REALISTIC (GA Nº 101086690)

Deliverable Nº: D5.2

Title: Data management plan

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Project acronym	REALISTIC
Project full name	centRe of Excellence in AerosoL remote rensIng technology and Science in
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Project abstract:

The overarching goal of REALISTIC is to develop a Centre of Excellence in aerosol remote sensing technology and science in the Indian Ocean, through the creation of a Chair, with La Réunion, a European Outermost region, as a strategic pivot point of the European Research Area. REALISTIC aims at attracting and maintaining a high-profile researcher (ERA Chair holder) to lead a high profile supporting team with excellent research and technical capabilities in the aerosol remote sensing domain. In particular, specific applications and research endeavours will be conducted in the area of quantifying the impact of wildfire and volcanic emissions on the tropical atmosphere composition and on the Earth-Atmosphere radiative balance. REALISTIC is designed to catalyse and maximise the impact of the ERA Chair in order to raise the research, technical and innovation excellence of the Laboratory of Atmosphere and Cyclones (LACy), the Observatory of Atmospheric Physics of La Réunion (OPAR), the Observatory of the Universe Sciences of La Réunion (OSU-R), and the University of La Réunion (UR) to a level that makes them unique and essential references in the local R&I ecosystem, at the Indian Ocean-level as well as to the overall international community, and thus filling the R&I gap on atmospheric systems. REALISTIC will contribute to better integrate UR within the European Research Area, and better align with European standards and priorities.

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1. DATA SUMMARY

What is the purpose of the data generation or re-use and its relation to the objectives of the project?

The project will generate and collect a range of data types. Each data type will use an internationally accepted file format for its effective sharing, reuse and preservation. All data will be accompanied by appropriate data documentation which will include the names, labels, descriptions, the explanations of any codes or classification schemes, as well as descriptions of derived data explaining how the data was processed, and what analyses or algorithms were used.

What types and formats of data will the project generate or re-use?

The project will generate or re-use:

- Observation data: such data will come from instruments being part of national/international observation networks, and therefore will comply with metadata and formatting required by the networks.
- Personal data: CV, commitment letters, etc., will be in .pdf format.

Will you re-use any existing data and what will you re-use it for?

Yes, data available at OPAR, and at AERIS, will be used for climatological analysis and/or processes studies.

What is the origin/provenance of the data, either generated or re-used?

Used datasets will come from Open Data observations initiatives, especially OPAR observations and AERIS datasets. Personal data will come from people applying to job offers posted in the framework of REALISTIC.

What is the expected size of the data that you intend to generate or re-use? Around 10To.

To whom might your data be useful ('data utility'), outside your project? The whole scientific community dealing with the better understanding of the atmospheric physico-chemical processes.

2. FAIR DATA

Making data findable, including provisions for metadata

All the data will be referenced through a standard catalog application: AERIS (the French atmospheric data and service center). A DOI will be apply to each dataset.

Making data accessible

All the data in AERIS (except raw data) are accessible with a simple free registration.

Making data interoperable

In order to make the data interoperable, data stored in public repositories will include description of the equipment, conditions and settings used to acquired data as well as a comprehensive explanation and description on of the experimental procedures followed to obtain data, whenever it applies. In order to be able to reproduce inverted data, publications might include additional supporting information with complementary data that help verifying the results presented for the sake of interoperability in order to make the data presented fully reproducible by algorithms other than the ones used in the project.

The main output format will be the NetCDF, with the CF convention and if possible, the ACCD convention. The choice of this type of self-documented file and of these international conventions allow to make these data interoperable.

Increase data re-use (through clarifying licenses)

Data presented in the public repositories might be used by third parties for research purposes as state-of art, in order to avoid duplication of efforts and as the basis for future investigations and research on the topic.

With regard to quality assurance, both partners participating in this project are top-level and with great reputation and trajectory within their respective fields what assures the reliability and quality of their findings and results. In addition, the strict procedures that researchers must follow in order to be able to publish results in a peer-review journal guarantees their quality.

3. OTHER RESEARCH OUTPUTS

Will there be other research outputs that may be generated or re-used throughout their project?



Funded by the European Union



No.

Specify which of the questions pertaining to FAIR data, can apply to the management of other research outputs.

4. ALLOCATION OF RESOURCES

What will the costs be for making data or other research outputs FAIR in your project? No cost.

How will these be covered?

Who will be responsible for data management in your project? The hired Project Manager will be responsible for data management.

How will long term preservation be ensured? Data will be safely stored in trusted repositories for long term preservation and curation.

5. DATA SECURITY

What provisions are or will be in place for data security (including data recovery as well as secure storage/archiving and transfer of sensitive data)? Data will be held on secure servers either at local or Cloud level (or both).

Will the data be safely stored in trusted repositories for long term preservation and curation? Yes.

6. ETHICS

Are there, or could there be, any ethics or legal issues that can have an impact on data sharing? No.

7. OTHER ISSUES

Do you, or will you, make use of other national/funder/sectorial/departmental procedures for data management? No.



