

PRE-DECISIONAL - NOT FOR PUBLIC RELEASE

**Exhibit R-1, RDT&E Programs
Defense Threat Reduction Agency
Fiscal Year (FY) 2021 Budget Estimates**

Appropriation: RDT&E, Defense-Wide

Date: February 2020

OVERVIEW

The Defense Threat Reduction Agency (DTRA) is the Department of Defense's (DoD) principle Research, Development, Test & Evaluation (RDT&E) program for combating and countering the danger posed by the networks and capabilities of foreign weapons of mass destruction (WMD) and improvised threats. These threats present an immediate, persistent, and evolving risk to our nation's security.

Detecting, deterring and defeating these threats is a DoD priority, and DTRA's mission. DTRA's RDT&E portfolio addresses these threats, and is driven by overarching National, Department and Agency level strategic policy. This RDT&E portfolio is structured to align with the strategic objectives of the 2018 National Defense Strategy (NDS) and Nuclear Posture Review (NPR).

DTRA's RDT&E portfolio spans the technology spectrum from basic through applied research and, where applicable, includes the capability to test new advanced technology capabilities or, to validate with experimental data, computer simulations, or models. The portfolio balances scientific exploration and discovery with near- and mid-term priorities and facilitates innovative solutions and technologies that transition to cost-effective capabilities. The portfolio not only focuses on sensor development, other advanced components, prototype development, and capability transition, but also on leveraging the application of leading information science and the development of advanced analytic capabilities that provide the warfighters with operational and near real-time decision support and capabilities.

This portfolio is a risk balanced effort to address complex problems in DTRA's mission space, including understanding the environment, threats, and vulnerabilities; controlling, defeating, disabling, and disposing of threats; and enhancing DoD's ability to safeguard the force and manage consequences and outcomes.

- Understand the Environment, Threats, and Vulnerabilities: Provides the technical underpinnings to anticipate, detect, identify, locate, characterize, and assess WMD and improvised threat networks. DTRA's portfolio will prioritize capabilities that enable U.S. forces to more effectively operate in environments where their traditional strengths in battlespace awareness are being actively countered.
- Control, Defeat, Disable, and Dispose of Threats: Provides the technical underpinnings to counter threat networks, WMD threats/proliferation, counter improvised threats, and combat threats posed by Unmanned Aerial Systems (UASs). DTRA's portfolio will prioritize capabilities that permit warfighters to defeat, interrupt, or otherwise render useless threat networks well ahead of actual threat employment.
- Safeguard the Force and Manage Consequences and Outcomes: Support operating forces capability to monitor and respond to chemical, biological, radiological, or nuclear incidents; mitigate hazards and their effects; and allow military personnel and other mission-critical personnel to continue operating effectively. Operating forces must be prepared to recover casualties, decontaminate personnel and equipment, and establish a protective posture. In response to these emerging and other enduring challenges, the portfolio supports developing and transitioning innovative technologies to protect mission-essential personnel, capabilities, and associated control and support systems.

DTRA's enduring mission is to enable DoD, the U.S. Government, and international partners to counter and deter WMD and improvised- threat networks including those that pose risk to a credible and effective U.S. nuclear deterrent. The FY 2021 request reflects a reduction of -\$74.830 million resulting from the Defense-Wide Review (DWR) in which the SECDEF conducted program reviews across the Department's portfolio and made strategic decisions to transfer functions to the Military Services and reduce resources associated with lower priority efforts in order to resource higher priorities. DWR decisions included a reduction of -\$31.850 million to DTRA's lowest priority RDT&E programs and a reduction of -\$42.980 million in DTRA's C-IED programs to align RDT&E efforts with the Army as the C-IED mission holder. The Army assumes executive agent responsibilities for C-IED effective 1 October 2020. DTRA's budget continues to reflect Services Requirements Review Board (SRRB) reductions previously implemented across the Future Years Defense Program.