# **LOUSADA GUARDA RIOS** Active Citizenship in the Protection of Natural Resources

Daniela Barbosa



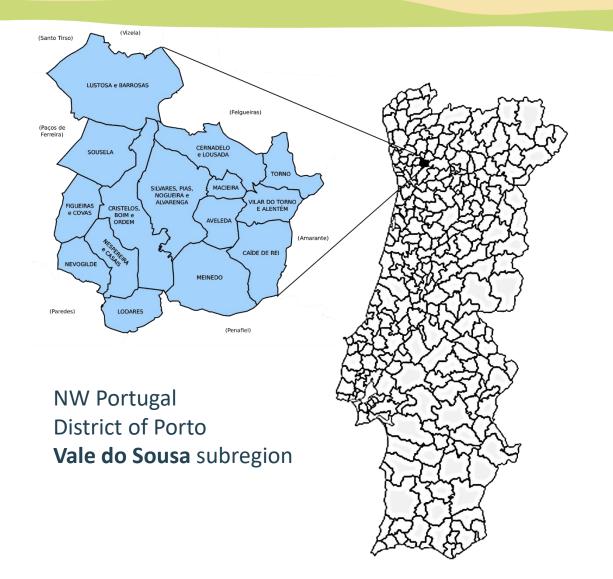
guarda **rios** 



# LOUSADA

### **Municipality of Lousada**

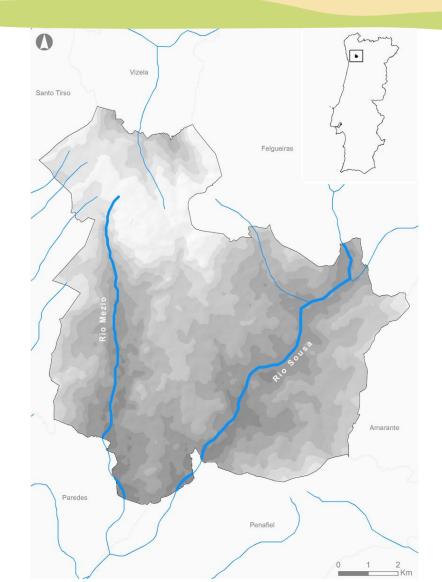
- 94,89 km2
- 15 parishes
- 47.401 inhabitants (2021)
- Humid temperate region
- Economy: agriculture, textile industry
- 2 river basins (Mezio and Sousa)



# LOUSADA

### Hydrographic Network

- Sousa river
- SE of the municipality
- Extent of 14.82 km
- Mezio river
- Springs in Lousada
- N-S orientation
- Total of 28 Km (10,5 km in LSD)



### **IDENTIFIED THREATS**

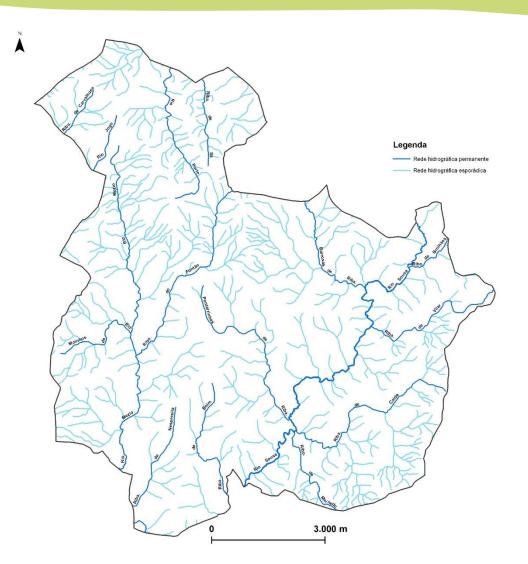
i) Local points of water pollution;

ii) Destruction of the riparian gallery;

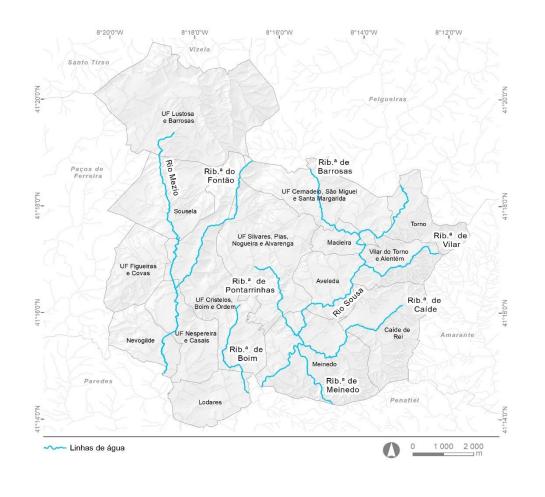
iii) Erosion of banks.

## **AIMS AND GOALS**

- Conservation and monitoring of the ecological status of fluvial ecosystems;
- Environmental improvement of river ecosystems;
- Environmental awareness and public participation of local people.



1) Mapping and characterization of the main watercourses in the municipality;



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- **Stream bed characteristics:** depth, width, bottom type, water velocity, water transparency, aquatic vegetation;
- **Bank characteristics:** type of substrate, slope, structure, vegetation present, pollution;
- Characteristics of the surrounding area: buildings in the surrounding area, register of exotic/invasive species, register of native flora, register of native flora.

#### 2) Social engagement



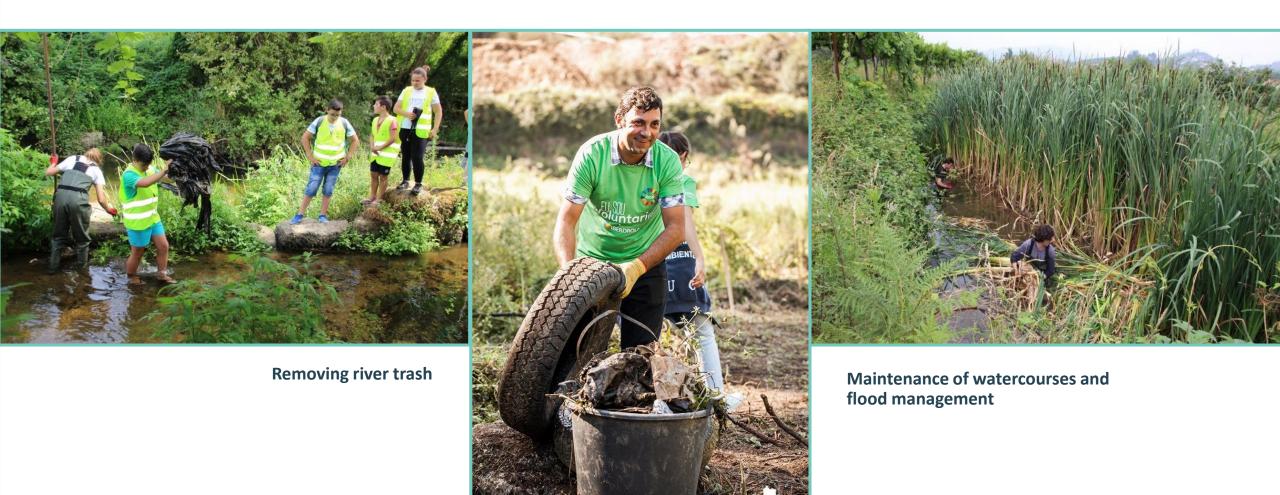
- 1. Explanation of the project
- 2. Registration of volunteers
- Theoretical and practical training of "Guarda Rios" Patrols
- 1. Adoption of river sections
- 2. Environmental improvement actions

### Guarda Rios Kit

- Transport and identification bag
- Reflective vest
- Guarda-Rios manual
  - Field miniguide
  - Security rules
  - Good environmental practices
- Characterization sheet of the river section



### ENVIRONMENTAL IMPROVMENT ACTIONS



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**Invasive species control** 



**Renaturalization of riverbanks** 



#### Plantation of riparian trees

#### **3)** Formal Inspection Actions



**Discharge of livestock effluents** 

Solid waste disposal

#### **3)** Formal Inspection Actions



Cutting of ripararian vegetation

Water pollution

### **Municipal Environmental Reading Plan**

• 24000 students



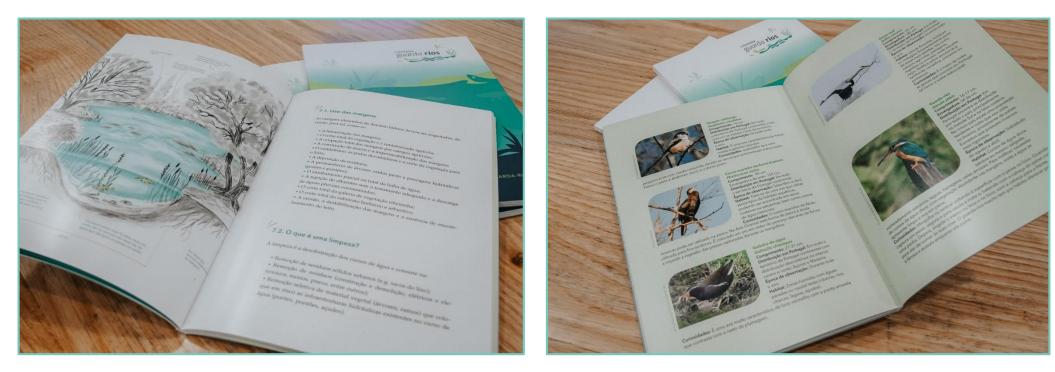


2020

**Guarda-Rios manual** 



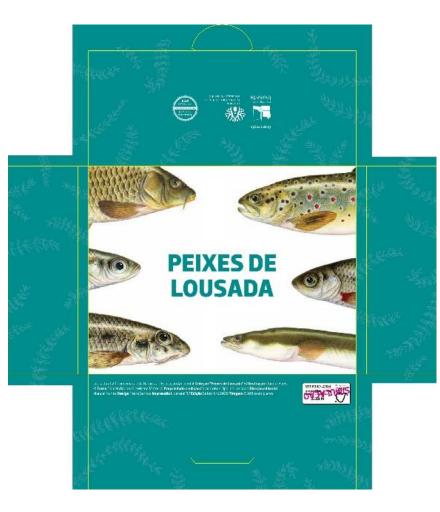
#### **Guarda-Rios manual**

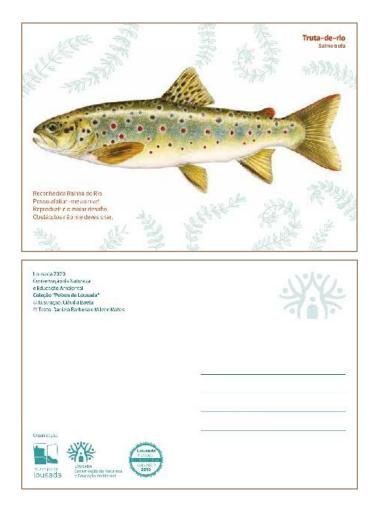


Guide of good cleaning practices

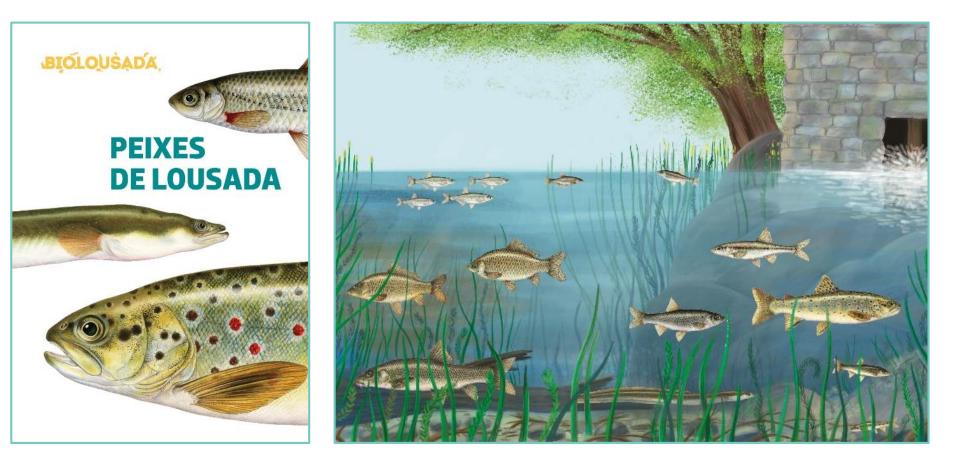
Field guide

#### **Fish Postcards**





**Fish Miniguides** 





### MEDIA

### Lousada promove formações para quem queira ser guarda rios

Fernanda Pinto 24 Julho 2019 às 13:08

Durante este mês, serão seis as formações disponíveis nas Juntas de Freguesia. Inscrições são gratuitas

Por Verdadeiro Olhar - Out 2, 2019 🛛 🕫 0



Pesquisar IN Direto Nacional Local Justiça Mundo Economia Desporto Pessoas Inovação Cultura Opinião Noticias

Adotam e tomam conta de pedaços de rios em Lousada





Com maior ou menor frequência, percorrem as margens de troços dos rios que adotaram em ações de monitorização ou à procura de poluição.

# THANK YOU!

# Daniela Barbosa | Manuel Nunes | Milene Matos biolousada@cm-lousada.pt

guarda rios



EUROPEAN RIVERS SUMMIT NOV. 2021