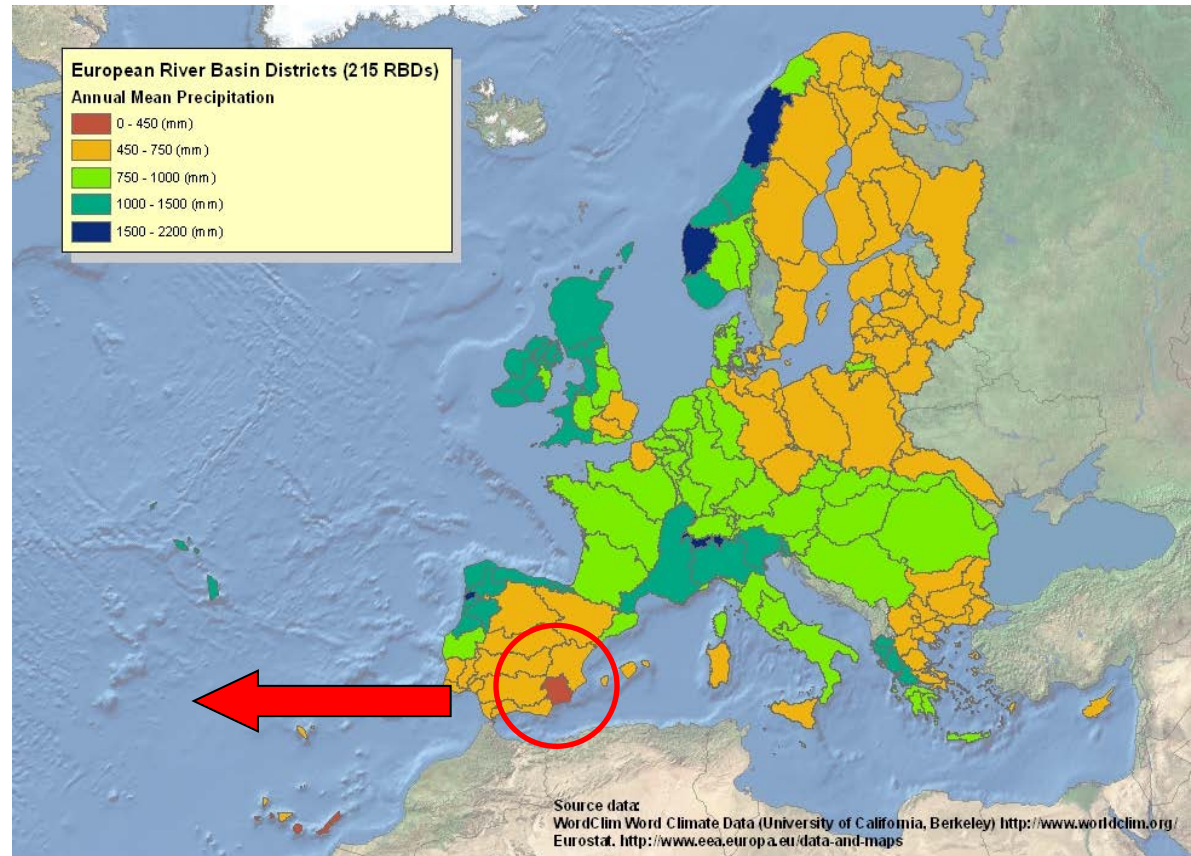
The Segura River Basin is characterized by **big climatic contrasts**: frequent droughts, torrential rains, recurrent floods, high temperatures and heavy frosts

**WATER
SCARCITY**

**IRREGULAR
DISTRIBUTION IN
TIME**

**IRREGULAR
DISTRIBUTION IN
SPACE**

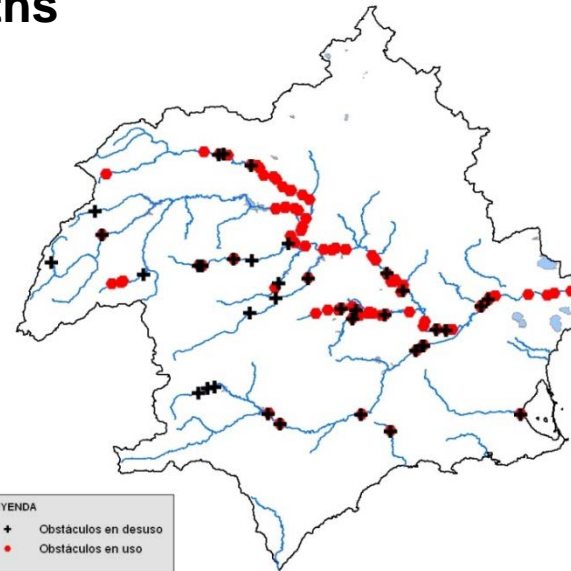
**EXTREME EVENTS:
DROUGHTS &
FLOODS**





ENVIRONMENTAL PROBLEM TARGETED

- **Geomorphic changes along the river**
- **Modification in the rivers flow regime**
- **Alteration of the water quality**
- **Creation of favorable habitats for exotic species**
- **Landscape effects**
- **Disruption of wildlifes natural motion paths**





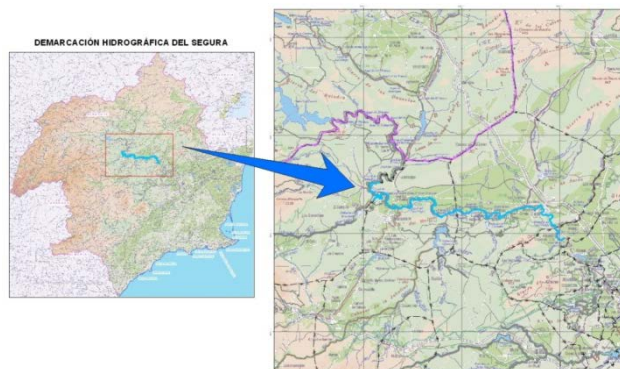
GENERAL FACTS

BUDGET 3.424.250 € (49,83% EU)



PERIOD 01 August 2013 – 30 July 2017

LOCATION



PARTNERS



CONFEDERACIÓN
HIDROGRÁFICA
DEL SEGURA

COMISARÍA
DE AGUAS



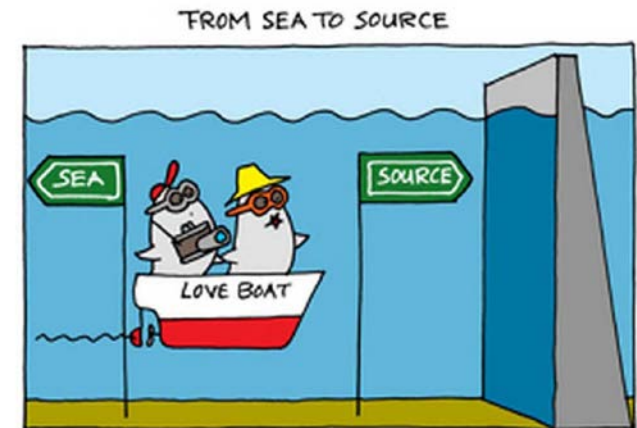


OBJECTIVES

The project aims to promote the environmental recovery of the Segura River by strengthening the connectivity between natural ecosystems in a highly fragmented river basin

At a long-term view

- ✓ Fish habitat in good ecological status
- ✓ No future deterioration in fish migration
- ✓ The green highway of the Segura River will be free of obstacles
- ✓ Increase environmental awareness



[www.fromtheseatosource.com]



MAIN ACTIONS

- ✓ Removal of an unused dam
- ✓ Eight fish passages
- ✓ Restoration of riverine vegetation



(Moratalla River, Murcia). 22 -01-2014





Pool type Fishways

Rocky ramp



Bypass channel



✓ Monitoring and socio-economic assessment

- Operative indicators at fish passage systems.
- Fish community and populations.
- Bird community and river-bank associated fauna.
- Vegetation communities.
- Water and sediments.
- Socio-economic assessment.





Indicators

- (1) Community metrics.
- (2) Population metrics of sentinel indicator species.

Level of actions

- (1) Regional – at the river sector.
- (2) Local - at river stretches next to the obstacle.

Sentinel-fishes

Gobio lozanoi (Gudgeon)



Pseudochondrostoma polylepis (Nase)



Luciobarbus sclateri (Southern Iberian barbel)



Alburnus alburnus (Bleak)



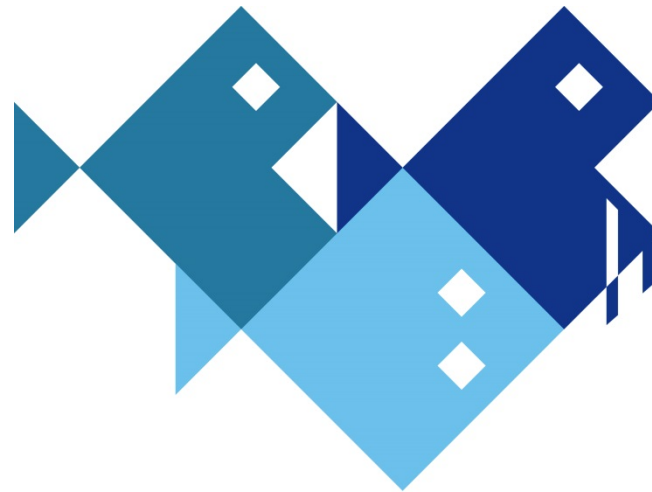


✓ Social involvement and awareness





21-24 June. Murcia



SIBIC2016

VI CONGRESO IBÉRICO
DE ICTIOLOGÍA / MURCIA



Dankjewel!

Francisco Javier Sanz Ronda



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