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BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

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Tender announcement

Sukarrieta, 20 August 2020

1. OBJECT

The AZTI Foundation announces the opening of a tender procedure by public competition for the following service: "**Conceptualization and design of an interactive web atlas for the DiadES project (InterregAtlantic Programme for the European DiadES Project)**".

The AZTI Foundation will contract an agency to conceptualize and design an interactive web atlas (AWI) that will present changes in the distribution of diadromous fish and trends in ecosystem services relevant to climate change. The AWI should be created using Shiny, which will allow the results to be displayed on maps, including graphs and tables using simple controls such as sliders, dropdowns and text fields. The atlas should allow interaction with the results: view past, present and future maps under different scenarios. In addition, it should allow the creation of scenarios in which the effect of possible management measures on the distribution of diadromous species can be simulated. Specifically, the atlas will contain the following elements:

1. INTERACTIVE MAP OF DOCUMENTED PRESENCE/ABSENCE IN THE DIADROMOUS FISH BASIN

- **Time horizon:**
 - Maps of past presence (1851-1950)
 - Present day maps (1951-2010)
- **The species** for which maps will be made are: tarpon, saboga, sea lamprey, river lamprey, eel, salmon, sea trout, European sturgeon, red mullet, flounder and smelt.
- **Geographical coverage:** basins of the Atlantic Arc (from the south of the Iberian Peninsula to southern Scandinavia, including the United Kingdom and Ireland) and the Mediterranean.
- **Origin of the information for the maps:** These maps will be produced from the updated information in the EURODIAD database (version 4.0).





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2. INTERACTIVE MAPS OF DIADROMOUS FISH DISTRIBUTIONS (PROBABILITY OF OCCURRENCE)

- **Time horizon:**
 - Past distribution maps (1851-1950)
 - Present distribution maps (1951-2010)
 - Futures (2100) including two climate change scenarios (under RCP4.5 and 8.5)
- **The species:** will be done for the 11 species mentioned in point one.
- **Geographical coverage:** basins of the Atlantic Arc (from the south of the Iberian Peninsula to southern Scandinavia, including the United Kingdom and Ireland) and the Mediterranean.
- **Origin of the information for the maps:** The coordinators of the "development of new species distribution models" work package will provide the results of the models they have implemented using statistical work package R.

3. INTERACTIVE MAPS OF THE ECOSYSTEM SERVICES PROVIDED BY DIADROMOUS SPECIES (PROVISIONING, REGULATING AND CULTURAL)

- **Time horizon:**
 - Assessment maps of ecosystem services in the present time (1951-2010)
 - Assessment maps of ecosystem services in the future (2100) including two climate change scenarios (under RCP4.5 and 8.5) if available
- **The species:** will be done for the 11 species mentioned in point one.
- **Geographical coverage:** For nine case studies (Mondego, Minho, Ulla, Gipuzkoa rivers, Gironde-Garonne-Dordogne, Loire, BAWI Normandy-Brittany, Frome-Tamar-Taff and Barroe-Nore-Suir Waterford Bay)
- **Origin of the information for the maps:** The coordinator of the "ecosystem services assessment" work package will provide the economic assessment of ecosystem services.

4. INTERACTIVE MAPS OF BIOLOGICAL AND ECONOMIC SAMPLES

- **The results of the sampling will** be shown in the case studies.
- **The species to** be mapped will vary according to the case study; but may include all 11 species mentioned in point one.



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- **Geographical coverage:** For nine case studies (Mondego, Minho, Ulla, Gipuzkoa rivers, Gironde-Garonne-Dordogne, Loire, BAWI Normandy-Brittany, Frome-Tamar-Taff and Barroe-Nore-Suir Waterford Bay) and at sea (if available).
- **Origin of the information for the maps:** The coordinators of the work package "data collection on biological parameters" and "ecosystem services in case studies" will provide the files for the creation of maps

5. MAPS SHOWING THE RESULTS OF DIFFERENT MANAGEMENT SCENARIOS

- Maps will be shown with the changes in the distribution of diadromous species and in the ecosystem services they provide that would occur **under different management scenarios** agreed by the project partners (as an example, 2 or 3 controls to define the main influencing factors as anthropogenic mortalities in different areas)
- **The species to be mapped** will vary according to the case study; but may include up to 11 species mentioned in point one.
- **Geographical coverage:** If possible for all the Atlantic basins and at least for the nine case studies (Mondego, Minho, Ulla, Gipuzkoa rivers, Gironde- Garonne-Dordogne, Loire, BAWI Normandy-Brittany, Frome-Tamar-Taff and Barroe-Nore-Suir Waterford Bay)
- **Origin of the information for the maps:** The coordinators of the new species distribution model development work package and the coordinator of the ecosystem services assessment work package will provide the code they have developed using the R statistical package to the selected company.

Other requirements to be considered are:

- The AWI will have four versions: French Spanish, Portuguese and English. The translations will be provided to the selected agency by the contracting party.
- The final version of the AWI must be accompanied by a user manual in French, Spanish, Portuguese and English. The translations will be provided to the selected agency by the contracting party.
- Production of video tutorials on the use of IWA in French, Spanish, Portuguese and English. Subtitles in the different languages will be provided to the selected agency by the contracting party.
- The AWI must remain in operation until at least July 2027.
- Solutions will be deployed to ensure security and balanced access to the AWI.
- The contracted party will be the owner of the authorship or intellectual property of the developed products. The contracting party will also be



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recognized as the owner of the authorship or intellectual property of the developed products as long as it has provided relevant information, through this tender announcement or subsequently, for the technical development of the solution, system or product. However, the exploitation rights of the developed system and its derivatives belong solely and exclusively to the contracting party.

- The contracting party shall have the right to access the base code without any limitation and without additional financial compensation to the contracting party. Likewise, the contracting party will have the right to use the developed system (including the base code) without any limitation, being able to modify the developments generated by the contracted party and generate systems or derivative developments that will be the sole and exclusive property of the contracting party.
- The contracted party may not use or exploit the developed system for its internal use or to provide services to third parties or for any other exploitation. The contracted party may not generate systems derived from the developed system, nor improve it technically.
- The contracted party must guarantee the confidentiality of the information shared, of the contract subject to this tender and of any other information that could damage the interests of the contractor and of the system developed.
- The contracted party will attend face-to-face or online project meetings to discuss the AWI with DiadES partners.
- The Shiny's server will be hosted on one of DiadES' main partner's servers (INRAE).
- The contracting party must:
 - Conduct a satisfaction survey to evaluate the efficiency of the AWI for the end users.
 - Propose technical improvements based on the results of the survey with an associated cost evaluation.
 - Define a strategy for the annual update of the AWI with cost evaluation

2. LENGTH OF SERVICE

The service will be provided **from 1 October 2020 until 30 April 2022, once** the contract has been signed.



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The detailed schedule of services is as follows;

October 1, 2020	Start of contract
October 2020	Meeting of the company contracted with INRAE, AZTI and MARETEC/IST to define the requirements of the prototype
23-25 November 2020	Online or face-to-face presentation by the contracted company of possible IWA designs at the mid-term meeting in Lisbon (23-25 November 2020)
March 2021	Delivery of the first prototype of the AWI with false or real data
December 2021	Delivery of the final version of the DiadES AWI
February 2022	Proposal for future maintenance of the DiadES AWI
March 2022	Presentation of the AWI during the DiadES final conference at Bordeaux
April 2022	Final invoice and end of project

3. ECONOMIC TENDER

The maximum economic offer that will be accepted for this tender is **fifty thousand euros (50,000.00 euros)**, taxes not

included. Invoicing will be done as

follows:

- 20 % at the beginning (October 2020)
- 25 % after delivery of the first prototype (March 2021)
- 25 % after delivery of the final version of the AWI (December 2021)
- 30 % at the end after delivery for future maintenance of the AWI (April 2022)

4. ASSESSMENT CRITERIA FOR PROPOSALS

The proposals received will be assessed on the basis of the following criteria:

Economic offer	50%
Technical adjustment	35%
Improvements	5%
Delivery time	5%
CSR policies	5%



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5. PROPOSAL SUBMISSION

Bidders may submit their proposals to the attention of Irati Velez at the e-mail address ivelez@azti.es and at any of the AZTI centres, from the time of publication of this announcement on the AZTI Foundation website, **until 12 noon on 18 September 2020**.

Proposals can be submitted in Spanish and English.

Tenderers may contact the following address for further technical information:

AZTI

Atte. Estibaliz Díaz

Tel. 34 667 174 412

Mail: ediaz@azti.es

6. AWARD

Once the offers have been received on the date indicated for their presentation, within 15 working days, the result of the tender will be published on the AZTI Foundation website.

7. CONDITIONS OF EMPLOYMENT

- The selected entity, during the time that the service relationship with AZTI lasts, must comply with the regulations in force on labour matters, Social Security and Health and Safety at Work, being subject, if applicable, to carry out the coordination of business activities in accordance with RD 171/2004 according to the procedure and specifications established (available at <http://www.azti.es/es/coordinacion-de-actividades-empresariales/>)
- In any case, and independently of any other documentation, the selected entity must present, before the formalization of the contract, a certificate that proves that it is up to date with the fulfillment of its tax and social security obligations
- The selected entity must present the necessary documentation to formalize the contract within a period not exceeding 20 days from the award. Any additional questions may be consulted in the Internal Contracting Regulations published at www.azti.es



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- Tendering companies that present themselves must present a Bank Ownership Certificate issued by the entity, indicating the bank account number that we will use to pay for the services provided or materials purchased
- In addition to the technical and administrative conditions, AZTI will positively evaluate those suppliers who demonstrate that they maintain policies on Quality, Health and Safety, the Environment, Sustainable Mobility, as well as Corporate Social Responsibility.

The supplier shall include in its proposal those documents or records that allow verification of these policies (quality and environmental certificates, documentation relating to actions in matters of social responsibility, etc.)

8. GENERAL DATA PROTECTION REGULATION

Person in charge: Identity: FUNDACION AZTI - AZTI FUNDAZIOA - CIF: G48939508 Postal address: TXATXARRAMENDI UGARTEA Z/G SUKARRIETA (BIZKAIA) Telephone: 946574000 E-mail: lopd@azti.es

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9. TECHNICAL REQUIREMENTS

Applicants must demonstrate the following technical capabilities:

- Master in the development of Shiny Applications.
- Experience in map development using the Shiny application.
- Experience in Docker, Bash, JavaScript, HTML and CSS programming languages.
- Experience in geospatial data analysis (postgreSQL, PostGIS)
- Mastery of tools that ensure traceability, reproducibility and transfer of analyses (e.g. markdown, git/svn).
- Experience in web application security.
- Mastery of the programming language R.
- Spoken and written English.

It will be assessed:

- ✓ Knowledge of the other project languages (French, Portuguese and Spanish)