

Research & Development (RD) Directorate

Defense Threat Reduction Agency



RD generates customer focused, threat informed, trusted technical solutions to deter and counter critical WMD problems for today and tomorrow.

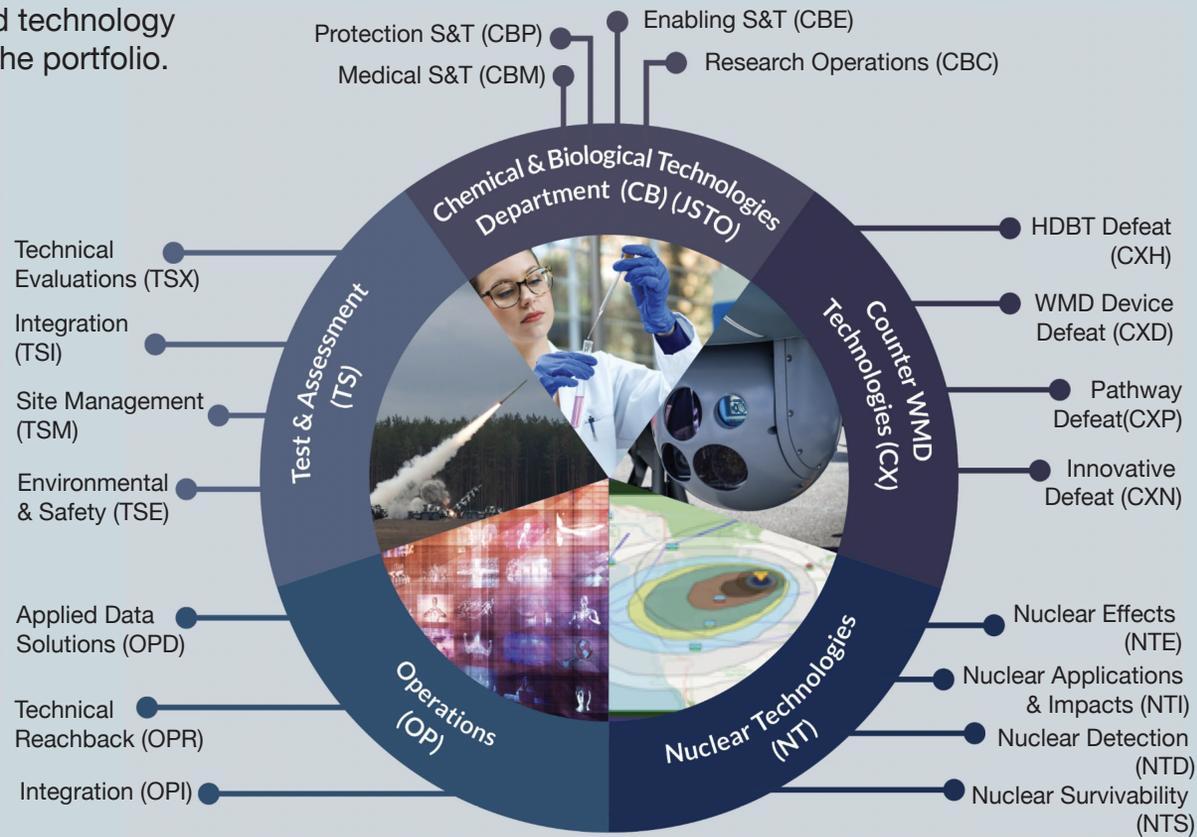
RD executes its mission by delivering innovative solutions that meet current mission requirements in a timely manner and by anticipating and preparing for emerging and future threats with a balance of advanced technology development and fundamental & applied research across the portfolio.

RD Footprint



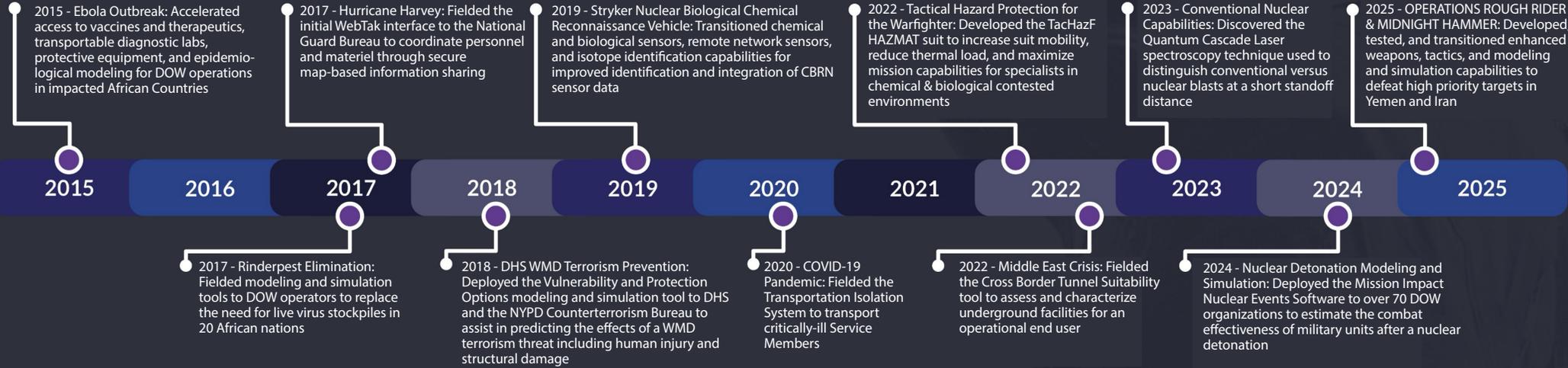
- Primary DTRA RD Locations (*Fort Belvoir, VA and Kirtland AFB, NM*)
- Additional Workforce Locations (*Last Vegas, NV; Fort Bragg, NC; Edgewood / Aberdeen Proving Ground, MD and West Point, NY*)

RD Organization



DTRA RD Impacts

Defense Threat Reduction Agency



Radiation Detection Capabilities



Full-Spectrum Testbed Capabilities



Vaccine & Therapeutic Development



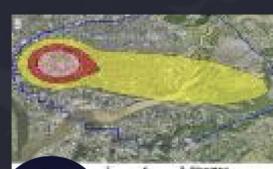
Artificial Intelligence, Machine Learning, & Data Science Software Development



Physical CBRN Protection & Detection



CBRN Subject Matter Expertise



Hazard Modeling & Post Event Analysis Capabilities



Weapons Effects & Targeting Capabilities

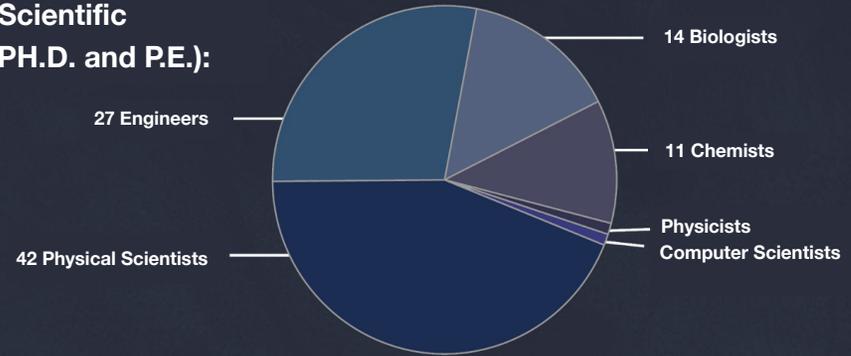
DTRA RD By the Numbers

Defense Threat Reduction Agency Research & Development (RD)



392 Military personnel and Federal Civilians

DTRA RD's Scientific Workforce (PH.D. and P.E.):



165 technologies transitioned to customers since FY 2022



More than **1100**

requests for Technical Reachback support each

year for the Combatant Commands, Military Services, Joint Staff, OSD, Intelligence Community, and other Federal Agencies

3 Billion

CPU hours utilized at the DOW high Performance Computing Modernization Program since 2020



More than **250** personnel with advanced degrees (Masters, Ph.D.s, and Professional Engineering)



12 technologies awards and **40** patents earned since FY 2022



University Research Alliances,



Research and technologies utilized by over

70 DOW partners



90 sensitive assessments completed and over **200** formal products transitioned since FY 2020



149 peer-reviewed basic research articles and

225 external presentations

12 International Data & Information Exchange Annexes and

22 International Project Agreements and Task Plans



740 technical papers and research articles published since FY 2022



625 academic, industry, and government research & engineering partners leveraged since FY 2021

DTRA RD Leadership

Defense Threat Reduction Agency



RD Director

Dr. James "Ben" Petro



RD deputy Director

COL Matthew Moakler



RD Chief of Staff

Mr. Carl Brown

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DTRA JSTO (RD-CB)

Dr. Robert Kristovich, Director

RD-CB (JSTO) leads DOW S&T to rapidly develop and deliver innovative capabilities to deter adversarial chemical and biological use, and prepare, protect, and enable a more lethal Joint Force ready to fight in a CB-contested environment.



Counter WMD Technologies (RD-CX)

Ms. Amanda Richardson, Director

RD-CX develops, demonstrates, and transitions innovative technologies and capabilities to actively counter the full spectrum of adversary activities across the WMD continuum.



Nuclear Technologies (RD-NT)

Mr. Marc Franciszkowicz, Director

RD-NT researches, develops, and transitions nuclear weapons effects, survivability, detection, and monitoring capabilities to support and enable an effective nuclear deterrent.



RD Operations (RD-OP)

Mr. Dustin Eward, Chief

RD-OP provides a cross-cutting capabilities to integrate DTRA's broader RDT&E portfolio and applies RD's CBRN technical expertise to address warfighter information needs.



Test & Assessment (RD-TS)

Dr. Gary Hook, Chief

RD-TS provides objective evaluations of new capabilities to support the DTRA mission and national priorities through tests and assessments.