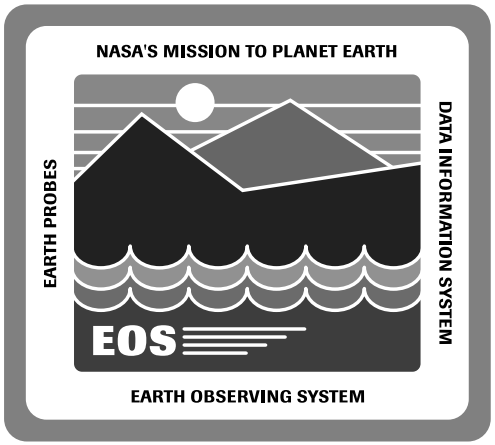
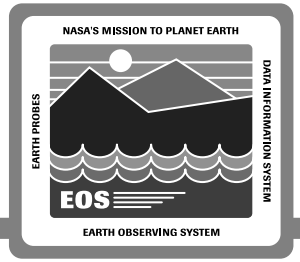



# Algorithm Integration & Test Tools CSCI

## Narayan Prasad

**15 February 1995**

# Road Map for Planning & Processing Presentation




**Overview**
- **Concept Drivers, Key Features**
- **Production Management Flow**

**Software Model**

**COTS/Prototypes**
- **Evaluation**
- **OTS and Software Reuse**

**Phasing of Capabilities**

**Scenarios**

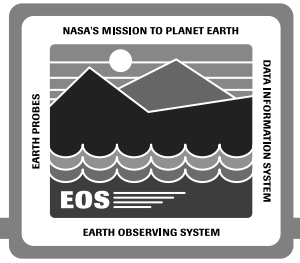
**Cross DAAC Scheduling/Planning**

***Other Data Processing CIs***
- ***AI&T Tools***
- ***Science Data Preprocessing***

**Hardware**

**Issues**

# AITTL Consists of Software Tools for Algorithm I&T




**Includes:**

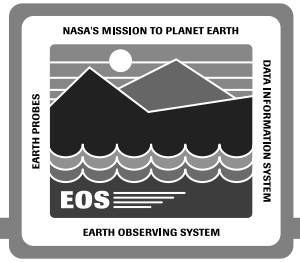
- **Tools to examine science software documentation**
- **Standards checkers and code checkers**
- **Diagnostic tools**
- **Profiling tools**
- **Tools to update and access databases**
- **Report generation utilities**

**Does <u>not</u> include:**

- **AI&T hardware, development environments, OS utilities (AITHW)**
- **AI&T procedures (ECS Science Office)**
  - **205-CD-002-001, "Software Developer's Guide to Preparation, Delivery, Integration and Test with ECS"**

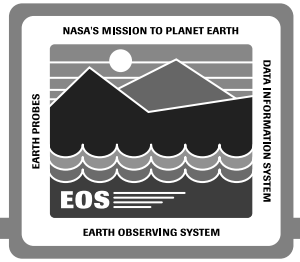
    **194-WP-925-002, "Operations Concept for Integration and Test of Science Data Production Software"**

# Distribution of AI&T Capabilities




- **Data Ingest**
  - **receive science software delivery**
- **Management subsystem**
  - **configure delivered files**
- **Data Processing**
  - **examine delivery for completeness**
  - **compile and link delivered source files**
  - **run test cases**
  - **examine test outputs**
  - **diagnose errors**
  - **collect resource requirements statistics**
  - **update system databases**
  - **write reports and maintain logs**
  - **write additional ad hoc tools**

# AITTL Computer Software Components




**IR-1 starts with...**

- Documentation Viewing Tools
- Standards Checkers
- Static and Dynamic Code Checkers
- File Comparison Utility
- Profiling Tools
- Report Generation Tools
- Product Metadata Display Tool

**Rel. A adds...**

- PGE Database Update GUI
- Data Visualization Tools
- Manual Staging GUI

**Rel. B completes with...**

- Data Server Update GUI

COTS | Custom