

ARTIFICIAL INTELLIGENCE FRAMEWORK FOR OPTIMIZING RESILIENCE AND GAINING EFFICIENCIES (AI FORGE)

Supply chain risk and resilience professionals need faster data analytics to arrive at initial interpretation of immense, growing data pools. Agencies need faster, more efficient solutions to equip supply chain programs and analysts with rapid baseline insights so that they can expeditiously apply scarce human expertise.

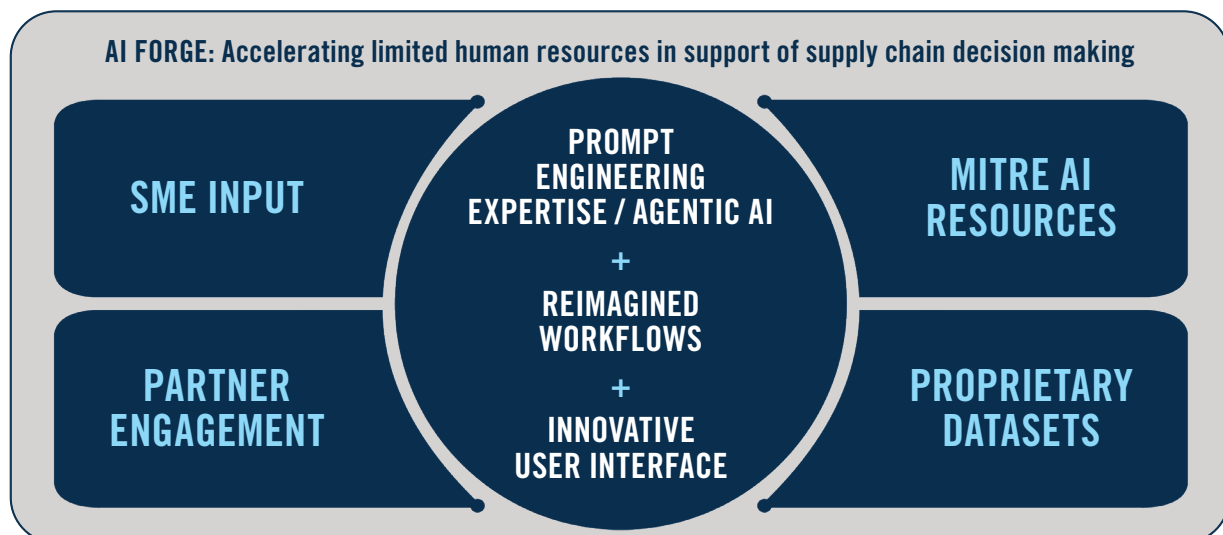
In response to these challenges, MITRE developed and introduced the Artificial Intelligence Framework for Optimizing Resilience and Gaining Efficiencies (AI FORGE). This framework provides a consistent methodology for enhancing productivity, overcoming time constraints, and uncovering new insights into supply chain vulnerabilities, risk scenarios, resilience courses of action, and resilience measure modeling.

Leveraging MITRE's extensive experience in supply chain security and AI, we engaged our government and industry partners to develop the following key elements to enable AI FORGE's objectives:

1. Utilizing cutting-edge prompt engineering to optimize AI interactions
2. Incorporating supply chain subject matter expertise to ensure relevance and accuracy
3. Implementing an innovative user interface to reimagine workflows in the space
4. Improving resilience outcomes across the nation through enhanced analysis capabilities
5. Deriving new insights into critical supply chain vulnerabilities and risk scenarios
6. Modeling and evaluating resilience courses of action
7. Supporting long-term strategic planning for supply chain resilience

High-Level Benefits of AI FORGE Framework:

- Immediate productivity gains for analysts
- Overcoming time constraints in supply chain analysis
- Enhanced identification of critical vulnerabilities
- Improved modeling of risk scenarios and resilience measures
- Reimagined workflows for more efficient operations
- Long-term solution to workforce challenges in the supply chain analysis space
- Improved national resilience outcomes through data-driven insights



*MITRE works with public, private, and proprietary datasets to provide rapid insights for sponsors while preserving intellectual property, privacy, and licensing terms.

For more information, contact supplychainsecurity@mitre.org

MITRE's mission-driven teams are dedicated to solving problems for a safer world. Through our public-private partnerships and federally funded R&D centers, we work across government and in partnership with industry to tackle challenges to the safety, stability, and well-being of our nation.

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