

HiROC GDS

Software Development Plan

HiRISE HiCat Review



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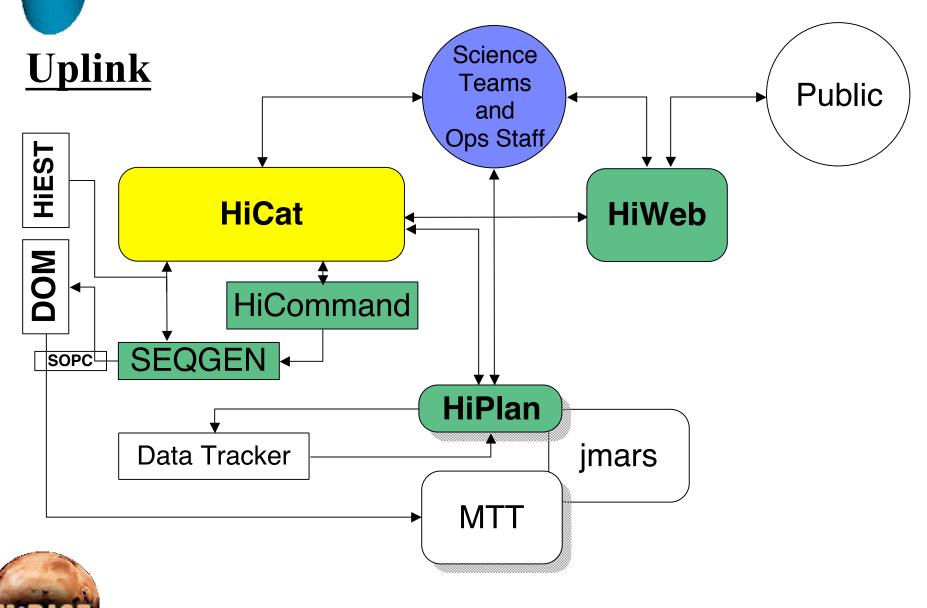
13 October, 2004



HiCat Review 1

HiROC GDS

Software Development Plan





HIROC GDS

Software Development Plan

Primary Uplink Elements

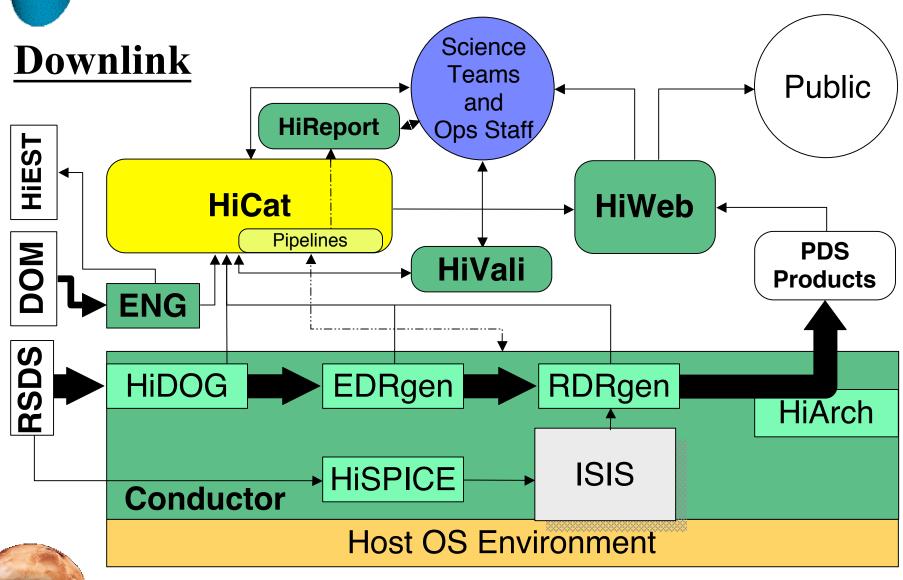
- HiWeb: Suggestions
 - Suggestors
 - General public
 - Science team
 - Observation suggestion location and type
 - Large (100k?) pool of potential observations
- HiPlan: Parameters
 - Science team and targeting specialists
 - Pending
 - Committed
- HiCommand: Commands
 - Spacecraft command file generation
 - Sequence check
 - Delivery confirmation





HiROC GDS

Software Development Plan





HIROC GDS

Software Development Plan

Primary Downlink Elements

- Conductor: Pipelines
 - Procedures (small, static)
 - Sources (large, dynamic)
 - Cumulative record of all files processed
 - Status of all procedures executed
- Subsystems
 - Product metadata and data location
 - Production monitoring (HiReport)
 - Data validation (HiVali)
 - Data distribution (HiWeb)
- Archive (HiArch)
 - Planetary Data System requirements







HIROC GDS

Software Development Plan

Database Operating Environment

- Unix: Solaris and/or Linux host OS
- MySQL server
 - Replicated multi-host server systems
 - "front end"
 - high demand/high performance
 - good availability
 - remote access security
 - "back end"
 - low demand
 - high availability
 - local access



