



# AIR TRAFFIC MANAGEMENT SERVICES

- Concept Development and Analysis
- Operational Support and Validation
- Information Management and Data Systems Engineering

## Concept Development & Analysis Service



LST supports engineering and operational aspects of Concept Exploration and Development. We provide robust assessment of the current operations through our integrated teams of systems engineers and air traffic, flight operations, and flight deck subject matter experts. Our operational needs/challenges assessment and systematic/technological limitations identification supports new concepts evaluation and prioritization based on operational needs and value. Our concept development services include creation of Concepts of Operations, Scenarios and Use Cases, as well as Operational Need and Value Assessments.

LST also provides services to analyze and validate concepts focused on aligning the operational and engineering aspects to identify and ensure the operational value is understood by all stakeholders. Our services include facilitation of Cognitive Walk-throughs and structured engagement sessions bringing together relevant stakeholders to validate the feasibility and value of concepts and proposed capabilities. Our Scenario and Concept Analysis service delivers assessments of operational viability and value and validation of ATM procedures in support of the concept. LST has experience developing operational requirements, defining demonstration scenarios, developing and coordinating scripts in support of FAA demonstration and prototyping events.

## LST Quick Facts

- 300+ personnel nationwide
- ISO 9001:2015 certified
- Professional and Technical Services:
  - » Air Traffic Management
  - » Business Services
  - » Operational Support Services
  - » Enterprise Communications & Critical Infrastructure
  - » System Engineering & Program Management

## Representative Work Efforts

- FAA Concepts, Scenarios, and Use Case Development for Operational Improvements
- Enterprise Architecture Artifacts Creation
- FAA Operational Alternatives Analysis
- International Support for Global Standards
- NextGen Capability Maturation and Operational Improvements

## Operational Support & Validation Services

LST provides ATM operational subject matter expertise across the breadth of concept development and program execution phases. Our experts possess experience across all aspects of Air Traffic including, Tower, Terminal, En Route, Oceanic, as well as flight deck and airline operations. Additionally, our experts bring Traffic Flow Management experience single facility to national application. Our experts provide domestic and international ATM expertise during the development and validation of new concepts, implementation programs, and international policy development.

### Representative Work Efforts

- FAA International Demonstrations
- NextGen Operational Validation
- NextGen Cognitive Walkthrough Support

## LST Air Traffic Management POCs

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## Data Systems Engineering

LST provides information management and data engineering including governance analysis, information service & security architecture development, data exchanges, and policy and standard integration. This support includes:

- Exchange model analysis & development;
- Cloud application supporting ATM operations (SWIM);
- Information Access and Management Support;
- Web Collaboration Tools/Network;
- Technical Support of Global Standards and Requirements; and
- Information Services

LST works with customers to define data exchange requirements supporting information service architecture. Using a structured framework, we provide a flexible method to define the supporting data infrastructure to meet the needs of unique operational environments and ensure global harmonization. The resulting products enable service providers and stakeholders to develop more effective processes, procedures, and mechanisms supported by flexible information services to respond to operational challenges. LST works with stakeholders to develop scenarios capturing stakeholder roles and responsibilities to provide the basis for information exchanges that ensure a common operating picture. This detailed analysis and understanding of information exchange requirements supports development of comprehensive operational and performance requirements for technology solutions

### Representative Work Efforts

- UAS Data Exchange Support
- UTM/FIXM Data Analysis
- FAA Future SWIM Services Analysis and Development
- FAA Trajectory Based Operations (TBO) Information Analysis