

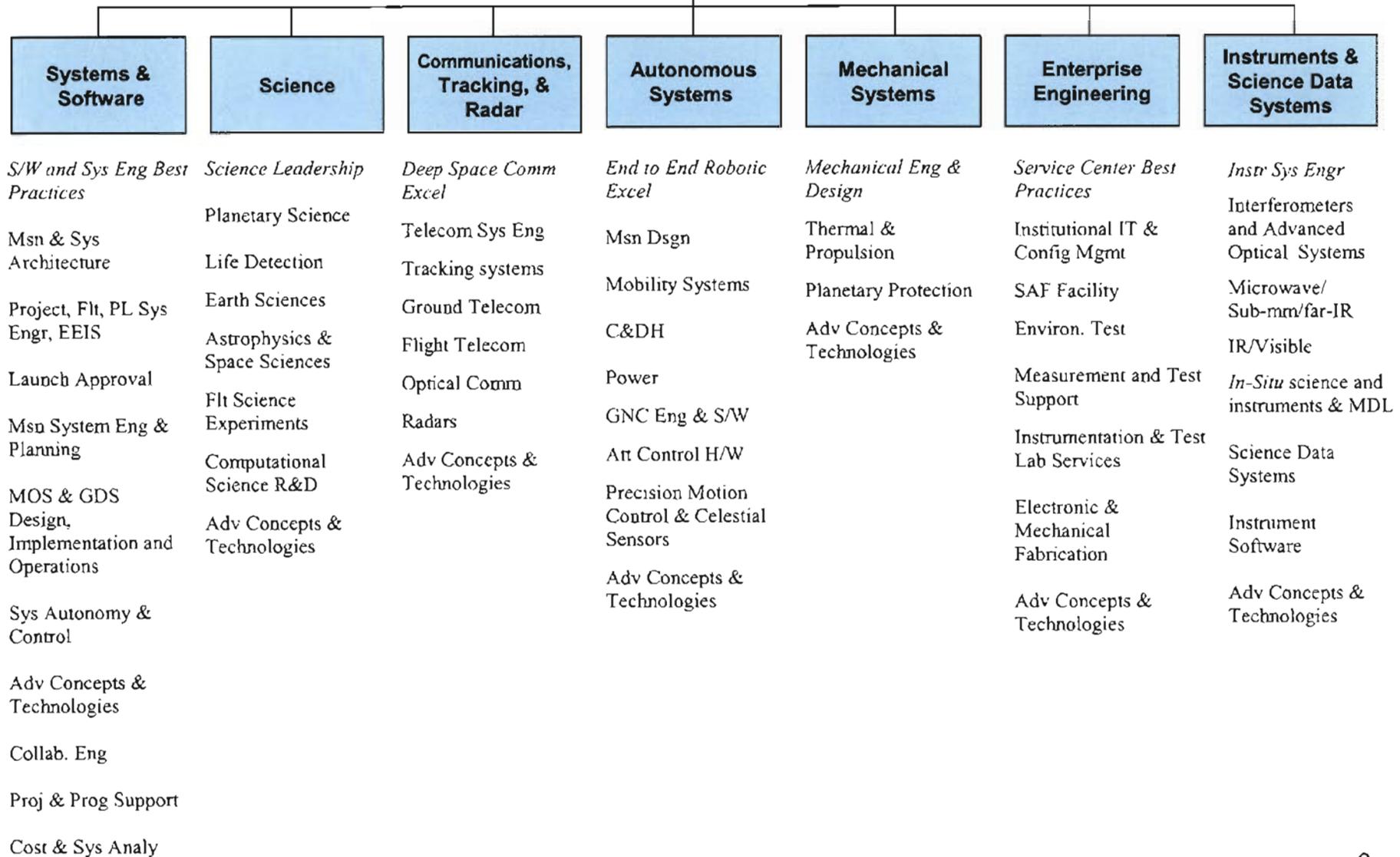
**Explore  
Possibilities**

# **3X's New Focus**

**Philip W. Garrison, Deputy Director  
Engineering and Science Directorate**

# Strategic Products & Functions

## Engineering and Science Directorate



## Plans Relating to Industry

- ✦ The number of flight and instrument projects provide more work than we can handle in-house
- ✦ Strategic work force issues will influence decisions on the implementation of future projects
- ✦ We will increase our use in both the number and technical depth of industry partners
  - Subcontracts
  - TSEP Contracts
  - Task Contracts
- ✦ Plans change throughout the life cycle of a project
  - Staying in touch with the Divisions is essential

# ESD Near Term Work Demand to be Filled

jobs to be filled in next 6 months	Min	Max
<b>Mechanical</b>		
Mechanical Design	12	23
Structural/Configuration Design	4	9
Stress, Loads & Dynamics Design/Analysis/Test	5	11
Mechanical System Engineering	6	12
Mechanical Fabrication / Tech Sp SC	2	5
Thermal Systems Engineering	3	5
Mechanisms Engineering	6	9
Cabling Engineering	4	8
Flight Hardware & Assembly Technician Services	3	6
Computer Numerical Controlled Prototype Machining	5	12
<b>Systems Engineering</b>		
Flight System Engineering	3	10
Project System Engineering	2	5
Verification & Validation Engineering	3	12
Architecture & Systems, Incl. Modeling & Simulation	5	7
Configuration/Project Information Management	3	4
<b>Subsystems</b>		
Autonomous S/C Pointing & Control Systems Des/Dev	3	4
Flight Telecom Systems Engineering	3	3
Flight Proximity Radios	6	8
<b>I&amp;T</b>		
Fabrication Of Electronic/Micro-Electronic Assemblies	6	6
Measurement Systems Engineering	8	12
Mechanical Ground Support Equipment	3	4
Packaging Design of Electronic Assemblies & Subassemblies	2	4
<b>Total</b>	<b>97</b>	<b>179</b>

# Resources that ESD Utilizes

## ✦ Subcontracts

- Ground and Flight Hardware & Software
- Spacecraft & Instrument Subsystems, Subassemblies, Components
- Competitive selection
- Divisions/Sections responsible for make/buy decisions
- Divisions/Sections responsible for managing contracts

## Resources that ESD Utilizes (cont.)

- ✦ Temporary support effort personnel (TSEP)
  - Work is undefined
  - Requires day-to-day direction
  - JPL Supervisor is responsible for managing work
  - Three companies provide services
    - ▲ Columbus Technologies and Services, Inc.
    - ▲ Santa Barbara Applied Research (SBAR)
    - ▲ Skillstorm, Inc.

## Resources that ESD Utilizes (cont.)

### ✦ Blanket Task-Driven Contracts

- Competition not required, already established
- Work is issued via Subcontract work order (SWO) or other contractual process
- Ability to clearly define task
- Supplier is responsible for managing task completion
- Work can be done at contractor facility (Category X)
- Work can be done at JPL facility (Category A)

## Current Blanket Task Order Contracts

Supplier	Type of Work	Performance Period	Subcontracts Manager
Ball Aerospace	Flight Instruments & Subsystems (FIST)	4/3/99–09/30/06	John Davis (818) 354-2055
Raytheon	Scientific Data Systems	9/18/98–9/17/06	Adolfo Delgado (818) 354-2898
Lockheed Martin Information Technology	Desktop & Network Services	11/14/97–12/31/06	Steve Simpson (818) 354-7243
Swales Aerospace	Mechanical and Thermal Engineering	9/1/02–9/30/07	John Schofield (818) 354-5681
Northrup-Grumman	Engineering Tech. & Modeling, Engineering Support Software	10/1/99–9/30/06	Tim Mathews (818) 354-2912

## Current Blanket Task Order Contracts (cont.)

Supplier	Type of Work	Performance Period	Subcontracts Manager
Aerospace	Engineering Support	6/15/04–6/14/09	Ginger Loesch (818) 393-7579
SRS Technologies	Reliability Engineering Support	10/01/04–7/30/06	Alicia Dangerfield-Benn (818) 354-0783
Alliance Spacesystems, Inc.	Composite Structure Support	3/25/03 - 6/30/07	Ginger Loesch (818) 393-7579
Draper Labs	Avionics Systems Support	1/10/02–1/10/07	Kirk Bilby (818) 354-7332

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# Questions?... and Answers