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**Proposal form for Multi-domain Access to RI platforms**

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| ***1. Project Information*** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Project title:** | | | | |  | | | | | | | | | | | | | | | | | | | | | | |
| **Project acronym:**  (20 char. max) | | | | |  | | | | | | | | | | | | | | | | | | | | | | |
| **Integration in ENVRIplus ENV domains**(min. 2)**:** | | | | | Atmo  sphere | | | | | | Bio-Eco  sphere | | | | | Hydro /  Marine | | | | | | | | Solid  Earth | | | |
| **Selected multi-disciplinary RI platform:** | | | | | SMEAR II –  HYYTIÄLÄ | | | | | | | OSUR  (LA REUNION ISLAND) | | | | | | | | USRL Cyprus | | | | | | | |
| SOERE-  ACBB | | | | | | | INGV ETNA | | | | | | | | P2OA-Drones | | | | | | | |
| **Main contact of RI platform:** (see guidelines) | | | | |  | | | | | | | | | **Email:** | | |  | | | | | | | | | | |
| **Planned project dates:** | | | | | **Start date:** | | | | | *dd/mm/yyyy* | | | | | | | **End date:** | | | | | | | *dd/mm/yyyy* | | | |
| **Potential flexibility of project dates?**  (in case of unforeseen/unexpected events or logistic conflicts) | | | | | | | | | | | | Yes No  *… (give details if necessary) …* | | | | | | | | | | |
| ***2. Principal Investigator*** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **First and LAST name:** | | | |  | | | | | | | | | | | | | | | **Gender:** | | | | F | | | | M |
| **Home institution:** | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| **Postal address:** | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| **Country:** | | | |  | | | | | | | | | **Phone number** | | | | | | | | | + | | | | | |
| **E-mail:** | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| **User status:** | | | | EXP | | | | | PDOC | | | | | PGR | | | | | | TEC | | | | | UND | | |
| SME | | | | | OTHER: ……………………………………………………………………………. | | | | | | | | | | | | | | | | | | |
| ***3. Recent References*** *(both PI and key participants, min 5 references / if no references available please provide short CV)* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ***4. Project Participants***  *The role of each participant listed must be explained, see also section 5.* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Name** | **Institution** | | | | | **Email** | | | | | **Research status**  EXP/ PDOC/  PGR/ TEC/ UND/ SME/ OTHER | | | | **Gender**  *M/F* | | | **New user**  *Y/N* | | **Access start**  *dd/mm/yyyy* | | | **Access end**  *dd/mm/yyyy* | | | | **Access days** |
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| ***Total number of access days :*** | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
| ***5. Project Description***  *Include ample information on multi-domain objectives or how interdisciplinarity can be enhanced regarding the research team, expertise instrumentation, methodology, project results, impact, etc. The proposal should target integration of at least 2 different ENV domains. See guidelines for specific information required on each of the sub-sections.* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***Scientific objectives*** *(max 350 words)* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| * ***State-of-the-art / Novelty*** *(max 100-150 words)* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| * ***Technical description of work to be performed*** *(max 350 words)* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| * ***Relation to business & innovation*** *(max 50-100 words)* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| * ***Expected results and deliverables*** *(max 100 words)* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ***6. On-site requirements during access*** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **On-site support needed by user group at/by the infrastructure:**  (see guidelines for details) | | | **Administrative/**  **Logistic:** | | | | |  | | | | | | | | | | | | | | | | | | | |
| **Technological/ Scientific:** | | | | |  | | | | | | | | | | | | | | | | | | | |
| **Training:** | | | | |  | | | | | | | | | | | | | | | | | | | |
| **Other:** | | | | |  | | | | | | | | | | | | | | | | | | | |
| ***7. Data management***  *It is mandatory that data from measurements at ENVRIplus platforms will be provided for long-term storage and access, to make it available for use across domains and to foster cross-domain collaboration.* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***If additional instrument(s) are deployed during the project, please include a list of instruments you plan to bring to the site during the access:*** *(expand table if necessary)*   |  |  |  | | --- | --- | --- | | **Additional instrument(s)** | **Resulting variable(s)** | **Principle investigator**  **(Name, E-mail)** | |  |  |  | |  |  |  | |  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Do you agree to make available the measurement data resulting from your access to the corresponding ENV domain data centre?** (E.g., from other additional measurements at the site or from additional instrument(s) deployed during the access.)  Yes No. *If No, please justify:* …. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Please describe the data resulting from the access in more details:** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **6. Estimated project costs in EUR** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **a. Travel costs** | | **Travel costs per person (a1)** | | | | | *xxx,xx* | | | | **No of participants (a2)** | | |  | | | | | | | **Total travel costs (a1 x a2)** | | | | | *xxx,xx* | |
| **b. Daily subsistence costs** | | **Daily subsistence costs per person (b1)** | | | | | *xxx,xx* | | | | **No of access days (b2), cf. #3 above** | | |  | | | | | | | **Total subs. costs (b1 x b2)** | | | | | *xxx,xx* | |
| **c. Other costs (e.g., shipping)** | | **Provide details:** | | | | |  | | | | | | | | | | | | | | **Total other costs** | | | | | *xxx,xx* | |
| **d. Total costs** | | **(a+b+c)** | | | | | | | | | | | | | | | | | | | | | | | | *xxx,xx* | |
| **e. Co-financing** | | **Provide details, if applicable:** | | | | |  | | | | | | | | | | | | | | **Percentage requested to ENVRIplus (e)** | | | | | *x* ***%*** | |
| **f. Grand total** | | **(d x e)** | | | | | | | | | | | | | | | | | | | | | | | | ***xxx,xx*** | |
| **7. Comments** *(optional)* | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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**Proposal guidance notes**

Please respect the text limit indicated in each section.

1. **Project information**:

* A project title and acronym are mandatory. The length of the acronym should not exceed 20 characters.
* The multi-/ inter-disciplinary nature of a research project granted under the ENVRIplus access is mandatory. Thus, only projects integrating at least two or more environmental disciplines (i.e., atmosphere, biosphere, marine, solid Earth domain) will be considered. The cross-disciplinary approach must be addressed and furthermore detailed in the project description under (5).
* **Multi-domain RI platforms**: access is possible to the following observational sites:

HYYTIÄLÄ is a multi-disciplinary observing station located in background boreal forest site in Finland and having ICOS, ACTRIS, ANAEE components. It consists of a main site and additional sites for flux measurements in wetland and boreal lake environments. HYYTIÄLÄ is operational since 1995 and provides in-situ, photometric, radar and LIDAR instruments for measurements of aerosols, cloud condensation nuclei, trace gases, volatile organic compounds, ammonia, greenhouse gases, as well as instruments to measure forest growth, forest physiology and micrometeorology. Official RI contact / access provider: Tuukka Petäjä (tuukka.petaja@helsinki.fi).

LA REUNION is situated on la Réunion Island, France and is a multi-disciplinary research infrastructure located in the south-western Indian Ocean (French overseas department). It comprises 4 geophysical stations: i) the Maïdo observatory (2160 m asl) on the north-western part of the island for atmospheric observations, ii) the marine station on the western coast for observations of the reef zone, the coast line, and coastal aquifers, iii) the forest station on the southern coast for forest ecological observations, and iv) the hydrological station in a drainage basin over the northern coast. Official RI contact / access provider: Jean-Pierre Cammas (jean-pierre.cammas@univ-reunion.fr).

MT. ETNA INGV is a multi-disciplinary observatory, contributing to the EPOS-ESFRI project and managed by INGV. The main observatory is located on the flank of Mt. Etna and equipped with a broad range of instruments to physically and chemically characterize the structure of the volcano and its dynamics. The “Pizzi Deneri” Observatory located at 2800 m of altitude, near the active summit craters of the volcano is suitable for temporary installations. The observatory also supports fieldwork by providing computing facilities, 4WD vehicles and the use of the analytic laboratories. Official RI contact / access provider: Giuseppe Puglisi (giuseppe.puglisi@ingv.it).

SOERE-ACBB is a multidisciplinary set of platforms involving experiments initiated in 2005. As part of the SOERE-ACBB, the Lusignan platform is designed to characterize the trajectories of key variables such as carbon, phosphorus, potassium and nitrogen and the diversity of plants and organisms in the soil. The platform’s instrumentation continuously quantifies a broad range of physical, chemical and biological variables: climate forcing variables, physical conditions in soil, water fluxes and quality, carbon. Official RI contact / access provider: Abad Chabbi (abad.chabbi@lusignan.inra.fr).

USRL Cyprus is an Unmanned System Research Laboratory consisting of an instrumentation Lab (Cyprus Institute, Nicosia, for UAV development, sensor test and integration, and a runway at Orounda at 30km west of Nicosia for flight operation and field training. The facility includes a professional and highly experienced team of pilots and mechanical/electronic engineers to integrate miniature sensors in UAVs, fly them and train operators (external users). The large fleet of research aircraft comprise fixed and rotary wings offering various payload capacities (from 1 to 8-10kg) that are made available at no cost for external users. USRL operates routine (long-term) profiling for Atmospheric Chemistry monitoring coupled with 2 atmospheric stations (CAO at 500m asl and Troodos Observatory 1830m asl) and 1 remote sensing platform (Lidar, Limassol operated by CUT) and a large suite of atmospheric sensors to perform vertical profiling of gas/aerosols. The UAVs can be operated easily above sea and/or close to the ground with few restrictions. Official RI contact / access provider: Jean Sciare (j.sciare@cyi.ac.cy).

P2OA-Drones is a Pyrenean Platform for the Observation of the Atmosphere situated in an open and large grassland available area, in the central Pyrenees mountains, southwest France, approximately 150 km to the east of the North Atlantic coast and 210 km to the west of the Mediterranean Sea where warm temperate, fully humid climate prevails; it is integrated in a rural environment with unpolluted, surrounded by crops and forests. P2OA-Drones is favourable for balloon and UAV operations, or for any instrumental validation. It includes a runway and a hangar for flight preparation, and a team of technical and scientific staff permanently present at site for support. The site has a permanent clearance for tethered balloons operations up to 1000 m height and regular ZRT (restricted area) authorizations are obtained for UAVs flights. State-of-the-art equipment on the platform includes a UHF wind profiler (200m-3km), a VHF wind profiler (1.5km-16km), a 60 m instrumented tower (5 levels) with energy balance, ozone, water vapor, CO2 (60 m), weather station, total sky imager, tethered balloon and radiosounding station (subject to conditions), combustion chamber with analysers (CO, NOx, ozone, SO2), atmospheric electricity sensors (precipitation current, electrostatic field, lightnings, sprite camera), atmospheric chemistry. Official RI contact / access provider: Marie Lothon (dir.p2oa@aero.obs-mip.fr).

* Planned project dates: indicate the first and last day the infrastructure is accessed by any person of the research team. Specify furthermore if the project dates are flexible. For various reasons (unforeseen events, logistic conflicts at the infrastructure, or other), the project might be shifted in time and your potential flexibility should be known in order to optimize the access at the chosen platform. Please give appropriate explanations where needed.

1. **Principal Investigator:** the principal investigator (PI) is the person responsible for the project who acts as contact of the proposal for the research team involved in the planned project. A research team consists of one or a group of several researchers. Note that priority will be given to young researchers participating as project PI.

User status: please use any of the following categories: EXP (experienced, professional researcher, senior scientist), PDOC (Post-doctoral researcher), PGR (Post-graduate, student with 1st university degree), TEC (Technician), UND (Undergraduate), SME, OTHER (e.g., other private sector, public authority, education, etc.)

1. **Recent references**: List at least 5 relevant references demonstrating the relevant scientific research experience and profile of the PI and key team members (alternatively, a short CV for young researchers who have not yet published; in this case, the targeted research training objectives of the planned activities should be addressed in the project description, section 5).
2. **Project participants:**

* List all participants needed to carry out the project.
* Trans-national access criterion: access support is limited to participants whose home institution is not located in the same country as the RI platform (trans-nationality aspect).
* Research status: indicate using categories listed under (1) above
* New user: indicate if the user has visited the infrastructure before to carry out research.
* Indicate first and last day of access (dd/mm/yyyy) of the participant concerned. If a participant’s access is not continuous, please list periods on separate lines.
* Total access: indicate the participant’s duration of access in days (round to minimum half day). Include only the actual days of physical access to the platform and if relevant to the project. The access may include days for installation, tests, dismantling (max 20%). The total access in days is the sum of access days of all participants of the research team.

1. **Project description:** **Please limit the text to the recommended length!**

Only projects with true multi-/inter-disciplinary objectives and involving at least 2 different ENV domains) will be considered. Ensure that interdisciplinary is reflected in the scientific objectives, methodology, instrumentation, expertise of the participants involved, project results, impact, etc.

* **Scientific objectives**: Explain in concise and clear manner the scientific objectives of the planned activities; highlight the originality of the project within the multi-/inter-domain context. Identify the gaps the project is intended to fill, state your motivation and potential for using the specific RI platform and why the specific platform has been selected. Particular importance must be given to the multi-domain and inter-disciplinary integrity of the activities: describe the scientific impact and the potential to the project’s objectives across domain to acquire new knowledge and contribution to European excellence and competitiveness. The proposal needs to demonstrate how the project will benefit both research and ENVRIplus (<http://www.envriplus.eu/mission/>).
* **State**-**of-the-art / novelty**: Describe the state-of-the-art of research and current knowledge in the environmental domains. Will the project help to answer new scientific questions? Identify any open science questions and how the proposed work may help answering them. Describe the innovative nature, what is new and what has been done in the past for this site or other similar sites, or in relation to the objectives of the proposed activity.
* **Technical work plan**: Provide a succinct and accurate description of your plan for achieving the goals in the given time frame, the methods employed, the experimental set-up foreseen, planned time-table, and addition information about the role of each participant. Inorder to ensure efficient use of the infrastructure, the need for specific measurements and data at the platform should be described. The work plan should provided sufficient information needed for evaluating of the project and for verifying its feasibility and credibility.

Note, information on case specific site requirements during the access should be described in section 6, addition or complementary instrumentation should be listed in section 7. PIs are encouraged to involve the access provider in the planning stage, before submission, to ensure efficient use of the multi-disciplinary platform.

* **Relation to business & Innovation**: describe the innovation potential of the planned research project to contribute to technology development, to promote breakthrough innovation, to provide business with solutions for innovation, to collaborate or build partnerships with the private sector (not mandatory but could be significant added value).
* **Scientific outcome**: Describe the expected results and deliverables and how the outcome may fit with the overall goals of ENVRIplus. Specify the nature of the deliverable evidencing the research work: scientific report, manuscript, conference presentations, etc.

1. **On-site requirements:** Describe the needs to carry out the planned project.

* **On-site support needed by user group at the infrastructure**: Specify, e.g., which specific instruments will be needed? Which on-site services? Any requirements for aligning and integrating the access into the station operations? Which preparatory work/installation time is required? Is training needed for using the instruments? Do you want to participate in routine measurements? Is there need for space to deploy additional instrumentation, for data from permanent instruments, local transport, customs, travel, accommodations, specific authorizations, etc. Note that local/national procedures and safety regulation might apply when accessing the infrastructure.
* **Instruments brought by the user group to the infrastructure:** please provide sufficient details for planning and integration during the access.

1. **Data management:** ENVRIplus aims at collecting and curating data from measurements at their platforms in the corresponding environmental domain data centres associated with the platform for long-term storage and access and at making it available to the ENV communities. ENVRIplus supports an open access data policy. For data management, information about additional measurements should, therefore, be indicated. Further, please describe the data resulting from the access in more details. In particular, how are you planning to process and distribute the data? How will you ensure the combine and exploit the multi-/interdisciplinary data?
2. **Estimated project costs:** List your estimated costs for all participants.

* The amount of financial support to travel expenses will be decided on a case-by-case basis after proposal evaluation, and might also depend on the number of incoming proposals.
* Independent of the size of the research group, financial support is limited to the proposed maximum financial support but will require justification of eligible costs.
* Eligible costs:
  + - Travel costs: estimated eligible costs for travel from and to the infrastructure. A maximum flat rate for travel costs might apply. Only those costs are eligible for which proof can be provided (e.g., copy of travel ticket). Short travels on-site, e.g., bus, train, taxi, etc. are not reimbursable. Costs related to the use of personal car or rental car are not eligible.
    - Subsistence costs: the subsistence costs are the estimated eligible costs in relation to the daily expenses of the participant(s) during the visit at the infrastructure. It should be calculated based on the actual daily expenses for accommodation and meals. A maximum daily flat rate might apply.
    - Other costs (shipping, transport, insurance etc.) will only be reimbursed in exceptional cases, please specify. Shipping costs are only eligible if shipping is provided by a carrier (expenses for the use of rental car, personal car or business vehicle will not be covered). Any other costs must be justified and should be kept to a minimum. Any costs related to purchase of equipment or capital investment are not eligible.
    - Grand total: specify the percentage requested to calculate the total estimated costs for reimbursement by ENVRIplus. In case the project is co-financed, please provide sufficient details about the added financial value of ENVRIplus and that the co-financing is secured.
* Details for reimbursement of the costs will be provided after proposal acceptance.

Before proposal submission, we strongly invite the PI to contact the access provider in charge of the multi-disciplinary platform for proposal planning and preparation. The 2-stage evaluation includes a first pre-screening of the proposal for scientific and technical feasibility by the access provider. **In no case, any preliminary contacts with the access provider will be considered as approval of the scientific and technical feasibility of the proposals. An independent review panel will decide on the supported projects during the 2nd stage of the evaluation process.**