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International Conference on Engineering and Ecohydrology for Fish Passage 2015

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

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Sacristán, Eduardo Lafuente; Olivo del Amo, Rosa; Sanz Ronda, Francisco Javier; Sanchez Balibrea, Jorge; Oliva Paterna, Francisco José; Torralba García, Mar; and Corbalán Martínez, Francisco, "Session A3: LIFE+ Segura Riverlink, Implementing a Green Infrastructure Approach" (2015). International Conference on Engineering and Ecohydrology for Fish Passage. 21. https://scholarworks.umass.edu/fishpassage_conference/2015/June22/21

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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

























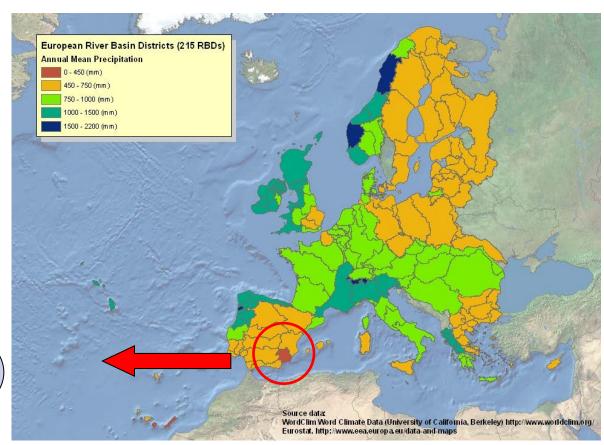
The Segura River Basin is characterized by big climatic contrasts: frequent droughts, torrential rains, recurrent floods, high temperatures and heavy frosts

WATER SCARCITY

IRREGULAR
DISTRIBUTION IN
TIME

IRREGULAR
DISTRIBUTION IN
SPACE

DROUGHTS & FLOODS





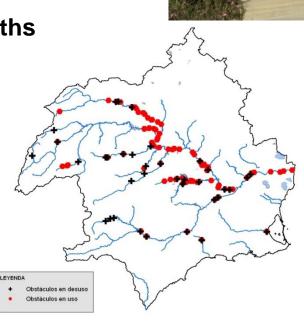


ENVIRONMETAL PROBLEM TARGETED

- 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

















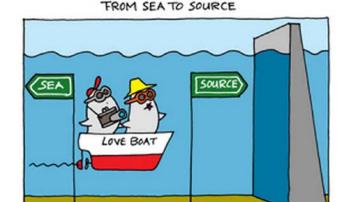


OBJECTIVES

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



[www.fromtheseatosource.com]

- ✓ The green highway of the Segura River will be free of obstacles.
- ✓ Increase environmental awareness



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.

Luciobarbus sclateri (Southern Iberian barbel)



Gobio Iozanoi (Gudgeon)



Sentinel-fishes

Pseudochondrostoma polylepis (Nase)



Alburnus alburnus (Bleak)









✓ Social involvement and awareness













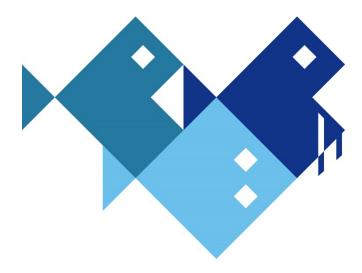








21-24 June. Murcia



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More information: www.segurariverlink.eu

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