

Chemical Security Assessment Tool

Data Systems Sciences & Engineering Group

Computational Sciences & Engineering Division



- **Problem Statement:**
 - In support of chemical security regulation, the Chemical Security Assessment Tool (CSAT) collects information directly from chemical facilities, refineries, and LNG facilities
- **Technical Approach:**
 - Collect and store data through a series of CSAT surveys accessible via web 2.0 interface
 - QA data, including cross-validation, geospatial correction, statistical and numerical analysis
 - Model and rank facilities based on risk parameters
 - Assess facilities for security vulnerabilities
 - Develop facility-specific site security plans
 - Develop systems necessary to support and defend the long-term regulatory function
- **Benefit:**
 - Inventory and systematically secure the Nation's chemical sector by implementing mandatory security requirements and a system for auditing and ensuring compliance with Chemical Facility Anti-Terrorism Standards
- **Technology Readiness Level 9**

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