A federal laboratory needs a policy-driven mission accomplished by doing big science

Mission
- Ensure safety and reliability of nuclear stockpile
- Work against proliferation of nuclear weapons

Policy
- No nuclear testing

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To us, big science refers to projects of large scale and impact

Advanced Strategic Computing Initiative (ASCI): massively parallel teraflop supercomputing

Nova inertial fusion laser

Flash x-ray (FXR) radiography machine
Big science requires the construction of large facilities

National Ignition Facility (NIF)

- A large fraction of its construction budget goes to industry
- Industrial partners critical to LLNL mission

Defines state-of-the-art in optics industry
The Lab is characterized by highly committed multidisciplinary teams

Our multidisciplinary teams support the big science we’ve been doing since LLNL began in 1952
Our mission determines the nature and scope of our science and technology

Weapons: warhead for Polaris missile

Remote sensing: star tracker camera used on Clementine spacecraft that mapped the moon’s surface
Big science forms the foundation for stable, long-term industrial participation

Almost 50 years of close partnering with industry
Conclusion: A federal lab needs a policy-driven mission accomplished by doing big science

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