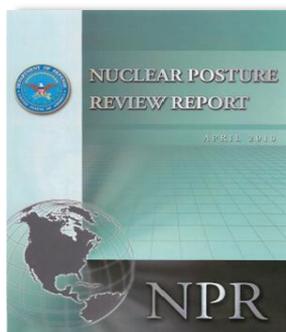




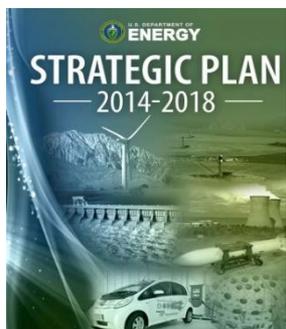
# **NNSA ASC Perspective**

**Thuc Hoang**

**March 9, 2015**



**Nuclear Posture Review, April 2010** *“In order to sustain a safe, secure, and effective U.S. nuclear stockpile as long as nuclear weapons exist, the United States must possess a modern physical infrastructure – comprised of the national security laboratories and a complex of supporting facilities – and a highly capable workforce...”*



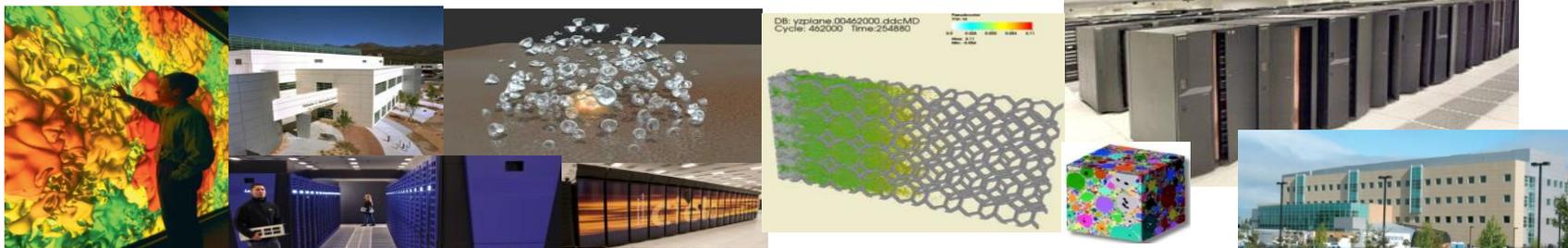
**DOE Strategic Plan 2014-2018** *“Strengthen national security by maintaining and modernizing the nuclear stockpile and nuclear security infrastructure, reducing global nuclear threats, providing for nuclear propulsion, improving physical and cybersecurity, and strengthening key science, technology, and engineering capabilities.”*

*Office of Defense Programs Mission:*

*To sustain a safe, secure, and effective nuclear deterrent through the application of science, technology, engineering, and manufacturing.*

*Mission: Provide leading edge, high-end simulation capabilities needed to meet weapons assessment and certification requirements.*

- Support the current stockpile through activities for the B61 LEP, W78 LEP study, exploring stockpile options, and support the National Ignition Campaign
- Prepare for the future stockpile through code improvements vectored toward future stockpile options and mitigating and adapting the integrated design codes (IDCs) to evolving high performance computer architectures
- Provide computing capabilities for current stockpile and prepare for increased understanding needed to support future options
- Support foreign weapons assessments





# ASC Platform Timeline

