

Interreg
Sudoe



Progress in data collection (GT1)

María Mateo¹ and Cédric Briand²
¹AZTI Marine Research
²EPTB Vilaine



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Science into
Business

OBJECTIVES AND MAIN PRODUCT

DATA COLLECTION - GT1 -



Spatial database



Eel database



Dams & Turbines



Database for GT6

IMPLEMENTING MODELS - GT2, 3 and 4 -

- GT2: Mortality estimation
- GT3: Recruitment (GEREM)
- GT4: Escapement (EDA)

SAMPLING NETWORK - GT6 -

GT's

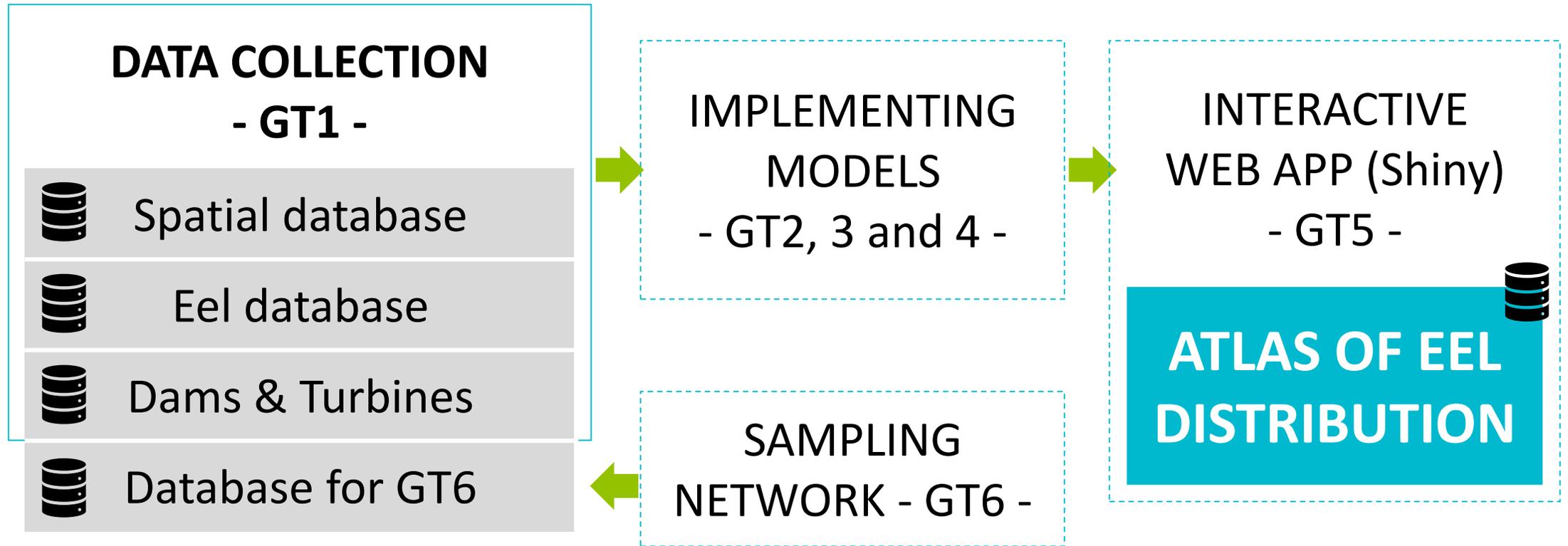
Activities



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OBJECTIVES AND MAIN PRODUCT



GT's

Activities

FINAL PRODUCT



CHRONOGRAM OF ACTIVITIES

2018

2019

2020

2021



(November 2018)



1.1 Create a spatial database



(February 2018)



1.2 Collect relative information about eels



(February 2020)



1.3 Creation & Transfer of atlas

Template for SPATIAL data collection - GT1 Activity 1.1 -

Coordination: AZTI Data provider: Date: Deadline: October 2018

Database layers - Example of the Basque Country (Spain)

Name	SRID	Format	Description	Source	Contact e-mail
oria_river	4326	.shp	Rivers of the Basque Country	AZTI	ediaz@azti.es
river_width	4326	.xls	File of electrofishing stations in the Basque Country	AZTI	ediaz@azti.es



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WHAT HAVE WE DONE SO FAR?

SPATIAL DATABASE



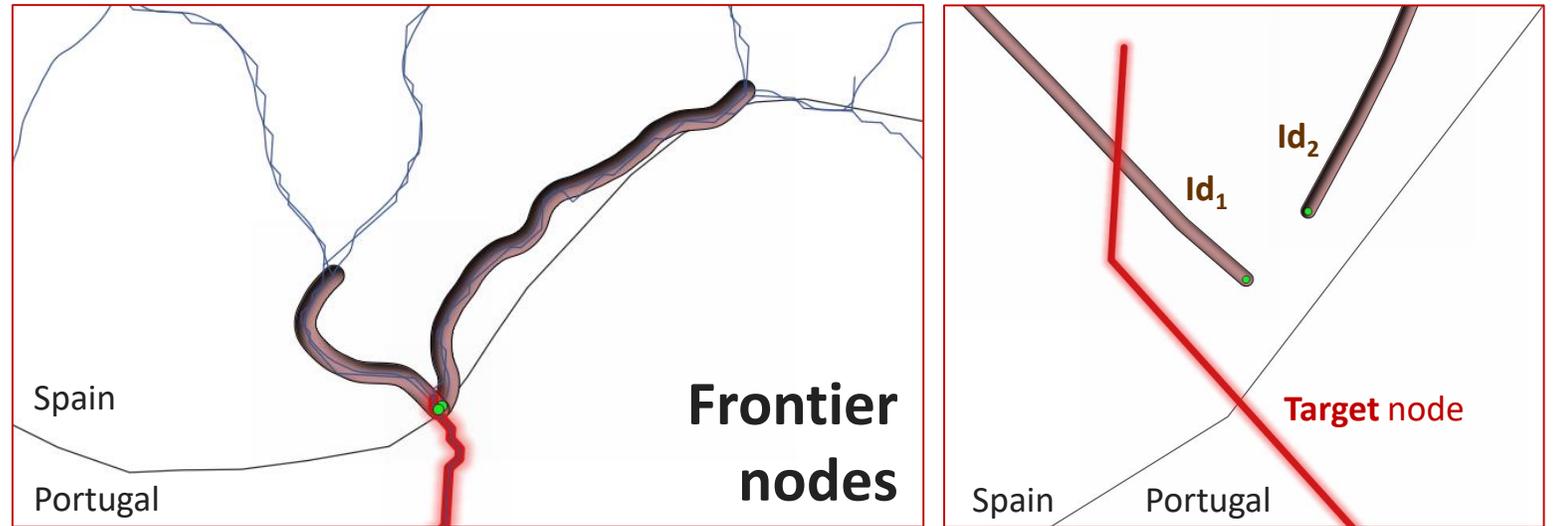
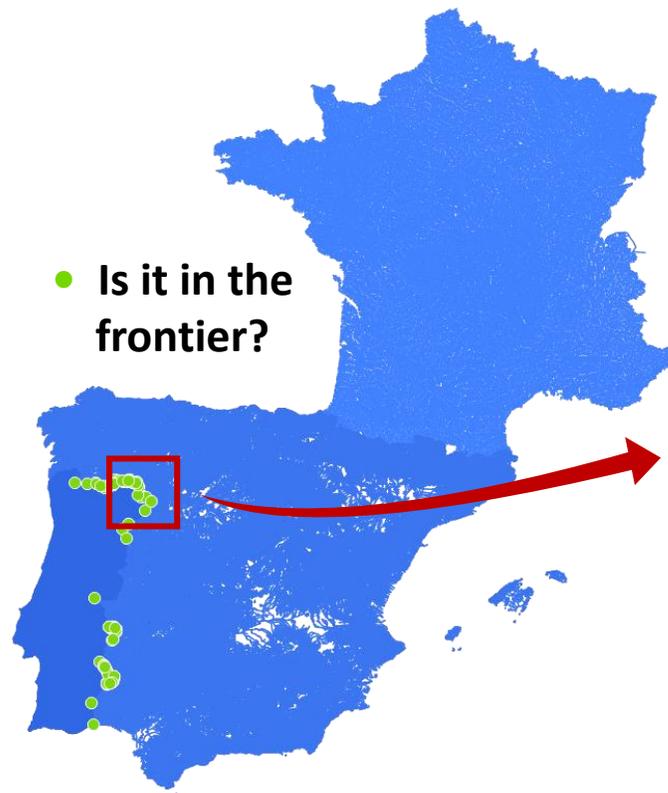
SPATIAL DATA	
ABC	Segment identifier 
123	gid
123	Source
123	Target
ltree	Path
123	Length of river segment (m)
ABC	Country
T F	Is it in the frontier?
T F	Is it the source?
T F	Is it endoreic?
T F	Is it in the sea?
123	Id of the river segment near to the sea
T F	Is it international?
	Geometry

ATTRIBUTES DATA	
ABC	Segment identifier 
ABC	Name
ABC	Basin
ABC	EMU
123	Altitude (m)
123	Length of river segment (m)
123	Distance to the sea (m)
123	Cum nb of dams
123	Cum height of dams
	...

WHAT HAVE WE DONE SO FAR?

SPATIAL DATABASE

- How do we route the international rivers network?



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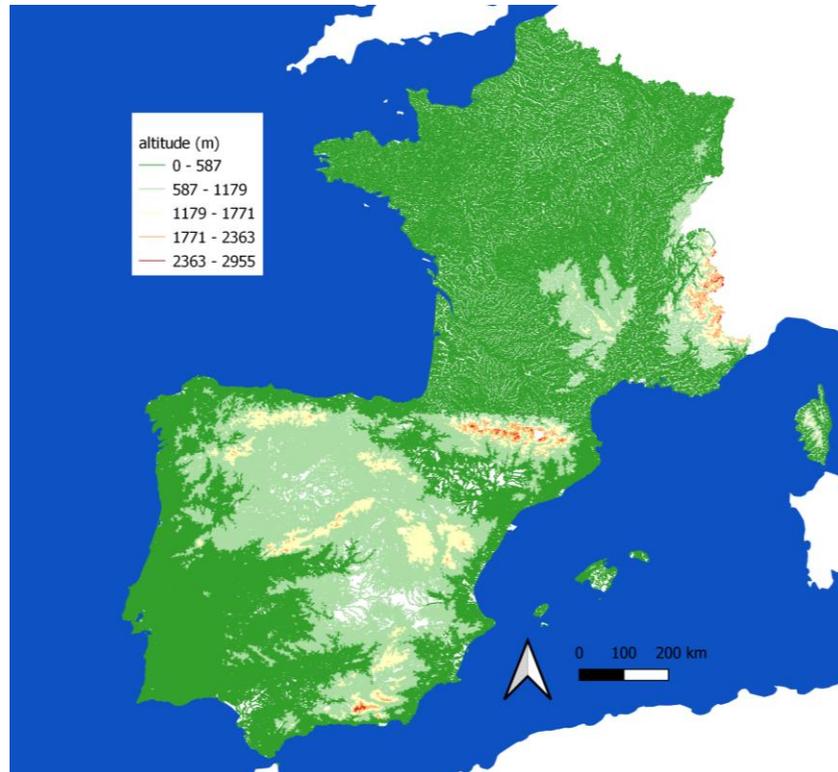
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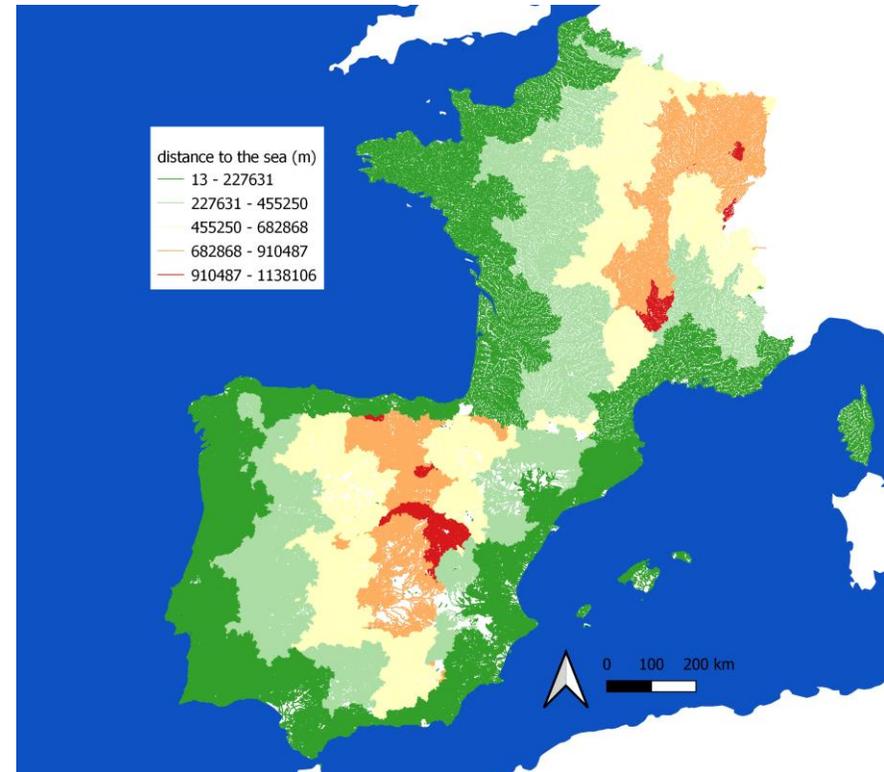
WHAT HAVE WE DONE SO FAR?

SPATIAL DATABASE

▪ Altitude (m)



▪ Distance to the sea (m)



WHAT HAVE WE DONE SO FAR?



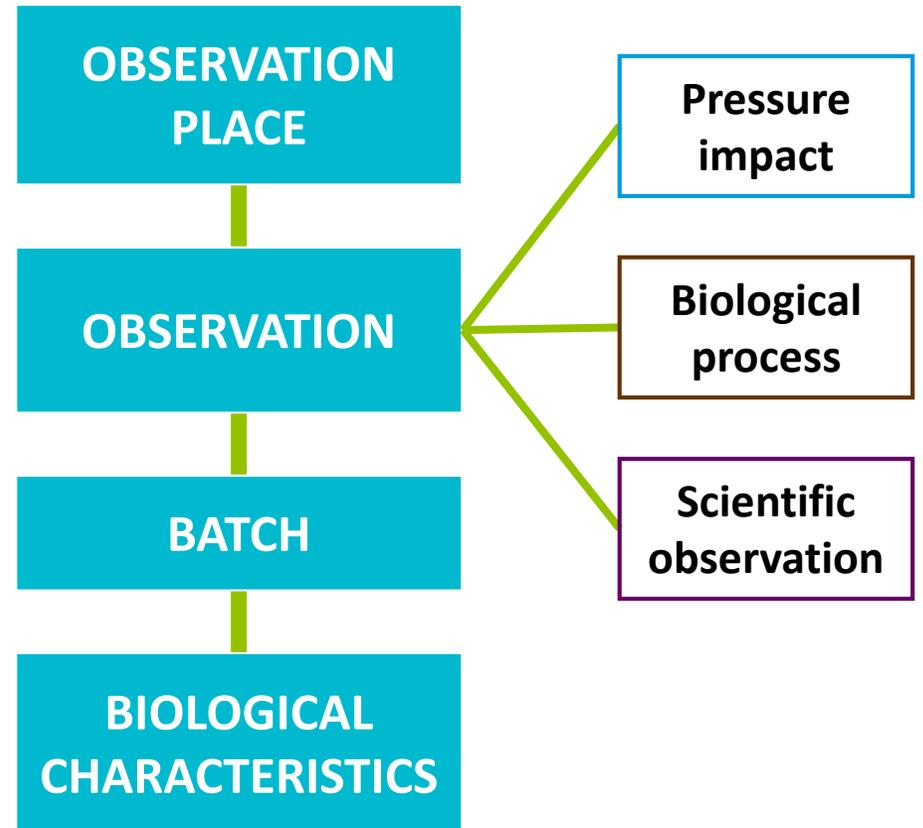
SUDOANG DATABASE

Eel database

Dams & Turbines

Database for GT6

- Inherited from: A **database structure for eel** (DBEEL) developed in the **POSE** project
(Walker A.M. *et al.*, 2011)
- Provides a cost-effective and practical solution to **eel data management and exchange**
- The **structure**:
 - Could be **adopted** at the **international level**
 - Is described in a “**Data Dictionary**”



WHAT HAVE WE DONE SO FAR?

EEL DATABASE

---> *Check / import missing values*

—> *Insertion*



Station



Operation

Pass



Batch



Fish

(length, silvering...)



ANBIOTEK (A. Aguirre)
Catalan Water Agency (L. Zamora)
FCUL/MARE (I. Domingos)
France
Environmental Management of Navarra (J. I. Elso)
Gipuzkoa Provincial Council (I. Azpiroz)
GT6 (I. Domingos)
MITECO (B. Muñóz)
The Gouvernment Agency of Asturias (L. García)
The Xunta of Galicia (F. Tilves and F. Hervella)
UCO (C. Delgado)
URA (E. Díaz)
Vaersa Generalitat Valenciana (N. Ferrando)

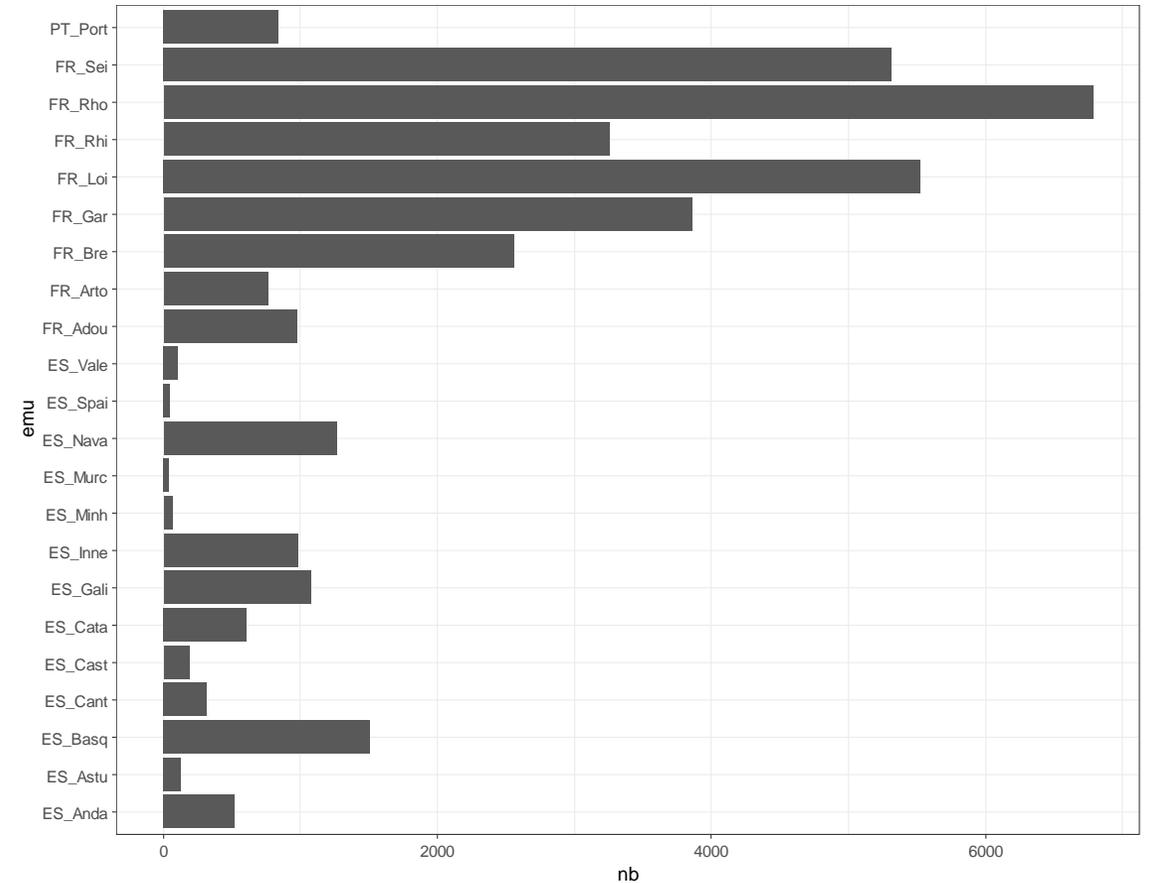
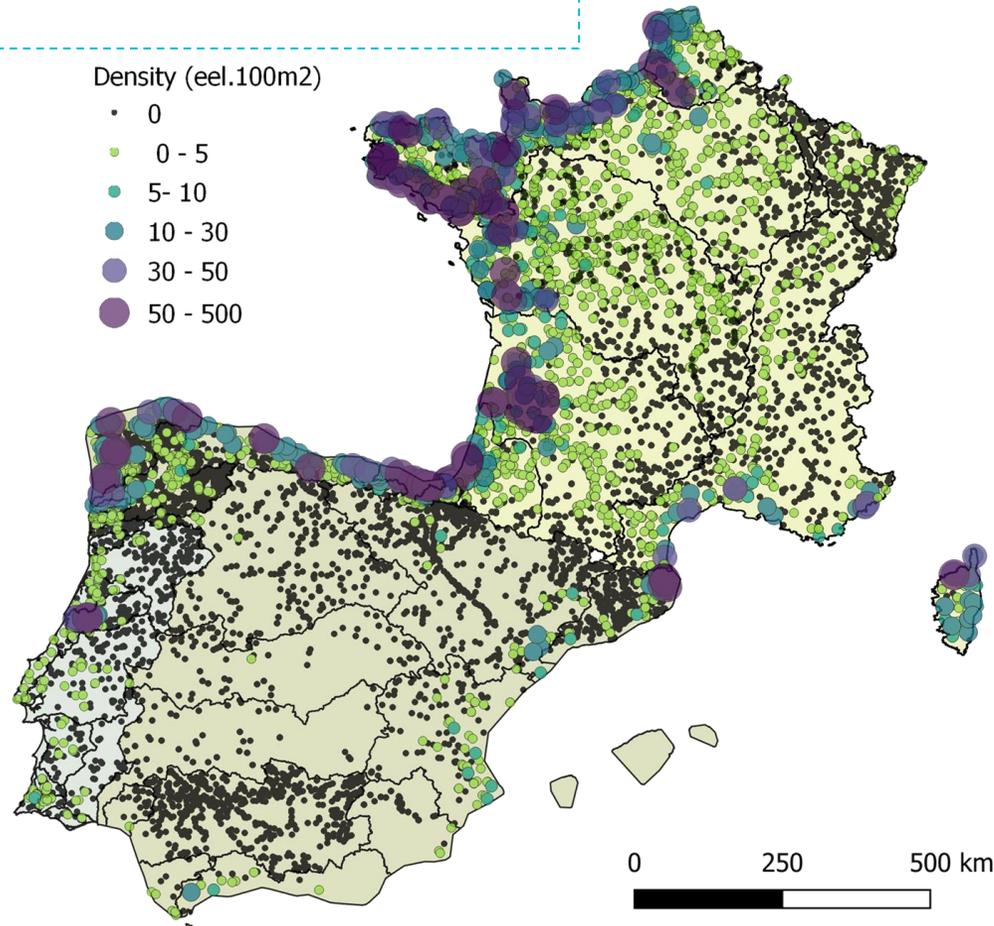


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WHAT HAVE WE DONE SO FAR?

EEL DATABASE



WHAT HAVE WE DONE SO FAR?

OBSTACLES DATABASE

OBSERVATION PLACE

OBSERVATION

Pressure impact

Height

Passability

Downstream problem

Fishway type

Presence eel pass (+ date)

Hydropower plant

Turbine

Bypass



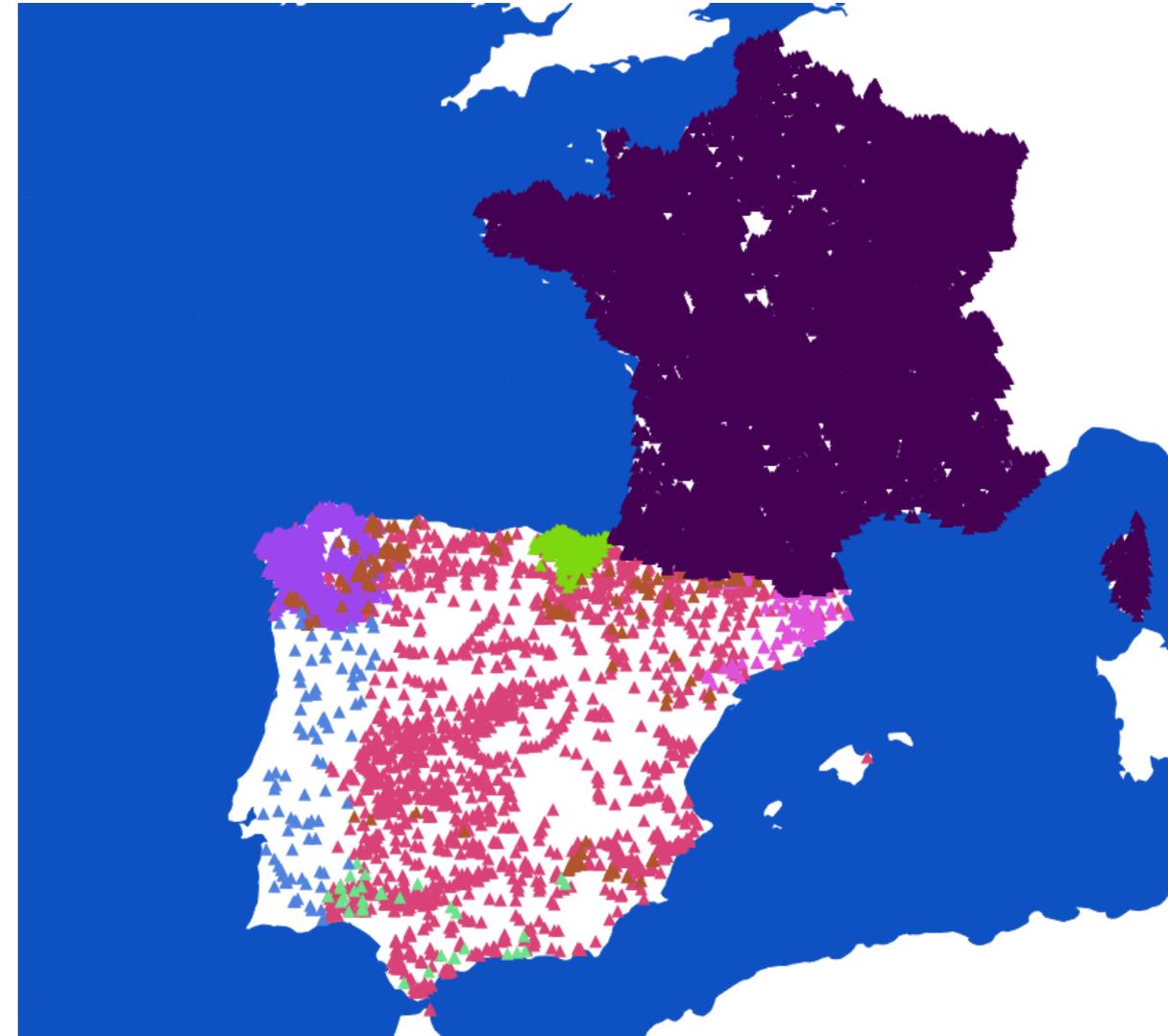
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WHAT HAVE WE DONE SO FAR?

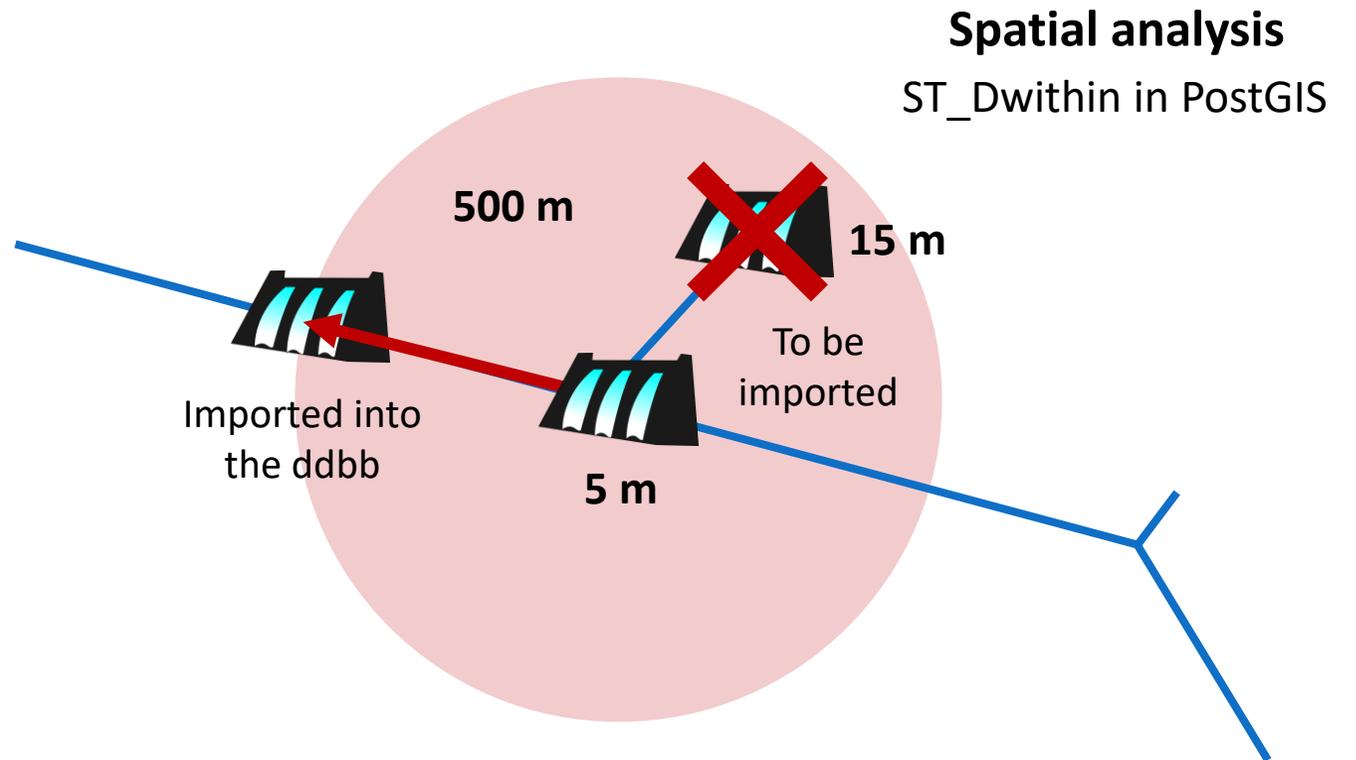
OBSTACLES DATABASE

	Data provider	Nº of dams
▲	ROE - AFB	98 325
▲	ACA - L. Zamora	144
▲	FCUL/MARE - I. Domingos	85
▲	MITECO updated - B. Muñóz	243
▲	MITECO - B. Muñóz	1 929
▲	The Xunta of Galicia - F. Hervella	1 983
▲	UCO - C. Delgado	32
▲	UP - C. Antunes	8
▲	URA - F. Silván	682



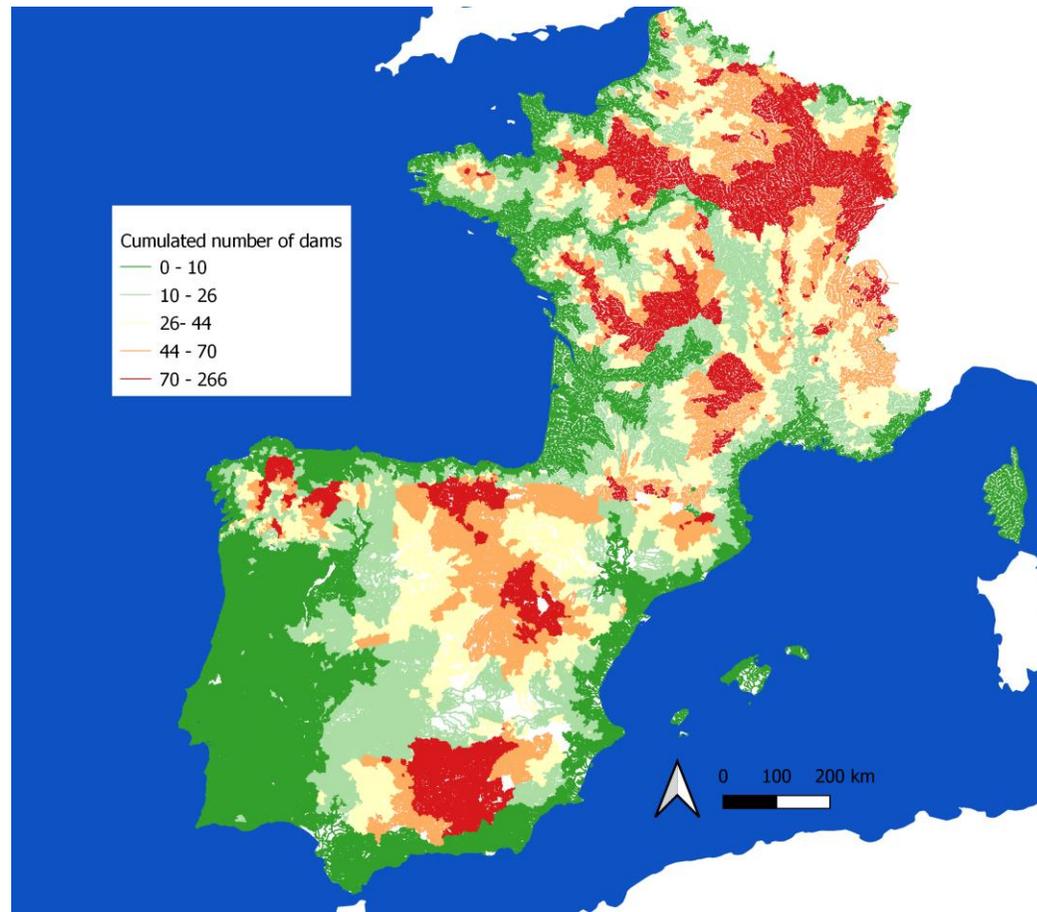
WHAT HAVE WE DONE SO FAR?

HOW TO REMOVE DUPLICATES RECORDS?

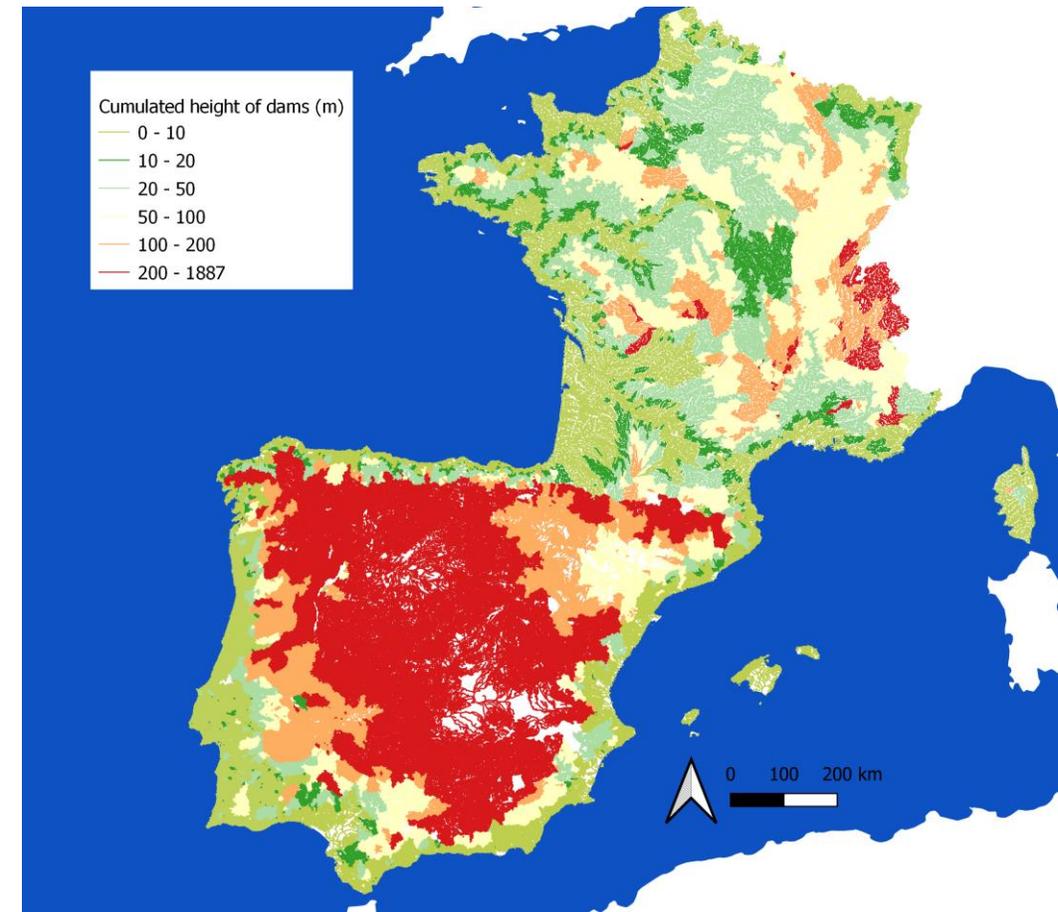


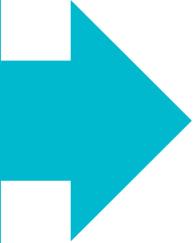
WHAT HAVE WE DONE SO FAR?

- The **cumulated number of dams** from the sea



- The **cumulated height of dams** from the sea





PLAN FOR FUTURE WORK

- Calculate **water surface**
- Integrate **names** (FR)
- Integrate **lakes** and **surface water** layers
- **Temperatures**
- Compute **shreeve ranks** for river width
- ...

Rivers

- Final **data integration**
- Extractions for **size model**
- Extractions for **silvering model**
- ...

Eel

- **France** => Scripts to integrate content of **3DB** => **dbeel**
- **Validate data** (shiny) / predict **missing values**
- Integrate **fishways** in cumulated data
- ...

Dams

Questions and comments...



trac

Integrated SCM & Project Management

<http://w3.eptb-vilaine.fr:8080/traceda/wiki>

Recherche

Connecté en tant qu'utilisateur maria | [Déconnexion](#) | [Préférences](#) | [Aide / Guide](#) | [À propos de Trac](#)

Wiki

Activité

Feuille de route

Explorateur de source

Voir les tickets

Nouveau ticket

Recherche

Admin.

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EDA2.0 SPAIN PORTUGAL

GT1 data

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- [inspire layer](#)
 - [import layers postgis](#)
- [SIBIC database](#)
- [Import to dbeel](#)

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[EDA2.0 Meuse](#)
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