



PSA User Group meeting

24-25 September 2024

Prepared by: Mark Bentley

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Meeting room: ESAC, D052

Virtual participation: [Teams](#)

Participants:

- [Mark Bentley](#) (MB)
- [Emmanuel Grotheer](#) (EG)
- [Daniela Coia](#) (DC)
- [Thomas Cornet](#) (TC)
- [Joana S. Oliveira](#) (JO)
- [Guido De Marchi](#) (GdM)
- [David Heather](#) (DH)
- [Tanya Lim](#) (TL)
- [Antonio Genova](#) (AG)
- [Beatriz Sanchez-Cano](#) (BSC)
- [Gianrico Filacchione](#) (GF)
- [Anni Maattanen](#) (AM)
- [Tommaso Alberti](#) (TA)

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- [Previous Actions](#)
- [New actions](#)

1. TUESDAY 24TH SEPTEMBER

Time	Presenter and Title	Presentation material	Notes
08:30	Taxi - lobby of the Exe Moncloa		
09:30	Arrival, welcome and logistics		<ul style="list-style-type: none"> • Feel free to dial into the Teams meeting even when you are on site, to share links, and chat with virtual colleagues • If you connect to the meeting on site, please: <ul style="list-style-type: none"> ○ mute your microphone ○ mute your speakers • Help yourself to coffee in the room <ul style="list-style-type: none"> ○ we also have coffee breaks scheduled
09:35	Around the room		<p>Introduction of new faces</p> <ul style="list-style-type: none"> • Joana S. Oliveira and Thomas Cornet introduced themselves
09:45	PSA updates	ipda2024_agency_esa.pptx	<ul style="list-style-type: none"> • Latest releases and features • Plans for the next year or so



		<p>Note that the presentation is re-used from last week's IPDA meeting and covers several of the discussion points below.</p>	<p><i>DH: for MEX we may have had an agreement with GEO node regarding mirroring - will they be involved in the migration?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Mark Bentley to confirm with GEO that they will not migrated PDS3 holdings for MEX, and also ATM for VEX</i> <p><i>GF - how will data be discovered by filename and dataset?</i></p> <p><i>MB: excellent point - we should add meta-data or use the collection name to capture this</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Mark Bentley to discuss with archive scientists and contractor the best way to do this/</i> <p><i>GF: for the Mercury map tool - could we split into quadrants? Or filter by mission phases? Also even for BELA this could be useful.</i></p> <p><i>MB: discussions are ongoing with the dictionary steward of the geometry dictionary to see if we can include LineString type footprints.</i></p> <p><i>TC: even for in situ instruments the sub-s/c point could be useful to view on a map.</i></p> <p><i>MB: TC produced a pipeline for the Bepi QLA - perhaps we could use these products?</i></p> <p><i>GF: what about orbit numbers? Can we search by these?</i></p>
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			<p><i>MB: We had an intern who asked for this also. We have discussions for Bepi and JUICE pending to handle orbit numbers for product naming and meta-data.</i></p> <p><i>BSC: yes, ground track for all missions would be interesting</i></p> <p><i>BSC: JMARS has the ability to display MARSIS data which are very useful, can we do something here?</i></p> <p><i>MB: we have considered putting projected data into the map view, but a lot of effort. We could also ingest basemaps however, e.g. for OMEGA.</i></p> <p><i>(edit from later in the meeting - it was clarified that the current PSA can display MARSIS footprints and corresponding browse images, but may be this needs to be made more clear)</i></p> <p><i>GF: for CaSSIS - will we get stereo pair info?</i></p> <p><i>TL: stereo pairs have unique IDs in sequence, but better still there are meta-data indicating this. There is also a search option in the PSA advanced search panel.</i></p> <p><i>GF: Regarding ESA DataLabs, could the publication of labs and analyses not produced by PI teams be dangerous to the agency, from an image perspective. Also to avoid over-interpreting data etc. How do we manage this?</i></p>
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			<p><i>MSB: For labs themselves there is an approval process, for the tutorials that we are producing for current and legacy missions it's true that we have not included the teams in their creation, although for Bepi this will be done under EXPRO contracts with PI teams.</i></p> <p><i>EG: Previously pointed out to teams that GSF was an interface without search etc. and not suitable for all products (to avoid them putting things there that should be in PSA)</i></p> <p><i>MB - indeed, but need to promote these data to make them useable</i></p> <p><i>BSC: discussed with Anni (JGR editorial board) about open access data - propose a FAIR repos, Zenodo, Figshare etc. Could we use the GSF for this? Requirements that data are in a FAIR repo with DOI. A repository at ESA should be the place that we store the data.</i></p> <p><i>GdM: if we need to make data available to computing interface, easier if at ESA.</i></p> <p><i>GF: in some cases journals can publish the data, but not all. Again, how do we control the inputs - if a crazy dataset is published in a crazy journal, how do we control this.</i></p> <p><i>GF: could we use the GSF also for ground reference/calibration data in cases where we cannot format in PDS4?</i></p>
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MB: PDS4 does not preclude storing e.g. binary format data, as long as it is not primary data needed for the analysis. Better to keep it in the archive in this case.

MB: AS and PS have to be gatekeepers here.

DH: can we pick some journals that are established and suggest they put data in our system?

MB: yes, but have to do some major ground-work first to make this scalable.

- [Mark Bentley](#) to discuss with science leads and management if we could consider a data repository for data linked to publications*
- [Beatriz Sanchez-Cano](#) to talk to editorial boards and report back at next meeting.*

JO: published in JGR earlier this year - used Zenodo. Nobody checked data on Zenodo side - BSC reports that she checks all data that comes her way.

GdM: bear in mind that for Zenodo the paper is the driving place to find the data.

BSC: yes, would be willing to put more effort in as an author to provide extras (readme, keywords etc.) compared to Zenodo etc.



<p>10:15</p>	<p>Active mission archive reports</p> <p>(all archive scientists)</p>		<ul style="list-style-type: none"> • Mars Express <ul style="list-style-type: none"> ○ <i>indicative extension was for joint operations with MMX <ul style="list-style-type: none"> ▪ <i>MMX delay 1-2 years, should have arrived 2028, now will be 2029-2030</i> </i> ○ <i>MB: we have the idea to update DVal for MEX to improve data quality (checks the bits and bytes, not just meta-data) <ul style="list-style-type: none"> ▪ <i>EG: teams may or may not be able to run this, due to constraints on software installs and insecure old versions</i> </i> ○ <i>For MRS: have many data which are not public, not fully PDS3 - but available on the team's server, which requires password/agreement with PI.</i> ○ <i>AG: what can we do to help this situation? Discussions with eg. Italian space agency, they never ask about archiving in progress meetings</i> ○ <i>BSC: how can we help to get the data we need on time?</i> ○ <i>Guido: the only power we have is to not select for future missions, and to continue to use EXPROs.</i> ○ <i>TC: do mission proposals include a DMP?</i>
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- *BSC: yes, current proposal for M-MATISSE includes a group to do QL on data etc.*
- *GdM: different in astronomy - typically large teams/consortia, in planetary we have much smaller teams*
- *BSC: can we capture the data that are missing?*
- *DH: archive scientist should know what data should be in the archive*
- *BSC: can we make a recommendation about MEX et al to ensure that we get all of the best data?*
- *DH: we have contracts ongoing, but mostly these are to capture the basic products, not higher level ones.*
- *BSC: how can we enhance the legacy data ingestion? can we make additional recommendations here? We need to get the best data and expertise while the teams are available*
- *MB: we can use the HSP funds, but they come with some restrictions on use.*
- *GdM: strong recommendation always useful - these should be couched in terms of missed opportunities. Resources allocated to help instrument teams in*



			<p><i>general to avoid these missed opportunities. Give concrete examples.</i></p> <ul style="list-style-type: none"> ○ <i>EG: NASA-funded MARSIS dataset currently only on PDS, not PSA (previously discussed - these are in PDS4 and the PSA is not currently set-up to handle mixed PDS3 and PDS4 data for a single mission)</i> ○ <i>BSC: not cross-calibrated with Italian team, has ionospheric products which are also very useful.</i> <ul style="list-style-type: none"> ▪ <i>EG: confirmed linked from MEX Cosmos pages</i> ○ <i>MB: need to be careful with context products for these kind of cases to avoid the C-1 case where we have multiple products for a single mission/instrument</i> ○ <i>AM: PFS data up to end 2018, is this calibrated?</i> <ul style="list-style-type: none"> ▪ <i>EG: no, only raw. Team has internal L3 data but not PDS3 format. Not even got a sample of this data.</i> ▪ <i>AM: had enquiry from Mars dust workshop on re-doing retrievals on PFS data but nobody knows if data are in PSA are usable, how much there are etc. etc.</i>
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			<ul style="list-style-type: none">▪ <i>team has internal data in NetCDF, published in a paper - Marco willing to give this for legacy archive</i>▪ <i>could take some of this L4+ later into GSF</i>○ <i>EG: EXPRO with PFS could be useful</i>○ <i>DH: we could do this, but need more resources to manage these</i> <p><i><u>David Heather</u> and <u>Emmanuel Grotheer</u> - do we need an action here to follow-up with MM on this?</i></p> <ul style="list-style-type: none">•<ul style="list-style-type: none">○ <i>GF: this should pushed in the first instance through the PS and SWT</i>○ <i>BSC: next SWT in Nov. Formally how can we find the reason PFS is not delivering?</i>○ <i>DH: funding agencies of course didn't expect MEX to fly for so long</i>• ExoMars Trace Gas Orbiter<ul style="list-style-type: none">○ <i>TGO is a relay, used by both NASA and eventually ESA rovers</i>
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- *doing science since 2018, but only 2.5 instrument public*
 - *European instruments are public*
 - *FREND dosimeter is public, but FREND neutron not, nor ACS*
- *ACS review >1 year ago, very slow response, but getting there*
- *ACS TIR stopped working in 2020, have complete data, but poorly documented*
- *BSC: what do we have for higher level?*
- *TL: fairly complete calibrated data for CaSSIS, highest they will deliver is map-projected stitched data*
- *TL: NOMAD also had calibrated - nothing higher expected*
- *BSC: FREND neutron similar team to MGNS - why do we now have problems there?*
 - *TL: personnel changes in team mean that person left is quite high up and has no time*
 - *The user group proposed to give more time to the FREND neutron detector team to submit the calibrated data, as raw data in the archive may*



introduce errors in the user analysis if not discussed with the relevant people.

- *GdM: TGO is doing well on paper front (~40 papers per year), c.f. 70 on MEX (for more instruments)*
 - *TL: large proportion of DV is from CaSSIS, always a good publication rate*
 - *NOMAD and ACS work together well, also with other missions*




- **BepiColombo**

- *BSC: how can we make sure we do all the reviews in time? It would be useful to have them ready before orbit insertion, or at least, the majority of them.*
 - *when we get to Mercury we will have chaos and little time*
- *MB: yes, this is a concern - we at least need to have reviews of the instruments producing data, and good samples/documentation for SIMBIO-SYS and BELA that cannot fully operation in cruise.*
- *MB: operational archiving also poses challenges*
 - *discussion on pipeline processing*



- JUICE
 - *16 instruments, including 4 facility instruments*
 - *cruise data should be released before operational phase for all instruments*
 - *BSC: for RADEM do we get calibrated data in the first release?*
 - *JO: no, first review will cover raw only*
 - *GF: when will data from e.g. LEGA be published?*
 - *TC/JO: data will be ingested when pipelines are integrated and then reviewed*
 - *two deliveries planned for the cruise phase*
 - *JO: pipeline integrations are in many cases much sooner than originally planned, putting additional pressure on the SOC and archive.*



			<p>What's new: Mars Express (1/2) </p> <ul style="list-style-type: none"> • Operations continue nominally mission has been extended through end of 2026 <ul style="list-style-type: none"> • with an indicative extension through 2028 to support JAXA's MMX. <ul style="list-style-type: none"> • Not yet known how MMX's delay will affect the indicative extension. • With aging pipelines and validation tools, more deliveries need debugging <ul style="list-style-type: none"> • leading to more intensive validation times. • New higher-level datasets are being prepared for delivery to the PSA, including <ul style="list-style-type: none"> • calibrated data from ASPERA, • updated maps from GMEGA, and • occasional one-off datasets prepared by Anja Mätzner  
11:15	Coffee		
11:45	Response to PSA User Group recommendations (Mark Bentley)	Previous recommendations	<p>Response so far:</p> <ol style="list-style-type: none"> 1. Archive Implementation Plans drafted for missions outside of SCI to clarify responsibilities, budget lines, etc. <ol style="list-style-type: none"> a. ExoMars RFM - work expected to re-start soon, AIP sent for comments, dedicated meeting planned for November. Data format is PDS4 both operationally and for the long-term archive. Participation in ROCC (Rover Operations Control Centre) delta-PDR raised some issues on the archive side. b. HERA - no commitment to archiving activities until after successful launch. AIP prepared. Teams invited to PDS4 training workshop.




			<p>i. <i>concern over how late this work will be starting</i></p> <p>c. PROSPECT - discussions ongoing about data location (HREDA, PSA, both) but PDS4 agreed as an archiving standard.</p> <p>2. Delays in publication of data have several issues, which have to be addressed separately. In some cases archive reviews were quite late, and major changes to the data were requested, the implementation of which took a long while. In these cases it may be possible, with the project scientist's support, to publish early data with caveats and warnings, e.g. to allow grants to be written on these data, knowing that they will be updated later. A user story is in place to allow flagging of such data products. For ongoing missions using PDS3 the bottleneck is typically related to validation and ongoing iterations with the instrument teams, preventing ingestion in the archive. Solutions are less clear here - if needed datasets could be published on the FTP without full validation, but there is a danger then at the teams would see that as sufficient and fail to provide updates.</p> <p>a. <i>worst delays are also from MEX teams that do not deliver</i></p>
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			<p>b. <i>Beatriz - improvements have been seen since recommendations were made, large deliveries on the MEX side</i></p> <p>3. Legacy support has recently been added to an external ESDC support contract. Primarily this is being used in the near-term to validate and ingest primary mission data received after the end of the post-ops phase (e.g. VEX, Rosetta). We can investigate if this could be expanded to include curation of high-level data. A proposal has been made for expanded funds to the Heritage Space Programme at ESDC level, and if successful internal discussions will be needed as to how this could be used.</p> <p>a. <i>Guido - yesterday met to discuss funding for Heritage space programme - increased budget only with inflation. Committee advising the DG here recommends against using funds in human resources. TBD how this proceeds.</i></p> <p><i>TC: EuropaClipper UVS has passed review on US side, and have similar instrument on JUICE. Some differences in archive conventions between the two.</i></p>
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<p>12:45</p>	<p>The Archive Research Visitors Programme (Guido De Marchi)</p>		<ul style="list-style-type: none"> • <i>ARVP more open that it used to be, but site restrictions on nationality still exist</i> • <i>Applications are processed to remove possible identifying features (e.g. reference to "my" paper etc.)</i> • <i>AM: what is the pool from which the numbers are being pulled? e.g. if we have 1/3 applications from female but lower representation in the pool, we are doing well</i> • <i>Accepted applications trend more to 50/50 gender balance</i> <ul style="list-style-type: none"> ○ <i>but this is also some compensating step applied on occasion to ensure balance</i> • <i>BSC: do we have a list of publications produced out of the ARVP?</i> <ul style="list-style-type: none"> ○ <i>GdM: working on this now and will distribute by end of year</i> <ul style="list-style-type: none"> ▪ <i>not all visits immediately results in a paper, but some >1</i> • <i>BSC: can we also loop in the instrument teams since we have limited expertise in ESA?</i>
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			<ul style="list-style-type: none"> ○ <i>GdM: difficult - in some cases we have used the funding to have a shorter visit to facilitate interactions with PI teams, with the help of the project scientists.</i> • <i>TC: can scope include e.g. improvements to datasets, or just pure data</i> <ul style="list-style-type: none"> ○ <i>GdM: can be both - aim is to help include ESA data in research project, whatever the scope</i>
13:30	Lunch		
15:00	PDS3 to PDS4 migration (Mark Bentley)		<ul style="list-style-type: none"> • 2-year contract initiated in May 2024 • Covers <ul style="list-style-type: none"> ○ Giotto ○ Venus Express ○ SMART-1 ○ Chandrayaan-1 • Other missions are covered by PDS partners: <ul style="list-style-type: none"> ○ Huygens (already done - data not ingested yet) ○ Rosetta (to be done by PDS Small Bodies Node) • MEX could eventually be included by <ul style="list-style-type: none"> ○ extending the contract, or ○ using the tools developed on our side



15:30	Legacy mission support (Mark Bentley)		<ul style="list-style-type: none"> • CCN to a contract with Winter Way recently issued to support PSA legacy data <ul style="list-style-type: none"> ○ includes validation and ingestion of data from legacy missions • Priorities are currently: <ul style="list-style-type: none"> ○ Rosetta (in particular OSIRIS, COSIMA, and ground-based data) ○ VEX (in particular SOIR, but also VIRTIS) ○ support to data needed for PDS3 to PDS4 migration
16:00	Preservation of housekeeping data		<ul style="list-style-type: none"> • Current situation for current and legacy missions <ul style="list-style-type: none"> ○ packets for all missions are preserved in RAWDAR <ul style="list-style-type: none"> ▪ but not parameters decoded from telemetry - these require software + mission db (MIB) • Possible solutions in the near, and more distant, future <p><i>BSC: thinks data should be preserved in PSA, if not need a secure copy.</i></p> <p><i>MB gives some background on packets vs parameters, WebMUST, and the situation with the VEX MUST data (unsupported VM at ESOC has crashed, packets could be sent back to the MOC to ingest into heritage platform, but over the next couple of years, and</i></p>




			<p><i>VM at ESAC exists but db password is not known - being investigated)</i></p> <p><i>Recommendation - ESA should establish policy for secure preservation of mission parameter data.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Mark Bentley to check previous recommendations on HK preservation to compare with discussion above
16:30	Coffee		
17:00	DataLabs		<ul style="list-style-type: none"> • Status of Datalabs • The PSA Datalab • Plans for the future
17:30	Close		
20:00	Social dinner (at own cost)		<p>El Pimiento Verde</p> <p>C. de Quintana, 1, Moncloa - Aravaca, 28008 Madrid</p>



WEDNESDAY 25TH SEPTEMBER

Time	Presenter and Title	Presentation material	Notes																					
09:30	PDS4 training workshop November 2024		<p>https://www.cosmos.esa.int/web/pds4-workshop</p> <ul style="list-style-type: none"> • Aim is to teach the PDS4 standard, and the PSA implementation of this, to existing and future instrument teams <ul style="list-style-type: none"> ○ with a particular emphasis on those missions not currently supported, or for whom support in the standard will be limited • Where and when: 4th - 8th November 2024, ESAC (D001/D002) • Overall agenda: <table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Topic</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Monday 4th November</td> <td>Morning</td> <td>Travel/arrival</td> </tr> <tr> <td>Afternoon</td> <td>Introduction to the PSA and PDS4</td> </tr> <tr> <td rowspan="2">Tuesday 5th November</td> <td>Morning</td> <td>Data formats and structures</td> </tr> <tr> <td>Afternoon</td> <td>Label, meta-data and dictionaries</td> </tr> <tr> <td rowspan="2">Wednesday 6th November</td> <td>Morning</td> <td>Producing and validating products</td> </tr> <tr> <td>Afternoon</td> <td>Hands-on and worked examples</td> </tr> <tr> <td>Thursday 7th November</td> <td>Morning</td> <td>Hands-on</td> </tr> </tbody> </table>	Date	Time	Topic	Monday 4th November	Morning	Travel/arrival	Afternoon	Introduction to the PSA and PDS4	Tuesday 5th November	Morning	Data formats and structures	Afternoon	Label, meta-data and dictionaries	Wednesday 6th November	Morning	Producing and validating products	Afternoon	Hands-on and worked examples	Thursday 7th November	Morning	Hands-on
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				Afternoon	Hands-on
			Friday 8th November	Morning	Q&A and wrap-up
				Afternoon	Departure/travel
		Draft detailed agenda: PDS4 workshop preparation 2024			
10:00	Future missions updates		<ul style="list-style-type: none"> • ExoMars RFM • HERA • PROSPECT • RAMSES • CometInterceptor • EnVision • HRE-funded instrument data <ul style="list-style-type: none"> ○ Chang'e 6 / NILS ○ IM-2 / PLWS • Mars Sample Return 		
10:45	Data licenses (Guido De Marchi)		<ul style="list-style-type: none"> • <i>ESA rules say that raw/cal data are free to use, even commercially</i> <ul style="list-style-type: none"> ○ <i>higher level data are typically not owned by ESA and therefore cannot be used commercially, and does not need attribution etc.</i> • <i>Approached by individuals and companies wanting to use data</i> <ul style="list-style-type: none"> ○ <i>also by commercial data houses wanting to re-use/expose our data</i> 		



			<ul style="list-style-type: none"> • <i>Commercial use of data needs to be authorised</i> • <i>Ask users to give credit - cannot force them to do this</i> • <i>How many cases have we had for use of our data?</i> <ul style="list-style-type: none"> ○ <i>imagary - yes (e.g. for publications), data - no</i> • <i>CC license chosen to fit all cases - has to include credit to fit higher level data</i> • <i>Facility instrument - simply ESA</i> • <i>Need to update this for planetary missions are PIs change</i> • <i>How do we mesh T&Cs and CC license?</i> <ul style="list-style-type: none"> ○ <i>it is enough to point to CC license</i> • <i>For APIs we assume that the user accepts the license</i> • <i>Some data are archived in multiple places with different licenses</i> <ul style="list-style-type: none"> ○ <i>e.g. Rosetta data are CC0 and yet ours is CC-BY etc.</i> • <i>MoUs will specify license (not T&Cs)</i> • <i>For new missions we will ask how credit should be given</i> • <i>To be discussed by D/SCI in the coming weeks</i> • <i>Missions can customise example credit lines as needed</i>
11:15	Coffee		
11:45	User group business		<ul style="list-style-type: none"> • <i>Membership updates</i> <ul style="list-style-type: none"> ○ <i>replacement of members who cannot continue and support for new missions and areas</i>



			<ul style="list-style-type: none"> ○ <i>Andrea - due to health problems may not be able to contribute?</i> ○ <i>Tommaso - changed institutes, does he still have time to contribute?</i> ○ <i>Guido - we can add new members without removing others</i> <ul style="list-style-type: none"> ▪ <i>we don't need to get approval for changes to membership</i> □ Beatriz Sanchez-Cano and UG to propose new members to fill potential missing expertise in the areas of GIS/cartography/meta-data, space plasmas, and sample analyses. • Next meetings <ul style="list-style-type: none"> ○ date to be fixed now! <p><i>Beatriz Sanchez-Cano to send a poll with a few possible periods for a meeting next year</i></p>
13:00	Lunch		
14:30	Any other business	<ul style="list-style-type: none"> • Data User Guide template • Cosmos pages • Certification and release of data 	<p>DUG</p> <p><i>Data User Guide can be found here:</i></p> <p>https://s2e2.cosmos.esa.int/bitbucket/projects/PSAAS/repos/psa.pds4/browse/psa/templates</p> <ul style="list-style-type: none"> □ Beatriz Sanchez-Cano and UG to read and send comments and proposals for missing sections etc. <p>Cosmos pages, PSA UI, Confluence etc.</p> <ul style="list-style-type: none"> • <i>GF: We should include mission level documentation to describe mission and instrument goals</i>



	<ul style="list-style-type: none"> • Paying reviewers • Operational archiving • Facility instruments • Statistics • VEX tracking data <ul style="list-style-type: none"> ○ Nantes tracking data 	<ul style="list-style-type: none"> • <i>MB: in PDS4 the mission bundle document collection should contain e.g. the archiving plan and other related documents</i> • <i>BSC: reminds us that data coverage plots are still a useful way of discovering periods of data</i> <ul style="list-style-type: none"> ○ <i>MSB: we have a user story for this, but not pushed to development yet</i> □ <i>Mark Bentley to raise a ticket to update the information link on the PSA mission cards to point to the mission Cosmos pages in the first instance</i> • <i>BSC: NASA PDS GEO site has friendly links to the dataset in the website</i> <ul style="list-style-type: none"> ○ <i>can we do this for PSA?</i> □ <i>Emmanuel Grotheer to look into friendly links to datasets in MEX Cosmos pages</i> • <i>BSC: can we improve info about the map view to explain what it does? Update title of Mars orbital view to just Mars.</i> □ <i>Mark Bentley to raise a ticket to rename the map view card</i> <p>Certification and release of data</p> <ul style="list-style-type: none"> • <i>TL: this will be brought up with the FRENED team today</i> • <i>DH: when data are public, they won't care/see that data are bad - they will publish</i> <ul style="list-style-type: none"> ○ <i>it's a way to cover our tracks, but not helpful to the end user</i> ○ <i>include reviewers reports?</i> • <i>EG: prefers that we do not ingest data in the UI but we keep them somewhere else</i>
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			<ul style="list-style-type: none"> • <i>BSC: Mars Odyssey team - University of Arizona took over processing of data. Could we get another team to process the data?</i> • <i>GdM: Bepi was first mission to encapsulate that if we have pipelines we can release data if teams don't provide etc.</i> • <i>MB: Does our DUG contain info about versioning of products? If not, we should be sure this is in the template</i> □ <i>Mark Bentley to check if the data user guide template includes a section on calibration versions, major version changes, changelog etc.</i> • <i>DH: there is no one solution that will work for everything - we need to play this case by case and see what the issues are and what response is justified.</i> <p>Paying reviewers</p> <ul style="list-style-type: none"> • <i>JO: 2 months is short to review data</i> • <i>BSC: should we review BERM and RADEM together?</i> <ul style="list-style-type: none"> ○ <i>MB: difficult since missions have their own timelines</i> • <i>BSC: is it useful to release RADEM RAW only?</i> <ul style="list-style-type: none"> ○ <i>without flux units and calibration of each channel detection during solar events.</i> ○ <i>TC: we need to be careful due to PRODEX project funded to specific team.</i> ○ <i>JO: first contract - team misunderstood aim of contract, and focussed on science and not supporting ESA with data</i>
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			<ul style="list-style-type: none"> ○ <i>TC: discussions upcoming with PS and MM on reviews</i> <ul style="list-style-type: none"> ▪ <i>splitting raw and cal reviews of course means a lot more effort</i> <p>Facility instruments</p> <ul style="list-style-type: none"> ● <i>JUICE: 4, Bepi: 2</i> <ul style="list-style-type: none"> ○ <i>Accelerometer is linked to radio science and using EXPRO</i> <ul style="list-style-type: none"> ▪ <i>also covers calibration pipeline</i> ○ <i>not yet clear for operational decisions who makes them</i> ● <i>Owner of facility instruments - cameras + BERM - mission manager, HAA - 3GM</i> ● <i>NAVCAM + JMC = only internal support</i> ● <i>Clarify responsibilities for facility instruments - recommendation here?</i> ● <i>The user group discussed delaying release of RADEM for a few months. The main reason is that the data are not calibrated and will unavoidable required two reviews of the same dataset (for raw data and for calibrated when ready). Also, from the point of view of users, raw data may introduce error in the analysis if not discussed with the relevant people, as for example, some electron channels could be contaminated with protons during solar events. The user group, therefore, recommends to delay the data release until calibrated data are available.</i> <p>VEX tracking data</p>
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			<ul style="list-style-type: none"> • <i>DH clarifies that this request is coming from Pascale Rosenblatt who is working with tracking data. He already had acquired much of the VEX data and would like to archive this, e.g. in GSF.</i> • <i>MB will follow up during this visit to ESAC which data are available, which data he would like, and what interfaces could be used to get hold of them etc.</i> <p>Statistics</p> <ul style="list-style-type: none"> • <i>MB introduces some of the issues found recently, both in collecting stats, and trying to interpret them - in particular large spikes in downloads and numbers of unique users</i> • <i>GdM: Cluster data 1/3 papers published are from China, and see consistent increase in downloads in this area. Seen for several years</i> • <i>GF - how many professional planetary scientists are there? vs numbers of unique users.</i> • <i>GdM: should not forget that we also provide outreach/amateur relevant images</i> <ul style="list-style-type: none"> ○ <i>1/3 use pro mode of ESASky, 2/3 don't (science explorer - pretty pictures)</i> ○ <i>what type of data are downloaded?</i> • <i>Also some issues currently in extracting stats for multi-mission/instrument downloads</i> <ul style="list-style-type: none"> ○ <i>How many users make multi-mission queries?</i>
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			○ <i>GF - should we restrict to single mission queries?</i>
16:00	Close		

2. PREVIOUS ACTIONS

Description	Due date	Assignee	Task appears on
<input type="checkbox"/> Mark Bentley to check final recommendations from outgoing group and make sure these are capture and actioned where possible.		Mark Bentley	2023 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> Mark Bentley to draft some users stories for a basic GSF "archive" based on Product_External		Mark Bentley	2023 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> Mark Bentley to look into FAIR digital objects and how they could fit into the planetary workflow		Mark Bentley	2023 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> All to brainstorm possible European delegates to the MSR archiving working group			2023 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> Emmanuel to check if these will also be delivered to PSA		Emmanuel Grotheer	2023 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> Mark Bentley to compile a list of these and update the new user group on status and possible implementation		Mark Bentley	2023 PSA UG meeting 1: agenda and meeting notes



<input type="checkbox"/> Mark Bentley to find out what this entailed and where we are now		Mark Bentley	2023 PSA UG meeting 1: agenda and meeting notes
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3. NEW ACTIONS

Description	Due date	Assignee	Task appears on
<input type="checkbox"/> Mark Bentley to raise a ticket to update the information link on the PSA mission cards to point to the mission Cosmos pages in the first instance		Mark Bentley	2024 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> Mark Bentley to raise a ticket to rename the map view card		Mark Bentley	2024 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> Mark Bentley to check if the data user guide template includes a section on calibration versions, major version changes, changelog etc.		Mark Bentley	2024 PSA UG meeting 1: agenda and meeting notes
<input type="checkbox"/> Emmanuel Grotheer to look into friendly links to datasets in MEX Cosmos pages		Emmanuel Grotheer	2024 PSA UG meeting 1: agenda and meeting notes



<ul style="list-style-type: none"> □ <i>Beatriz Sanchez-Cano to talk to editorial boards and report back at next meeting.</i> 		Beatriz Sanchez-Cano	2024 PSA UG meeting 1: agenda and meeting notes
<ul style="list-style-type: none"> □ <i>Beatriz Sanchez-Cano and UG to propose new members to fill potential missing expertise in the areas of GIS/cartography/meta-data, space plasmas, and sample analyses.</i> 		Beatriz Sanchez-Cano	2024 PSA UG meeting 1: agenda and meeting notes
<ul style="list-style-type: none"> □ <i>Beatriz Sanchez-Cano and UG to read and send comments and proposals for missing sections etc.</i> 		Beatriz Sanchez-Cano	2024 PSA UG meeting 1: agenda and meeting notes
<ul style="list-style-type: none"> □ <i>Mark Bentley to confirm with GEO that they will not migrated PDS3 holdings for MEX, and also ATM for VEX</i> 		Mark Bentley	2024 PSA UG meeting 1: agenda and meeting notes
<ul style="list-style-type: none"> □ <i>Mark Bentley to discuss with archive scientists and contractor the best way to do this/</i> 		Mark Bentley	2024 PSA UG meeting 1: agenda and meeting notes
<ul style="list-style-type: none"> □ <i>Mark Bentley to discuss with science leads and management if we could consider a data repository for data linked to publications</i> 		Mark Bentley	2024 PSA UG meeting 1: agenda and meeting notes



<p><input type="checkbox"/> Mark Bentley to check previous recommendations on HK preservation to compare with discussion above</p>		Mark Bentley	2024 PSA UG meeting 1: agenda and meeting notes
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