

Defense Threat Reduction Agency

***Small Business Innovation Research (SBIR)
Small Business Technology Transfer (STTR)***

***Mark Flohr
Program Manager
DTRA R&D***

***Distribution A
Approved for Public Release***



UNCLASSIFIED



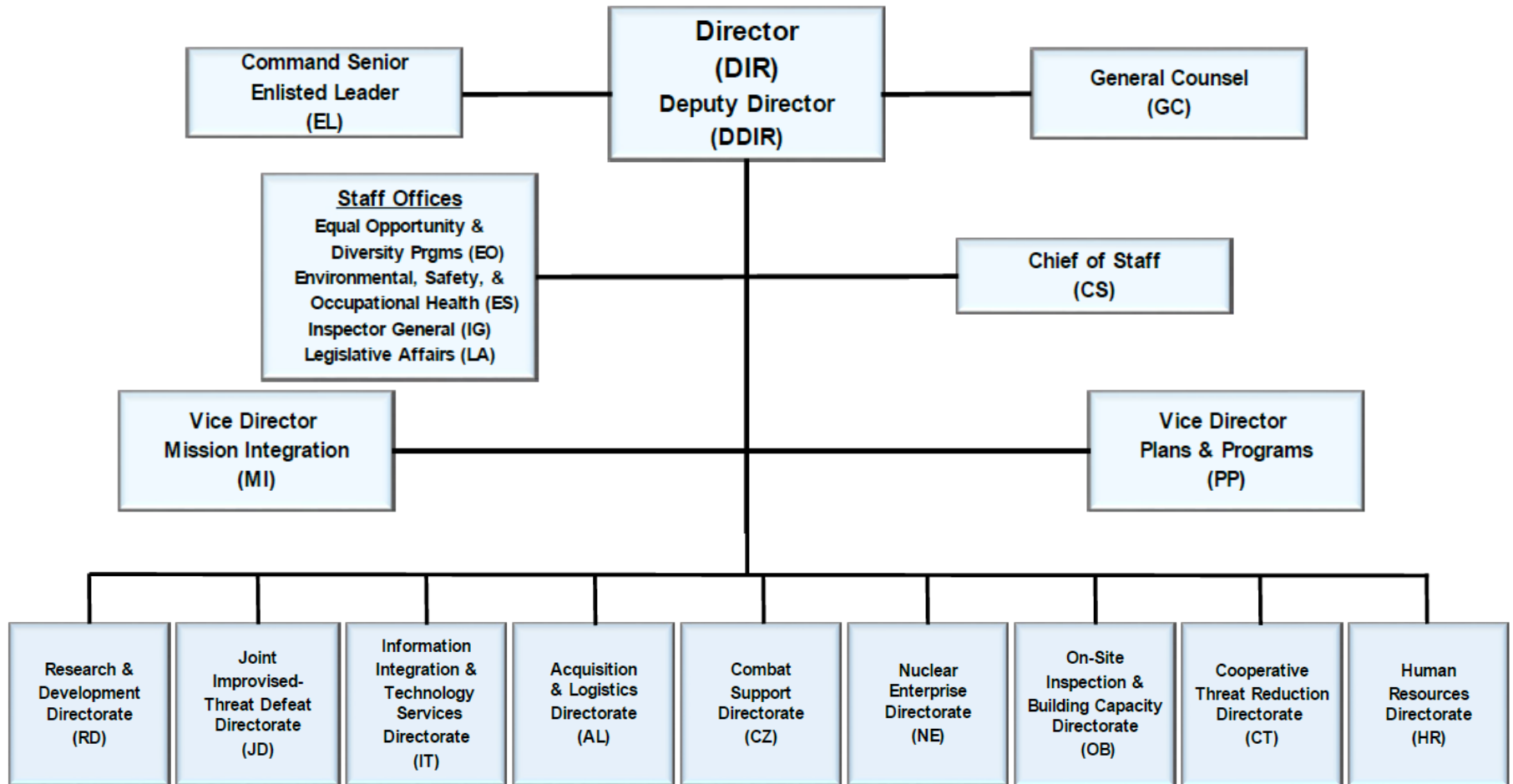
Agency Mission

The Defense Threat Reduction Agency enables DoD, the U.S. Government and International Partners to counter and deter Weapons of Mass Destruction and Improvised Threat Networks.





DTRA Organization Chart





Mission and Vision

Our R&D Mission

Provide research, development, test and evaluation (RDT&E) investments that focus on maintaining the U.S. military's CWMD technological superiority, supporting current readiness, and mitigating the risks of technical surprise for the CWMD mission.

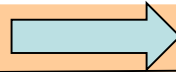
Our R&D Vision

Be the recognized leader for CWMD technical innovation – responding to urgent warfighter needs while investing in R&D to shape the Nation's CWMD capabilities.

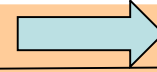


DTRA R&D Aligns with DoD Strategy for CWMD

Prevent



Contain

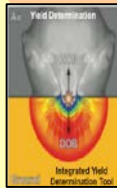


Respond

Understand Environment, Threats, and Vulnerabilities

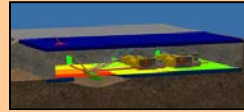


MFK COP Presented on an Android Device



- Global Situational Awareness
- Biosurveillance and Integrated Early Warning
- Threat Detection
- Forensics
- Weapons Effects
- Verification and monitoring
- Consequence of Execution
- Identifying Emerging Threats

Control, Defeat, Disable and/or Dispose WMD Threats



- Special operations support
- WMD ISR
- WMD targeting and defeat
- HTBT characterization and defeat

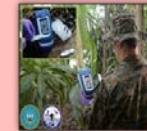


Enabling Technologies



- Basic Research
- CWMD Testing Capabilities
- 24/7 Technical Reachback
- Advanced Analytics
- Interagency/international leverage

Safeguard the Force and Manage Consequences



Point-of-Arrival Diagnostics in Relevant Environments



- System Survivability
- Threat Agent Mitigation and Decontamination
- Hazard Characterization and Prediction
- Personal and Collective Protection
- Medical Diagnostics & Analysis
- Vaccines/Therapeutics
- Rapid response and restoration



DTRA RDT&E Summary

- **DoD's R&D organization focused on CWMD**
 - Executes the two primary DoD CWMD S&T programs
 - Integration of JIDO's efforts adds significant value to overall RDT&E portfolio
- **Responds to national/DoD CWMD priorities and SecDef's Lines of Effort (LOE)**
 - Supports the strategic deterrent
 - Provides USSOCOM primary support for CWMD capabilities
 - Develops, coordinates, and transitions CBDP S&T medical and physical sciences technologies for validated joint military capability needs
- **WMD-related research into over 100 universities**
- **Preserves core scientific and technology capabilities within the Military Service laboratories**
- **Comprehensive integrated R&D investment increases agility to respond to new/changing requirements**



What's Unique about DTRA RDT&E

- **Focused Solely on CBRNE**
 - Collaboratively executes the two primary DoD S&T budgets for CWMD
 - Integration of JIDO's efforts adds significant value to overall RDT&E portfolio
- **Within a Combat Support Agency (CSA)**
 - Military / Deployable Workforce
 - 24/7 Ops / Reachback Center
 - Liaison offices at all US Commands
- **Nimble and responsive to urgent needs**
 - Basic Research through Advanced Technology Development (6.1 - 6.3) "under one roof"
- **Top-notch and unique in-house field test capability**
- **Competitive "Best of Breed" across National/DoD labs, industry, academia**



DTRA SBIR

- **DTRA SBIR**

- Funds: FY16 = \$9.1 FY17 = \$9.2M FY18= \$9.9M FY19= \$9.9M
- Participate in one DoD Broad Agency Announcement per year
- Solicitation 16.2 (7 topics / 14 Phase I awards and planned up to 7 Phase II awards)
- SBIR 17.2 BAA (8 topics / 19 Phase I awards and planned up to 8 Phase II awards)
- SBIR 18.2 BAA (7 topics / plan for 14 Phase I awards and up to 7 Phase II awards)
- SBIR 19.2 BAA (7 topics / plan for 14 Phase I awards and up to 7 Phase II awards)
- Potential for additional SBIR Phase II awards using OSD SBIR STTR funds



DTRA SBIR

Participating in one DoD solicitation per year

BAA	No of Topics	Phase I awards	Phase II awards	OSD funded	Total Phase II Awards
15.2	8	16	9	0	9
16.2	7	16	10	0	10
17.2	8	18	8*	TBD	TBD
18.2	7	19	7*	TBD	TBD
19.2	7	14	7*	TBD	TBD

Blue – Awarded

Green – To be Awarded

* Potential for additional funding



DTRA STTR

- **DTRA STTR**

- Funds: FY16 - \$1.4M FY17 - \$1.3M FY18 - \$1.4M FY19 - \$1.4M
- Participate in DoD Broad Agency Announcement in even years
- Solicitation FY16.A (4 topics / 8 Phase I awards, 1 Phase II award) Two additional STTR Phase II awards using OSD SBIR STTR funds
- No STTR Topics in FY17
- FY18.B BAA (4 topic / 8 Phase I awards and 1 Phase II award) May request OSD SBIR-STTR funds for additional Phase II awards.
- FY19.B BAA (3 topics / 6 Phase I awards and 1 Phase II award) May request OSD SBIR-STTR funds for additional Phase II awards.



DTRA STTR

Participating in DoD solicitation mainly in even years

BAA	No of Topics	Phase I awards	Phase II awards	OSD funded	Total Phase II Awards
16.A	4	10	1	2	3
17.A	NA				
18.B	4	8	TBD	TBD	TBD
19.B	3	6	TBD	TBD	TBD

Blue – Awarded

Green – To be Awarded



DTRA SBIR/STTR Contact:

Mr. Mark Flohr

SBIR/STTR Program Manager

E-Mail: Mark.D.Flohr.civ@mail.mil