Tracker database

Tim Thurston
Eduardo do Couto e Silva

Grading System

Modularity is on the ladders

- Grade ladders according to the leakage current, number of bad channels and alignment of detectors

- After trays are instrumented with these ladders and connected to the readout electronics assign a final grade (use same grading system if possible)

- Need a document to define acceptance criteria (repairs, rejects and spares) and assembly strategy (where to place ladders according to the grading system)

Final Data Products

- Leakage current per tray (per ladder would be better)

- Strip coordinates (x,y,z) with respect to local reference system

- Location of dead strips
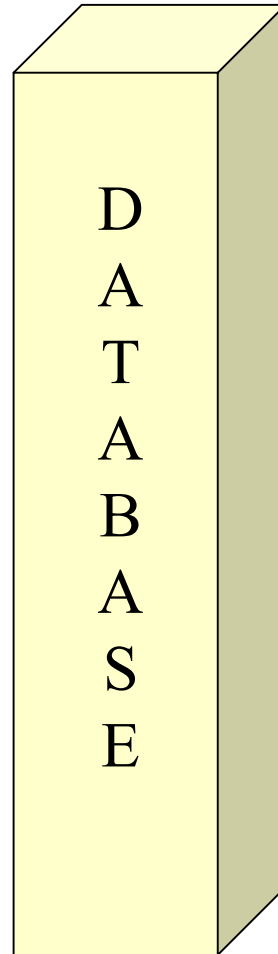
- Location of noisy strips

ITALY   USA

D
A
T
A
B
Inspection   A   Inspection ?
                              S
                              E
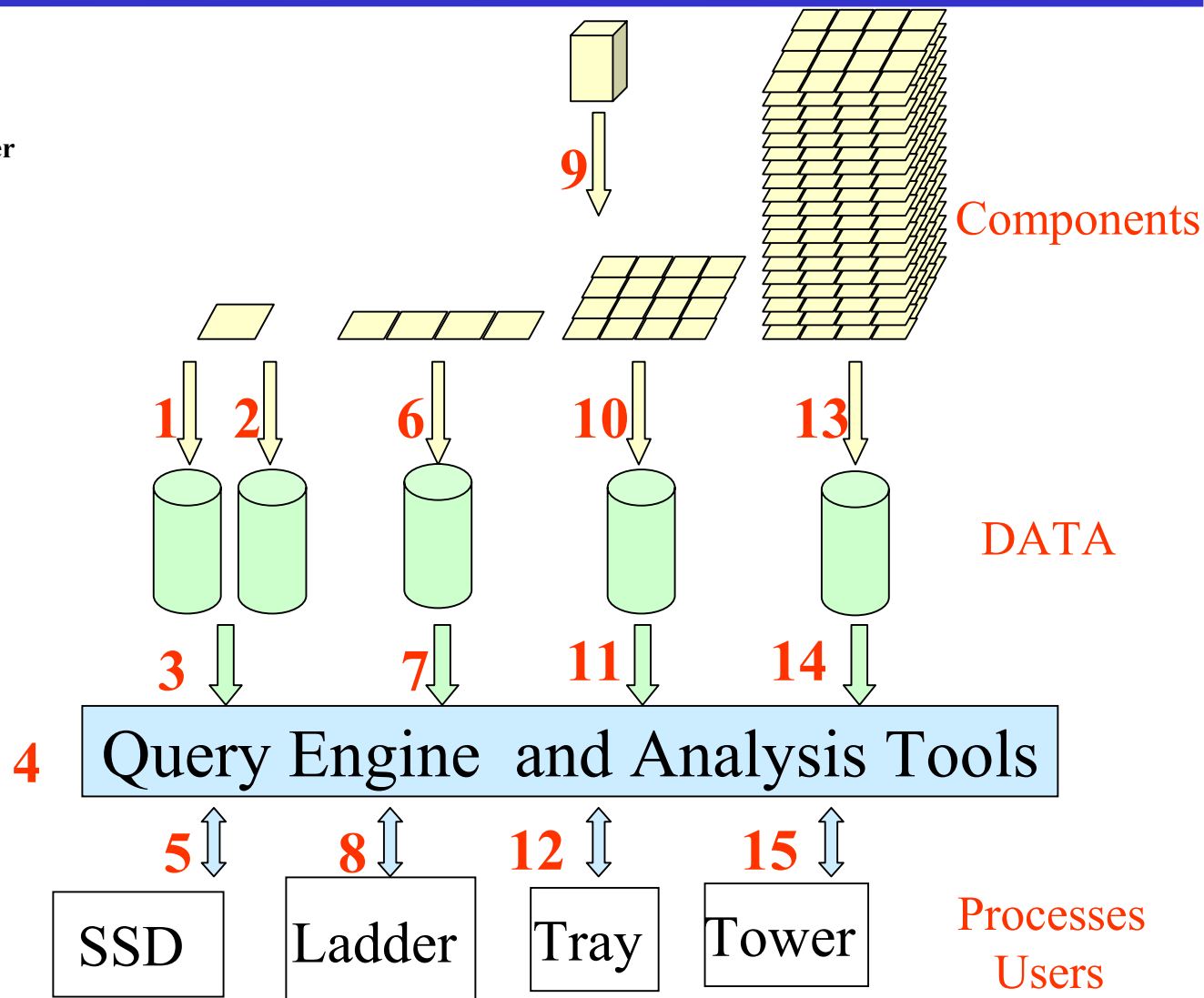Assembly   Assembly ?

                                     Integration

1. **SSD tests from the manufacturer**

2. **SSD tests from GLAST**

3. **SSD raw data**

4. **ORACLE database**

5. **SSD process and users**

6. **Ladder tests from GLAST**

7. **Ladder raw data**

8. **Ladder process and users**

9. **Tray components (MCM, kapton…)**

10. **Tray tests from GLAST**

11. **Tray raw data**

12. **Tray process and users**

13. **Tower tests from GLAST**

14. **Tower raw data**

15. **Tower process and users**

Components

DATA

1 **2** **6** **10** **13**

3 **7** **11** **14**

4 Query Engine and Analysis Tools

5 **8** **12** **15**

SSD Ladder Tray Tower

Processes
Users

Schedule and Dependencies

		Our Specs	Drop Dead Date	Deliverables
SSD	1	LAT 00-00014	01 Jan 2001	Products and performance data (manufacturer)
Oracle	3,5		01 Feb 2001	Oracle engine with set-up and output
	2		01 Mar 2001	Products and performance data (GLAST)
Ladder	6,7,8		01 Jun 2001	Same as above
Tray Components	9		01 Sep 2002	Same as above
Tray	10,11,12		01 Jan 2003	Same as above
Tower	13,14,15		11 Mar 2003	Same as above