Application Layer (LDM-151)

- Scientific Layer
- Pipelines constructed from reusable Algorithmic Components
- Data Products represented by Shared Software Primitives
- Object-oriented, python, C++ Custom Software

Middleware Layer (LDM-152)

- Portability to clusters, grid, other
- Provide standard services so applications behave consistently (e.g. provenance)
- Preserve performance (<1% overhead)
- Custom Software on top of Open Source, Off-the-shelf Software

Infrastructure Layer (LDM-129)

- Distributed Platform
- Different sites specialized for real-time alerting vs peta-scale data access
- Off-the-shelf, Commercial Hardware & Software, Custom Integration

02C.01.02 SDQA System		
02C.05 Science User Interface and Analysis Tools	02C.03, 02C.04 Alert, Calibration, Data Release Productions	
02C.06.01 Science Data Archive (Images, Alerts, Catalogs)	Algorithmic Components	
02C.03.05, 02C.04.01 Shared Software Primitives		
02C.06.02 Data Access Services	02C.07.01, 02C.06.03 Processing Middleware	
02C.07.02 Infrastructure Services (System Administration, Operations, Security)		
02C.07.04.01 Archive Site	02C.07.04.02 Base Site	02C.08.03 Long-Haul Communications
Physical Plant (included in above)		

Data Management System Design LDM-148