**Interreg NWE: Project Partner Information (Pre-application)**

Please fill in all the information sections below. For those sections providing multiple options, please highlight the option that best describes your organisation (e.g. type of partner).

[More information on the NUTS classifications here](https://ec.europa.eu/eurostat/web/nuts) (download excel file and filter by city)  
Sections marked by **\*** must be filled in both in English and French.

|  |  |
| --- | --- |
| **B.1.1 Partner identity** | **B.1.2 Partner main address** |
| Preferred abbreviated name: (max 15ch.)  NU  Name of the Organisation in original language:  Nantes Université  Name of the Organisation in English:  Nantes University  Department/unit/division\*: Laboratoire ISOMer, Laboratory ISOMer  ***Legal and financial information***  Type of partner (see Annex for examples): 7. *Higher education and research organisations*  Legal status: *Public*  VAT Number (or other identifier) *Please check table in Annex 2 for the List of Administrative Codes per country.*  *FR67130029747*  Partner Code for Payment (if available):  Other identifier description (if any)\*:  PIC number (if available): 888458988 | Country (NUTS 0): France  Region (NUTS 2): Pays de la Loire  Municipality (NUTS 3):  Street: 1 quai de Tourville BP 13522  House number:  Postal Code: 44000  City: Nantes  Website: https://univ-nantes.fr/  **Please fill in this information below if you will involve a department/unit with an address different from the one provided above:**  Country (NUTS 0): France  Region (NUTS 2):  Municipality (NUTS 3): Nantes  Street: 2 rue de la Houssinière  House number:  Postal Code: 44322  City: Nantes |
| **B.1.4 Legal representative** | **B.1.5 Contact person** | |
| Title: Présidente de Nantes Université  First name: Carine  Last name: BERNAULT | Title: Chargée de projets européens  First name: Charlotte  Last name: NEF  E-mail address: charlotte.nef@univ-nantes.fr  Telephone no. 00 33 2 53 00 80 80 | |
| **B.1.6 Partner motivation and contribution** | | |
| ***Which are the organisation’s thematic competences and experiences relevant for the project?\**** *max 1000 characters (including spaces).*  *If applicable, please briefly describe the organisation's thematic expertise related to the* ***topic*** *of the project, i.e.* ***water scarcity****. The organisation should also explain its experience in participating in and/or managing EU co-funded projects or other international projects related to the selected topic. Be specific, name related projects and describe how this experience will contribute to the project, avoiding a simple list of projects.*  *Finally, the organisation must also describe its expertise in the* ***targeted area*** *addressed by the project to justify its territorial relevance under this call for projects: The organisation must be able to contribute to actions in* ***rural areas****..*  Nantes University is a Higher Education Institution. Within the University, the laboratory ISOMer is recognised for its scientific expertise in visible near infrared remote sensing, focusing on intertidal zones dominated by seagrasses in South Brittany (France). The team has been participating in an EU H2020 project on seagrass remote sensing (CoastObs, 2017 – 2021, <https://coastobs.eu/>) followed by a project on the same topic led by Plymouth Marine Laboratory funded by the European Space Agency (BiCOME, 2021 – 2023 <https://www.bicome.info/>). It is currently involved in a CNES (French Spatial Agency) to map invasive macroalgae in Western Europe, combining drone and satellite mapping (Sentinel 2). It is coordinating the 2024-2029 Horizon Europe project REWRITE (Rewilding and Restoration of Intertidal Sediment Ecosystems for Carbon Sequestration, https://rewriteproject.eu/) for mapping intertidal seagrass mainly in Southern European sites (Spain and Portugal).  ***What is the role (contribution and main activities) of your organization in the project?\**** *max 3000 characters (including spaces). (--> To the extent possible at this stage, taking into account the preliminary lines of action for each WP as mentioned in the slide decks - specific objectives in the Stage 1 proposal).*  *Please describe the role of the partner in the project.: in which activities it will participate; its potential role as WP or Activity Leader or transversal role (eg communication leader, RAS referent, Carbon Footprint referent). Make sure it is connected with the partner’s competences and experiences and underline its contribution when tackling waste management or water scarcity in the targeted areas.*  *As you are asked to structure your project around 3 Work Packages (Study, Test, Transfer), please specify in which Work Package(s) the partner will be involved. The partner can be involved in some or all work packages depending on the partnership architecture and definition of roles.*  NU will bring the latest capabilities in NWE regarding seagrass remote sensing based on satellite and drone imagery data. NU has developed a seagrass mapping methodology based on a neural network model for classifying European intertidal vegetation. This tool is called “Intertidal Classification of Europe Categorising Reflectance of Emerged Areas of Marine vegetation with Sentinel-2” (ICE CREAMS v1.0, Davies et al. 2024) is a deep learning neural network model trained with intertidal vegetation from across the Atlantic coastline of Europe. ICE CREAMS provides intertidal seagrass classification accuracy of 82%. It can map seagrass meadow distribution and status across NWE as a transboundary tool using available Sentinel-2 imagery. This tool will be used for the large-scale pilots of the NL (Oosterschelde) and FR (Arcachon bay). For small-scale pilots (IE, BE, DE), a drone approach can be considered exploiting a specific algorithm recently developed for a multispectral drone sensor: the Drone Intertidal Substrats Classification Of Vegetation (DISCOV, Oiry et al. 2024) is a neural network classification model trained on a Micasense RedEdge-MX Dual sensor drone camera.  These smart data tools (ICE CREAMS and DISCOV) can provide accurate and scalable solutions for mapping seagrass meadows, which are critical for restoration. Reliable data from satellite and drone imagery will allow the REBORN partners to track changes in seagrass distribution over time, identify at-risk areas, and prioritise interventions. As transboundary tools, they will facilitate data sharing and joint management between countries in the NWE region. Satellites and drone images can be powerful communication tools for engaging the public and authorities by providing visual, data-rich, and easily interpretable information. This can foster greater public support for restoration initiatives. | | |

ANNEX 1 - Classification of type of partners and target groups

|  |  |  |
| --- | --- | --- |
| **Nr** | **Main categories** | **Examples** |
| 1 | Local public authority | Municipality, etc. |
| 2 | Regional public authority | Regional council, etc. |
| 3 | National public authority | Ministry, etc. |
| 4 | Sectoral agency | Local or regional development agency, environmental agency, energy agency, employment agency, tourism agency, etc. |
| 5 | Infrastructure and (public) service provider | Public transport, utility company (water supply, electricity supply, sewage, gas, waste collection,  etc.), airport, port, railway, etc. |
| 6 | Interest groups including NGOs | International organisation, trade union, foundation, charity, voluntary association, club,  etc. |
| 7 | Higher education and research | University faculty, college, research institution, RTD facility, research cluster, etc. |
| 8 | Education/training centre and school | primary, secondary, pre-school, vocational training, etc. |
| 9 | Enterprise | Any enterprise that does not fall under the SME category |
| 10 | SME | Micro-, small, medium sized enterprises |
| 11 | Business support organisation | Chamber of commerce, chamber of trade and crafts, business incubator or innovation centre, business clusters, etc. |
| 12 | EGTC (European Grouping of Territorial Cooperation) | Organisation with this legal entity |
| 13 | International organisation, EEIG (European Economic Interest Grouping) | Organisation under national law, under international law. organisation with the EEIG legal entity |
| 16 | Other |  |