



## EPN 2024 RI

### EUROPLANET 2024 Research Infrastructure

H2020-INFRAIA-2019-1

Europlanet 2024 RI has received funding from the European Union's Horizon 2020 Research and Innovation Programme under

Grant agreement no: 871149

### Deliverable D1.2

## 1st Evaluated proposals and approved access to TA Facilities

Due date of deliverable: 30/06/2020  
 Actual submission date: 28/07/2020  
 Nature:<sup>1</sup> R  
 Dissemination level<sup>2</sup> PU  
 Work package: WP1  
 Lead beneficiary: ESF  
 Contributing beneficiaries: VU  
 Document status: Final

Start date of project: 01 February 2020. Duration: 48 months  
 Project Co-ordinator: Prof Nigel Mason, University of Kent

---

#### Executive Summary / Abstract:

This deliverable provides the list of the 41 eligible successful applications submitted to the first Transnational Access Call of the Europlanet 2024 RI project.

1. **Nature:** R = Report, P = Prototype, D = Demonstrator, O = Other

2. **Dissemination level:**

PU	PP	RE	CO
Public	Restricted to other programme participants (including the Commission Service)	Restricted to a group specified by the consortium (including the Commission Services)	Confidential, only for members of the consortium (excluding the Commission Services)

## 1 Evaluation of the submitted proposals

The ESF organised the assessment of the 80 applications submitted for first Transnational Access Call. Among these:

- 6 applications were rejected by the TA site operators as not technically feasible
- 1 application was rejected as it was not anonymous
- 73 application were assessed by 2 different reviewers, distributed in 3 thematic review panels. The review panels then proposed a ranked list of proposals and recommended to fund the first 40 proposals.

The ESF communicated the ranked list of proposals to the VU TA office, who decided to fund the 40 proposals recommended by the review panels.

Based on the feedback from the peer review process, the PMC decided that further characterisation of the Botswana field site was warranted to provide future applicants with additional background information of the regional variation at the field site. An additional TA visit was approved to characterise the NW region of the Makgadikgadi Salt Pans (Nxai Pan) 20-EPN-028.

Subsequently, the VU TA office has:

- Sent out the notification to the successful candidates and to the TA site hosts.
- Requested details of the planned visit dates once finalised.
- Notified the successful applications that they will be contacted prior to the visit to discuss possible outreach activities associated or following the TA visit.
- Contacted the unsuccessful applicants with a summary of the reviews.

## 2 List of successful eligible applications

The list of the 41 successful eligible applications submitted to the first Transnational Access Call of the Europlanet 2024 RI project is indicated below:

Project Number	Project Title	TA	Primary Site	Secondary Site
20-EPN-030	Identification of metabolic activity in millennial old cave ice	2	Stable/Clumped Isotopes Laboratory-ISIL (HU)	N/A
20-EPN-064	Impact induced polypeptide synthesis on low-temperature astrochemical ices containing amino acids	2	Light Gas Gun Laboratory (UK)	N/A
20-EPN-005	Cosmic-ray-induced chemistry in pure ices	2	Ice Chamber for Astrophysics/Astrochemistry-ICA (HU)	N/A

20-EPN-038	The strange behaviour of highly viscous mud in the low pressure environment: why the mixture changes its volume?	2	Mars Chamber Facility (UK)	N/A
20-EPN-046	iVOL – Impact-induced volatile release from calcium sulphates anhydrite and gypsum re-investigated in an open system by two-stage light-gas gun impact experiments	2	Light Gas Gun Laboratory (UK)	N/A
20-EPN-010	Isotopic characterization of halite speleothems from salt caves in Atacama Desert: An unexplored subsurface Mars analogue	2	NanoSIMS 50L-NSIMS) (UK)	N/A
20-EPN-054	Understanding large aeolian ripples on Mars through wind tunnel experiments	2	Planetary Environment Facilities-PEF (DK)	N/A
20-EPN-066	Experimental investigation of CO <sub>2</sub> frost condensation and sublimation through sediments in Martian conditions: implications for martian gullies and jets	2	Mars Chamber Facility (UK)	N/A
20-EPN-031	Investigating volatiles in the early Solar System through analysis of halogens in chondrules	2	Ion probe facility-IPF (FR)	N/A
20-EPN-008	Characterization of a new type of extraterrestrial material through the study of Cumulate Porphyritic Olivine cosmic spherules.	2	NanoSIMS 50L-NSIMS) (UK)	N/A

20-EPN-060	Characterize UV-Optical emission by conducting electron impact reactions on molecules relevant to the atmospheres of small bodies in our solar system	2	Electron induced fluorescence laboratory-EIFL (SK)	N/A
20-EPN-058	Assessment of the biomarker detection capacity of the ExoMars and Mars2020 spectroscopic tools at the Dalol/Danakil Depression analog site	1	Danakil Depression (ET)	N/A
20-EPN-027	Characterization of the response of an Optical Particle Counter in a simulated Martian environment	2	Planetary Environment Facilities-PEF (DK)	N/A
20-EPN-078	Abrasion test to understand aeolian grain surface evolution on Mars versus Earth – suggestions for ExoMars rover mission	2	Planetary Environment Facilities-PEF (DK)	Danakil Depression (ET)
20-EPN-043	A Systematic Study of Sulfur Ion Radiolysis of Simple Oxide Ices	2	Ice Chamber for Astrophysics/Astrochemistry-ICA (HU)	Ion probe facility-IPF (FR)
20-EPN-034	Calibration of the Al-in-olivine thermometer: Insight into the thermal history of type II chondrules	2	Ion probe facility-IPF (FR)	N/A
20-EPN-050	<sup>26</sup> Aluminum- <sup>26</sup> Magnesium systematics of chondrules and clasts in unequilibrated ordinary chondrites	2	Ion probe facility-IPF (FR)	N/A
20-EPN-007	Investigating mantle heterogeneity through high spatial resolution mineral Pb and Nd isotopic analyses	2	Geology and Geochemistry radiogenic and non-traditional stable Isotope Facility-GGIF (NL)	N/A

20-EPN-003	Production and early preservation of biosignatures in glaciovolcanic lakes: a biogeochemical analogue for Mars	1	Iceland Field Sites (IS)	N/A
20-EPN-042	Reflectance spectroscopy of ammonium-bearing minerals: a tool to improve the knowledge of the surface of icy planetary bodies	2	Cold Surfaces spectroscopy-CSS (FR)	N/A
20-EPN-029	VIS-NIR reflectance analysis of analogue mixtures representative of young Haulani crater on Ceres to assess the mineralogical composition of bright areas	2	Cold Surfaces spectroscopy-CSS (FR)	N/A
20-EPN-061	CO <sub>2</sub> ice crystals formation under conditions in the martian polar regions: influence of substrate properties and temperature gradient	2	Planetary Environment Facilities-PEF (DK)	N/A
20-EPN-039	Deep carbon- and water-rich (C-O-H) fluids record associated geodynamic processes and impacts on planetary continental lithospheres through time.	2	Geology and Geochemistry radiogenic and non-traditional stable Isotope Facility-GGIF (NL)	N/A
20-EPN-004	Spectroscopy of shock processed planetary analogues mimicking impact events on the surface of Mercury	2	Planetary Spectroscopy Laboratory -PSL (DE)	N/A

20-EPN-024	Spectral investigation of the Makgadikgadi Salt Pans as planetary analog for ancient fluvio-lacustrine environments on Mars	1	Makgadikgadi Salt Pans (BW)	N/A
20-EPN-048	Effect of disperse grain size distributions on the aeolian remobilisation of volcanic ash	2	Planetary Environment Facilities-PEF (DK)	Noble Gas Isotope facility-INGIL (HU)
20-EPN-069	Measurements of local properties of the size distribution function of suspended dust in Martian-like environmental conditions	2	Planetary Environment Facilities-PEF (DK)	N/A
20-EPN-016	Formation and fate of methyl formate isomers in space	2	Ice Chamber for Astrophysics/Astrochemistry-ICA (HU)	N/A
20-EPN-013	Isotope chemostratigraphy of 3.3–3.5 Ga microbial environments: implications for early habitability on terrestrial planets	2	Geology and Geochemistry radiogenic and non-traditional stable Isotope Facility-GGIF (NL)	N/A
20-EPN-053	Investigation of the electrical properties of volcanic ash	2	Planetary Environment Facilities-PEF (DK)	N/A
20-EPN-036	Penetrometry of complex planetary surfaces	2	Planetary Ices Laboratory (UK)	N/A
20-EPN-080	Structural organization and complexity of the Antarctic cryptoendolithic communities.	2	Petrology-Mineralogy Characterisation Facility-PMCF (UK)	N/A
20-EPN-025	Energetic ion processing of polycyclic aromatic hydrocarbons: pure and water mixed pyrene icy samples	2	Ice Chamber for Astrophysics/Astrochemistry-ICA (HU)	N/A

20-EPN-083	Beyond Antarctica, a survey on detection of life in endolithic fossils supporting future space exploration missions.	2	Center for Microbial Life Detection (AT)	N/A
20-EPN-017	LITRASV – Life in TRAvertine-Sinter Veins: a possible key to recognize extra-terrestrial life in tectonically-driven depositional systems.	1	Iceland Field Sites (IS)	N/A
20-EPN-032	Radioresistance of aromatic complex organic molecules: nucleobases	2	Ice Chamber for Astrophysics/Astrochemistry-ICA (HU)	N/A
20-EPN-049	Millimetre-wave polarimetry of space relevant ices exposed to energetic ions	2	Ice Chamber for Astrophysics/Astrochemistry-ICA (HU)	N/A
20-EPN-015	Deciphering fluidization of mass flows by metastable volatiles on extra-terrestrial bodies	2	Mars Chamber Facility (UK)	N/A
20-EPN-084	Converting one amino acid to the other containing sulfur via ion irradiation: Implications to the chemical evolution on Europa surface ices	2	Ice Chamber for Astrophysics/Astrochemistry-ICA (HU)	N/A
20-EPN-014	Ancient oceanic crusts as tracers of terrestrial mantle evolution: Ages and mantle source fingerprints from centimetric mantle eclogite xenoliths	2	Geology and Geochemistry radiogenic and non-traditional stable Isotope Facility-GGIF (NL)	N/A

20-EPN-028	Microbial diversity in the hypersaline environment of Nxai Pan (Makgadikgadi pans), Botswana: implications for search for life on Mars. Part 1_Field campaign (funded by the Europlanet 2024 RI to better characterise the field site for future proposals)	1	Makgadikgadi Salt Pans (BW)	N/A
------------	---	---	-----------------------------	-----