



**Human Systems  
Community of Interest (HS Col)  
Technology Interchange  
23-27 Jun 13**

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ASD (R&E) Lead

**Dr. John Tangney, SES**  
Navy Lead

**Dr. Laurel Allender, SES**  
Army Lead

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Chair, HS COI  
Air Force Research Labs

**Mr. Maris Vikmanis**  
HS Col Working Group Chair  
Air Force Research Labs

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# Overview



- **About the HS COI**
- **Goals for the Technology Interchange**
- **Agenda and flow**

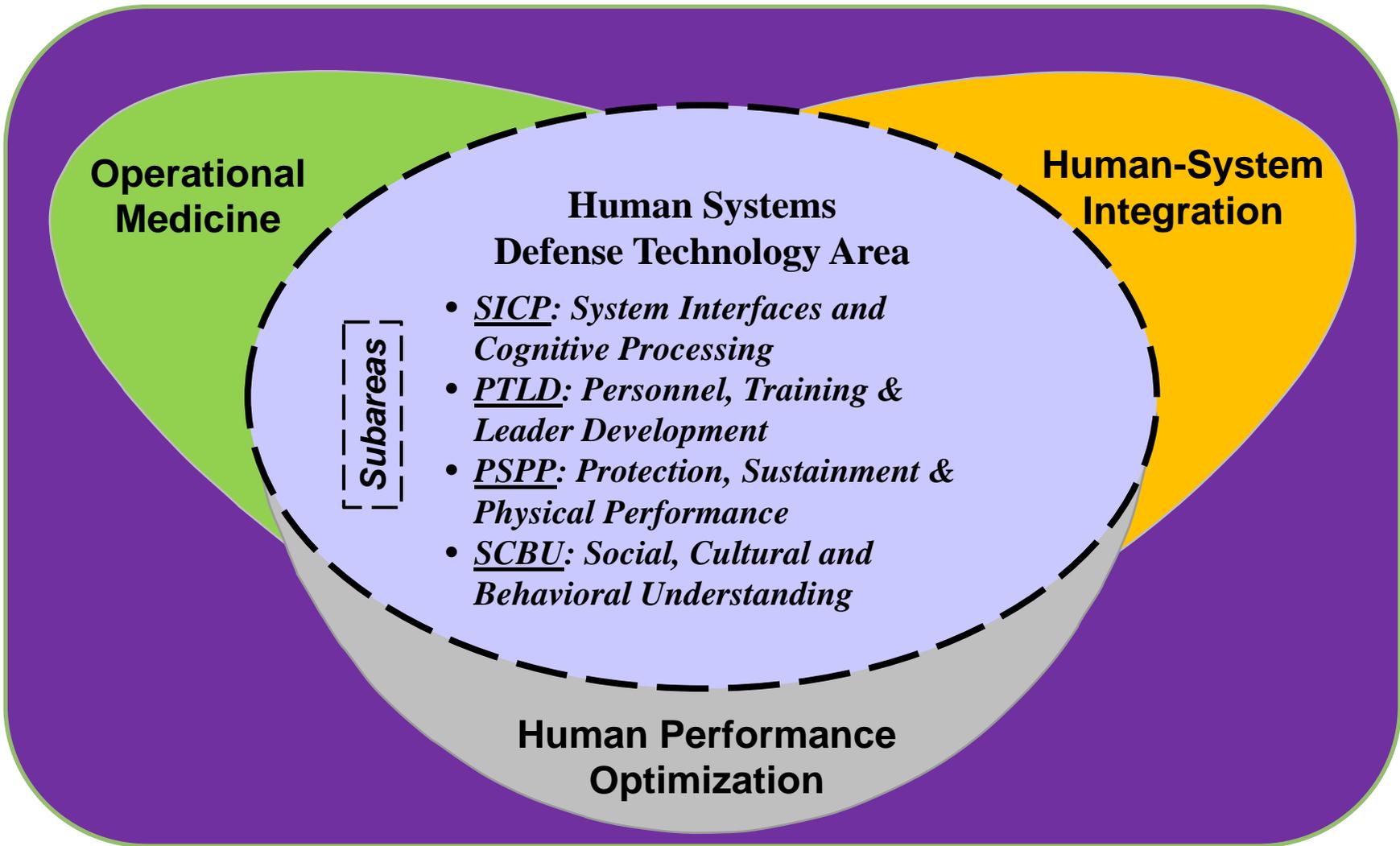
## **DISCLAIMER**

**Information Provided Does Not  
Obligate The Government, Impact  
Future Acquisitions, or Promise  
Future Contracts**



# Human Systems COI

## Broad Elements





# Human Systems Operational Capability Scope



JWSTP - Joint Warfighting S&T Plan



# Human Systems COI

## Participating Organizations



- **Army Research Laboratory – Human Research & Engineering Directorate**
  - **Army Research Institute for the Behavioral and Social Sciences**
  - **Army – MANPRINT Office**
  - **Natick Soldier Research, Development, and Engineering System Center**
  - **US Army Medical Research & Materiel Command**
  - **Office of Naval Research – Warfighter Performance Department**
  - **Navy – Human System Integration Engineering**
  - **Navy – Naval Air Systems Command**
  - **Navy Medical Support Command**
  - **Air Force Research Laboratory – 711 Human Performance Wing**
  - **Air Force Human System Integration Office**
  - **Air Force Medical Service**
  - **ASD(R&E) – Human Performance, Training, & BioSystems**
  - **ASD(HA) – Force Protection & Readiness**
  - **NATO Human Factors & Medicine Panel\***
  - **DoD Human Factors Engineering Technology Advisor Group\***
  - **Defense Threat Reduction Agency – Chemical/Biological Technologies\***
- \* increasing linkage/participation



# Human Systems DTA

## Subarea and Service Leads



Subareas	Army	Navy	Air Force	Other
Personnel, Training, & Leader Development	Dr. Gregory Goodwin ARI	<b>CHAIR</b> Dr. Ray Perez Office of Naval Research	Dr. Wink Bennett 711HPW/RHA	Dr. Jill McQuade ASD(R&E) HPTB
System Interfaces & Cognitive Processing	Dr. Kaleb McDowell ARL HRED	Dr. Paul Bello Office of Naval Research	<b>CHAIR</b> Dr. Todd Nelson 711 HPW/RHC	
Protection, Sustainment & Physical Performance	<b>CHAIR</b> Dr. Mike LaFiandra ARL-HRED   Dr. Jeff Schiffman (Alt) NSRDEC	Dr. Peter Squire Office of Naval Research	Ms. Stephanie Miller 711 HPW/RHD	
Social, Cultural, & Behavioral Understanding	Ms. Charneta Samms ARL-HRED	<b>CHAIR</b> Dr. Rebecca Goolsby Office of Naval Research	Dr. Michael Young 711 HPW/RHX	Ms. Elizabeth Lyon ASD(R&E) HPTB

➤ HS COI has 4 major Subareas under the Human Systems DTA. Lead is highlighted



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- **Goals for the Technology Interchange**
- Agenda



# Defense Innovation Marketplace Human Systems Pilot Program Home Page



## Goals:

- **Make the Marketplace a robust information environment for Human Systems Government, Industry, and Academia interaction**
- **Leverage Marketplace to provide needed R&D program insight on what industry can do to address important DoD needs at the HS COI level**
  - Host HS Technology Interchange with Industry on 24-27 Jun 13 in Wash D.C
  - Stimulate collaboration between Human Systems experts
  - Identify areas for more effective DoD investments in Human Systems related S&T programs—first step is identify potential collaborations with industry

The screenshot shows the homepage of the Defense Innovation Marketplace. At the top, it features the title "DEFENSE INNOVATION MARKETPLACE" and a row of logos including the Department of Defense, DARPA, and various military branches. Below this is a navigation menu with links for HOME, RESOURCES, FAQs, NEWS & EVENTS, ABOUT, and CONTACT US. The main content area is titled "CONNECTING INDUSTRY & GOVERNMENT" and includes introductory text about the marketplace's purpose for industry and government. A section titled "NEW IN THE MARKETPLACE" lists recent updates under three categories: S&T Strategic Documents, Doing Business with DoD, and News & Events. On the right side, there is a sidebar with "INNOVATION OPPORTUNITIES" and three main categories: DoD Resources, Industry, and Government. A fourth category, "Human Systems", is highlighted with a yellow box. Below it is "Space Systems". At the bottom of the sidebar, there are social media links for Twitter and RSS.



# Opportunity to Make a Difference Better Buying Power (BBP) Initiative



THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON  
WASHINGTON, DC 20301-3010

NOV 13 2012

ACQUISITION,  
TECHNOLOGY  
AND LOGISTICS

MEMORANDUM FOR DEFENSE ACQUISITION WORKFORCE

SUBJECT: Better Buying Power 2.0: Continuing the Pursuit for Greater Efficiency and Productivity in Defense Spending

It's been over two years now since Dr. Carter and I issued guidance to the acquisition community to ensure affordability and increase productivity in defense spending to deliver better value to the taxpayer and Warfighter. This guidance was followed by Better Buying Power (BBP) initiatives for increasing efficiencies in order to "do more without more." In these last two years, we've made significant strides, to include institutionalizing many of these initiatives. We are making good progress; we have learned from our experience, but we still have much to accomplish.

Through this memorandum I am introducing a preliminary version of BBP 2.0. After a period of two months for review and comment by stakeholders in industry and government, this will be followed by a more detailed memorandum that will outline the specific goals and requirements for each initiative included in the final BBP 2.0. We will continue to emphasize existing BBP initiatives that are especially important to our success or that require additional refinement, and we will incorporate new ideas and best practices to emphasize that have emerged from the work of the last two years.

As depicted in Attachment 1, BBP 2.0 encompasses 36 initiatives (which are further described in Attachment 2) that are organized into seven focus areas. These include a new focus area that reflects the importance of our total acquisition workforce. The basic goal of BBP, however, remains unchanged: deliver better value to the taxpayer and Warfighter by improving the way the Department does business.

As we move forward with BBP 2.0, let me reiterate that this represents a management philosophy of continuous improvement in our acquisition practices. Improving the productivity of all our contracted work, both products and services, is not an easy task that can be accomplished with a simple set of policy changes. It will require the professionalism and dedication I know I can expect from everyone in the workforce. We are entering an era where resources for the Defense Department are likely to be limited. We must wring every possible cent of value for the Warfighters we support from the dollars with which we are entrusted by the American taxpayers.

Frank Kendall

## Goals:

- Deliver better value to taxpayer & warfighter by improving how DoD does business
- Incentivize Industry/Gov't productivity and innovation
- Expand programs to leverage industry's IR&D



This is a new process --  
please give us your feedback!



# Technology Interchange

## Calendar of Events for Each Session



Activity (Time)	Activity (Time)*
<i>If 1 project in the session</i>	<i>If 2+ projects in the session</i>
HS COI Lead - Intro/Overview (5 min)	HS COI Lead - Intro/Overview (5 min)
Gov't – SubDTA “starter charts” then tech gap discussion (15 min)	<u>Gov't</u> - SubDTA “starter charts”; Tech gap #1 <u>Company</u> –Project #1
Company – Discuss Project (15 min)	<u>Joint</u> - Discussion/Way Forward Project #1
Joint - Discussion on merit of future collaboration/way forward (20 min)	<u>Gov't</u> - Tech gap # 2 <u>Company</u> –Project # 2 <u>Joint</u> - Discussion/Way Forward Project #2
	<b>Continue pattern until done</b>

**\*NOTE: Projects are discussed and decided upon for future collaboration one at a time. Less time if there are multiple projects – as low as 25 minutes per project total...**



# Companies at Tech Interchange



<b>ADAPX INC.</b>
<b>APPLIED RESEARCH ASSOCIATES INC</b>
<b>CHARLES RIVER ANALYTICS INC</b>
<b>CHARLES STARK DRAPER LAB</b>
<b>DESIGN INTERACTIVE</b>
<b>FASTWALKER SYSTEMS, INC</b>
<b>INTELLIGENT AUTOMATION INC</b>
<b>JOHNS HOPKINS UNIVERSITY</b>
<b>KESTREL CORPORATION</b>
<b>LOCKHEED MARTIN CORP</b>
<b>MITRE CORPORATION</b>
<b>SA TECHNOLOGIES INC.</b>
<b>SAIC</b>
<b>SOAR TECHNOLOGY INC</b>
<b>STRATEGIC ANALYSIS ENTERPRISES</b>
<b>TARGETED INSIGHTS COMMUNICATIONS PROFESSIONALS</b>
<b>UNITED TECHNOLOGIES INC</b>
<b>UNIVERSITY OF TEXAS AT DALLAS</b>
<b>ZEBRA IMAGING, INC</b>