Advanced Transportation Data Management

INL Core Capabilities

Protocols & Procedures

Technology Assessment

Quality Results

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Advanced Transportation Data Warehouse
Storage and Security

INL Internal Firewall

Access Protected Firewall

Internal Protected Enclave

Secure Data Transfer
Capabilities

Acquisition of Large Variable Data Sets
- secure data transfer methods
- strict backup protocols
- multiple data formats

Automated Data Processing
- use standardized processes to ensure reliability and data integrity
- rapid development techniques produce robust data architectures

Advanced Visualizations & Analyses
- dynamic reports & maps (time animations), white papers, presentations and infographics
- data mining and data analytics
Web Platform

Revamping our web platform

- richer information products
- dynamic data feeds
  *only if NDAs allow
- users can subscribe
Big Data

Parallel Processing Environments
- Hadoop Cluster
- High Performance Computing Environment
- CAVE – Collaborative Virtual Environment