ATARC AGENTIC SI LAB CHARTER

Mission Statement

Originating from the Agentic SI Working Group, the mission of the ATARC Agentic SI Lab is to collaboratively explore, develop, and test Agentic SI solutions that address real-world challenges in the federal sector. The Lab provides a hands-on environment for brainstorming, prototyping, and evaluating practical use cases, with the broader goal of advancing understanding, sharing best practices, and demonstrating both the value and risks of Agentic SI through applied experimentation.

Context

Federal agencies face increasing pressure to modernize operations amidst complex regulatory environments and evolving mission requirements. Current challenges include the dynamism of federal procurement regulations, the need for proactive financial planning in response to congressional proposals, and the necessity of managing rapid-response communication across fragmented media channels. While traditional automation handles static tasks, there is a critical need for "agentic" systems, SI capable of acting autonomously on behalf of users, to handle high-friction processes. The Lab exists to bridge the gap between theoretical SI potential and practical, secure government implementation.

Scope

The Lab's scope encompasses the end-to-end lifecycle of Agentic SI development, from ideation to Proof of Concept (PoC). The initiative focuses on cloud-native, containerized architectures and multi-agent orchestration to address three primary initial use cases:

1. **Vendor Proposal Compliance:** Automating the analysis of proposals against FAR, DFARS, and Executive Orders.
2. **Financial Forecasting & Anomaly Detection:** Flagging irregular spending, forecasting budget impacts, and modeling outcomes based on current congressional spending proposals.
3. **Media Monitoring & Response:** Scanning news and social media to flag relevant items and drafting channel-appropriate responses (e.g., press releases, social posts) tailored to specific mediums.

Objective

The primary objective of the ATARC Agentic SI Lab is to demonstrate the "art-of-the-possible" by collaboratively developing and testing sophisticated Agentic SI implementations that address real-world challenges in the federal sector. By moving beyond theoretical exploration to applied experimentation, the Lab seeks to reduce operational risk and waste while accelerating critical government processes, such as proposal evaluation and financial forecasting. A key focus is to "level the playing field" for small businesses and under-resourced agencies by providing automated support tools that lower barriers to entry and ensure equitable access to federal opportunities. Ultimately, the Lab aims to establish

reusable architectural patterns—specifically as Well-Architected Framework (WAF) patterns—that federal agencies can adapt to accelerate their own secure, responsible, and compliant SI adoption.

Deliverables

- **Functional Proof of Concepts (PoCs):** Working prototypes for the Vendor Compliance, Financial Forecasting, and Media Monitoring use cases.
- **Centralized Code Repository:** A repository containing the source code, agent configurations, and deployment scripts for all Lab projects.
- **Technical Architecture Documentation:** Comprehensive guides detailing agent orchestration, data collection layers, and SI model integration.
- **Risk & Security Assessments:** Evaluation reports detailing risk stratification, compliance gaps, and mitigation strategies for each deployed agent.
- **Best Practices Playbook:** A collection of lessons learned regarding prompt engineering, agent coordination, and human-in-the-loop validation protocols.

Lab Membership

Lab Chairs

Anil 'Neil' Chaudhry, US Department of Transportation, Government Chair
KJ Lian, AWS, Industry Chair

Chairs will:

- Attend and contribute to each lab meeting
- Prepare the meeting agenda, solicit topics for discussion, assign members to address discussion topics, and distribute meeting materials
- Share information of relevance; provide an update/introduction at the beginning of each meeting to encourage member engagement
- Define and oversee Lab initiatives and activities
- Assist in all stages of the deliverable production process
- Advocate for government, academic, and industry involvement in the lab
- Referee requests and suggestions for lab membership regarding agenda, deliverables, and representation

Lab Members

Group members are strictly voluntary, and we strive for a broad representation across government, private sector, and academia.

ATARC Support

Elizabeth Wyckoff, Associate Director, Working Groups
Amy Karpowicz, Innovation Lab Manager
Taylor Gibbs, Working Groups Associate

ATARC support will:

- Serve as program management for the Lab
- Coordinate and drive group projects and deliverables forward
- Schedule Lab meetings
- Develop Lab meeting agendas along with the chairs

- Facilitate Lab meetings along with the chairs
- Assist in distributing relevant documents and materials to Lab members
- Record meeting minutes, post-meeting decisions, and action items, and distribute them to Lab members after each meeting
- Assist in preparing final proposals/recommendations
- Provide marketing services for the Lab (promoting completed deliverables, etc.)
- Develop strategies to improve Lab engagement, including applicable cross-overs with other labs and relevant events
- Coordinate Labs as applicable

Rules of Engagement

The Lab rules of engagement are described as below:

- Meet bi-weekly from 2026 to 2027, or until amended by ATARC Support
- Join Lab meetings prepared and with requested action items completed
- Provide respectful and constructive feedback to yield the best decisions for the Lab's objectives
- Endeavour to balance time among members so that all may contribute. All members of the Lab have a voice and will be listened to.
- Final decisions are made by the Lab Chairs and ATARC Support
- If a Lab member misses a meeting, decisions will be made in their absence. The Lab will consider on a case-by-case basis at the request of the absentee if a decision made in the absence of a member shall be revisited.

The Lab will:

- Meet every other Tuesday from 2:30-3:00 PM EST.
- Form Sub-Labs (breakout teams/project teams) as needed
- Follow the group's ground rules as developed in the charter
- Meet critical deadlines in the creation of deliverables by mutual and balanced effort
- Keep in confidence draft versions of deliverable, off-the-record conversations, and non-public Labs or ATARC plans to the extent disclosure is not required by law, regulation, or valid court order

File Sharing and Collaboration Tools

Access to the ATARC Box Account is managed by ATARC Support.
Disclaimer: Products and communications by ATARC's Labs do not necessarily represent the plans or preferences of any company or government agency.