



Info for Proposers

Benefit

- Archiving with PDS ensures long-term usability and preservation of data, as PDS rigorously defines standards for data and metadata as well as tools, documents, procedures, and contacts to promote compliance.
- Compliance with PDS standards allows data to be searchable in PDS's online catalog, as thousands of data sets from different missions already are.

Recommendation

- At the earliest stage of proposal formulation:
 - Have good understanding of archiving process
 - Understand PDS organization structure
 - Get help from PDS (online, PDS staff)
- Include in the proposal:
 - Discussion of data delivery to the PDS
 - Integration of archiving and data production pipeline
 - Adequate budget allocated to support archival activities

Proposers' Help

- Help can be found at:

<http://pds.nasa.gov/tools/proposing-missions.shtml>

- Proposer's Archiving Guide

http://pds.nasa.gov/documents/pag/pag_jan_03_07.pdf

- Archiving Cost Analysis Tool

<http://pds.nasa.gov/tools/cost-analysis-tool.shtml>

- Archive Preparation Guide

<http://pds.nasa.gov/tools/archiving.shtml>

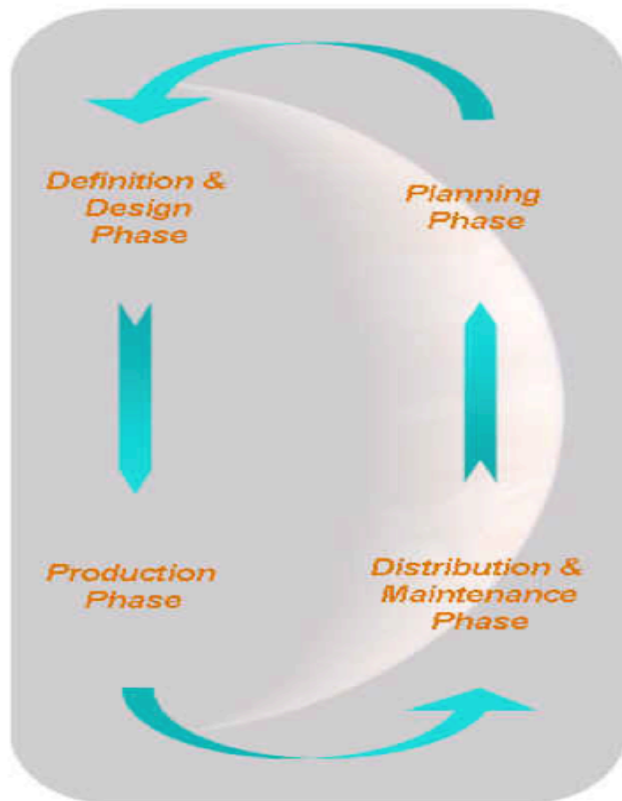
- PDS Organization

<http://pds.jpl.nasa.gov/about/organization.shtml>

- PDS Staff Contact

<http://pds.jpl.nasa.gov/contact/contact.shtml>

Archival Life Cycle



Planning Phase:

- Data archiving requirements written into mission Announcement of Opportunity
- Pre-proposal briefing on PDS data archiving requirements given to potential proposers
- Proposal data archiving section reviewed by PDS
- PDS orientation to flight project staff
- Data archiving working groups formed

Definition & Design Phase:

- Project Data Management and Archive Plans define data to be archived
- Data Product and Volume Organization Software Interface Specifications detail the data and volume structure
- Preliminary metadata labels loaded into PDS catalog

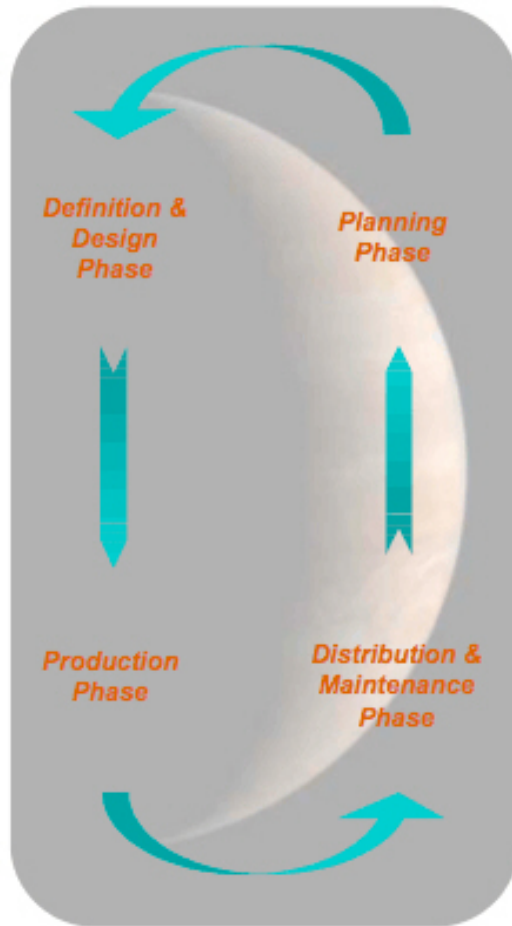
Production Phase:

- Raw and processed data products, labels (metadata) and documentation produced
- Preliminary and quick-look data made accessible via Project and PDS web pages
- Data archive products validated and peer-reviewed; liens corrected

Distribution & Maintenance Phase:

- Final data products made available on-line
- PDS add the data to the archive
- Physical copies sent to NSSDC
- PDS provides data, documentation and science expertise to users
- Data archive maintained via periodic media refreshes, addition of new / updated data products

PDS Support



- **During Archive Planning Phase:**
 - Assists as early as possible to plan the archive function.
 - Assists in development of cost estimations for archiving.
- **During Archive Definition & Design Phase:**
 - Assists in writing and reviewing the project documentation to detail the data and volume structures to be archived.
 - Assists in selecting appropriate product metadata (keywords) used to describe the data products.
 - Assists in the design of PDS-compliant data sets and volumes.
 - Supports extensive testing of the ingestion of data prior to operations.
- **During Archive Production Phase:**
 - Reviews sample raw and processed data products, labels, and documentation and identifies issues that could cause later problems that might require reprocessing of large volumes of data.
 - Assists in project reviews (e.g., Critical Design Review, Mission Readiness Review, etc).
 - Assists in conducting peer-reviews against the sample data products/volumes as well as resolving liens.
- **During Archive Distribution and Maintenance Phase:**
 - Ensures that products are being appropriately ingested, their metadata is being catalogued into the PDS Catalog, and data are available via the PDS distribution infrastructure.
 - Delivers data products to long term archive (NSSDC).