

# Tape Storage Futures at Sandia



## PRESENTED BY

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## Currently.....

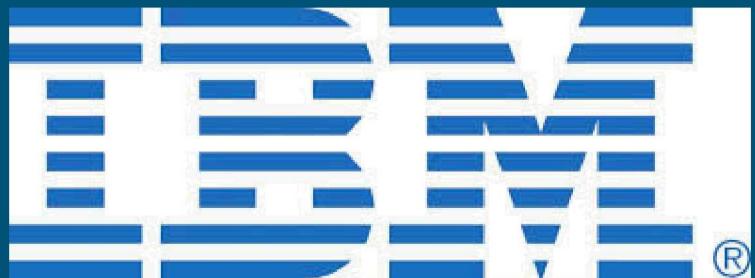
- Sandia supports HPSS and high speed data transfer in four different environments
- All on Oracle/Sun/StorageTek tape hardware
  - 2 SL8500s, 1 SL3000, 5 SL150s
  - T10k-C and D drives, LTO6 drives
  - ACSLS (tape robotics control) and STA (tape analytics) systems
- Maintenance costs on hardware and associated systems continue to go up
- Parts harder and harder to come by

## Future Considerations/Requirements

- Increase overall capacity
- Refresh technology
- Reduce maintenance costs
- Reduce footprint
  - Floorspace
  - Number of systems
- Consistency across environments



Only two.....



So, what to do?

# Testing

- Obtaining loaner/test systems
  - IBM TS4500
  - Spectra Tfinity
- Typical performance/reliability tests
- Compatibility with current environment
- Analytics, analytics, analytics
- Maintenance processes/procedures
- Discussions with counterparts at other labs

# Opportunities

- Choose a maintenance model we prefer
  - More “self” maintenance vs.
  - Traditional direct vendor maintenance
- Simplification and consistency
  - LTO only - across all environments (option to add enterprise at a later date)
  - Single library interface
- Elimination of external library systems (ACSLS, analytics)
- Bonus possibility: Spectra provides option to use Oracle T10k drives and tapes (read only) within the Tfinity library

## Questions/Comments

