Caltech Data Warehouse: Overview of System Architecture

**SOURCE SYSTEMS**
Caltech administrative systems that support daily business operations

**SOURCE SYSTEMS**
- ORACLE
  - AP – Accounts Payable
  - CLAS
  - GEMS
  - GA – Grants Accounting
  - GL – General Ledger
  - HR – Human Resources
  - LD – Labor Distribution
  - PO – Purchase Orders

**ETL**
(process of Extracting, Transforming, and Loading data from the source systems)

**ORACLE**
- AP – Accounts Payable
- CLAS
- GEMS
- GA – Grants Accounting
- GL – General Ledger
- HR – Human Resources
- LD – Labor Distribution
- PO – Purchase Orders

**DATAMARTS**
Tables are grouped into “star” schemas to support a particular business process

**Cubes**
- Blue = in production
- Red = coming

**ETL**
- Pre-developed reports provide answers to common business questions.
- Users create their own ad-hoc queries and reports.
- “Cubes” provide fast and flexible analysis of huge quantities of data.

**Cognos Framework Manager**
Metadata is managed to maximize data queries

**USER REPORTING**
Users access reports through three Cognos tools:
1. Report Studio
2. Query Studio
3. Analysis Studio