



U.S. DEPARTMENT OF
ENERGY

HEP and DOE:

Focus and Context

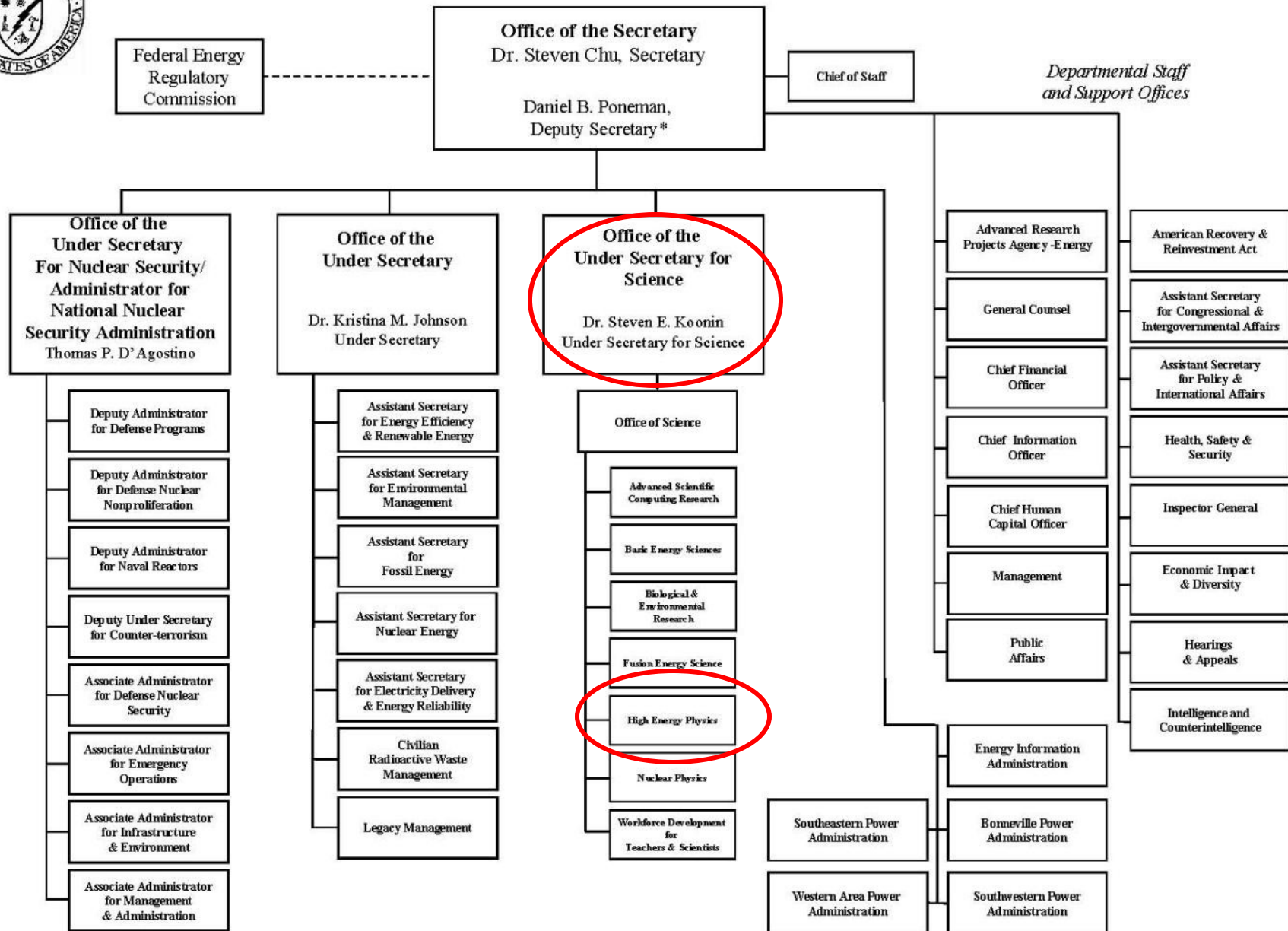
Steven E. Koonin
Under Secretary for Science
US Department of Energy
June 2010

Outline

- A bit about me and my role
- HEP now
- The future (broader picture)



DEPARTMENT OF ENERGY



* The Deputy Secretary also serves as the Chief Operating Officer

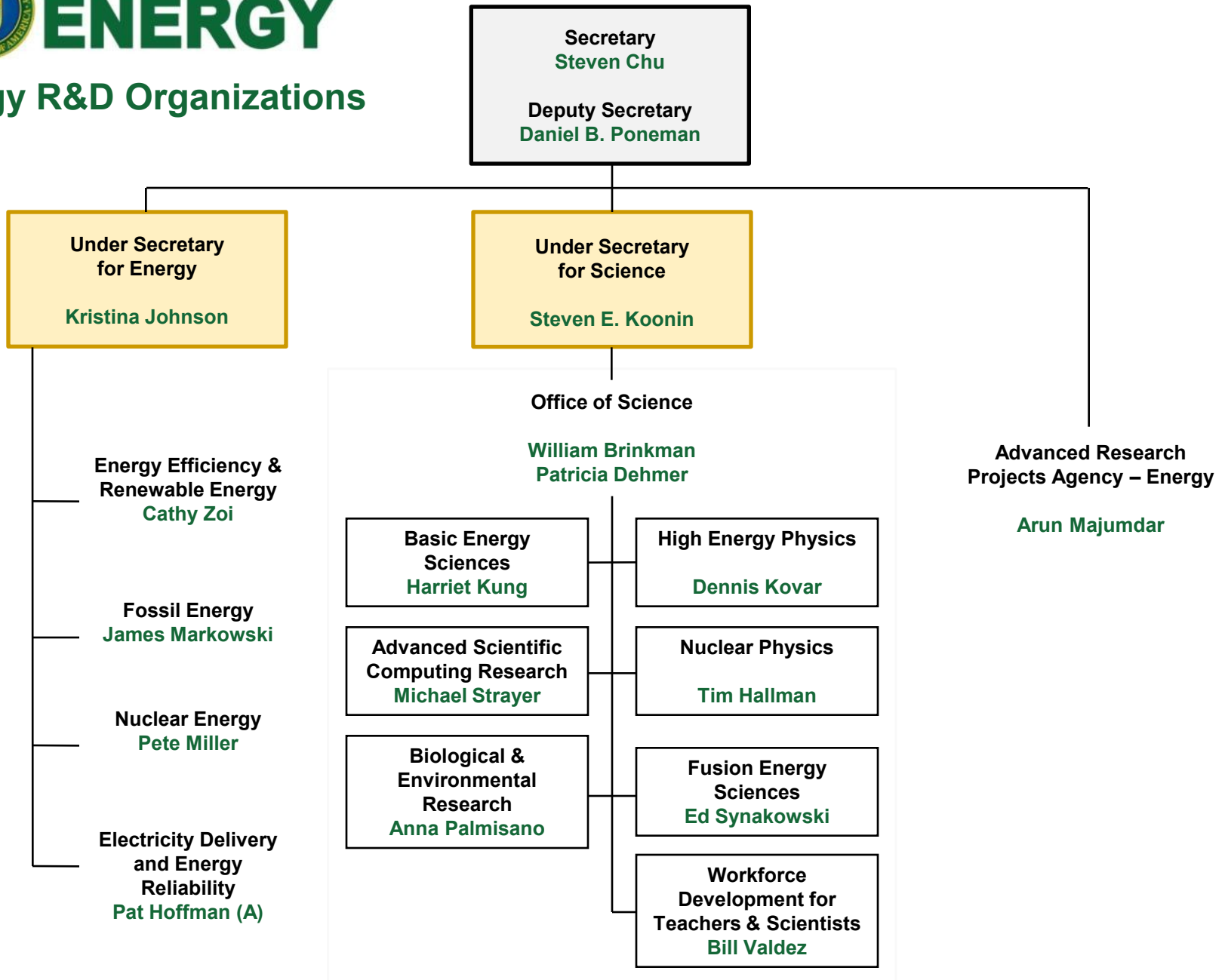
HIGH ENERGY PHYSICS

2 June 2010



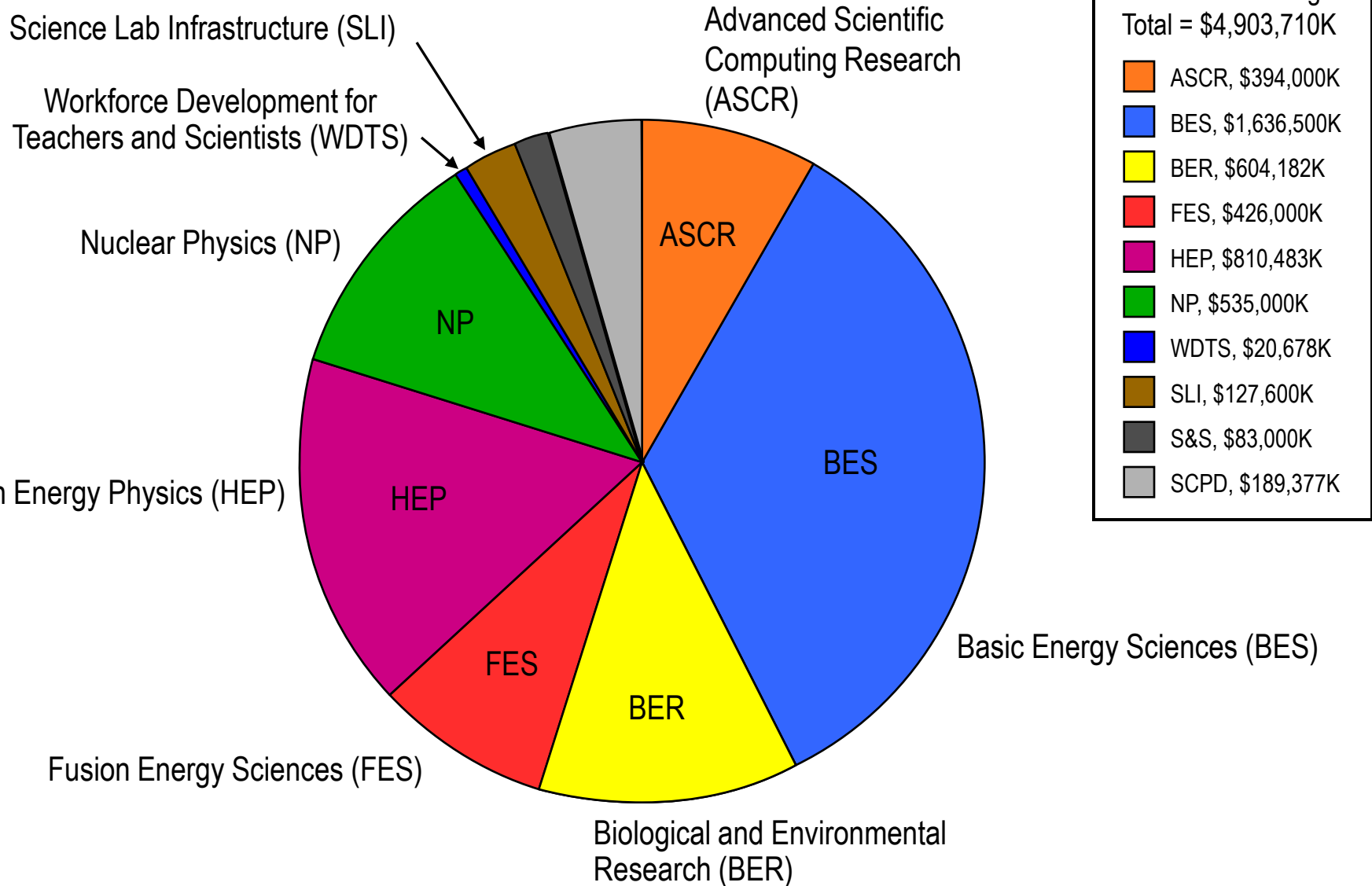


Energy R&D Organizations



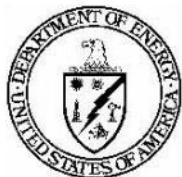
Office of Science Programs

FY 2010 Appropriation

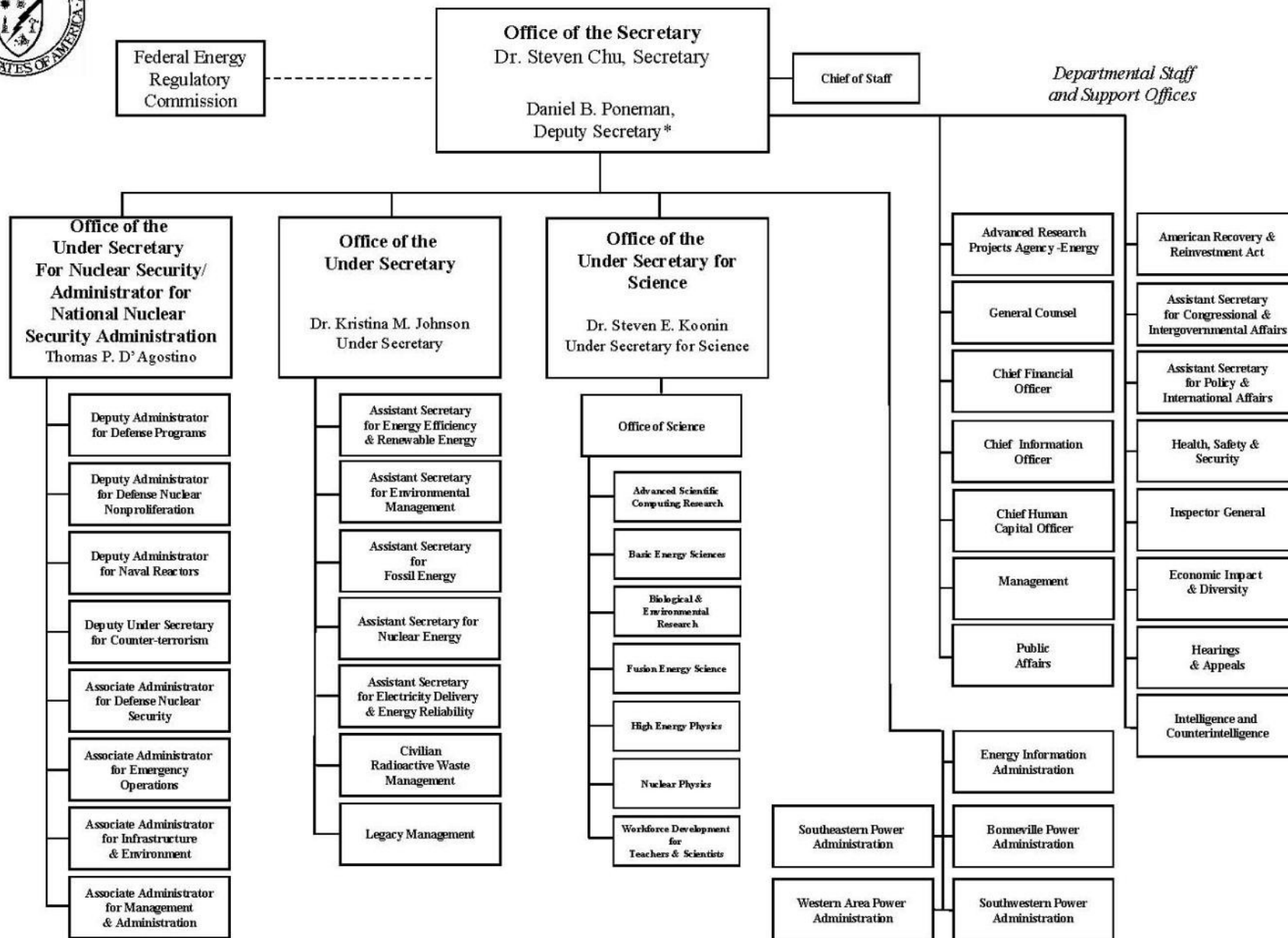


DOE missions

- **Sustain basic research**
 - **Discovery and Mission Driven**
- **Catalyze a transformation of the national/global energy system**
 - **Energy security: 3.5 M bbl/day reduction in crude use**
 - **Greenhouse gas emissions: ~17% reduction by 2020, 83% by 2050**
- **Enhance nuclear security**
 - **Steward an aging/diminishing stockpile without nuclear testing**
 - **Deter/detect proliferation**
 - **Secure nuclear materials**
- **Contribute to US competitiveness and jobs**

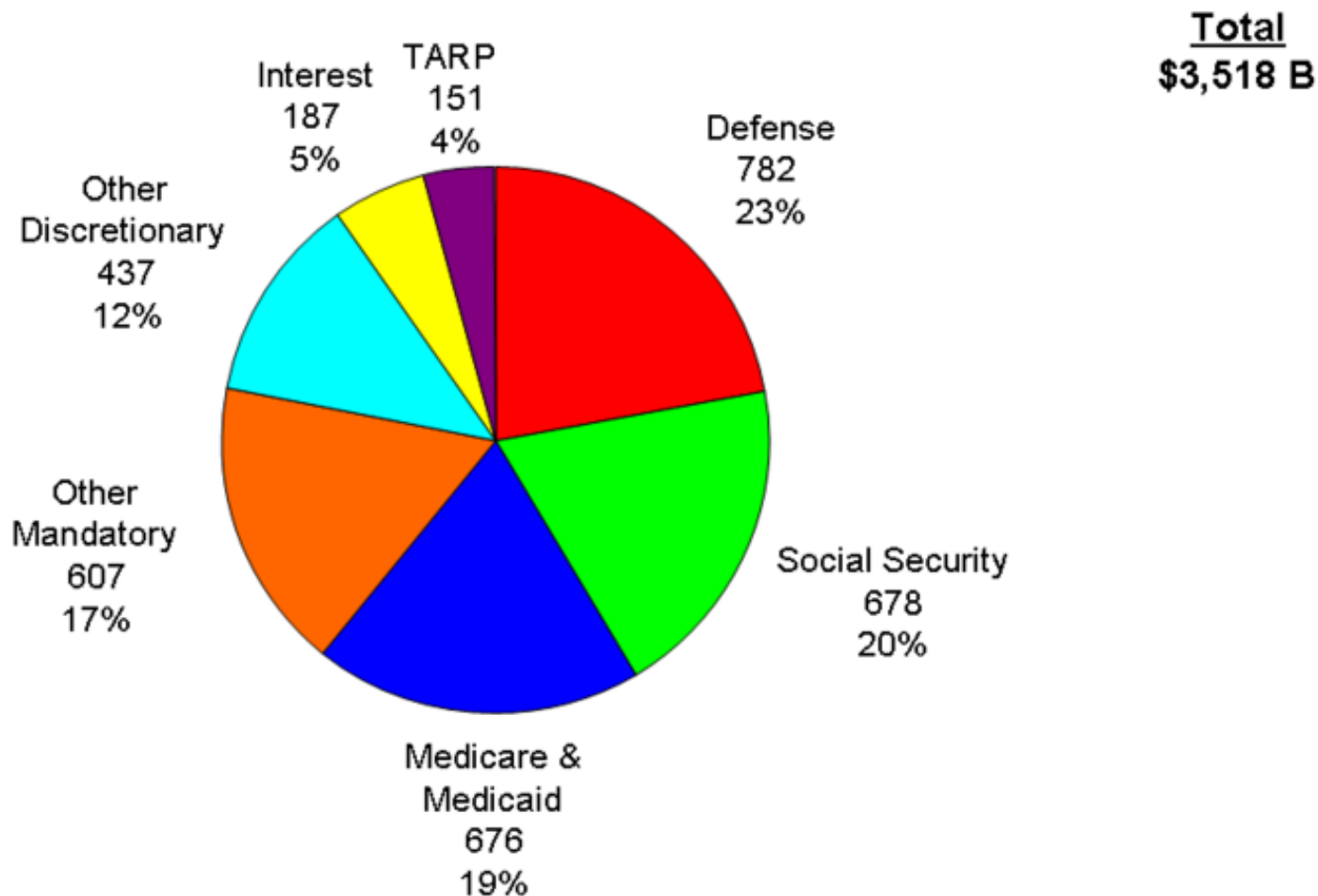


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U.S. Federal Spending – Fiscal Year 2009 (\$ Billion)

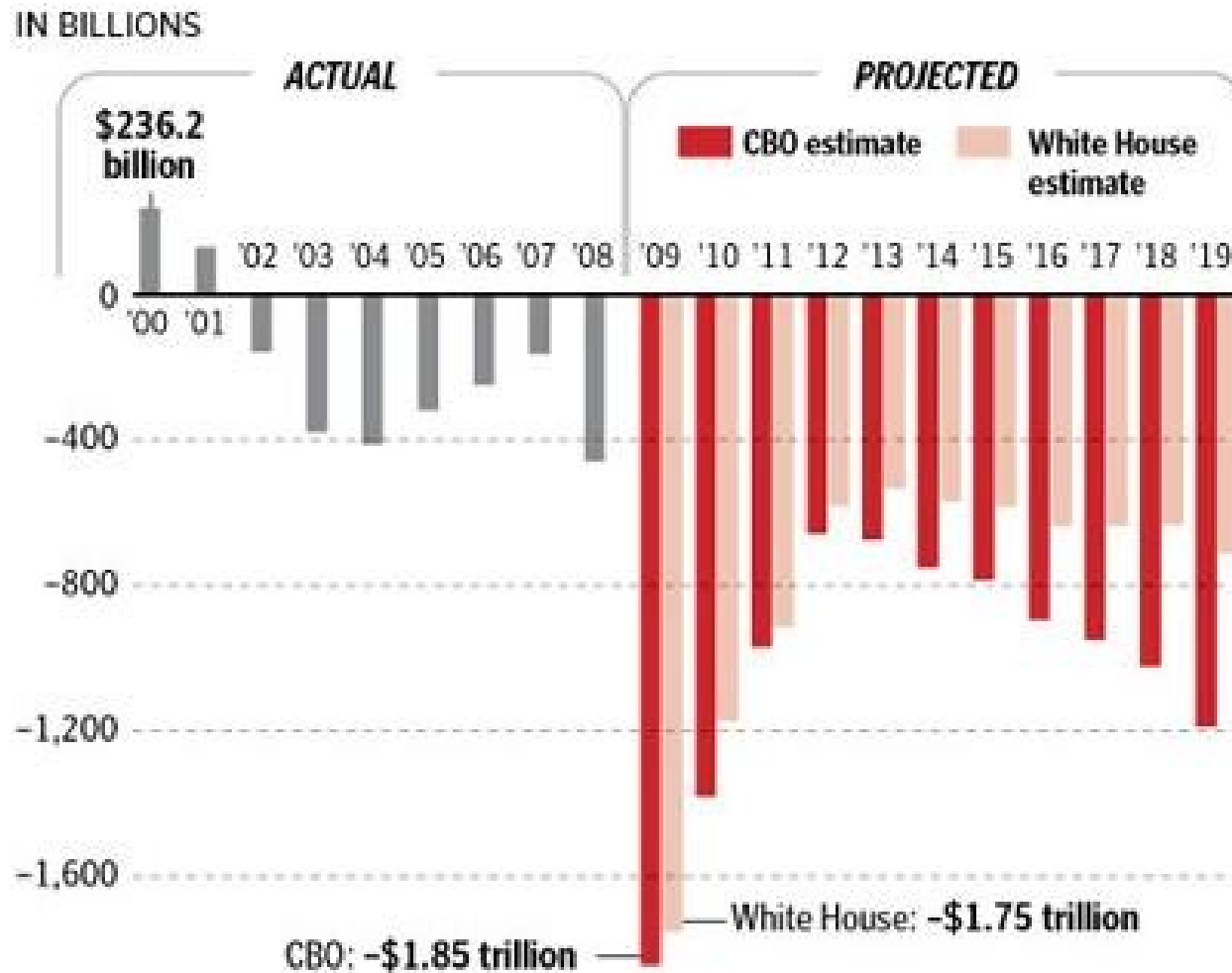


Source: OMB - 2011 Budget - Summary Table S-3

DOE

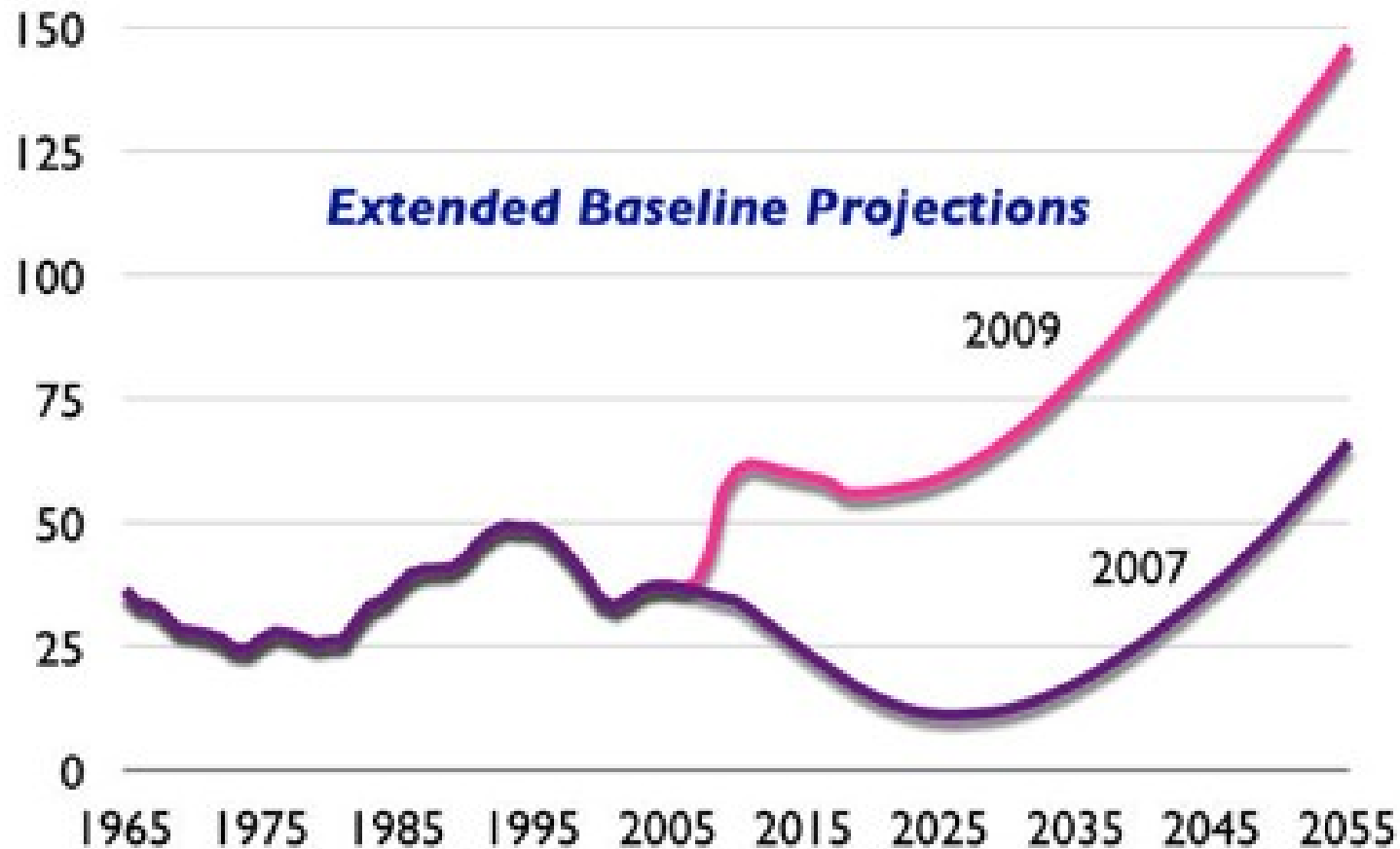


Federal deficit projections



Projections of Federal Debt Held by the Public

Percent of GDP



SOURCE: Congressional Budget Office, 2007 and 2009.

What can a scientist do?

- Help advocate for basic research
 - Your field and others
 - Applications and “spin offs” are important sufficient
- Understand the bigger problems
 - They *will* affect you, both as a citizen and a scientist
 - Advocate for sensible policies
 - Become involved technically

Questions?/Comments?
