

### Independent

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#### PDS Program @ NASA HQ

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### PDS Project Office (GSFC)

Tim Mcclanahan
Project Manager

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Dep. Project Manager

David Hollibaugh Baker Dep. Project Manager

PDS Project Office empowered to manage PDS

Additional Staff
Maria Banks
Dave Williams
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Laura Givens

## **Discipline Nodes**

Atmospheres NMSU

Geosciences WUStL Cartography & Imaging Sciences USGS Flagstaff

PPI UCLA Ring-Moon Sytems SETI Inst.

Small Bodies U Md

**Technical Support Nodes** 

NAIF JPL Engineering JPL

## HQ Priorities for PDS

Priority #1: Trusted Repository ("Archiving")

- Peer Review of Input
- Long-Term Stability
  - Simple Data Formats

Priority #2 (FY20): PDS3-4 Migration

 HQ is eager to see the PDS3-4 migration completed as soon as feasible

Priority #3: Discoverability and Usability

- Unified Search
- Higher Level Data Products
- Creation and Management of Tools

Main Strategy for PDS: LEAN FORWARD

PDS must evolve!!



## PDS Senior Review

- PDS Cooperative Agreements expire in late 2020
- NASA HQ delayed Senior Review for renewal cooperative agreements
  - Until a larger scale review of the Planetary Data Ecosystem can be completed
    - more about this later in the talk
- PDS Nodes are able to request a 1-year funded extension to continue the current cooperative agreements through late 2021

# Strategy for Data Management and Computing for Groundbreaking Science 2019-2024

In December 2019, SMD published a report developed by a working group at NASA HQ

- Goals:
  - 1. Develop and Implement Capabilities to Enable Open Science
  - 2. Continuously Evolve Data and Computing Systems
  - 3. Harness the Scientific Community and Strategic Partnerships for Innovation
- PSD is looking at a variety of ways to embrace this strategy, including:
  - Making plans and exploring a move of PDS into the cloud environment
  - Completing a broad scale, overarching review of our entire PSD Data Ecosystem

# Planetary Data Ecosystem Review

- PSD has recognized that its data, archiving, tool development, and data programs are disjointed and do not connect under a broad strategy
- PSD will be undertaking a large, broad Planetary Data Ecosystem review by an independent review board (IRB) in Fall 2020
- The IRB will provide findings and recommendations to PSD from at least four sub-panels based on the working group:
  - Sub-Panel 1: Open Data/Open Software/Open Tools
  - Sub-Panel 2: Advanced Computing Capabilities
  - Sub-Panel 3: Archives Modernization
  - Sub-Panel 4: Management and Mission Critical/Enabling Assets

# Planetary Data Ecosystem Review

- Inputs to Review:
  - NAS studies of relevance
  - PDS roadmaps
  - PDS white paper (in development)
  - Additional project/program review materials
  - White papers solicited from the community
- Outcome of Review:
  - Report that includes findings and recommendations that can feed into PSD data ecosystem strategy document

# Planetary Data Ecosystem Review

Planetary Data Ecosystem				
Sub-Panel 1: Open Data/ Open Software/Open Tools	Sub-Panel 2: Advanced Computing Capabilities	Sub-Panel 3: Archives Modernization	Sub-Panel 4: Management and Mission Critical/Enabling Assets	Stakeholder Organizations
PDS Tools	High-End Computing	PDS (incl. all sub-nodes)	Project Offices and Program Management	MAPSIT
Jmars/JAsteroid	Cloud Computing Resources	NSSDCA	AMMOS	IPDA
Treks		Planetary Photojournal	LIODIZONE Custom	
		Astromaterials Acquisition and Curation Office	HORIZONS System	
PDART + DAPs		MoonDB	SPICE	
NASA Github/ NASA Planetary GitHub		PetDB	Legend:	
ISIS		Planetary Geologic Mapping Program/ Planetary Cartography Program (incl. Astropedia)	Data Archive/ Curated Data	
Ames Stereo Pipeline		RPIF	Community Tools/	
		HiTRAN	Processed	d Data



# Survey

- PDS has developed a customer satisfaction survey
- Survey is live
- Plan is to do this annually to observe trends
- Likely will be small changes to the survey after initial year

https://feedback.app.cfigroup.com/l/r/NASAPDSGen

