2009 and Beyond:

How We Do Business at JPL

12th Annual Small Business Science Forum & Vendor Fair

Bernie Bienstock
Manager, Opportunity Development

JPL's Core Competency

End-to-End Implementation of Unprecedented Robotic Space & Earth Science Missions

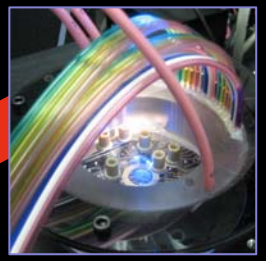
We Do This By:

1. *Developing and integrating world-class capabilities in Science, Engineering, and Technology*

2. *Using hands-on, in-house, experienced workforce, and collaborating with Industry, other NASA Centers, Academia and International Partners*

End-to-End Capability

Flight Instruments



Team X Concept Development

Mars Rover Assembly

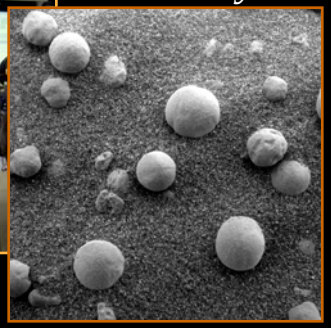
Cassini Spacecraft TV test

Launch of Spirit

Enabling Technologies

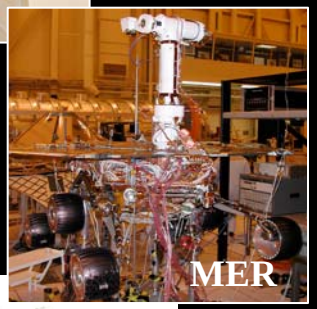
Mission Ops

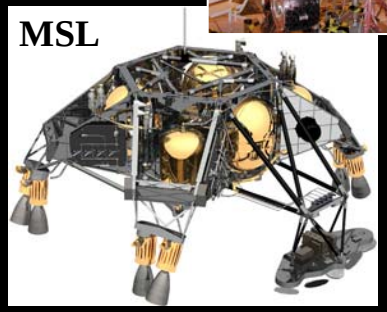
Science Return & Analysis



Three Implementation Modes

"In-House"

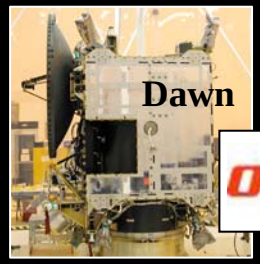




System Contracted

GENERAL DYNAMICS
Strength on Your Side™

LOCKHEED MARTIN



Orbital

Ball

Hybrid

NORTHROP GRUMMAN

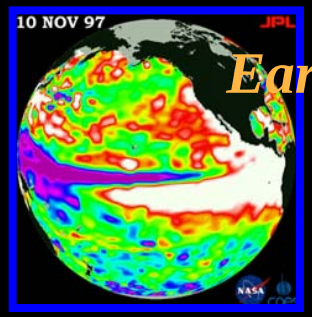
The Seven JPL Businesses

Sponsored by SMD

Solar System

Mars

Astrophysics



Earth

Sponsored by SOMD

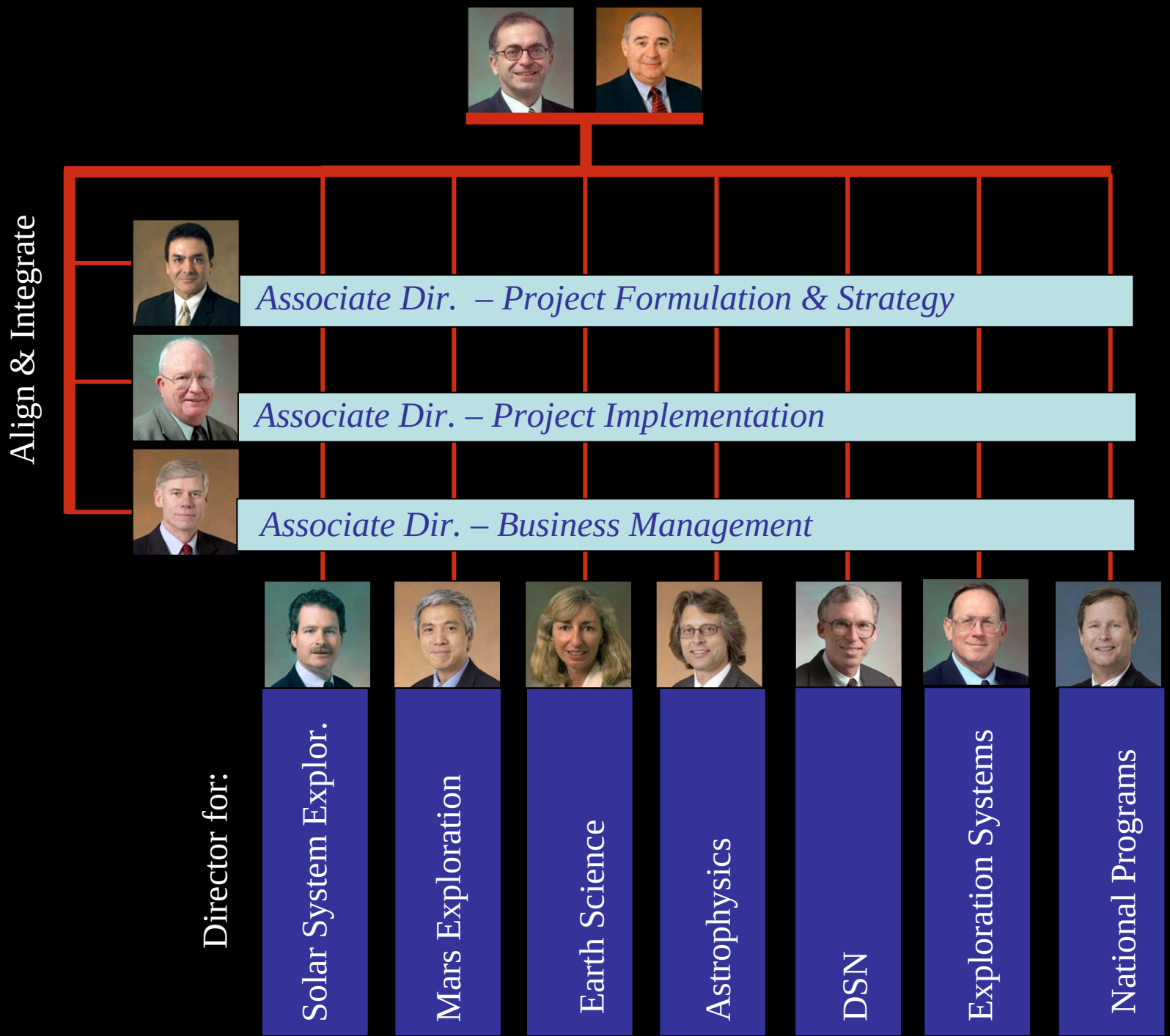
DSN

Sponsored by ESMD

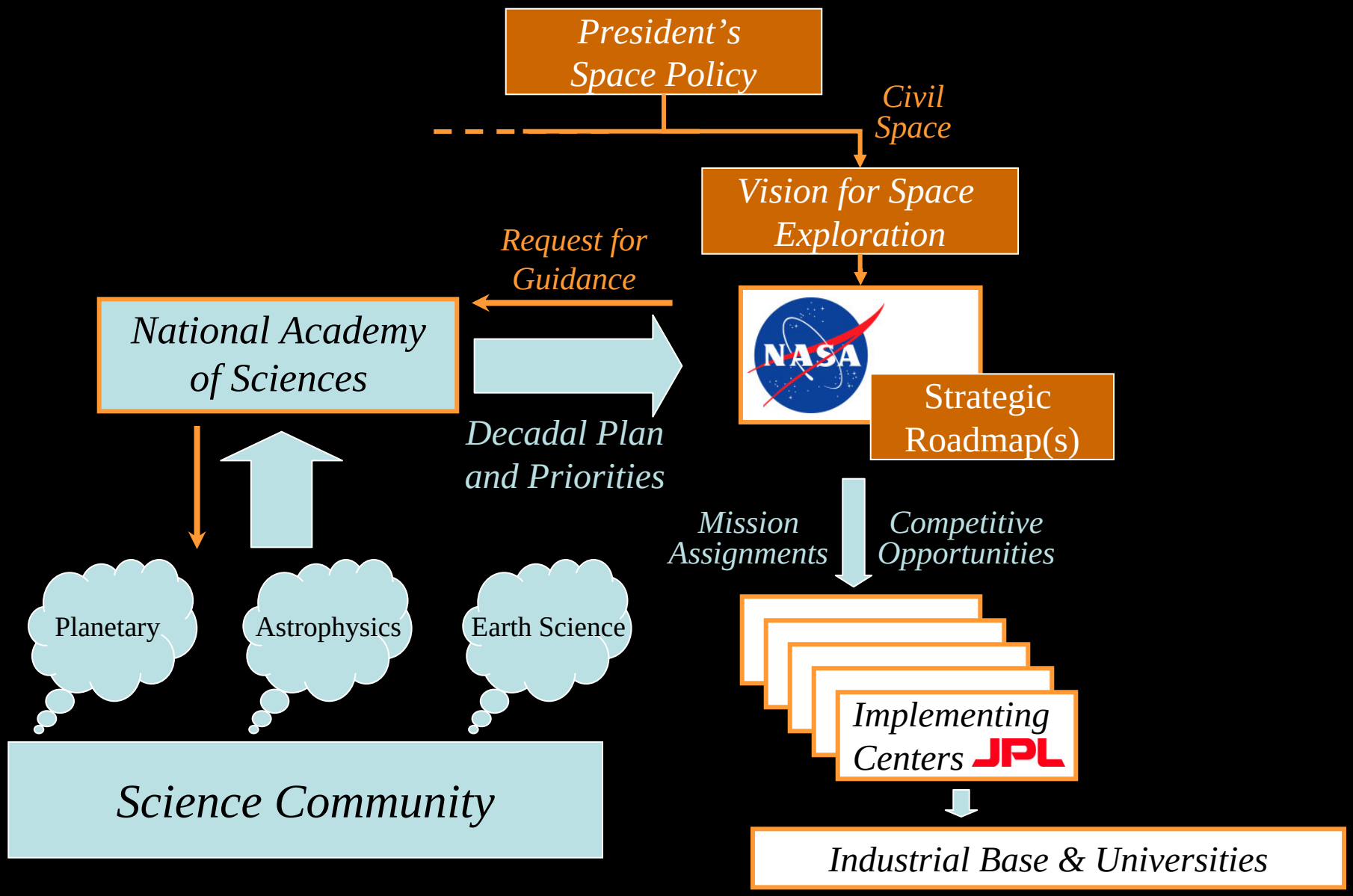
ESTO

Sponsored by non-NASA

NSTA


Align & Integrate
Associate Dir. – Project Formulation & Strategy
Associate Dir. – Project Implementation
Associate Dir. – Business Management
Director for:
Solar System Explor.
Mars Exploration
Earth Science
Astrophysics
DSN
Exploration Systems
National Programs

Flow of Requirements



JPL Space Missions
August 2008

Formulation (8)

Pipeline

Outer Planets (2016)

Exo-Planet (2015)

GRAIL (2011)

SIM (201X)

DESDynI (2017)

Juno (2011)

NuSTAR (2011)

Soil Moisture (2012)

Planetary/Mars | Astrophysics | Earth Science

Implementation (5)

WISE (2010)

OCO (2008)

MSL (2009)

Kepler (2009)

Aquarius (2009)

Planetary/Mars | Astrophysics | Earth Science

Operations (19)

Dawn (2007)

Deep Impact (2005)

EPOXI

Stardust (1999)

Stardust Next

Cassini (1997)

Phoenix (2007)

MRO (2005)

Spirit (2003)

Opportunity (2003)

Odyssey (2001)

Spitzer (2003)

Galex (2003)

Voyager 1 (1977)

Voyager 2 (1977)

OSTM (2008)

CloudSat (2006)

Grace (2002)

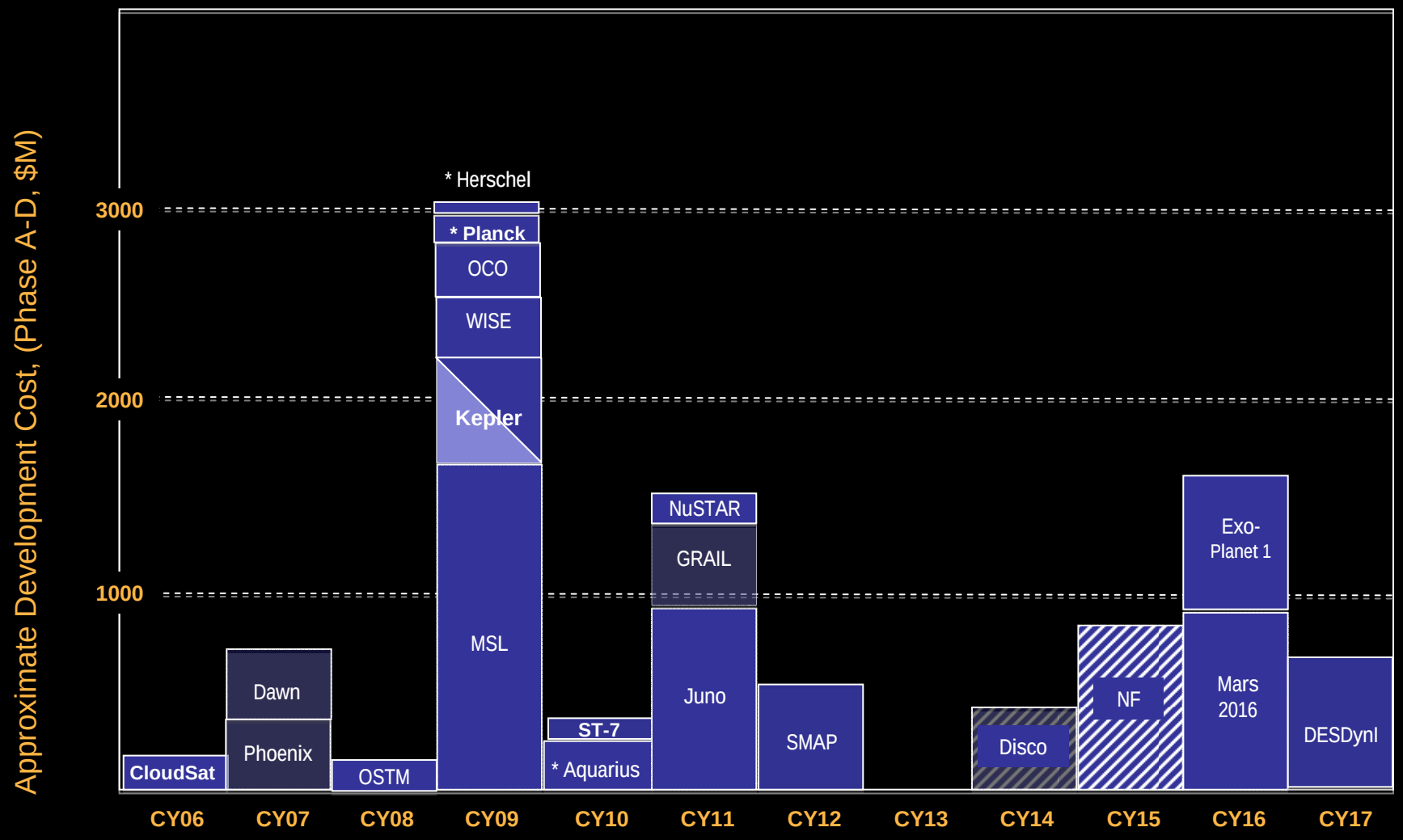
Jason-1 (2001)

QuikScat (1999)

AcrimSat (1999)

Planetary/Mars | Astrophysics | Earth Science

JPL Forecast by Launch Year



** Missions Led by International Partner*