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Deliverable D1.9

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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)

Executive Summary / Abstract:

This deliverable provides the list of the 71 successful applications submitted to the 3rd Transnational Access Call of the Europlanet 2024 RI project.

Contents

1 Evaluation of the submitted proposals

The ESF organised the assessment of the 114 applications submitted for first Transnational Access Call. Among these:

- 2 applications were declared ineligible as they were not anonymous.
- 3 applications were rejected by the TA site operators as not technically feasible.
- 1 application was not evaluated as it focused on outreach and did not include a scientific proposal and could not be assessed by a scientific review panel.
- 108 applications were assessed by 2 different reviewers, distributed in 4 thematic review panels. The review panels then proposed a ranked list of proposals and recommended to fund the first 67 proposals.

The ESF communicated the ranked list of proposals to the VUA TA office, along with the consensus report for each proposal. Based on the review panels' evaluations, the PMC decided on the cut off score and agreed to fund 71 proposals.
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 and communicated the consensus report summarizing the reviews.
- Contacted the unsuccessful applicants with the consensus report summarizing the reviews.

2 List of successful eligible applications

The list of the 71 successful applications submitted to the first Transnational Access Call of the Europlanet 2024 RI project is indicated below:

Project Number	Project Title	TA	Primary Site
22-EPN3-048	Evaluation of the initial 92Nb abundance in the inner Solar System	TA2 DPLF	Geo- and Cosmochemistry Isotope Facility, CH
22-EPN3-026	Life detection and biosignature preservation studies via lipid biomarker analysis in Makgadikgadi Salt Pans, an evaporitic Mars analogue in Botswana.	TA1 PFA	Makgadikgadi Salt Pans, BW
22-EPN3-091	Evolution under radiation of organics pertaining to Europa	TA2 DPLF	Ice Chamber for Astrophysics/Astrochemistry (ICA), HU
22-EPN3-130	Biosignatures in Icelandic geothermal aerosols: an analogue for cryovolcanic plumes	TA1 PFA	Iceland Field Sites, IS
22-EPN3-118	Irradiation of Enceladus ice analogues by simulating	TA2 DPLF	ECRIS Laboratory, HU

	Saturn's plasma environment		
22-EPN3-007	SeisChem - The influence of seismic events on fluid and gas chemistry at the Icelandic planetary field site	TA1 PFA	Iceland Field Sites, IS
22-EPN3-095	Behaviour of saline liquid droplets in wind tunnel conditions relevant to the plumes of Enceladus	TA2 DPLF	Planetary Environment Facilities (PEF), DK
22-EPN3-080	Quantitative determination of H2O and CO2 concentrations in glass inclusions in olivine from basalts of the Yellowstone hotspot track	TA2 DPLF	Ion probe facility (IPF), FR
22-EPN3-020	Implantation of oxygen ions in Titan's aerosol analogues	TA2 DPLF	ECRIS Laboratory, HU
22-EPN3-065	Ion bombardment of glycine and glycine embedded within water ice in solar system and interstellar conditions	TA2 DPLF	ECRIS Laboratory, HU
22-EPN3-107	Characterizing the electron-impact-induced emission of CS2 to constrain sulfur abundances in cometary and planetary atmospheres	TA2 DPLF	Electron induced fluorescence laboratory (EIFL), SK
22-EPN3-077	Preservation of Organic Matter in Glacial Lakes: Implications for Martian and Icy Moon Biosignatures	TA1 PFA	Kangerlussuaq Field Site, GL
22-EPN3-024	VIS-NIR and Raman measurement of clays and evaporitic products as analogs of Oxia Planum in the framework of the Rosalind Franklin rover mission	TA1 PFA	Makgadikgadi Salt Pans, BW
22-EPN3-010	The cosmic dust flux over geological time – how extraterrestrial signals become preserved in Earth's marine rock record.	TA2 DPLF	Stable Rare Gas and Radiogenic Isotope Facility (SGRIF), FR
22-EPN3-022	A correlated geochronology and halogen analysis of enstatite chondrite meteorites.	TA2 DPLF	Geo- and Cosmochemistry Noble Gas Laboratory, CH

22-EPN3-096	Constraining the thermal history of the CY chondrites through ion probe analyses of Ca-phosphate grains	TA2 DPLF	Ion probe facility (IPF), FR
22-EPN3-049	Retrieving multiple ice cores covering the last 100 years to study the link between the solar cycle and the cosmogenic tritium in precipitation	TA1 PFA	Kangerlussuaq Field Site, GL
22-EPN3-124	Unfolding geochemical evolution of the subcontinental lithospheric mantle recorded by diamond-forming carbon and water rich (C-O-H) mantle fluids throughout time	TA2 DPLF	Geology and Geochemistry radiogenic and non-traditional stable Isotope Facility (GGIF), NL
22-EPN3-012	Probing microscopic mechanisms behind ice processing by cosmic rays	TA2 DPLF	Ice Chamber for Astrophysics/Astrochemistry (ICA), HU
22-EPN3-126	In-situ and laboratory spectroscopic characterization of Icelandic lava flows; an analog of Venus – VERITAS mission preparation	TA1 PFA	Iceland Field Sites, IS
22-EPN3-053	Proton processing of phenanthrene ice mixtures for application to Titan's lower atmosphere.	TA2 DPLF	ECRIS Laboratory, HU
22-EPN3-074	Hydroxylamine in ices: Cosmic Rays radiolysis yields and induced chemistry	TA2 DPLF	ECRIS Laboratory, HU
22-EPN3-088	SCRUTINING BIO- AND GEO-SIGNATURES IN SUPPORT OF THE RAMAN INTERPRETATION OF SPACE MISSIONS DATA	TA2 DPLF	Center for Microbial Life Detection, AT
22-EPN3-110	Clumped isotope thermometry of travertines in the Tauern Window (European Alps): Significance for past seismicity and risk assessment of the Brenner Base Tunnel.	TA2 DPLF	Stable/Clumped Isotopes Laboratory (ISIL), HU

22-EPN3-027	" Dust-carbon-climate feedbacks tested through detailed independent dating of Arctic wind-blown dust sequences on Greenland: part 2 – laboratory analyses"	TA2 DPLF	Carbon-14 dating accelerator mass spectrometry laboratory, HU
22-EPN3-105	At the interface of ice and water on Mars: insights from Western Greenland	TA1 PFA	Kangerlussuaq Field Site, GL
22-EPN3-076	Aeolian ripples development under Martian atmospheric conditions	TA2 DPLF	Planetary Environment Facilities (PEF), DK
22-EPN3-016	Noble gas tracing the paleo-fluids involved in the origin of the Crystal caves	TA2 DPLF	Noble Gas Isotope facility (INGIL), HU
22-EPN3-030	An Isotopic Inventory of Mars analogue environments	TA2 DPLF	Stable/Clumped Isotopes Laboratory (ISIL), HU
22-EPN3-032	Soil carbonate clumped isotope-based reconstruction of temperature evolution over the Mid-Pleistocene Transition and the Late Pleistocene	TA2 DPLF	Stable/Clumped Isotopes Laboratory (ISIL), HU
22-EPN3-006	Sulfur cycling in evaporitic waters: The impact of fluctuating salinity on biosignature formation and the implications for Mars	TA1 PFA	Makgadikgadi Salt Pans, BW
22-EPN3-103	Molards as proxies of CO2 and H2O ice degradation under martian conditions: investigating physical downscaled models	TA2 DPLF	Mars Chamber Facility, UK
22-EPN3-113	Isotopic constraints on deformation of olivine: a preliminary study on mantle peridotites from Mt. Melbourne, northern Victoria Land, Antarctica	TA2 DPLF	Stable Rare Gas and Radiogenic Isotope Facility (SGRIF), FR
22-EPN3-086	Exploring the Effects of H+, On+, and Sn+ Irradiation of Water Ice, plus an ISM relevant Molecule, as a	TA2 DPLF	ECRIS Laboratory, HU

	Potential Prebiotic Europa Ocean Analogue		
22-EPN3-128	Northwestern Amazon regional convection and its role in the control of extreme events and the isotopic signal in Quito, Ecuador.	TA2 DPLF	Stable/Clumped Isotopes Laboratory (ISIL), HU
22-EPN3-109	Laboratory simulation of impacts on nucleobases and sugars embedded in water ices using light gas gun facility at University of Kent.	TA2 DPLF	Light Gas Gun Laboratory, UK
22-EPN3-046	Integrated spectroscopic study of Apollo 16 sample and anorthositic Lunar meteorite	TA2 DPLF	Planetary Spectroscopy Laboratory (PSL), DE
22-EPN3-098	VNIR analyses on Mars analogues volcanic products at low temperature: investigating the influence of granulometry and crystallinity	TA2 DPLF	Cold Surfaces spectroscopy (CSS), FR
22-EPN3-092	Deciphering traces of life from the dawn of Earth's biosphere	TA2 DPLF	High-Pressure, High-Temperature Laboratory, NL
22-EPN3-041	Study of the dust lifting phenomena and electrification processes in a martian analogue site	TA1 PFA	Makgadikgadi Salt Pans, BW
22-EPN3-015	Trace element partitioning between (Mg, Ca)S and highly reduced magmas: implications for the volatile budget and thermal evolution of Mercury	TA2 DPLF	NanoSIMS 50L (NSIMS), UK
22-EPN3-005	Spatial Relationship Between Biosignatures and Their Geologic Context by Large-scale Geoscientific Mapping at Rio Tinto, Spain	TA1 PFA	Rio Tinto, ES
22-EPN3-093	The origin of metal-rich brine component in the Ontong Java Plateau magmas: ion probe study of boron isotopes and halogen abundances in volcanic glasses	TA2 DPLF	Ion probe facility (IPF), FR

22-EPN3-112	Exploration of Non-Enzymatic Metabolic Reactions in Microdroplets	TA2 DPLF	Flow-Through Simulation Chambers, UK
22-EPN3-099	Formation of impact ripples induced by different flow rates under Martian pressure and temperature	TA2 DPLF	Planetary Environment Facilities (PEF), DK
22-EPN3-116	Fault Scaling at the Southwest Iceland	TA1 PFA	Iceland Field Sites, IS
22-EPN3-011	Phototrophic microorganisms in cold deserts of Iceland - ecology and diversity of potential Analogues	TA1 PFA	Iceland Field Sites, IS
22-EPN3-060	A new apparatus for measuring the electrical charge of volcanic ash particles	TA2 DPLF	Planetary Environment Facilities (PEF), DK
22-EPN3-073	Emergence of ice ripples by sublimation at various wind velocities and air pressure.	TA2 DPLF	Planetary Environment Facilities (PEF), DK
22-EPN3-028	Energetic ion processing of pyrene ice	TA2 DPLF	Ice Chamber for Astrophysics/Astrochemistry (ICA), HU
22-EPN3-087	EVIDENCE – EVolution and Icy satellite Deformation through the investigation of glacial ENvironments and the Characterization of Earth analogs	TA1 PFA	Argentinian Andes, AR
22-EPN3-061	ANALOG STUDIES TO TEST THE SCIENTIFIC POTENTIAL OF THE FIRST SERS PROTOTYPE ANALYSIS FOR POTENTIAL USE IN FUTURE Astrobiology MISSIONS	TA1 PFA	Iceland Field Sites, IS
22-EPN3-129	In-Situ observations in support for VERITAS Venus analogue airborne radar campaign at Holuhraun and Djyngasandur, Iceland	TA1 PFA	Iceland Field Sites, IS
22-EPN3-063	The origin of early Archean barite: insights from the geochemical and isotopic composition of associated chert deposits	TA2 DPLF	Geology and Geochemistry radiogenic and non-traditional stable Isotope Facility (GGIF), NL
22-EPN3-054	Searching for biosignatures in extreme environments:	TA2 DPLF	Nano Secondary Ion Mass Spectrometer, KR

	High-altitude Andean lakes as Mars analogues		
22-EPN3-068	Vacuum Heating Effects on Spectroscopic Properties of Carbonaceous Chondrite Meteorites	TA2 DPLF	Planetary Spectroscopy Laboratory (PSL), DE
22-EPN3-043	Investigating Reflectance and Emissivity Spectra of Minerals and Analogs under Vacuum to Support Analyses of Lunar Spectra	TA2 DPLF	Planetary Spectroscopy Laboratory (PSL), DE
22-EPN3-083	SHOCKchar: Charring of wood induced by a shock wave during a hypervelocity impact	TA2 DPLF	Light Gas Gun Laboratory, UK
22-EPN3-038	Asteroidal source(s) of L chondrites and its collisional evolution - isotope geochemistry of phosphates in meteorite Antonin.	TA2 DPLF	Sensitive High Resolution Ion MicroProbe / SHRIMP-IIe/MC, KR
22-EPN3-127	Silcrete deposits of the Kalahari Desert as potential analogs for silica-rich deposits on Mars	TA1 PFA	Makgadikgadi Salt Pans, BW
22-EPN3-035	Survival of chondrites in humid climate (Germany & Europe)	TA2 DPLF	Carbon-14 dating accelerator mass spectrometry laboratory, HU
22-EPN3-036	Investigating titanium and chromium isotopes in unusual achondrite NWA 8564	TA2 DPLF	Geo- and Cosmochemistry Isotope Facility, CH
22-EPN3-047	Vein networks in the Variscan foreland basins in western Europe	TA2 DPLF	Ion probe facility (IPF), FR
22-EPN3-064	Investigating Oxygen Isotopes within Ca-Al-rich inclusions (CAIs) and Compound-Chondrule-CAI (CCCAIs) Populations within CM chondrites	TA2 DPLF	Ion probe facility (IPF), FR
22-EPN3-037	Alteration and element mass transfer from source to sink in planetary crusts	TA2 DPLF	Flow-Through Simulation Chambers, UK
22-EPN3-059	Electron impact induced emission of formamide – excitation processes study	TA2 DPLF	Electron induced fluorescence laboratory (EIFL), SK

22-EPN3-097	Characterizing the Low-Temperature Spectral Properties of Lunar Analogues	TA2 DPLF	Cold Surfaces spectroscopy (CSS), FR
22-EPN3-019	Investigation of Ceres bright spots: VIS-NIR Spectral simulation of Haulani bright areas by means of spectral analysis on produced analogue mixtures	TA2 DPLF	Cold Surfaces spectroscopy (CSS), FR
22-EPN3-008	U/Pb-Dating of the youngest eclogites on Earth	TA2 DPLF	Sensitive High Resolution Ion MicroProbe / SHRIMP-IIe/MC, KR
22-EPN3-025	Isotope geochemistry traces magma–shale interaction	TA2 DPLF	Stable Rare Gas and Radiogenic Isotope Facility (SGRIF), FR
22-EPN3-070	Investigation of geomorphic features in Ntwetwe pans, Makgadikgadi Basin, Botswana, using Ground Penetrating Radar: implications for Matrial surface landforms	TA1 PFA	Makgadikgadi Salt Pans, BW