Appendix A: Slides of Invited Talks

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**Strategic Investments Overview**

**Vision and Mission:**
Our New Starting Point

The NASA Vision
To improve life here.
To extend life to there.
To find life beyond.

The NASA Mission
To understand and protect our home planet.
To explore the universe and search for life.
To inspire the next generation of explorers in only NASA can.
The three volumes that make up the Congressional Submission are connected to the other elements of the NASA strategic management system.
Key Documents – FY 2005 Budget Request

President's Policy Directive

The Vision for Space Exploration

FY 2003 Performance and Accountability Report

Congressional Budget Justification

New Building Block Investments

Overcoming Barriers that Constrain Research and Discovery

Building Blocks

Technological Barriers

| Power: Providing ample power for propulsion and science |
| Transportation: Providing safe, reliable, and economical transportation to and from space, and throughout the solar system |
| Human Capabilities: Understanding and overcoming human limitations in space |
| Communications: Providing efficient data transfer across the solar system |

Ongoing Efforts

- Nuclear Systems Initiative
  - Greatly increased power for space science and exploration

- Integrated Space Transportation Plan
  - Orbital Space Plane
  - Extended Shuttle operations

- Next-generation launch systems

- In-Space Propulsion Program
  - Efficient solar system transportation

- Space Station Restructuring
  - Research priority focused
  - Management reforms
  - Sound financial base

New Efforts

- Project Prometheus
  - Nuclear Power and propulsion for revolutionary science and orbital capabilities
  - First mission to Jupiter’s moons

- Human Research Initiative
  - Accelerate research to expand capabilities
  - Enable 100+ day missions beyond low-Earth orbit

- Optical Communications
  - Vastly improved communication transform science capability
  - First demonstration from Mars
Robust Strategy for Scientific Discovery:
Stepping Stones to Human and Robotic Exploration
The Strategic Organization

Performance: Accountability

Vision | All performance must be tied to the NASA Vision

Mission | One NASA: Many Themes support each of 3 NASA Missions

Goal | 7 Goals tied to the Mission + 3 enabling Goals

Objective | What is to be accomplished, owned by a single Theme.

Outcome | An important multi-year step on a Theme’s roadmap.

Performance Plan

Annual Performance Goal | Indicates annual progress towards achieving outcomes. Tied to a Theme’s budget investment.
Code BX Products

Annual Budget Request – Integrated Budget and Performance Document (IBPD)
- Code BX led the design, development and integration of the IBPD
- Totally revamped Congressional justification – well received
- Page count less than half with more information than before
- Integrates budget with performance, setting government-wide benchmark

Performance and Accountability Report (PAR)
- Code BX leads the formulation, integration, production of the PAR
- Met aggressive OMB schedule
- On schedule for meeting even more aggressive OMB schedule this year

Strategic Plan
- Code BX led the formulation, integration and production of the plan
- High quality plan, seven months ahead of schedule

Integrated Planning
- Code BX developed and implemented the plan for integrated Agency planning in support of the Associate Deputy Administrator for Technical Programs
- Integrated set of planning documents being produced for the first time, including Enterprise Strategies and Center Implementation Plans
- A planning ‘community’ has been established with significantly improved communications
- Working with other Agencies to share best practices

Code BX Products

- Budget Amendments and Supplemental Requests
  - Code BX leads/supports strategy, drafting, integration and advocacy
  - FY 2003 Budget Amendment
    - Approved by OMB, adopted by appropriators
  - FY 2004 Supplemental Request
    - Approved by OMB and now appropriated

- Performance Plans
  - Pre-IBPD FY 2003 performance plan was re-mapped to new strategic framework for the Agency
  - FY 2004 performance plan revised to increase measurability of outcomes

- Management Tool Development
  - Code BX working with IFM Program and Chief Engineer to establish requirements and implementation plans for Erasmus
Systems Analysis

- The systems analysis community across the Agency is often called upon to assess investment strategies.
  - "How do we demonstrate alignment with the Agency Strategic Plan in a standard way?"
  - Wide range of analysis: ISTP, technology portfolios, cross Enterprise activities, spacecraft mission trades, etc....
- There are no "best practices" or common analysis standards to enable "apples to apples" comparisons of results.
  - Decision makers and analysts will both benefit from an open and transparent approach to performing and employing analysis products.
  - Have found that such standards are welcomed and encouraged.
- Code BX is seeking to catalyze a systems analysis 'community' among existing organizations dispersed across the Agency.
  - Budget process is a consumer of a great deal of Agency systems analysis products.
  - Currently engaged in dialog with systems analysis and systems engineering groups around the Agency on developing standards and a community.
  - Collecting inventory of tools, approaches, and environments from around the Centers.
  - Will conduct workshops and develop standards this year.
  - Goal is improved communications and strengthened capabilities, leading to better investment decisions.

Summary

Significant changes are underway
- Integration among the vision and mission, strategic plan, budget, and performance planning and reporting
  - Closer linkage of our budget estimates with our strategic plan, performance measures and institutional needs
  - Systems analysis efforts to improve linkage for better decisions
- Integrated budget and performance information in a single document, linked to strategic plan objectives through new budget structure arranged in "themes"
  - Ensures consistency among critical documents
- Annual and long-term performance measures directly traceable through the strategic plan to the vision and mission
  - Clear accountability for results through themes
- Defined agency goals requiring multiple enterprises and themes, with interdependencies and shared accountabilities
  - Reflects the One NASA philosophy

These changes will help NASA to achieve our Vision and Mission