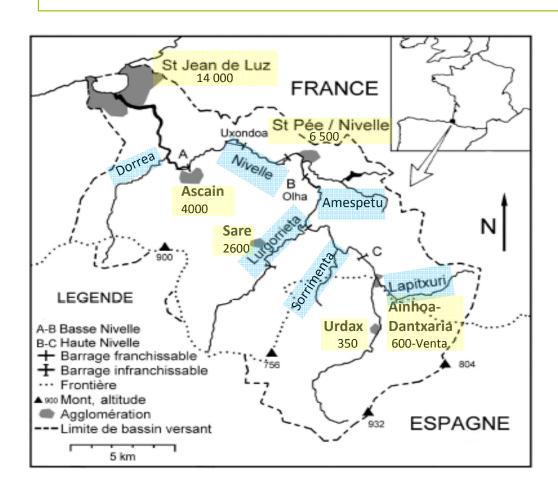








**River Nivelle** 

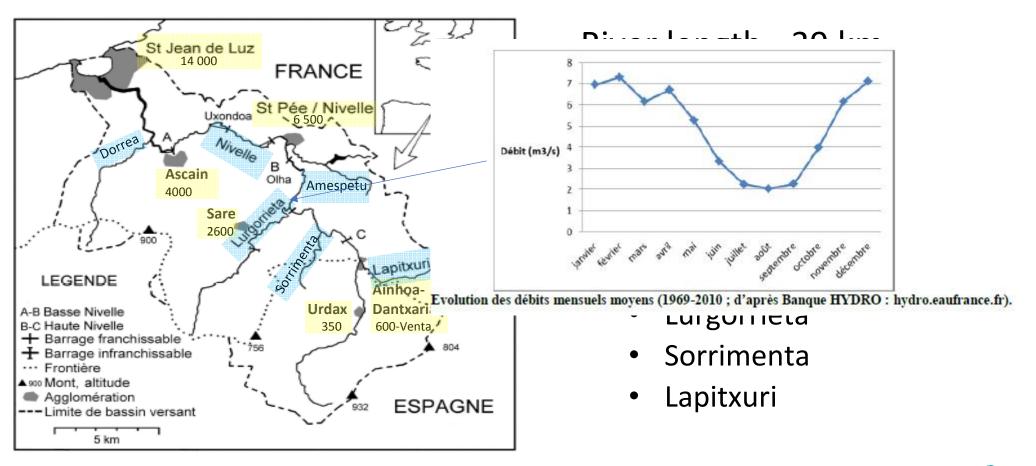


River length - 39 km
River basin area - 238 km²
Estuarine length - 8 km
Main tributaries:

- Dorrea
- Amespetu
- Lurgorrieta
- Sorrimenta
- Lapitxuri



**River Nivelle** 

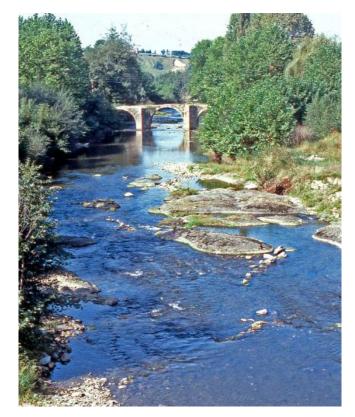






#### **River Nivelle**

Nivelle at Ascain



Amezpetu



Nivelle at Dantxaria



Lurgorieta

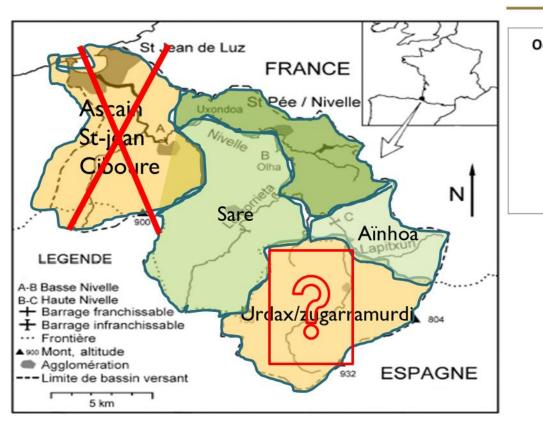


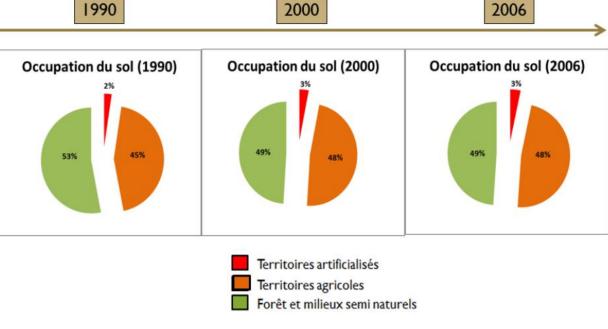
Lapitxuri









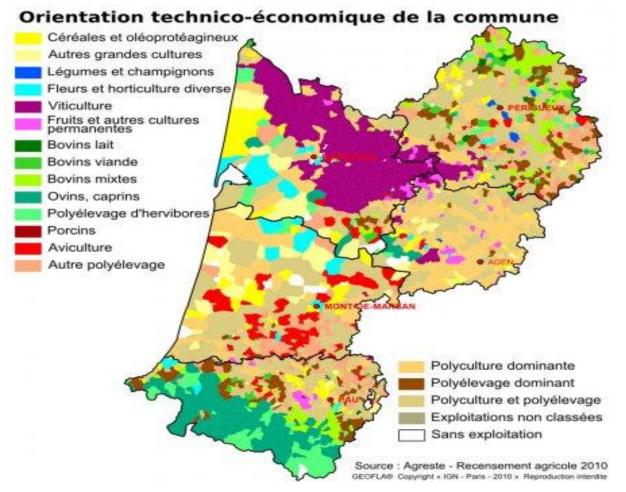


Activity: mainly agriculture and forest





**River Nivelle** 



#### Mainly sheep



Number of farms

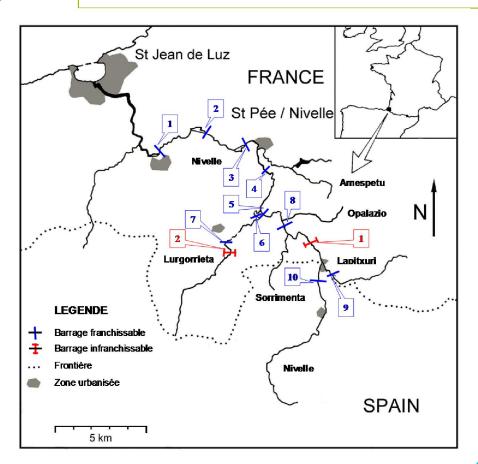
- 80 % en 10 ans



Source: AGRESTE/J. Mahias

## Obstacles to migration

**River Nivelle** 



- 1 Seuil d'Ascain
- 2 Barrage d'Uxondoa
- 3 Seuil de Zaldubia
- 4 Barrrage d'Olha
- 5 Seuil de Cherchebruit
- 6 Barrage d'Ibarla

- 7 Seuil d'Añumenia
- 8 Barrage de Lurberria
- 9 Barrage Lapitxuri (Venta)
- 10 Barrage Venta Felix
- 1 Barrage de Darguy
- 2 Barrage Harrieta (Douane)



Accessible area - 100% of the main river and tibutaries but some potential difficulties for upstream migration at Darguy and Harrieta



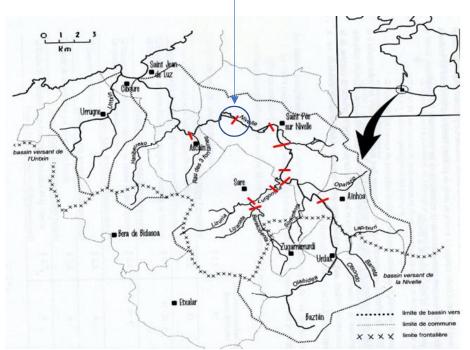


## Obstacles to migration

**River Nivelle** 

#### **Uxondoa Dam:**

12 km upstream the river mouth





Future eel trap location





## The eel fishery

**River Nivelle** 





	Estuary	River		
Glass eels	YES	NO		
Yellow eels	NO	NO		
Silver eels	NO	NO		

FISHING GEARS					
	Estuary	River			
Glass eels	Hand sieve	-			
Yellow eels	-	-			
Silver eels	-	-			





## Other pressures on the eel River Nivelle

**Anthropic pressure**: Globally low pressure Report from Sudoe (Migranet) on the anthropic pressures in the river basin (2012)







« Etude de l'impact des pressions anthropiques et climatiques sur les populations de poissons migrateurs du bassin de la Nivelle »



La Nivelle à Saint-Pée-sur-Nivelle (source : Jérémy Mahis

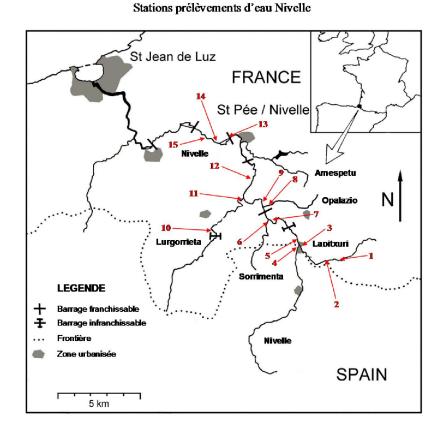
Projet effectue à l'UMR Ecobiop sous la direction scientifique de M. Philippe Gaudin et M. Etienne Prevost dans le cadre de la 2<sup>ème</sup> année du master Dynamique des écosystèmes aquatiques (DynEA). 27 fevrier 2012 au 24 août 2012.

Le présent rapport constitue un exercice pédagogique qui ne peut en aucun cas engager la responsabilité de l'entreprise ou du laboratoire d'accueil.

Survey of water quality (every month since 2009):

15 points Data: pH, Conductivity, Turbidity, NO2-/NO3-, Orthoposphate.

+ T° (5 loggers)



- 1- Lapitxuri amont
- 2- Lapitxuri aval
- 3- Lapitxuri venta
- 4- Nivelle amont confluence Lapitxuri
- 5- Aval Dantcharia
- 6- Ruisseau Sorrimenta
- 7- Nivelle amont ruisseau Sorrimenta
- 8- Ruisseau Opalazio

- 9 Betrienea
- 10-Barrage Douane (Lurgorrieta)
- 11- Lyonnaise (Lurgorrieta)
- 12-Pont d'Amotz
- 13- INRA
- 14- INRA aval canal pisciculture
- 15- Pont de la vierge



Année 2011-2012 MAHIAS Jérémy

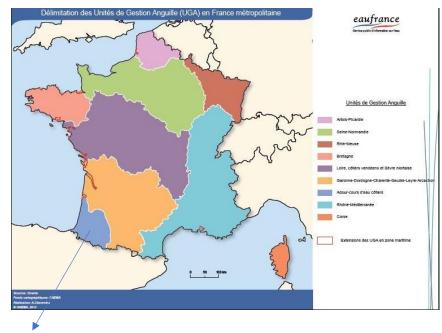


## Eel Management Plan



#### • Eel Management Plan

- National
  - 60% of glass eels catches for stocking,
  - annual quota of catches
- Regional
  - UGA, Unité de Gestion Anguille: "Adour cours d'eau côtiers"
  - Important glass eel commercial fishing (1500 à 2500kg)
  - No silver eel fishery allowed
  - Yellow eel fishery







## Eel Management Plan

**River Nivelle** 

Yellow eel fishery, authorized from 1st April to 31th August

Recreational fishing is only allowed on yellow eel.

The use of gears (or more than two fishhook) is under declaration for both recreational and commercial fishing.

For both recreational and commercial fishing a licence specific to yellow eel has to be demanded to local territorial authorities.

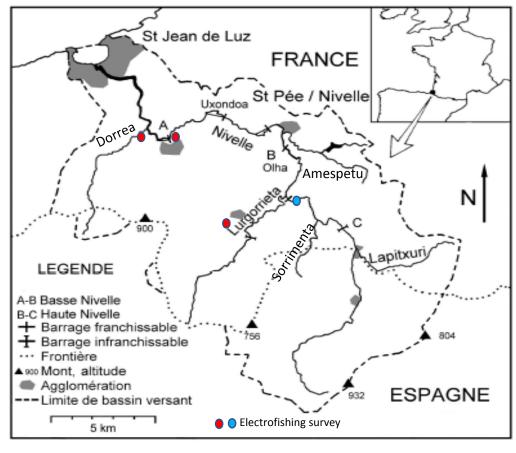
	Autorisation individuelle	Carnet de pêche	Déclaration des captures
Pêcheurs à la ligne « classique »	Non	Oui	Non
Pêcheurs à la ligne de fond (maximum 18 hameçons – autorisé aux membres des AAPPMA sur les cours d'eau non domaniaux en deuxième catégorie piscicole)		Oui	Oui
Pêcheurs amateurs aux engins et filets (membres de l'association départementale agréée de pêcheurs amateurs aux engins et aux filets sur le domaine public fluvial)	Oui	Oui	Oui



## Monitoring

**River Nivelle** 

- What has been monitored:
- Yellow eels (electrofishing)
- Survey by Fédération de pêche 64
- Monitoring started in 2010:
- done every 2 years
- On 4 locations:
  - Dorrea just downstream of Ascain
  - 3 fontaines creek in Ascain
  - Le Lizuniaga, Lurgorrieta tributary
  - Main stream: Nivelle, above the confluence with Lurgorieta



+ very old data: 50 years ago.... Neveu, BFPP 1980 (100kg/hect) + other unpublished data - BD Beaulaton SUDO ANG



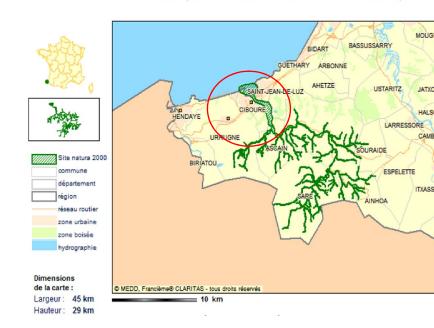
## Monitoring

#### Main difficulties encountered: None yet. Starting with SudoAng!!!

But we anticipate that the number of people to be efficient to carry on electrofishing could be difficult to run in Autumn (salmonids electrofishing surveys at the same period).

We Know very well the Nivelle upstream Ascain, but not much downstream. It could be important areas for eel. Which effort to simple these dowstream areas?

LA NIVELLE (ESTUAIRE, BARTHES ET COURS D'EAU)





# Interreg Sudoe





Project co-financed by the INTERREG SUDOE Programme through the European Regional Development Fund (ERDF)

www.sudoang.eu