

PDS Data Services Project Planning

PDS MC F2F
Santa Barbara, California
Aug 13, 2019















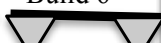






White Paper: Next Steps

- Tie off federated architecture white paper
 - Update with node inputs; validate detail
- Achieve MC agreement on executive summary
 - Consider whether to also publish a brief/vision on future directions of PDS
- **Formulate a more detailed project plan with resources for discussion with MC**
- Consider whether to stand up a WG at some point

Project Planning for PDS Federated Data Services

- Plan as a PDS-wide project
 - Led by project office
 - Costed
 - Scheduled
 - Phased
- Follow NASA mission-project lifecycle
 - Formulation of concept, project plan
 - Formulation of the architecture
 - Detailed design
 - Regular releases (phased)

Example: PDS4 Project

Project Lifecycle	Pre-Formulation	Formulation	Design and Implementation								
Project Lifecycle Gates & Major Events	 Begin Study Project	 KDP: Study  Study/ Concepts	 Project Plan	 KDP: Project Plan & Arch  PDS4 Prelim Architecture	 KDP: Prelim Design  PDS4 Design	 KDP: Release V1.0 Data Stds  Build 1 2010	 Build 2 2011	 Build 3 2012	 Build 4 2013	 Build 5 2014	 Build 6 2015
Project Reviews	 PDS MC Concept Review (Dec 2007)	 PDS MC Impl Review (July 2008)	 PDS MC Arch Review (Nov 2008)	 PDS External System Design Review I (Mar 2010)	 PDS External System Design Review II (June 2011)	 PDS4 ORR (External) (September 2013)					

Suggested Approach

- Tie off white paper and high level exec summary of concept
- Between now and November, Project Office and EN formulates project plan with node input
- Allocate a portion of the November 2019 F2F to:
 - Review concept and augment as needed
 - Review initial project plan including schedule
- Allocate a portion of the April 2020 F2F to:
 - Review architecture
- Drive concept, project plan, and resource needs into FY21+ PPBE
- EN can take lead to begin some upfront work in FY20, while PDS-wide resource needs are put in place

Working Group Discussion

- Do we need a WG to guide the concept, architecture and implementation?
- Important to have members participate who have experience and knowledge in building data type services
 - Designing APIs
 - Standing up web services
 - Leveraging open source tools