

Community Interest in Data Buys



LSII | Data Buys

- NASA is interested to learn more about the interest in the LSIC community of NASA conducting data buys from commercial providers
- There are two types of data to consider
 - Data acquired as a by product of landing on the Moon
 - Dedicated data that require a specific instrument to be flown
- What kind of data access is required?
 - Does NASA buy an entire data set and put it in PDS?
 - Do users buy data directly from the providers?

LSII | By-Product Data

- Data acquired as a by product of landing on the Moon
 - Environmental Data
 - Radiation, thermal, illumination, dust, volatiles
 - Descent & Landing Imagery
 - Images of terrain during descent, surface panorama after landing
 - Landing & Post-landing effects
 - Plume/surface interactions
 - Technology/System Performance
 - Navigation performance, comm performance, landing precision, hazard detection and avoidance
- Are there additional data sets you would want?
- Are there data sets the lander will naturally acquire, but perhaps you need a variation of those data, e.g. a certain data set to be acquired at a higher cadence?

LSII | New Data Sets

- What data would enhance your ability to plan lunar surface operations?
- Data sets that require a dedicated instrument to be flown
 - E.g. New topography, or mineral map data sets
 - Could be either an orbital of surface data set
 - Monitoring Data for Situational Awareness
 - Rover locations and movement
 - Charging operations
 - Search and Rescue for lost rovers
 - Comm quality/performance

LSII General thoughts/questions

- Are there any Data privacy, Intellectual Property or Distribution Concerns
- Are these data global or regional in nature?
- Is there a different financial value for different data qualities, e.g. spatial or spectral resolution?
- What does this data set enable?
- How do you put a value on a data set (financial or otherwise)?
- What is the value of this data set to your LSIC/STMD/ESDMD, etc. mission?
- If you are a potential provider, what level of funding, if successful, is required for you to consider acquiring these data?
- Is the data you want a one-time acquisition? Every landing?
- Do you need it only for a particular region

APL

LSII | Our Survey Says.....

https://forms.gle/tuhzwAUaQLDivQ2D7



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