DHS Science and Technology Directorate
Homeland Security Advanced Research Projects Agency

Who We Are

The DHS Science and Technology Directorate (S&T) strengthens America's security and resiliency by providing knowledge products, innovative technology solutions, methods and insights for the critical needs of the Homeland Security Enterprise (HSE). S&T's Homeland Security Advanced Research Projects Agency (HSARPA) focuses on identifying, developing, and transitioning technologies and capabilities to countering chemical, biological, explosive, cyberterrorism, and unmanned aerial threats, as well as protecting our nation's borders and infrastructure.

What We Do

HSARPA's functional organizations work directly with DHS components to better understand and address their high-priority requirements and define operational context by conducting analyses of current missions, systems, and processes. This process ultimately identifies operational gaps where S&T can have the greatest impact on operating efficiency and increasing capabilities.

How We Work - HSARPA Goals

Working collaboratively within S&T, HSARPA delivers usable, scalable, cost-effective, mission-focused capabilities to DHS components and other HSE partners. The team also advises partners on science, technology, and industry developments with respect to mission, threats, and opportunities. HSARPA creates and matures a broad set of relationships across the DHS components and the HSE, which promotes open exchange of ideas and joint collaboration. In order to achieve these goals, HSARPA cultivates a knowledgeable workforce that is empowered to innovate, perform and streamline management execution processes to maximize impact.

Seven Functional Organizations

- **Borders and Maritime Security Division:** Prevents contraband, criminals, and terrorists from entering the United States, while permitting the lawful flow of commerce and visitors.

- **Chemical and Biological Defense Division:** Detects, protects against, responds to, and recovers from biological or chemical threats and events.

- **Cyber Security Division:** Creates a safe, secure, and resilient cyber environment.

- **Explosives Division:** Detects, prevents, and mitigates explosives attacks against people and infrastructure.

- **Program Executive Office Unmanned Aerial Systems:** Leads DHS' approach for guiding, assessing, advising, and enabling technical solutions for using small unmanned aerial vehicles (sUAS) and national efforts to counter sUAS misuse in the homeland.

- **Apex Technology Engines:** A matrixed team that powers open innovation to realize the S&T's strategic goals. Their primary role is to provide a centralized suite of reusable products and support services individually tailored to the Apex program needs, by identifying and sharing best practices, subject matter expertise, knowledge products, and technical services.

- **Integrated Product Team:** Provides prioritized technological capabilities that are a key driver of the research and development agenda.