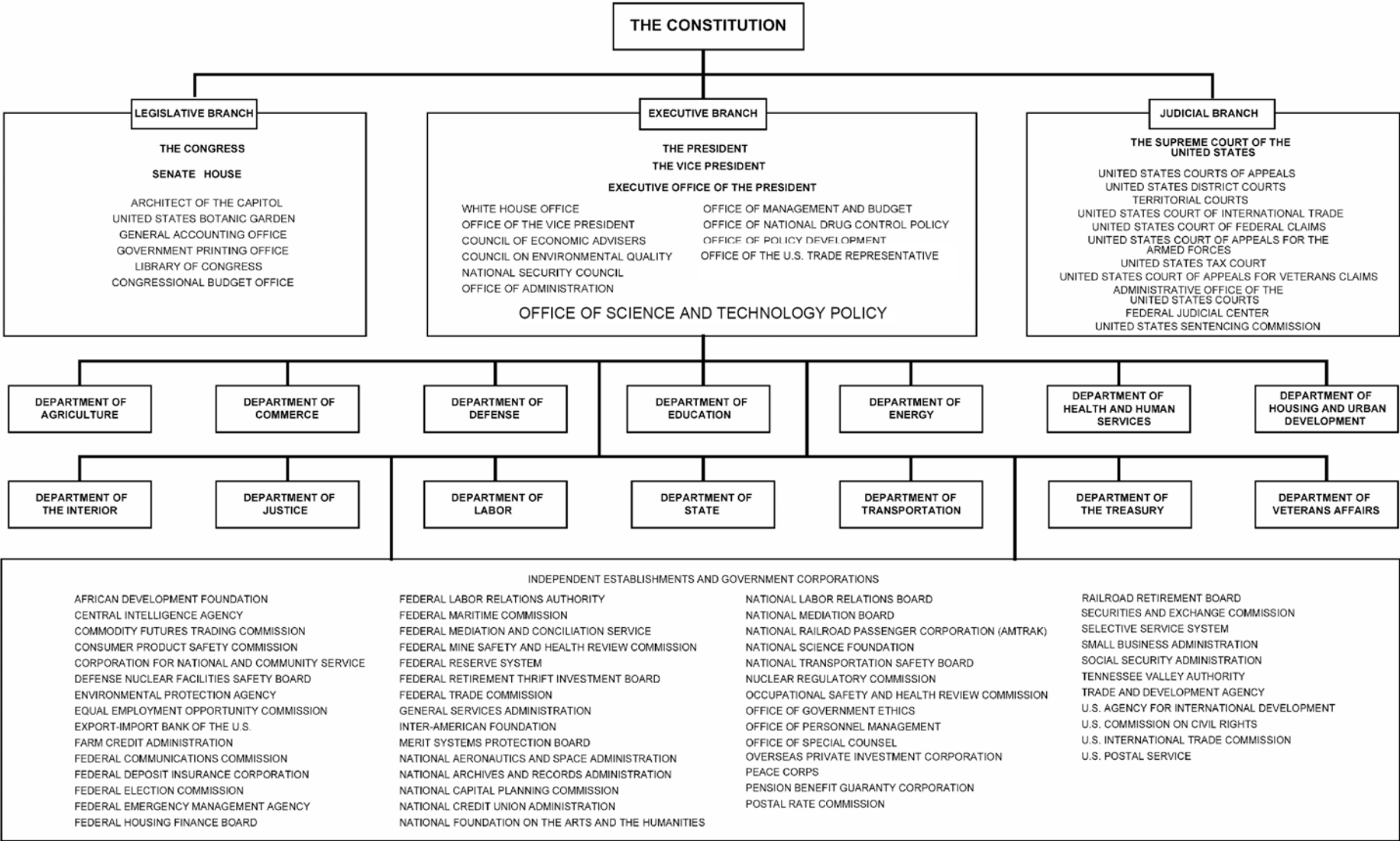




Administration Priorities in Physical Science and the Strategic Context for R&D Programs

Patrick Looney
Assistant Director, Physical Science and Engineering
Office of Science & Technology Policy

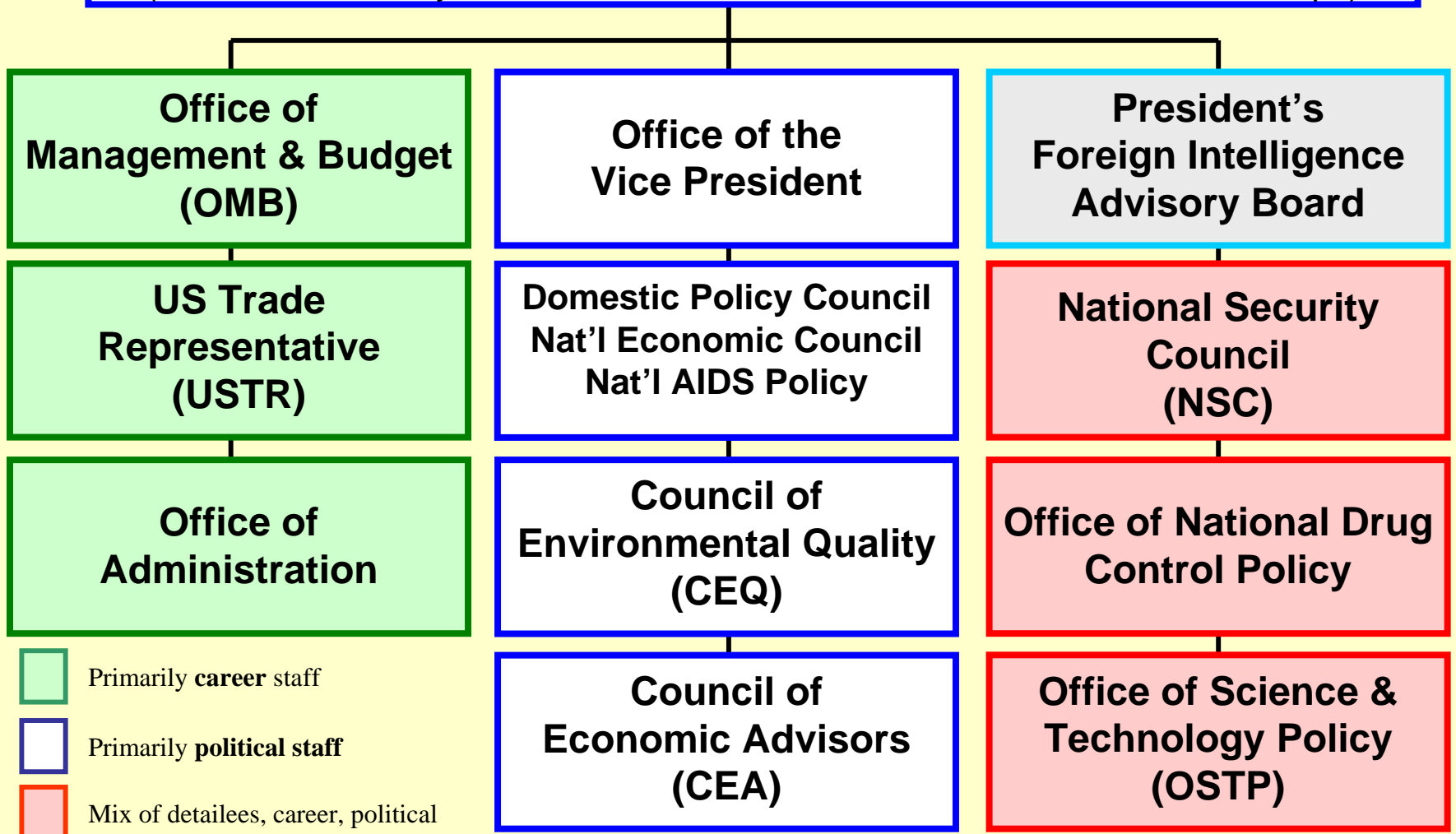
THE GOVERNMENT OF THE UNITED STATES



Executive Office of the President (EXOP)

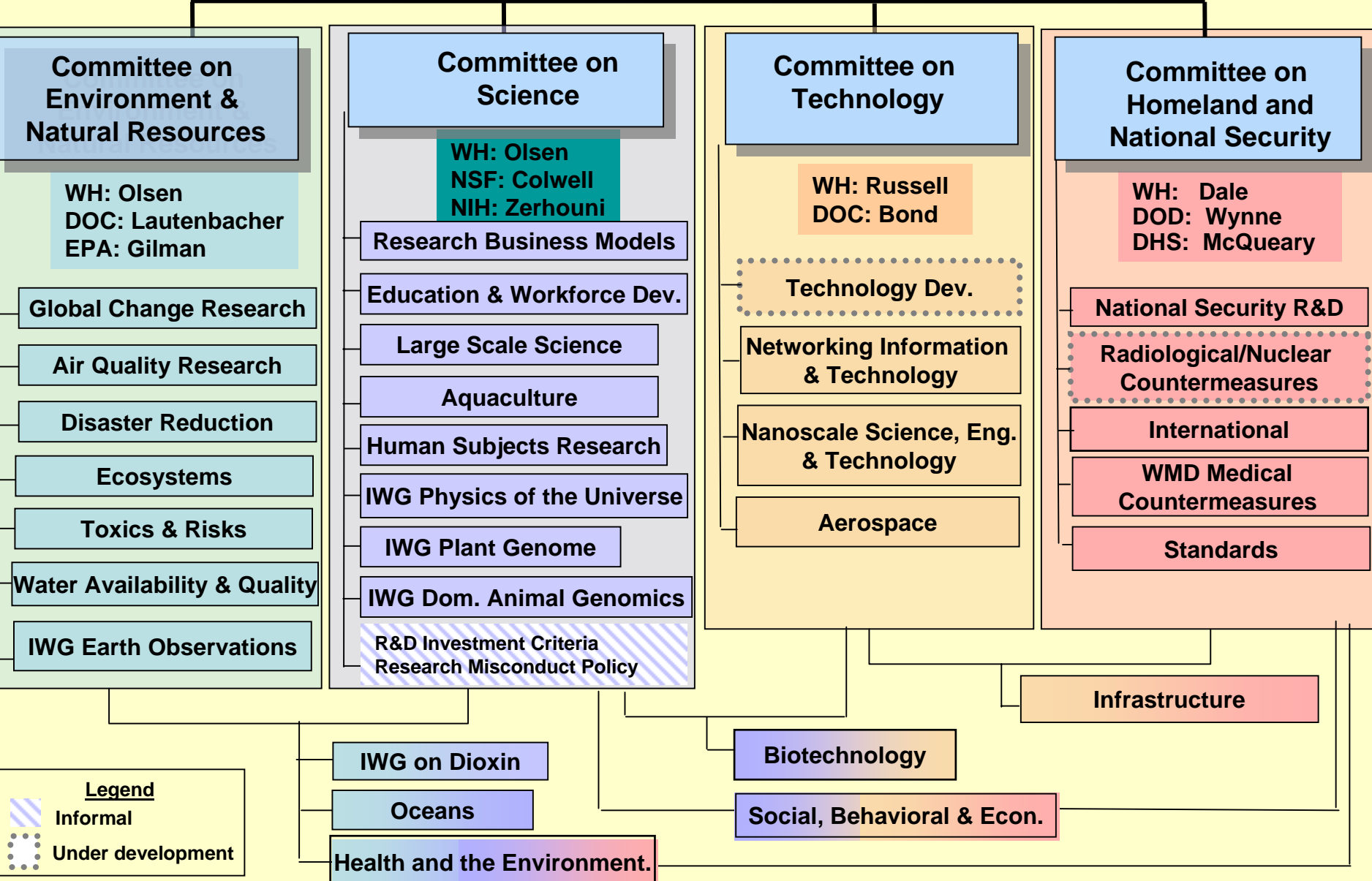
White House Office

(Homeland Security Council, Office of Faith-Based Initiatives, Freedom Corps)



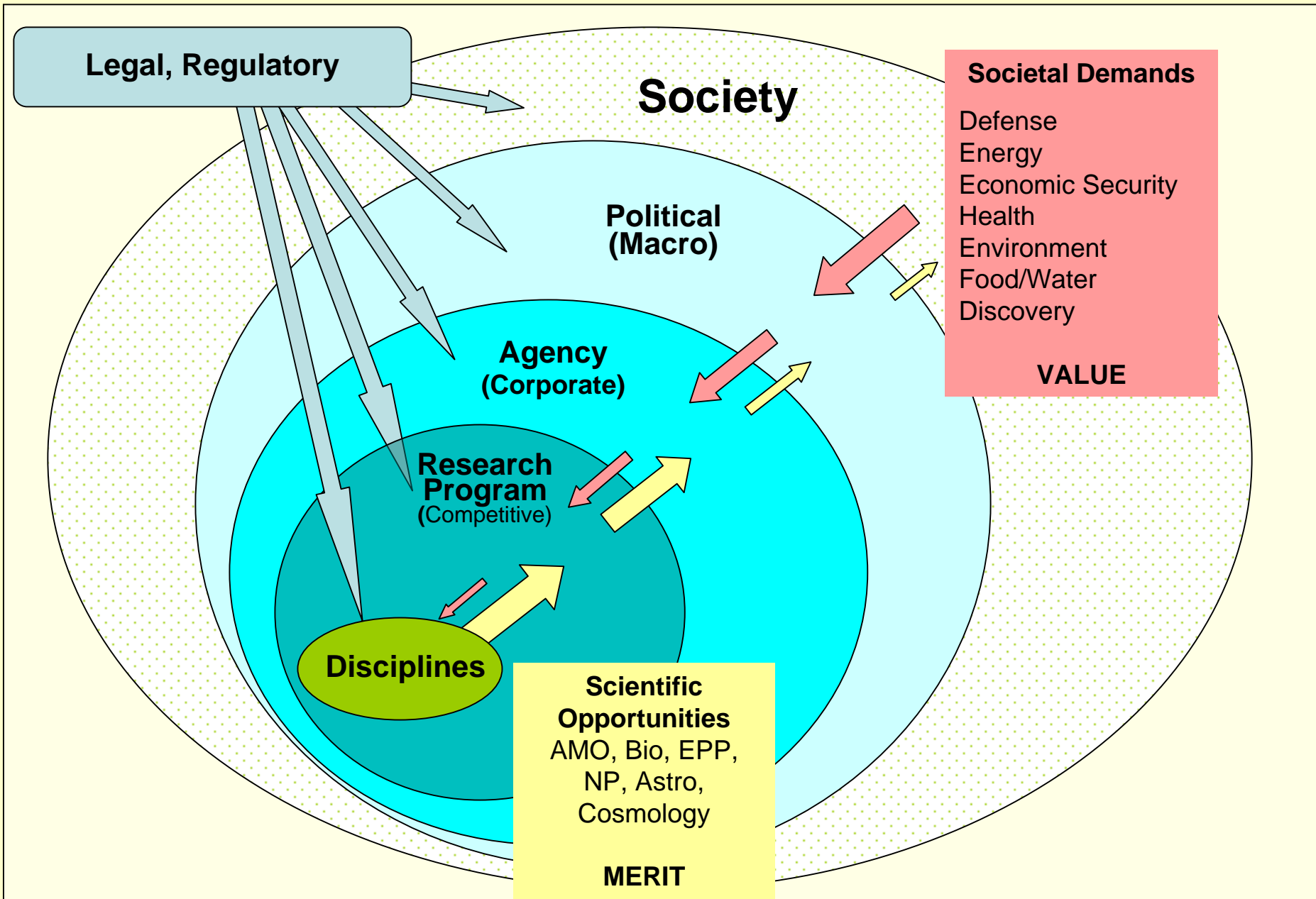
Current NSTC Structure

**NSTC
Director, OSTP**



Legend
 Informal
 Under development

“Business Environment” for Government R&D



Government / R&D Business Environment

- **Political Level (President, Congress)**

- How does the science benefit society? (jobs, economy, defense,...)
- How does this alleviate/placate constituent concerns? (budget growth!)
- How has the program been managing and performing?
- What have we gotten for our investment to date?

- **Agency Head/ Department Secretary Level**

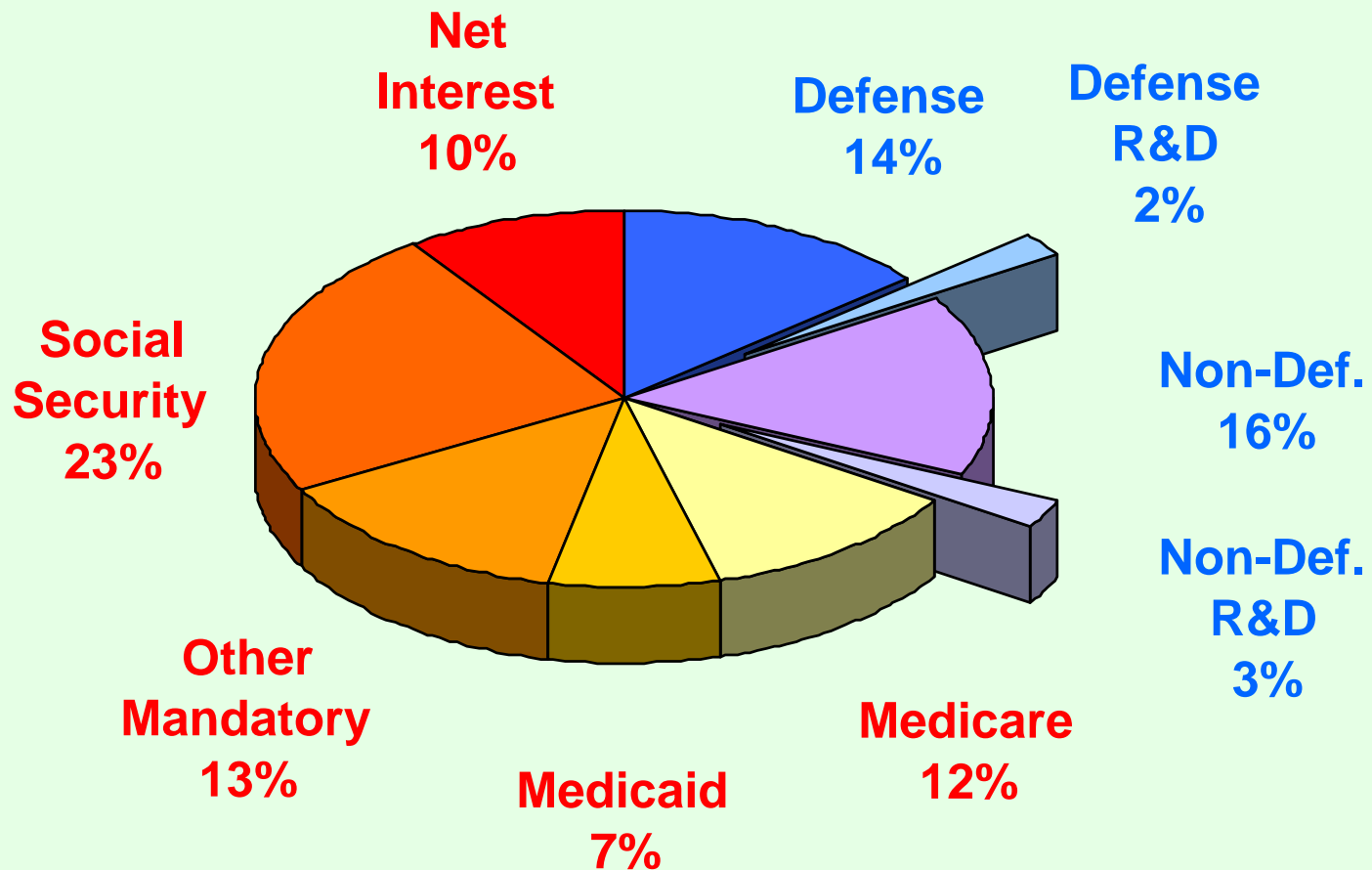
- How does the agency mission address administration priorities?
- How does the science further the mission of the agency?
- How does the science impact or strengthen other programs or related activities across the Government?
- How has the program been managing and performing?
- What have we gotten for our investment to date?

- **Competitive Environment (Program Level)**

- How does the program further agency mission and administration priorities?
- How does science advance the program's objectives?
- How does the science impact or strengthen other programs or related activities across the Government?
- How has the program been managing and performing?
- What have we gotten for our investment to date?

- **Internal Environment (Portfolio Balance)**

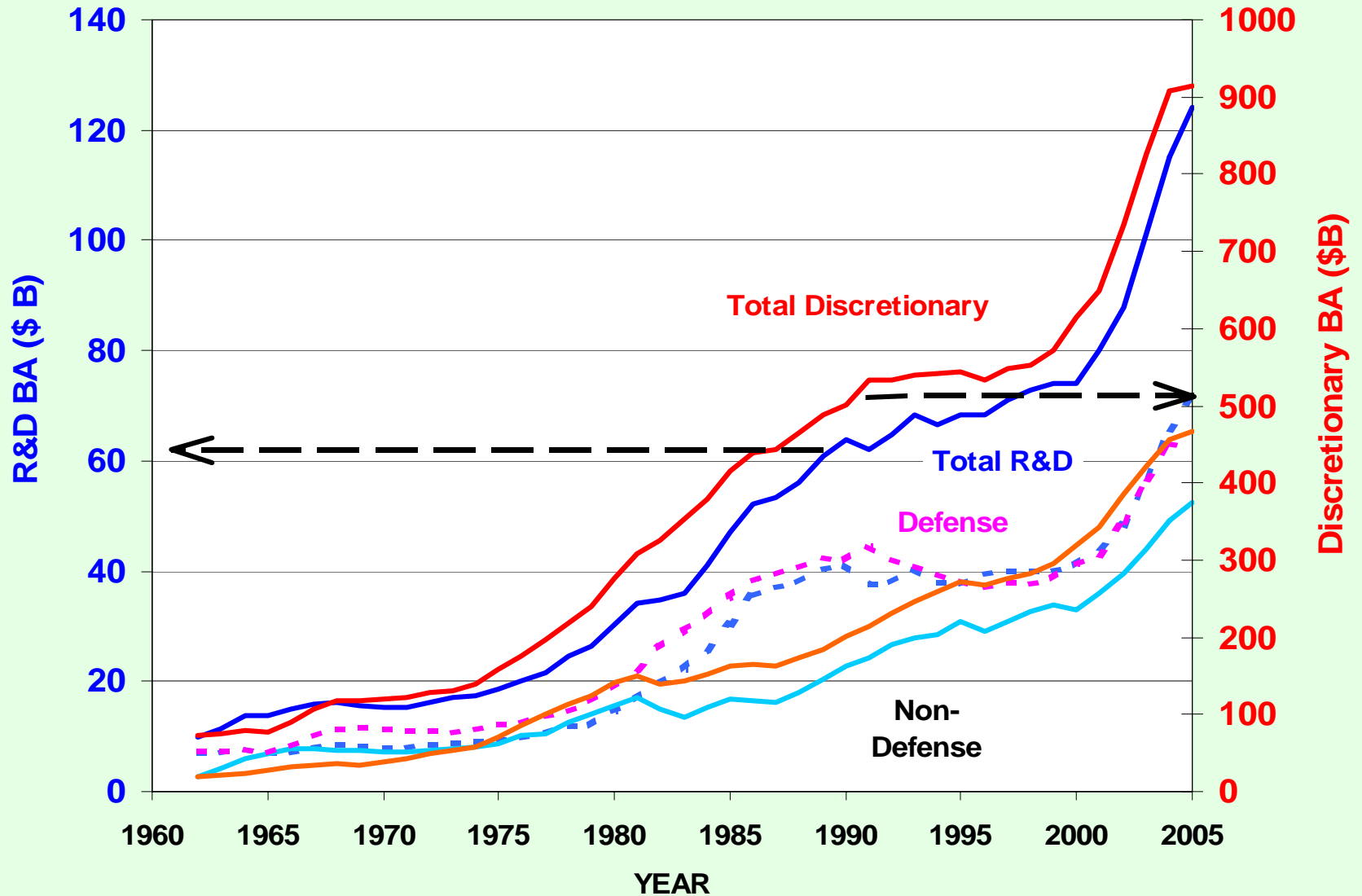
FY 2005 Proposed Budget (\$2.4 Trillion OL)



Mandatory Spending
Discretionary Spending

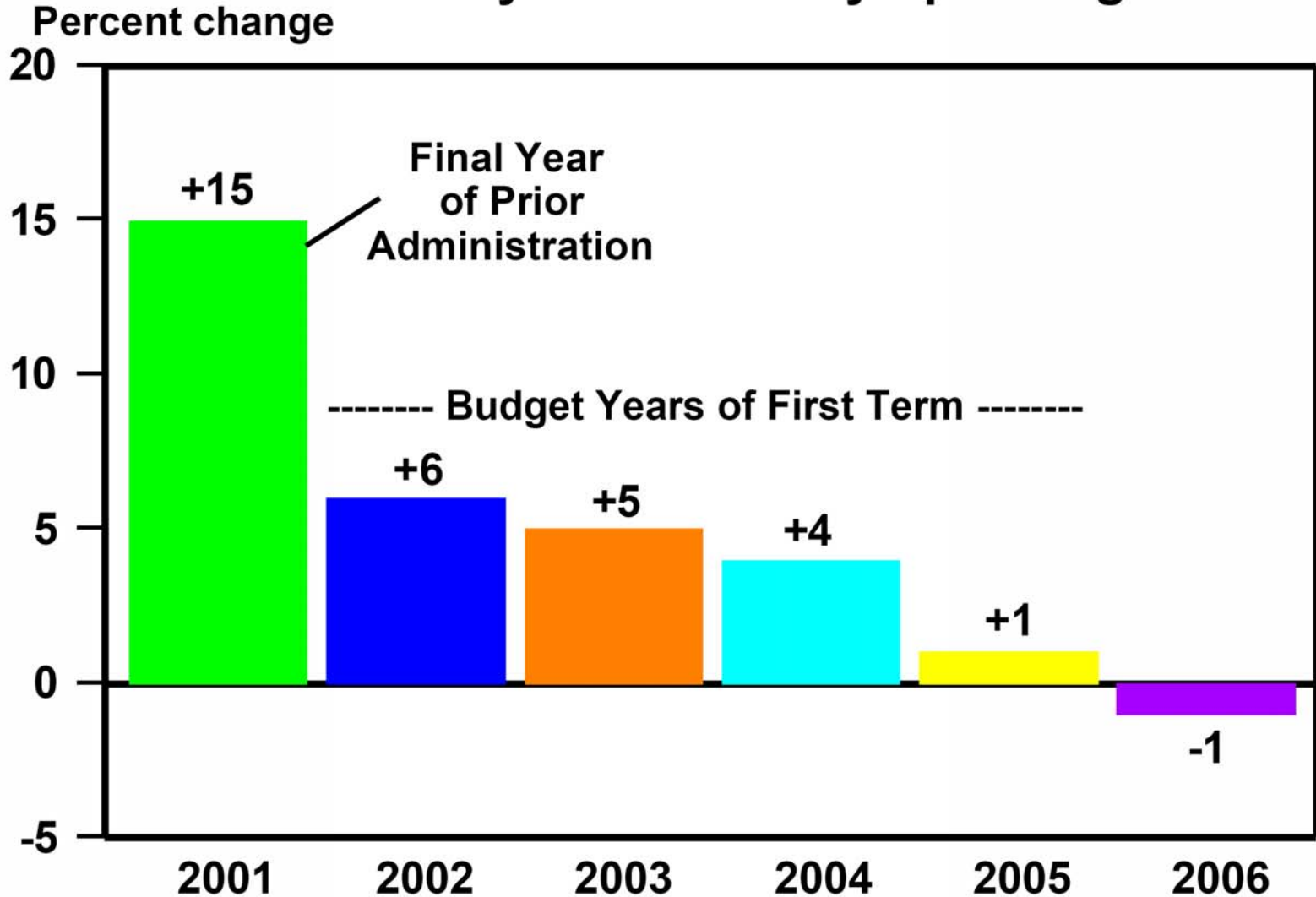
R&D = 14% of discretionary spending

Historical Discretionary and R&D Spending



Spending Restraint

Non-Security Discretionary Spending



Presidential Priorities

w/ Direct S&T Coupling



- Winning the War on Terrorism
- Securing the Homeland
- Strengthening the Economy
- A National Energy Strategy
- Improving Government: President's Management Agenda
(R&D Investment Criteria, PART Analysis)

Comments:

- AAAC Report was well received.
- Would like more emphasis on Planning and Process:
 - DETF, CMBTF are important activities at this time.
 - Phasing of projects, particularly ground vs space.
 - Discussion of the complementary nature of projects.
 - Interagency project implementation: Lessons Learned (GLAST?)
- Impact of NASA Vision on NSF:
 - Are there impacts? What are they?
 - How should we adjust?
- AST
 - Senior Review, LR Planning
 - MREFC/Brinkman Report
 - Public/Private Partnerships

Three Years at OSTP: A Retrospective

- **Underground Lab**
 - (Homestake, NAS Neutrino Report, DUSL Process)
- **Fusion**
 - ITER/ IFE
- **Quarks to the Cosmos/Physics of the Universe**
 - First discovery-oriented cross-agency strategic plan!
 - AAAC
- **Nuclear Physics**
 - Intl
 - RIA, RHIC, JLab
- **Particle Physics**
 - Linear collider, London Meetings
 - Message (Quantum Universe)
- **MREFC**
 - Brinkman Report
- **Materials Characterization Facilities**
 - Report on the Status and Needs of Major Neutron Scattering Facilities
 - LCLS, ERL
 - Report on the Status and Needs of US Synchrotron Facilities
- **Nuclear Energy**
 - NP2010, Gen IV, AFCI
- **Hydrogen**
 - Materials Research
- **Liabilities in US-Russian S&T Agreements**
- **High Energy Density Physics**

