

A large, modern building with a curved facade and a green-tinted glass exterior, set against a cloudy sky. The building is the central focus of the image, with some trees and a paved area in the foreground.

# **LANL's Year One Accomplishments and A Look Ahead**

**Presentation to the EFCOG Executive Council  
Glenn L. Mara  
August 16, 2007**

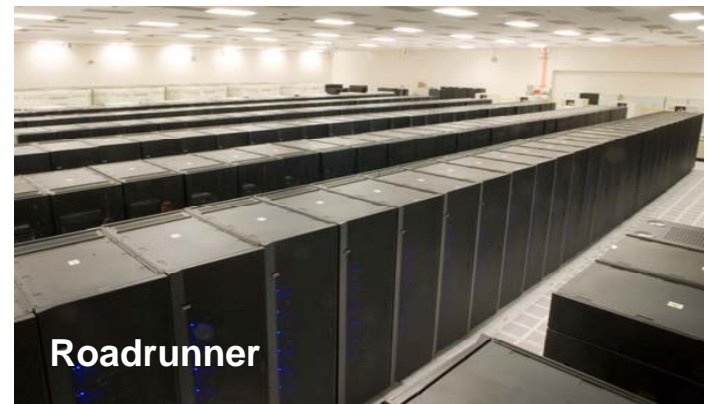
# We Have Had Outstanding Achievements Over the Past Year

- ~\$175M in new costs absorbed through disciplined financial management
- Recordable lost time injuries and incidents reduced by 30 percent
- Security risks reduced; future cyber security direction established
  - Super Vault-Type Room (SVTR) authorized
  - Accountable Classified Removable Electronic Media (ACREM) reduction ongoing
  - Classified parts destruction underway
- Managers trained in Performance-Based Leadership (PBL) and Human Performance Improvement (HPI)
- Enterprise Project completed; Six Sigma process launched; “e-auction” purchasing established
- Transuranic waste shipments to Waste Isolation Pilot Plant (WIPP) accelerated
- New Mexico Environment Department (NMED) Consent Order milestones on time



# We Have Had Outstanding Achievements Over the Past Year (cont'd)

- First LANL-built Diamond-Stamped War Reserve pit delivered
- W76 First Production Unit (FPU) delivered
- B61Alt357 delivered
- Long-standing Significant Finding Investigations (SFIs) closed
- Quantification of Margins and Uncertainties (QMU) integrated
- Roadrunner base supercomputing system (70 Teraflops) operating
- First experiments conducted at Critical Experiments Facility at Nevada Test Site
- Dual-Axis Radiographic Hydrodynamic Test Facility (DARHT) 2nd axis commissioning proceeding
  - Demonstrated 4-pulse capability
  - Fully contained hydrotest conducted

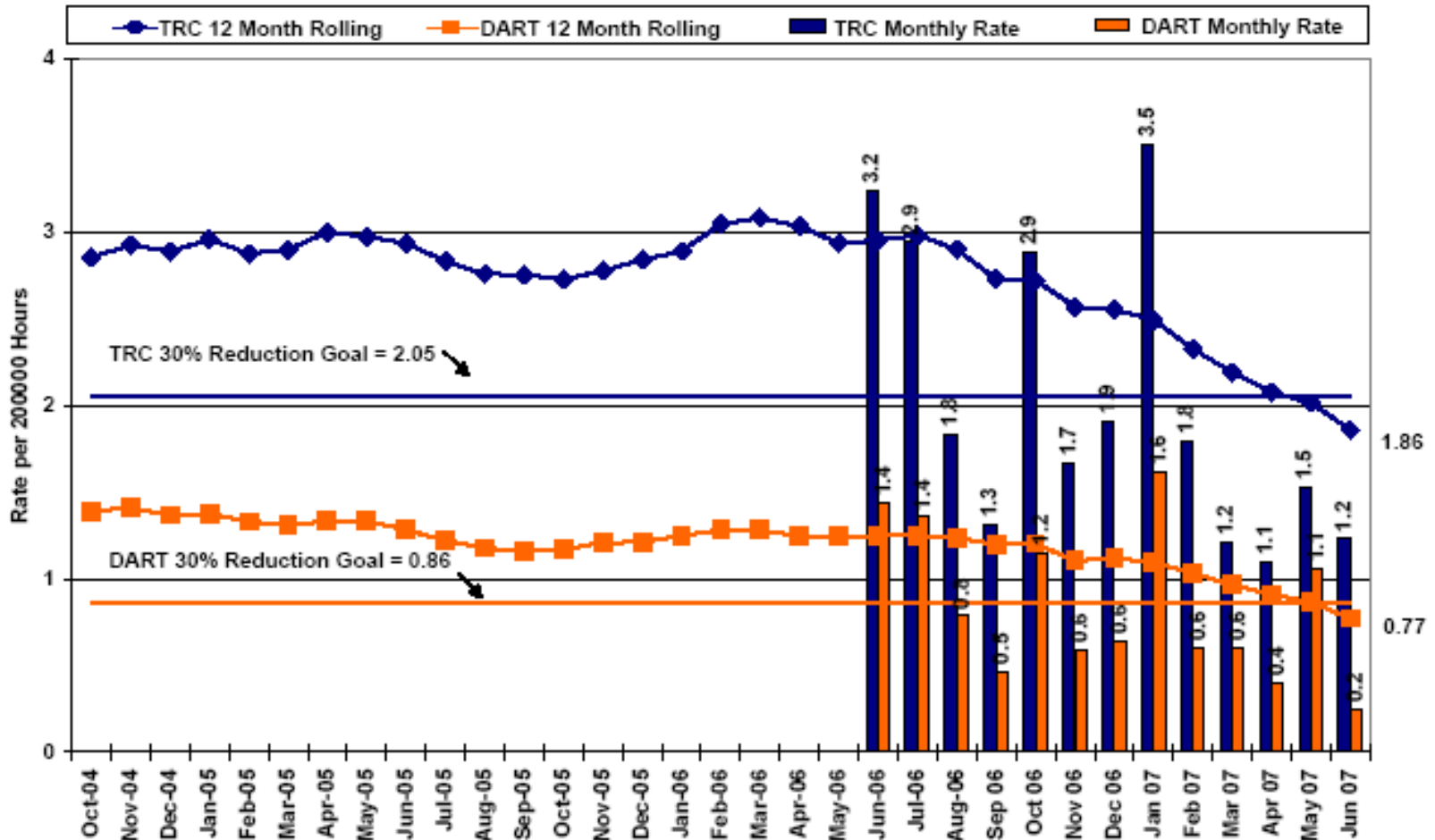


# We Have Had Outstanding Achievements Over the Past Year (cont'd)

- Assessing and advising on North Korea nuclear test
- Cibola flight experiment in orbit with new technology for space testing
- New class of hydrogen fuel cell catalysts developed
- Cooperative research and development agreements and work for others agreements increased by 60%
- 1900 peer-reviewed technical articles; 2 E.O. Lawrence awards; 5 R&D 100 winners; 17 scientific fellows
- Signature Facility (MaRIE) plan developed
- Request for Proposals for third-party financed Science Complex ready for release
- Center for Integrated Nanotechnologies (CINT) opened
- Chemistry and Metallurgy Research Building Replacement (CMRR) Radiological Laboratory construction proceeding
- Footprint consolidation underway
  - 174,944 sq. ft. as of July 30



# We Have Achieved Our FY 2007 Safety Goal: 30% Reduction in TRC and DART Rates



# Our New Super Vault-Type Room Enables Consolidation and Risk Reduction



- Construction phase completed May 31
- VTR certification validated July 9
- Classified computing began July 26
- Will permit closure of at least 4 ACREM libraries
- Will permit closure of at least 4 classified computing VTRs
- Will store 80% of all ACREM
- Will store 100% of ACREM that is not regularly accessed

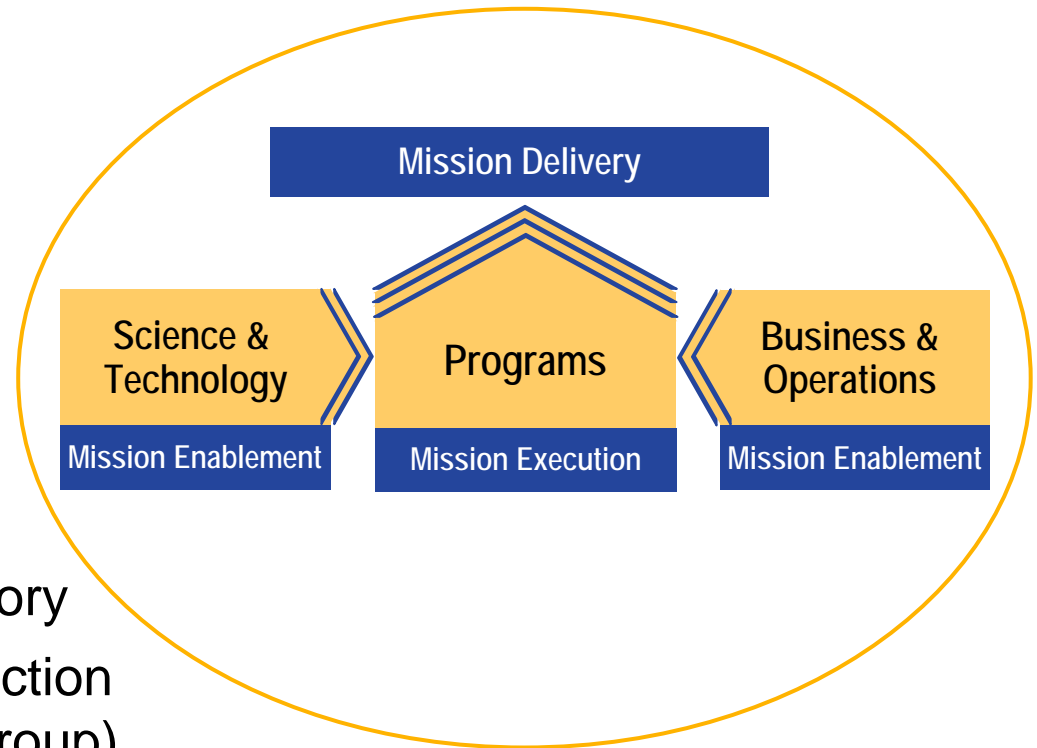
# Our Progress Has Been Slowed by Some Serious Issues

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- Safety / security incident rate last summer
- Hoisting / rigging incident
- Thumb drive incident, response, and Congressional testimony
  - Nearly constant audits and reviews (GAO, IG, NNSA, BoG, ...)
- Glovebox puncture wounds and plutonium uptakes
- Environmental performance and State relationships
- Project management of Waste Management Risk Mitigation and CMRR Radiological Laboratory
- Replacement / new senior leadership: Deputy Director; PAD for Science, Engineering, and Technology; PAD for Operations and Business; AD for Environmental Programs; AD for Stockpile Manufacturing; Laboratory Counsel; Cyber Security Officer

# Our Management Focus for the Coming Year

- Cyber security
- Safety performance
- High-performance leadership
- Budget
- National nuclear strategy
- MaRIE /science strategy
- Threat reduction strategy
- Process improvement integrated across the Laboratory
- DOE burdensome Order reduction (part of all-DOE lab director group)



# Goals and Commitments: Strategic Priorities with Full Management Attention

- Make safety and security integral to every activity we do
- Implement a cyber security system that reduces risk while providing exemplary service and productivity
- Establish excellence in environmental stewardship
- Assess the safety, reliability, and performance of LANL weapons systems
- Transform the Laboratory and the nation's nuclear weapons stockpile to achieve the 2030 vision, in partnership with the Complex
- Leverage our science and technology advantage to anticipate, counter, and defeat global threats and meet national priorities
- Realize our vision to be a capabilities-based national security science Laboratory
- Provide efficient, responsive, and secure infrastructure and disciplined operations that effectively support the Laboratory mission and its workforce
- Implement a performance-based management system that drives mission and operational excellence
- Deliver improved business processes, systems, and tools that meet the needs of our employees, reduce the cost of doing business, and improve the Laboratory's mission performance
- Communicate effectively with our employees, customers, community, stakeholders, and the public at large
- Develop employees and create a work environment to achieve employee and Laboratory success

## OUR GOALS

creating our future



- Make safety and security integral to every activity we do
- Implement a cyber security system that reduces risk while providing exemplary service and productivity
- Establish excellence in environmental stewardship
- Assess the safety, reliability, and performance of LANL weapons systems
- Transform the Laboratory and the nation's nuclear weapons stockpile to achieve the 2030 vision, in partnership with the Complex
- Leverage our science and technology advantage to anticipate, counter, and defeat global threats and meet national priorities, including energy security
- Be the premier national security science laboratory and realize our vision for a capabilities-based organization
- Provide efficient, responsive, and secure infrastructure and disciplined operations that effectively support the Laboratory mission and its workforce
- Implement a performance-based management system that drives mission and operational excellence
- Deliver improved business processes, systems, and tools that meet the needs of our employees, reduce the cost of doing business, and improve the Laboratory's mission performance
- Communicate effectively with our employees, customers, community, stakeholders, and the public at large
- Develop employees and create a work environment to achieve employee and Laboratory success

"We will anticipate, innovate, and deliver science that matters."

—Michael Anastasio  
Director

