

Fw: ESA: Exploring the Moon with a large European lander

2 messages

Ananda.Sirisena <ananda.sirisena@protonmail.com>
Reply-To: "Ananda.Sirisena" <ananda.sirisena@protonmail.com>

Mon, Oct 5, 2020 at 11:48 PM

To: Mark Carlotto <mark@carlotto.us>, fran ridge <franridge42@gmail.com>, "Ananda.Sirisena" <ananda.sirisena@protonmail.com>

Latest message from ESA. I don't think that our proposal has been selected - but I'll continue to hold my breath. It's received 564 views on OSIP!

Ananda

On Tuesday, October 6, 2020 12:40 PM, James David Carpenter via Open Space Innovation Platform - OSIP < James. Carpenter@esa.int> wrote:



Dear idea authors

In our the last message we indicated that as we transition into step two of the Call for Ideas process (see flow chart on overview page), we will be holding dedicated virtual workshops around major mission themes that have emerged from "science" related ideas submitted to the Call.

These themed workshops provide an opportunity to share ideas, identify key objectives, and to seek consensus where possible. Participation in these workshops will fior invited participants. Workshop outputs will be made publicly available afterwards.

ESA is also encouraging the establishment of community Topical Teams, and engagement of existing Topical Teams to advance concepts in the various themes, which could be taken forwards for study. Workshop outputs will help to inform the work of these Topical Teams. Invitations to participate in a first workshop relating to a Polar Explorer mission concept have been sent out. Invitations for subsequent workshops focusing on different science themes will be sent out over the coming weeks.

Ideas linked to technologies and infrastructure have also yielded a set of typologies of interest. We will continue to explore and refine this set of typologies, identifying priorities for further work, which address the needs of research driven missions or of exploration infrastructure and capabilities.

Below is a list of the science themes, and technology/infrastructure typologies that have emerged from the Call for Ideas. Please note that these themes and typologies are in no particular order.

Please remember, this is not a selection process. There will not be a single winning idea. It is an attempt to gather the ideas of the community to inform decisions about the way forwards that we hope will create future opportunities for the community as a whole.

Thank you again for your contributions. We are working hard to advance ideas and develop a limited and manageable number of concepts to take forwards, whilst continuing to engage to the greatest extent possible with the community that has contributed so substantially to this effort. For those who receive invitations to workshops, thank you in advance for supporting them. We will keep you informed on workshop outputs and next stage progress, and will continue to engage with as many of you as possible as we build interactive communities around concept themes.

Many thanks

James Carpenter (Campaign Manager)

	olar exploration mission to characterise volatile distribution at a lunar
_	ole
	strophysical observatory for the lunar far side
	eosciences mission to an unexplored location or lithology
	biosciences mission to investigate the effects of the lunar environment
	n diverse biological models
	pace resources characterisation and investigation of materials and rocesses needed to enable sustained operations at the Moon
	ave tube exploration mission to access and explore a lunar cave
G	eophysics payload package to probe the deep interior of the Moon and
W	hich can be deployed by different EL3 missions
	nvironment and space weather payload package to investigate plasma,
	elds and dust and which could be deployed on different lander missions
	xobiology payload to expose biological and chemical samples to the lunar
	nvironment and which could be deployed on different lander missions
	adio receiver payload to characterise the environment in advance of an
	strophysical observatory.
	payload to characterise the local geology at any mission landing site
	nology & Infrastructure Typologies based on Call for Ideas ributions:
la	Small rovers (range of sizes <100 kg)
Lb	Multi-rover systems (swarms)
lc	Large rovers (> 100 kg)
2a	Mobility drones
2b	Mobility hoppers
2c	Mobility GNC for landers/hoppers/drones
3a	ISRU oxygen/water production and purification
3b	ISRU construction
3c	ISRU energy storage
3d	ISRU food production
3e	ISRU oxygen; refuelling
4a	Deployable structure for ISRU thermal shield
4b	Deployable habitat
5a	Subsurface geophysics exploration
5b	Subsurface; penetrators
5a	Cave exploration
7	Robotic arm for science/ISRU/logistics
8a	Power plant (solar, fuel cells, radioisotope, nuclear)
3b	Power transfer for night survival
9	Small payload accommodation
10a	Life-support; closed-loop food production
10b	Life-support; greenhouse
11	Sample return
12	Environmental monitoring stations
13	Payload suite for outreach
14	Vehicle for deployment of probes



Ideas for exploring the Moon with a large European lander

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fran ridge <franridge42@gmail.com>
To: The-Lunascan-Project@googlegroups.com

Tue, Oct 6, 2020 at 8:54 AM

Keep our fingers crossed.

fran

[Quoted text hidden]