



DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY



Cold Weather
Clothing
Scott Kromis

11/16/17



Program Overview

- Items & relevant Integrated Supply Team stats:
 - Over 60 Cold Weather items/Various end item Cloths
 - sales for recent Fiscal Years (in Millions)
 - 2015: \$184, 2016: 201, 2017: \$210
 - 2018: anticipated \$215
 - Obligations for recent Fiscal Years (in Millions)
 - 2015: \$174, 2016: \$144, 2017: \$179
 - 2018 anticipated: \$210; October 2017 – \$25



Obligations

- In Millions
- Obligations - FY17 Planned: \$194
- Obligations – FY 17 Actual: \$179
- FY18 forecast: \$200



Open Procurements

- SPE1C1-17-R-1026 Closed 11/14/17
- Long Term Acquisition for Cold Weather Parka
- Target Award Date May 2018

- SPE 1C1-17-R-0152 Closed 11/14/17
- Fixed Quantity (20,000) for same item
- Target award May 2018



Open Procurements

- Layer 5 Gen 3 Extended Cold Weather Clothing System
- Closing Date Dec 2018
- Base plus 2 options.
- Minimum per term: 15,000
- Annual Estimated Quantity: 24,000
- Maximum per term: 30,000



Upcoming Opportunities

- Layer VI Parka
- Annual Estimated Quantities of 300,000
- Anticipated Market Research January 2018
- Anticipated Solicitation March 2018
- Anticipated Award(s) October 2018
- Expect to have multiple lots
- Number of options to be determined



Upcoming Opportunities

- Team may buy new Fire Retardant Fleece to be worn aboard ship by certain Navy personnel - Particulars to be announced.
- Various Cloth acquisitions – mostly below \$150,000 (Simplified Acquisitions).
- Some similar cloths may be combined.



Points of Contact

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NOTE: Toni and Scott are Contracting Officers.

Only Contracting Officers can obligate Government or modify contracts.



Points of Contact (Continued)

- Tech Team
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Headquarters U.S. Air Force

Integrity - Service - Excellence

Cold Weather Clothing



**Capt Taylor Harrison, USAF
Program Manager
Air Force Uniform Office
16 Nov 17**

Cold Weather Aviation System

Product improvements:

- Improve protection for extreme cold aviation operating temps (down to -49°F)
- Provide a multi-layer garment, boots, and gloves that are Safe to Fly in extreme cold conditions

Requirements:

- Provide 6 hrs protection @ -49°F (Objective)
- Provide 2 hrs protection @ -20°F (Threshold)
- Improve Moisture Management
- Aircrew Flight Equipment interface
 - Upper/lower pressure hose pass through

Integration across AF Aircraft platforms

- Sep 17 - Initial Fielding Order Placed
- Sep 17- IWOL TDP/SRP Completed*
- Oct 17 - Begin Transition to DLA

CWAS immediate for PACAF, not AF wide at this time



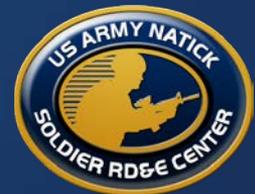
QUESTIONS

Cold Temperature and Arctic Protective System (CTAPS)

Soldier Clothing and Configuration Management Team, NSRDEC

16 November 2017

Joint Planning Brief for Industry

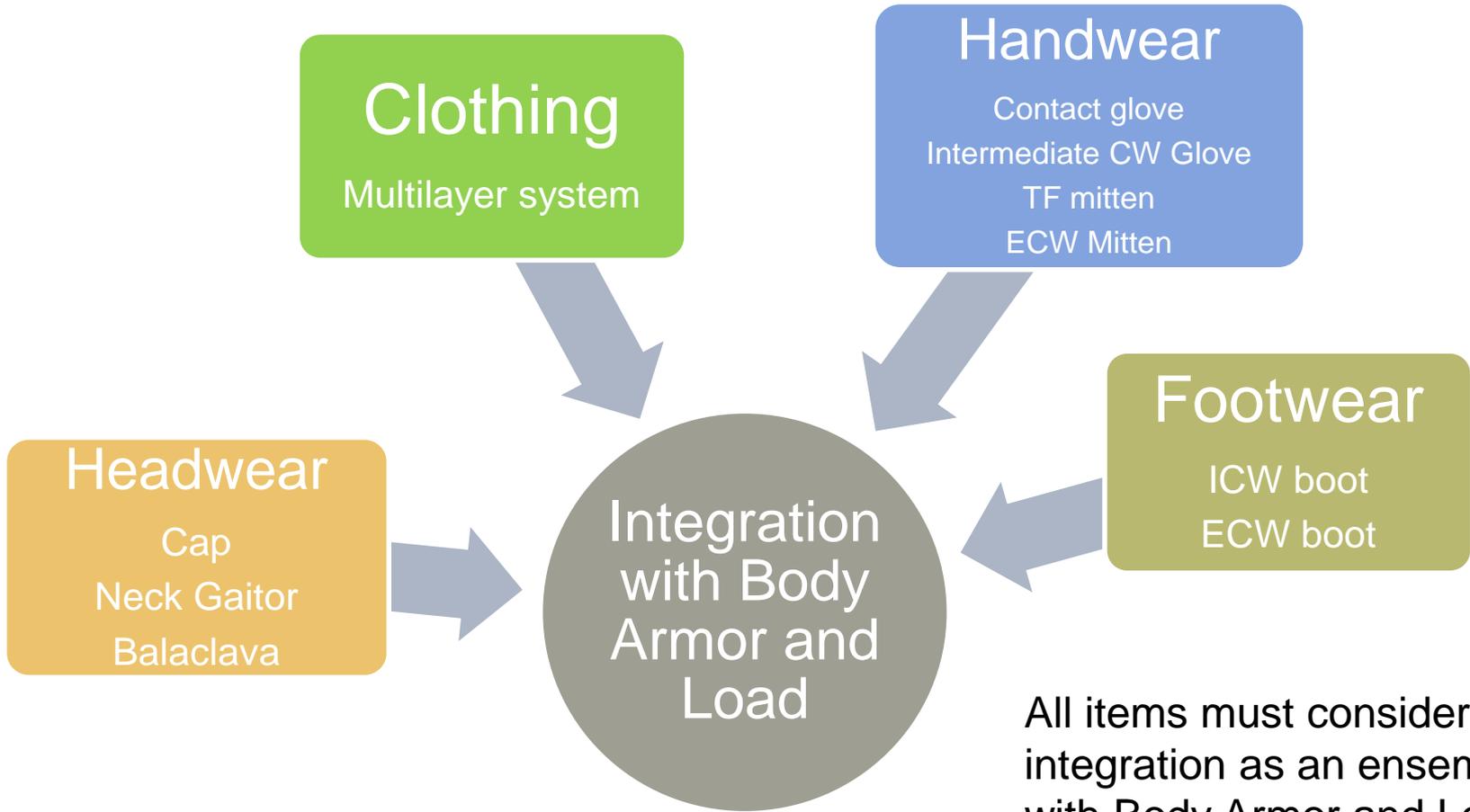




Description: The US Army Natick Soldier Research, Development, and Engineering Center (NSRDEC) in collaboration with the Product Manager for Soldier Clothing and Individual Equipment (PdM-SCIE), and the Maneuver Center of Excellence (MCoE) have launched Cold Temperature and Arctic Protective System (CTAPS), a research effort that will quantify performance and material needs for Soldiers operating in cold/wet environments. The outcome(s) will be measurable material performance metrics that can contribute to acquisition requirements, a model that relates materials to Soldier physiological response, and novel materials/configurations



CTAPS Ensemble



All items must consider integration as an ensemble and with Body Armor and Load Carriage as appropriate.



CTAPS Ensemble



Other Important aspects of the Ensemble:

Operationability:

- Enhance survivability, sustainability and mobility
- Mission tailorable-quick don/doff, layer up/down, adjustability, secure closures
- Uniform design-fit/sizing of layering, vents, pockets, access points

Final ensemble must be Berry Compliant

Flame Resistance:

Protection level and layer To Be Determined.

Winter 2016-2017

Solider feedback gathered on current Extended Cold Weather Clothing System (ECWCS) & Fire Resistant Environmental Ensemble (FREE).

Examples of areas identified for improvement were: Handwear and Footwear address temperature range gaps, material durability of L5, reduction of weight/bulk in other layers.

March 2017

Request for Information (RFI) for materials and garments released, received, and in process of testing. To date 82 commercial material proposals received distributed evenly among base layers, insulation, and outer shells. Approximately 84 garment submissions received from 8 suppliers with 3 full integrated systems.

Winter 2017-2018

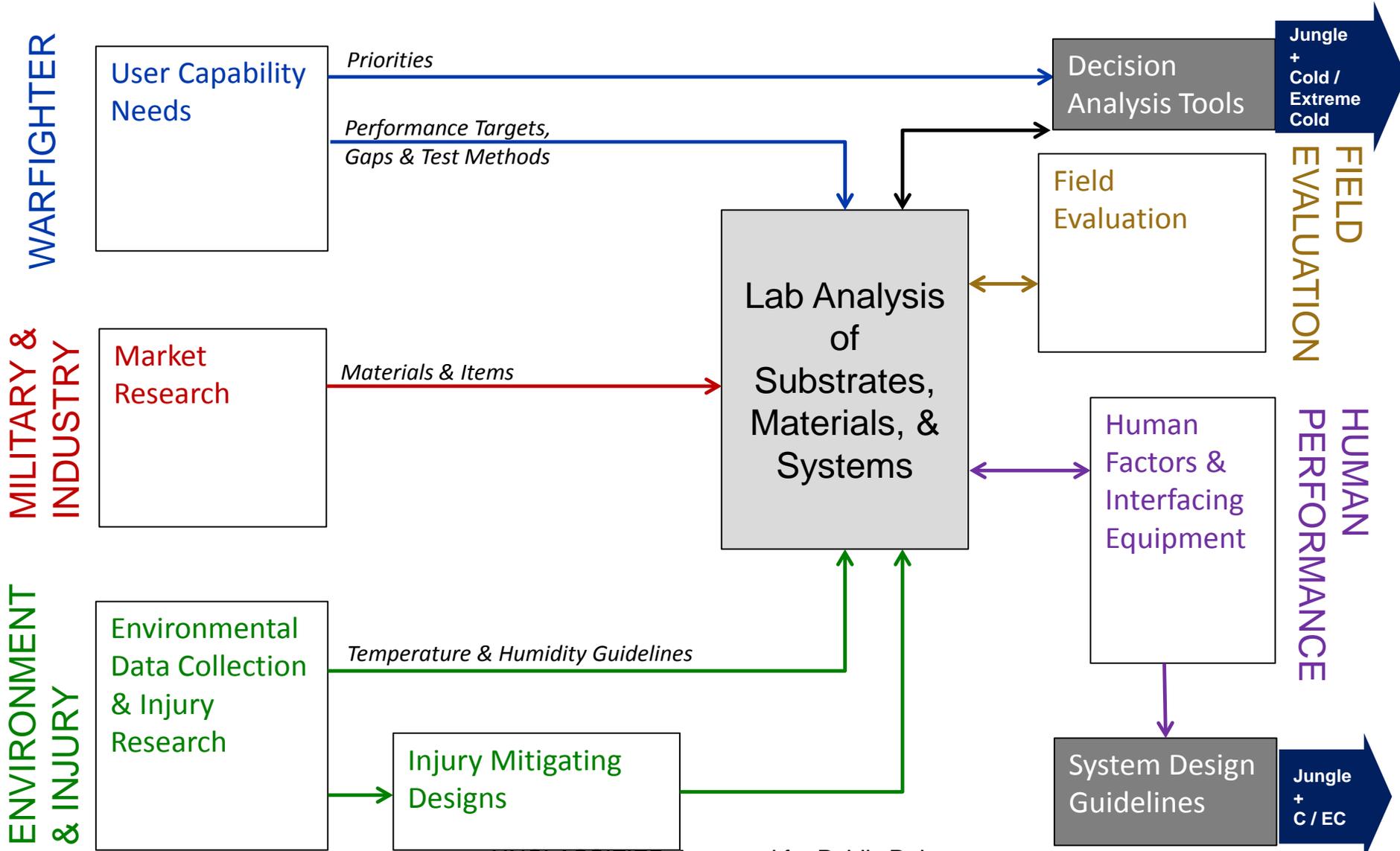
Four areas of investigation planned for clothing and headwear items: Uniform configuration, active-to-static movement(2), and headwear.

Winter 2017 – 2018

Group	Test Items	Areas of Investigation
Group 1	Soft shell L5 Uniform improvements	Uniform Configuration- Improved fit, less baggy, Stretch fabric with increased durability and water repellency Design features- Improved closures, access
Group 2	CW Sleeves Winter ACS	Armor/Load Interface, Active to Static
Group 3	Lightweight Jacket	Active, Light insulation
Group 4	Cap, Neck Gaitor	Neck Gaitor- Introducing No melt and no drip fabric for next-to-skin Interface, Wear methodology



Extreme Cold/Weather Analysis Process Flow



Materials of Interest:

- Reduction of bulk in insulation with increased clo
- Moisture management from body to outside through out all layers
- Improved water resistance and/or waterproof, wind resistance of shell materials
- Novel means of garment construction such as closures, access points

Opportunities upcoming:

- Cold weather layered clothing systems to include multi-functional clothing items
- Manufacture of prototype Government designed clothing layers
- Potential collaborative development of novel materials for any or multiple materials within the clothing system

How to participate:

- FebBizOps for RFI, RFQ
- Broad Agency Announcement, <http://www3.natick.army.mil/NSRDEC-Broad-Agency-Announcement.aspx>



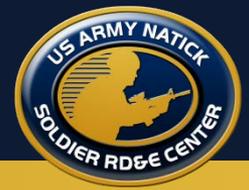
Summary



- CTAPS is to develop a cold weather clothing system with relevant flame protective capability, enhanced environmental protection in the form of moisture management and thermal regulation, reduced weight and bulk, and increased integration with PPE and load bearing equipment to sustain operation effectiveness from -65°F to +45°F.
- With Government, Academia and Industry collaboration, the new cold weather ensemble will utilize novel and emerging materials and clothing designs that will increase comfort, protection, and utility.
- Requirements Decomposition and material (component and system) development are ongoing.



Cold Temperature and Arctic Protective System (CTAPS)



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Cold Weather Clothing

Kelly Fratelli
November 16, 2017



Flame Resistant Fleece Jacket



- Fleece, Jacket, Flame Resistant, US Navy
 - NCTRF PD 01-17
- Flame resistant fleece jacket with reinforced collar, shoulders and elbows
- Modacrylic/Aramid/Nylon blend
- Designed to wear stand-alone but can also be zipped into NWU parka
- Approved fleet organizational clothing item
- Desired availability date: 01 January 2019
- Annual demand estimate of 10,000 units





Cold Weather Parka (CWP)



- 100% Nylon Moisture Vapor Three Layer Laminate
 - NCTRF PD 03-16
- Navy Cold Weather Parka
 - NCTRF PD 02-16A
- Solicitation out to industry for bid.
- Recruit Training Center Introduction APR 2019
- Mandatory Wear Date: OCT 2021.