Data management plan

Project Exoplanet Finder #798909 under Horizon 2020-MSCA-IF-2017

Version number	Date	Description of the modification (chapter)	Author	Status of the document
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1. General information

Project Details	Project name	Blazing the Trail: Enabling Exoplanet Imaging in the Habitable Zone with the European Extremely Large Telescope
	Project number	798909
	Project acronym	Exoplanet Finder
	Funder	Horizon 2020-MSCA-IF-2017
	Grant agreement number	798909
	Project coordinator and partners	Doris Neumann
	Contact (name, firstname, email, ORCID, affiliation)	Baudoz, Pierre (pierre.baudoz@obspm.fr, LESIA, Observatoire de Paris, France
	Project start date	1 June 2018
	Project duration	24 months
	Abstract	Data types: Experimental data (FITS files) Origin of the data: R&D facility in situ at LESIA Data utility: Possible use for comparison with results of other R&D facility Re-using or not any existing data?: Yes, images already produced by the instrument at LESIA is used to perform experiments proposed.

2. Research data objects

Data Collection	Research data objects (what data will be collected or created)	File format: FITS file. Volume: Several giga to tera bytes. Content: Coronagraphic point spread functions
	How will the data be collected or created	Experimental data is produced in the laboratory in the form of images (FITS file), saved in specific folders with image sequential counts. An internal post-processing code already exists that align the images and dark subtract them.
	Instruments used	High contrast imaging R&D bench called THD2 (http://thd-bench.lesia.obspm.fr/thd2/). The instrument has several optical elements, 3 deformable mirrors and 2 scientific cameras.
	Data description	Folders are saved in format: YYYYMMDD Data files are saved in format: Name of the experiment_YYYMMDD_HHMMmSSs_Image_count.fits For example: Experiment_20190707_150m12s_Image_0.fits
	Data property	PI and team members property for all the data. Processed data used for publication are made available to public use upon request.
	Re-use of existing data?	Possible for public data.
	General data policy	Policy of funders or institutions
Documentation	Documentation	A closed wiki is already maintained by the PI of the instrument used in this proposal. The wiki policy is followed and files are uploaded after experiments for the secondary users (team members) to follow the progress and results. Piblic documentation http://thd-bench.lesia.obspm.fr/thd2/.
	Scientific publications	See publication list in http://thd-bench.lesia.obspm.fr/thd2/

3. Making a FAIR project

a. Making data findable

Metadata	Standards and format	No metadata for R&D data
	Persistent identifier	None

b. Making data accessible

Open access	General policy	Our project is R&D. Most of the data acquired is for testing the feasibility of new concepts proposed in this proposal. As of now, it's not clear which R&D data would be useful for the public. However, the material that will be used in future publications (within 1.5 years) will be made available to the public upon request to the PI instrument (P. Baudoz).
	Accessibility of the data and metadata	Data related to publication available upon request
	Access procedures	PI will provide a link to download the data

c. Making data interoperable

Making data interoperable	Interoperable standards and formats Metadata vocabularies Methods Interoperability between disciplines?	Not available for R&D Data

d. Increase data re-use

Data sharing	Sharing the data	Data are shared only among the team members.
		Data that will be used in publications will be made available to the public. Any use to these data will need to explicitly refer to the original publication and cite the THD2 bench in the acknowledgement.
Data re-use	License	None
	Length of time for re-use	Unlimited

4. Responsibilities and resources

Responsible for data management	PI of the instrument : Pierre BAUDOZ, LESIA, Observatoire de Paris Meudon, France
Resources	No dedicated resources available (small amount of data)

5. Archiving and preservation

Selection	Which data are of long-term value and should be retained, shared, and/or preserved?	Almost all the data acquired is saved and kept for at least 4 years.
Storage and backup	How will the data be stored and backed up during the research?	During the experiment, the data is stored on the computer hardware. Data is processed using the post-processed algorithms that already exists on the computer. Then via a secured connection, data is uploaded to the researcher personal computer and its back up disk. Hence, three sets of same data exist: one on the computer of the instrument, one on the laptop and the third one on the external hard disk that back up the laptop.
Data security	Access and security	Data are not highly sensitive. Typical security measures are taken to ensure the computer and the laptop are safe.

6. Ethical aspects

Ethics and Legal Compliance	How will the ethical issues managed	No sensitive data
	Identification of sensitive data	No sensitive data
	Copyright and Intellectual Property Rights issues	Data are owned by the researcher that performed the test and/or the data processing and by the PI instrument. Public data can only by used for research purposes.