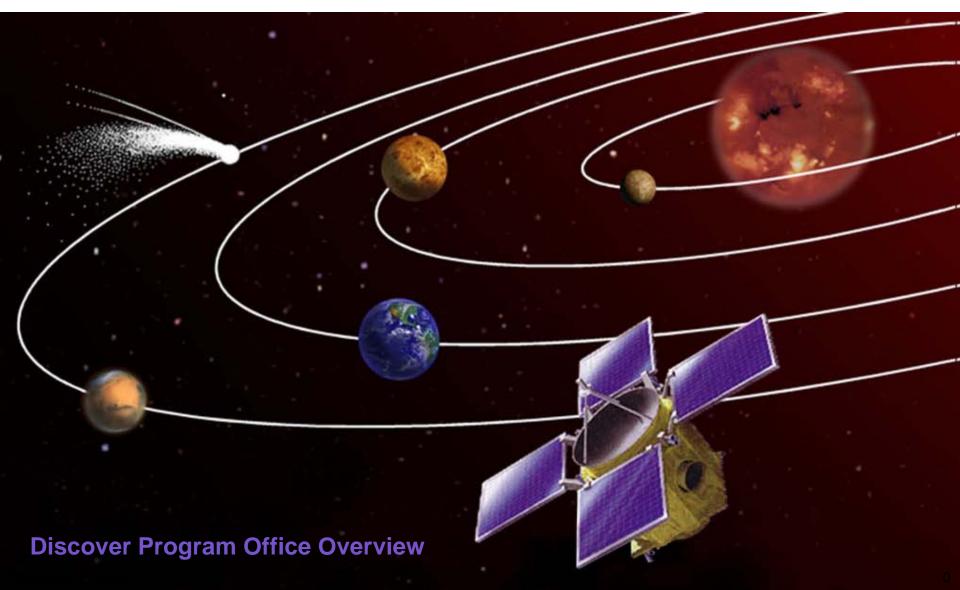
#### **National Aeronautics and Space Administration**

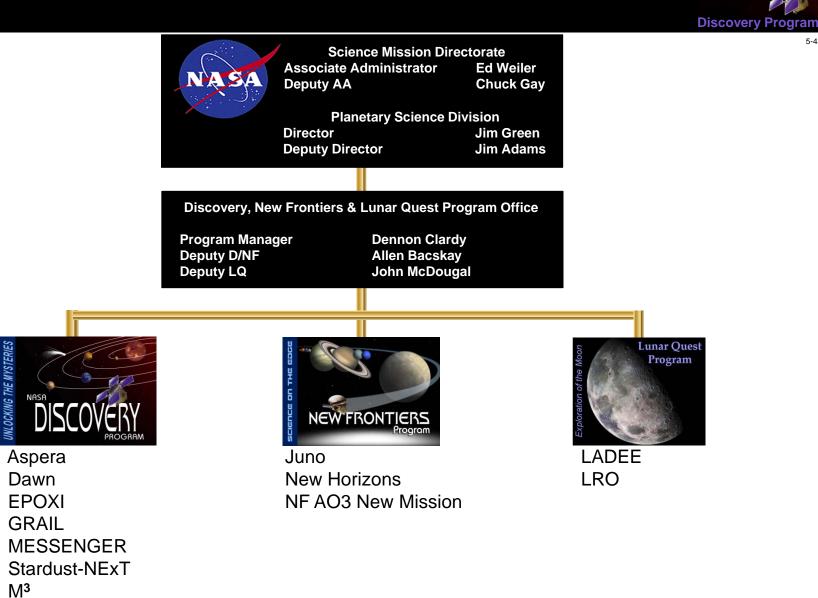




### **Discovery, New Frontiers, & Lunar Quest Program**

Strofio

**Discovery AO 2010** 



5-43702

# Program Office Goal

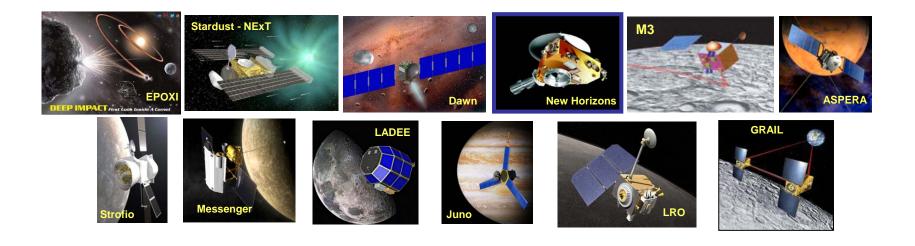


### Goal .....

Enhance the probability of mission success of Discovery Projects through independent oversight and insight through all phases of the mission life cycle utilizing a high-powered, effective, and efficient team.

### Success is.....

- Delivering Mission Science to the PI (meet the Level I requirements)
- Ensuring the implementing organization's success in delivering the spacecraft on cost and schedule (meet the launch date and cost cap)
- Meeting the Program launch frequency for Science Missions





### Approach .....

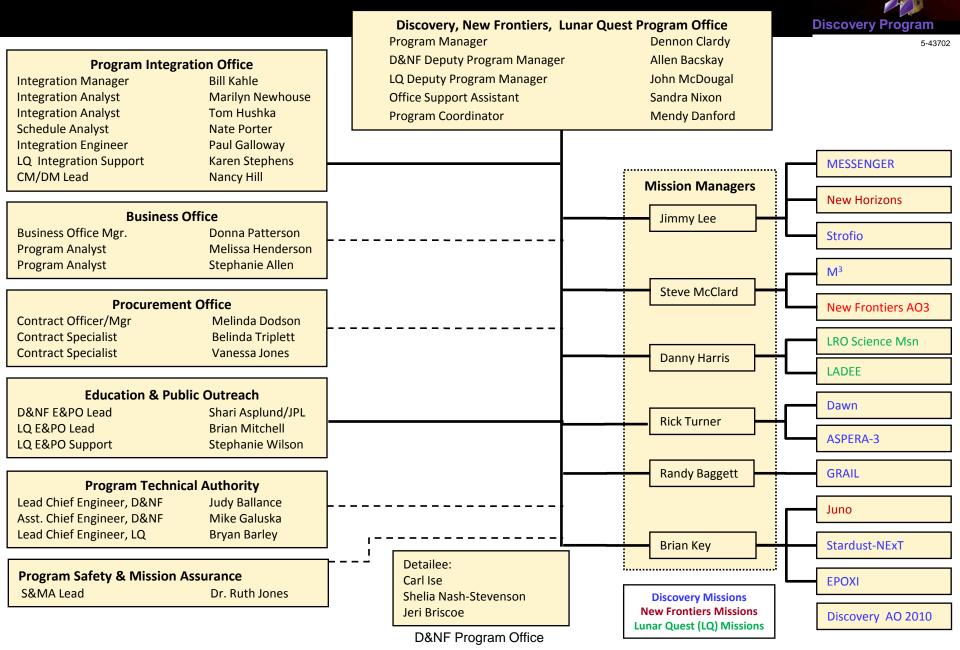
 Shared partnership for mission success with Headquarters and project teams. Right level of Government involvement to mitigate program risk

### Relationships .....

- Role: Implement our role as a program office, while recognizing the responsibility and authority of the projects and institutions
- Fairness: Operate with integrity and fairness at all times with all parties
- Trust: We will approach new relationships with an attitude of trust

Respect: Recognize the dedication and capability of the PI/project teams, especially during times of problems

#### Discovery, New Frontiers, & Lunar Quest Program Office Organization



# Program Office Primary Responsibilities



#### Implement 7120.5 Program Management functions

- > Split responsibility between the SMD Program Director and Discovery Program Manager
- Program Manager focus is implementation of Phases B, C, D, E

# Perform limited oversight and insight of projects (budget, schedule, technical and risks) (Phase B, C, D, E)

When, where and how deep to penetrate determined by assessment of risks and modulated by available budget

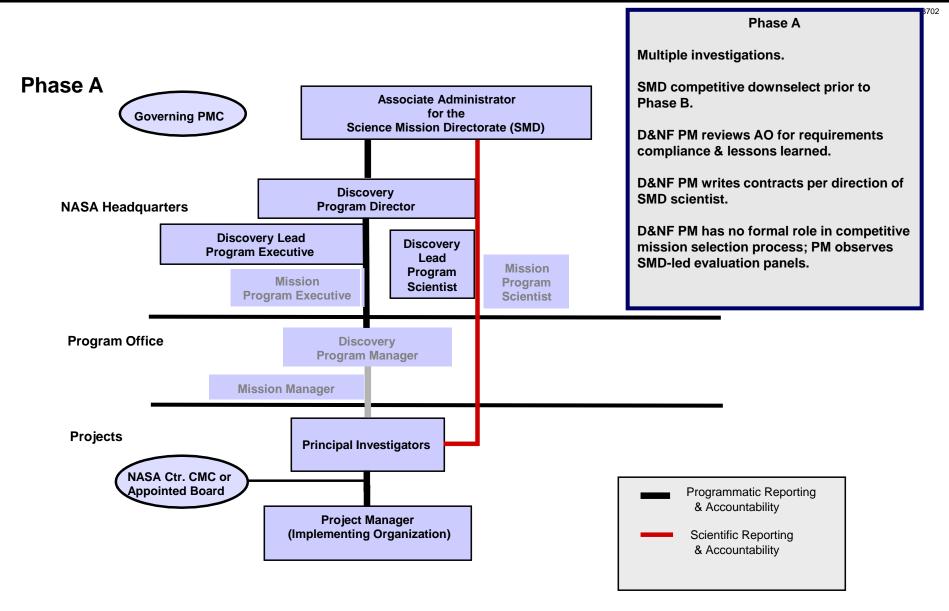
#### Manage program implementation budgets (Phase B, C, D, E)

- Independently assess project performance to plan
- Ensure projects receive required funding per plan
- Collect POP data from projects, provide integrated assessment/input to SMD

#### Administer contracts (Phase A, B, C, D, E)

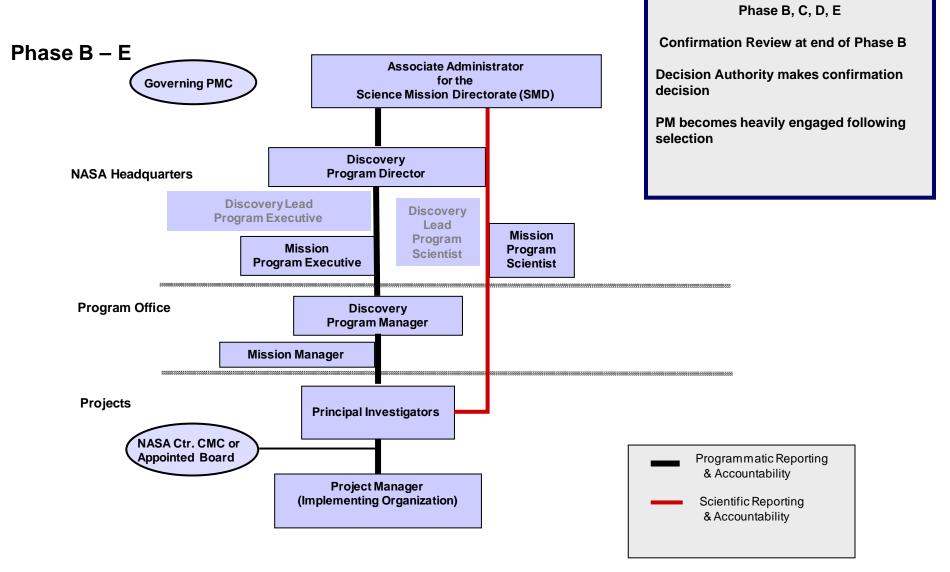
Execute Task Agreements with JPL, perform COTR function on APL missions, and execute contracts with PI institutions

# Program Structure Phase A



Discovery Program

# Program Structure Phases B, C, D, E





# **Roles and Responsibilities**



- After <u>selection</u>, <u>Principal Investigators</u> are responsible to the Program Manager for programmatic success and to the AA for SMD for scientific success
  - Principal Investigator (PI) vested with overall responsibility for scientific integrity and mission success
  - Project Manager is responsible to the PI for the successful development and implementation of the mission. They report to their institutional management and programmatically through the Discovery Program Manager
- Program Manager is responsible for mission project formulation, development, launch, on-orbit checkout, mission operations, and data analysis
  - Ensuring that the Discovery project adheres to committed cost, schedule, performance, reliability, safety requirements, and E&PO
  - Discovery Program Office works directly with Project Manager in accomplishing the mission, particularly in the areas of resource allocation and utilization, oversight, reporting, and resolution of project issues
  - Mission Managers act on behalf of the Program Manager and are the primary Program Office interface for Principal Investigators and Project Managers

Specific roles are defined in the Discovery Program Plan (DISC-PLAN-001), available on-line in the Discovery Program Library; <a href="http://discovery.larc.nasa.gov/discovery/dpl.html">http://discovery.larc.nasa.gov/discovery/dpl.html</a>

# **Mission Managers**



#### Key Roles and Responsibilities

- Mission Managers (MM) function as the PMs day-to-day point-of-contact for all assigned projects, performing technical and programmatic management functions on behalf of the PM and ensuring the PM maintains an awareness of the project status. The MM responsibilities include:
  - Interface directly with the Project Managers to develop inputs for program planning and integration or to resolve project issues
  - Perform independent evaluation of project metrics, schedule, cost data, management, and issues for the PM
  - Perform independent assessments of projects to identify risks and mitigations
  - Serve as the Program Office advocate to NASA management, the public, and other Government entities for assigned projects
  - Lead the development of decision packages or products that are fully coordinated within the Discovery Program and with the related PIs and Project Managers
  - Ensure that appropriate program resources are provided to the projects in a timely manner

# **Contracts / Business Management**

#### Contract Management

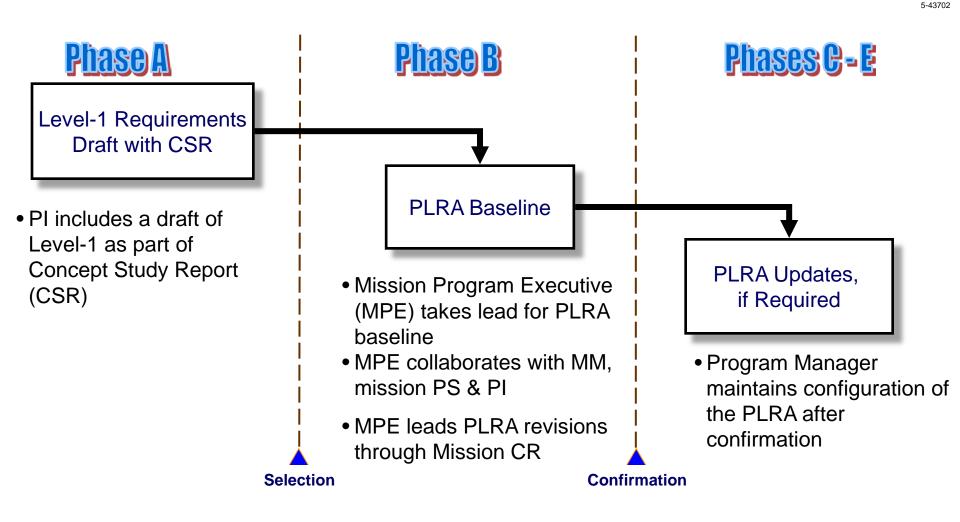
- Program Office manages contracts with Principal Investigator organization and implementing organization, if applicable
  - If the organization has an associated NASA Management Office (NMO) the contract is managed by the NMO with input from the Program Office on the project task
- Program Office provides Phase A contract support as a service to SMD, however the Program Office is not involved in the selection process

#### **Business Management**

- Program Business Office coordinates the annual overall program budget planning activity in conjunction with all Discovery projects
  - Results are documented in a Program Funding Agreement with each Project
- Missions are required to provide standard NASA financial reports
- Missions are responsible for the overall project budget
  - Information on project by-pass funding (e.g. direct funding to NASA centers) is provided by the Program Office
- Missions are required to implement Earned Value Management developed in phase B, utilized during phase C/D

Discoverv Progra

5-43702



Discoverv Program

### **Discovery Program Office**

#### Information Request/Flow Process



5-43702

