

# **Planetary Data System – Technical Session**

**Engineering Node, Pasadena, CA**  
**September 24-25, 2008**

## **Day 1 – September 24**

### Technical Session and PDS 2010 Overview

This session will kick off the technical meeting by identifying the key objectives of the meeting, the format, and reviewing the agenda. It will also provide a high level overview of PDS 2010 along with the system engineering process that is being followed.

### Fundamental Issue – I

This session will discuss the “Big Goals”:

- Who are our customers?
- What are the drivers we are trying to meet?
- What are the priorities?

### Fundamental Issue – II

This session will discuss how should the full PDS Data System be organized? - Where should it fall in the range from ‘Consensus Control’ to ‘Distributed Control’?

### System Architecture: Plans, Scope and Principles

In this session, the System Architecture Working Group (SAWG) will present for discussion the plans and approach for developing the system architecture for PDS-2010. In addition, the scope of the architecture and how it pertains to system development at the Node level will be discussed. An initial list of principles for guiding PDS-2010 design and development will also be presented. The goal for this session is to elicit feedback from the Tech Staff regarding the approach taken, the scope of the architecture and whether the appropriate principles have been identified.

### Data Architecture: Data Structure Approach

This session will discuss the Developmental Approach:

- Data Architecture Scope
- Data Models
- Information Model Development Phases

Followed by the Data Structure Approach - Clarify MC requirement for “fewer, simpler formats”

## **Day 2 – September 25**

### Data Integrity & System Topics

This is the session for miscellaneous topics:

- Data Integrity Development – C. Bradshaw (Imaging)
- Distributing JPEG2000 Files – R. Heyd
- Java 1.5 Upgrade and other platform issues – S. Hardman

### System Architecture: Views and Models

In this session, the SAWG will present for discussion the approach for defining and developing views for the PDS-2010 system. The goal for this session is to give the Tech Staff an idea of the kind of artifacts that will be produced to describe the architecture of the system.

### System Architecture: Core Services and Definitions

In this session, the SAWG will present for discussion an initial list of services for the PDS-2010 system. The goal for this session is to determine whether the PDS functions have been allocated to appropriate services and whether current and proposed functionality have been represented.

### System Architecture: Migration Planning

In this session, the SAWG will present for discussion the process and steps for migrating the existing PDS system to the proposed PDS-2010 system. This will also include how existing applications will be integrated with the new system.

### Data Architecture: Discussion and Recommendations

The following will be discussed:

- Address remaining issues
- Develop recommendations