As part of the Department of Homeland Security Centers of Excellence network, the Center for Accelerating Operational Efficiency is part of a consortium of universities and industry partners working to develop innovative solutions to real-world security challenges. Led by Arizona State University and affiliated with ASU’s Global Security Initiative and the School of Computing, Informatics, and Decision Systems Engineering, the center’s research and educational capabilities will be used by DHS components, state and local governments, and first responders to strengthen homeland security operations.

### Strategic initiatives

- developing prevention policy and risk and cost analysis
- designing and implementing more efficient and effective security measures
- educating homeland security professionals
- improving processes and decision times to drive dynamic decision-making

### Research capabilities

- data analytics
- operations research and system analysis
- economic analysis
- homeland security risk sciences
Impactful projects

Reducing wait time at airport checkpoints
Over 2.5 million passengers pass through U.S. airports every day. CAOE is working with the Transportation Security Administration (TSA) to improve airport checkpoint performance by evaluating passenger demand through decision technology and using that information to better allocate resources. This will help the TSA reduce average wait time, improve customer service and quickly adjust to unplanned events while maintaining a high standard of security.

Enhancing preparedness for emergencies
Planning for natural disasters and national emergencies is challenging given their volatile and sudden nature. CAOE is developing a real-time decision system for emergency command-and-control and repair and recovery of vital transportation, electrical power, and diesel fuel supply chains.

Tracking isolated malicious activities
Recent airport security breaches, mass shootings at public events and cyberattacks on sensitive data highlight the inherent challenges of combating diverse, Isolated Malicious Activities (IMAs) or "lone wolf" type of attacks. CAOE is creating technology that will give law enforcement the ability to identify rare signals that indicate probable activities from IMAs.

To learn more about our work, contact:

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