Application Layer (LDM-151)

- Scientific Layer
- Pipelines constructed from reusable, standard "parts", i.e. Application Framework
- Data Products representations standardized
- Metadata extendable without schema change
- 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, Offthe-shelf Software

<u>Infrastructure Layer (LDM-129)</u>

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

02C.05	02C.01.02.02 - 03
Science User Interface	SDQA and
and Analysis Tools	Science Pipeline Toolkits
	02C.01.02.01, 02C.02.01.04,
02C.06.01	02C.03, 02C.04
Science Data Archive	Alert, SDQA, Calibration,
(Images, Alerts, Catalogs)	Data Release
	Productions/Pipelines
02C.03.05, 02C.04.01 Application Framework	



