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Sent: Friday, January 22, 2010 7:17 PM
To: ICAHST Council Members
Cc: Fredrick T. Martin
Subject: Feedback from 20 January 2010 ICAHST Meeting

Attachments:

1. Attendee List 20 January 2010.pdf
2. Agenda 20 January 2010.pdf
3. Zeller DHS S&T Center of Innovation Briefing 20 Jan 2010.pdf
4. Toomer ICAHST Outreach 20 Jan 2010.pdf
5. OHara NSA RF Weapons 20 Jan 2010.pdf
6. Wobbleton DC MPD SAMS Press Release.pdf
7. NSA RT Overview 20 Jan 2010.pdf
8. NSA RT NSA Technical Problem Set 11 Nov 2009 .pdf
9. Torres ISAVE Overview 20 Jan 2010.pdf
10. Virtual USA One-Pager 09Dec10.pdf

To all –

On behalf of the ICAHST Chair, Dr. John S. Morgan, I would like to thank all of you who came to the eighth Interagency Council for Applied Homeland Security Technology (ICAHST) Meeting on 20 January hosted by the DHS Federal Emergency Management Agency (FEMA) in their National Exercise Simulation Center (NESC) located at FEMA Headquarters in Washington, DC. In particular, we would like to thank our hosts for their hospitality and support – including Mr. Nelson Torres, Dr. Keith Holtermann, and Mr. Kenneth Wall.

Twenty six council members, alternates, or guests were in attendance from the Department of Justice/National Institute of Justice (DOJ/NIJ); Department of Homeland Security (DHS); the National Reconnaissance Office (NRO); National Security Agency (NSA); Federal Bureau of Investigation (FBI); National Counterterrorism Center (NCTC) of the Office of the Director of National Intelligence (ODNI); the Department of Defense Combating Terrorism Technical Support Office (CTTSO) / Technical Support Working Group (TSWG); the US Navy National Maritime Intelligence Center (NMIC); the Joint Training Counter-Improvised Explosive Device Operations Integration Center (JTCOIC) in Newport News, VA; the DoD Joint Improvised Explosive Device Defeat Organization (JIEDDO); the National Defense University (NDU); and the District of Columbia Metropolitan Police Department. The meeting was held at the UNCLASSIFIED level. For your convenience, I have attached the agenda as well as a listing of the attendees and their contact information.

Meeting Summary

Primary discussions at this meeting included:

- Dr. Morgan briefed his activities in support of predictive policing, including feedback from the recent NIJ Predictive Policing Conference held in Los Angeles and the ICAHST technology pilot with the LAPD *Regional Crime Center*, and other law enforcement partners, using various “best practices” software.
- Mr. Zeller, DHS/S&T, briefed their ICAHST support activities and the new DHS/S&T Innovation Laboratory at the USAF Academy.
- Dr. Morgan briefed the status of the Second Edition ICAHST “Technology Needs” document, which has been sent to the printers.
- Mr. Toomer provided an update on ICAHST Outreach activities and sponsorship of technology investigations including special demonstrations.

- Feedback was provided on the recent ICAHST C-IED Symposium held in Washington and keynoted by the DHS Secretary, Janet Napolitano.
- Dr. O'Hara, NSA, provided a briefing on RF Weapons
- NSA (Research Directorate) briefed on NSA Research Transformation
- Mr. Wobbleton, DC MPD, briefed SAMS, situational awareness technology in use at DC MPD
- Mr. Torres, FEMA, briefed on ISAVE, situational awareness technology used at FEMA
- Dr. Holtermann, FEMA, briefed the National Exercise Simulation Center (NESC)

Meeting Discussions

Dr. Morgan, Mr. Torres, and Mr. Kenneth Wall, Deputy Director of the FEMA Office of National Capital Region Coordination (NCRG), welcomed the ICAHST members to FEMA and this meeting. With many new participants, Dr. Morgan asked the attendees to briefly introduce themselves and their organization. Mr. Wall explained the role of the FEMA National Exercise Simulation Center (NESC): The NESC is a training and exercise facility located within FEMA Headquarters that is part of the Federal Coordination Center (FCC). Mandated by Congress, this state-of-the-art facility brings together various FEMA elements, including the Disaster Operations Directorate, the National Preparedness Directorate, the Office of National Capital Region Coordination, and others, to promote collaboration for planning, training, exercises and response operations.

ICAHST Activities from the Chair

Dr. Morgan briefed his activities in support of predictive policing, including feedback from the recent NIJ Predictive Policing Conference held in Los Angeles and the ICAHST technology pilot with the LAPD *Regional Crime Center*, and other law enforcement partners, using a set of commercially available software platforms determined to represent "best practices" that demonstrate the concept of "Predictive Policing" within the United States. These platforms, currently including Palantir Technologies and Entity Analytic Solutions, will be benchmarked using counterterrorism and other sensitive law enforcement data from the Los Angeles Police Department (LAPD) and other law enforcement partners as part of a national effort to demonstrate the utility of this concept.

"Entity Analytic Solutions" is a software suite developed by the *IBM Corporation* that finds non-obvious relationships and resolves ambiguous identity and attribute information into a single entity across multiple data sets. "Palantir" is a visualization oriented software platform developed by *Palantir Technologies, Inc.* for the Intelligence Community that has received funding from the CIA's venture capital arm, IN-Q-TEL, and combines knowledge management, collaboration, and discovery into a seamless package. Palantir features include data integration, search and discovery, knowledge management, and other collaboration capabilities.

The initial LAPD on-site planning meeting is being scheduled for February 2010.

In addition, Dr. Morgan cited two examples of on-going collaborative efforts in which ICAHST members may be interested:

- The Office of the Secretary of Defense Human, Social, Culture and Behavioral Modeling Research and Development Program is focused on providing DoD and the US Government with the ability to understand and effectively operate in human/social/culture terrains inherent to non-conventional warfare missions. This office is working closely with the "Combating Terrorism Technical Support Office" (CTTSO) "Technical Support Working Group" (TSWG) in this area and there is much interest in a viable requirements determination process across the agencies represented by ICAHST.
- The National Counterterrorism Center (NCTC) of the ODNI, as well as DHS, FBI, and other agencies are interested in a research requirements and priorities process.

Any ICAHST members that may be interested in participating in these efforts should contact me. We will probably constitute a special ICAHST Working Group to address this effort.

Dr. Morgan also briefed the status of the Second Edition ICAHST "Technology Needs" document, which has been sent to the printers. He explained that this new document describes twenty goals or "missions" that we believe should be supported through continuing innovation in science and technology. It includes technology needs from various ICAHST members and other stakeholders, including the Department of Homeland Security; the National Institute of Justice; the National Counterterrorism Center and other elements of the Office of the Director of National Intelligence; the National Security Agency; the National Reconnaissance Office; the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF); the Technical Support Working Group and many others. Dr. Morgan explained that the document has previously been coordinated extensively with ICAHST members. The new "second edition" will contain a foreword by Dr. Morgan as ICAHST Chair, and a letter of transmittal from DHS/S&T. The document has gone to the printers, and should be available soon. It will also be posted on the ICAHST website.

ICAHST Support at DHS/S&T

Mr. Randel L. Zeller, Director, Interagency and First Responder Programs, Science & Technology Directorate, Department of Homeland Security, briefed the recently established DHS/S&T Center of Innovation, located at the United States Air Force Academy, CO. He outlined the capabilities and discussed technology that is being explored, including Cloud Computing.

Mr. Zeller continues to be interested in ICAHST feedback and additional participation in all first responder activities. I have attached the slides used by Mr. Zeller in his presentation.

ICAHST Outreach Status:

Mr. Frank Toomer, the Senior Federal Civil and Homeland Security Coordinator in the Systems Engineering Directorate of the National Reconnaissance Office (NRO) and ICAHST Director of Outreach, updated the members with a number of current outreach activities, including:

- **Commercial Imagery Orientation**

Mr. Toomer has coordinated a number of visits to commercial imagery service providers for ICAHST members and is currently planning several additional visits. He requested that ICAHST members interested in future visits should contact him directly to be included. Mr. Toomer can be reached on 703-808-2328 or frank.toomer@nro.mil

- **"Technologies for Critical Incident Preparedness" (TCIP)**

Mr. Toomer also mentioned the upcoming 11th Annual "Technologies for Critical Incident Preparedness" (TCIP) Conference and Exposition, scheduled for 2-4 February in Philadelphia. This event will highlight DOJ, DHS, and DoD technologies, RDT&E investments, and training tools currently available and being developed for the emergency responder community. It will also provide a forum for emergency responders to discuss best practices and exchange information. TCIP normally has around 1,500 attendees and 150 exhibits and demonstrations, and is considered a premier event, offering a unique opportunity for emergency responders, business and industry, academia, and local, tribal, state, and federal stakeholders to network, exchange ideas, and address common critical incident technology, preparedness, response and recovery needs, protocols, and solutions. ICAHST is a "partner" sponsor for this event.

For more information, see:

<http://www.tcipexpo.com/>

To register, see:

<https://guest.event.com/EVENTS/Register/IdentityConfirmation.aspx?e=1c5c1f26-841d-4ea7-a273-97eef8cc88c7>

I have attached the slides used by Mr. Toomer.

ICAHST C-IED Symposium Feedback

ICAHST recently sponsored the "Counter-IED Symposium and Exhibition," held at the Gaylord National Harbor Convention Center in Washington, DC, 1-3 December 2009.

Working with the Department of Homeland Security (DHS); the Department of Justice (DOJ); the Department of Defense Combating Terrorism Technical Support Office (CTTSO) / Technical Support Working Group (TSWG); the Bureau of Alcohol, Firearms, Tobacco and Explosives (ATF); the Department of Energy (Remote Sensing Laboratory); the US Army National Ground Intelligence Center (NGIC); and the US Intelligence Community, this symposium and exposition provided a unique forum for representatives from federal, state, and local governments, working with the private sector – industry, academia, and laboratories – to address key issues and critical mission needs in support of IED defeat and prevention. This included advancing research and technology to prevent IEDs including human factors and social analysis, as well as collaboration ranging from protection of critical infrastructure including explosives at airports and other public venues, to sharing information with international, coalition, federal, state, and local partners.

The symposium focused on:

- Analysis of the International Threat and Protection of the Homeland
- Research and Technology
- C-IED Training
- First Responders
- Forensics
- Human Factors and Social Analysis

DHS Secretary Janet Napolitano, ATF Director Kenneth Melson, DHS Chief Intelligence Officer Bart Johnson, Congressman Adam Smith, and many others addressed the attendees in plenary sessions.

The presentations given at this Symposium, which are password protected, are now available online, through a link to the ICAHST website:

<http://www.icahest.org>

Two additional events were discussed.

- It was announced that ICAHST is planning to conduct a follow-on C-IED Symposium, in conjunction with the National Reconnaissance Office, at the SECRET or TOP SECRET/SCI level. This event would be held at the NRO.
- The ICAHST Planning Committee for the recently held unclassified C-IED Symposium in Washington is also looking ahead. Preliminary discussions have focused on the possibility of a C-IED Symposium, with both unclassified and classified sessions, addressing maritime and other C-IED concerns, to be held about in the December 2010 / early 2011 timeframe in a major port city such as San Diego.

As plans for these events are firmed up, I will be in touch by email.

RF Weapons Overview

Dr. John O'Hara, NSA, gave an unclassified overview of Radio Frequency Weapons, and touched on the threat posed by this technology. He was very limited in addressing the major threats posed and offered to follow up with interested ICAHST members with a comprehensive classified briefing to be held in the DHS/S&T SCIF on Vermont Avenue in the near future. Interested ICAHST members with security clearances should contact me to be added to the invitation list.

I have attached the slides used by Dr. O'Hara in his briefing.

Demonstration by DC Metropolitan Police Department

Mr. Jeffrey Wobbleton, Director, DC MPD Fusion Center, gave a live demonstration and briefing on *CrimePROBE*, an off-the-shelf product also known as *Situational Awareness Management System* (SAMS). They have found this product to be very useful in managing the incidents and events surrounding the 56th Presidential Inauguration of President Obama. According to the developer, TransGlobal, "*SAMS provides users with real-time control view of calls for service (up to an hour old or any defined timeframe) to simplify the sharing of crime fighting and other valuable 'rich situational awareness' artifacts (voice, video, data and maps) from the field or crime scene theater to the joint operations command center and other approved stakeholder agencies.*" Mr. Wobbleton explained that SAMS capabilities include real time dissemination of maps, photos, and streaming video, allowing users to quickly and efficiently record various observations.

Mr. Wobbleton emphasized how pleased DC MPD is with this product. He believes they are the only police department to be using it.

I have attached the official press release provided by DC MPD on this tool.

NSA Research Transformation

A senior computer systems researcher from the NSA Research Directorate gave an overview of NSA Technology Scouting, within the NSA Research Transformation Office, expounding upon the information briefed by Mr. John Hochstetler at our meeting in October 2009. It was explained that Technology Scouting at NSA contained three focus areas:

1. Technology Identification
2. Technology Evaluation
3. Technology Outreach

He also briefed the recently approved, unclassified NSA "Technical Problem Set." This document cites the top 10 overall technical research areas of concern to NSA as well as a more detailed listing of requirements in the following areas:

- Applications and Analytics
- Digital Identity and Security
- Communications and Infrastructure

I have attached the slides used as well as a copy of the latest version of the NSA Problem Set.

The Integrated Situational Awareness Visualization Environment (ISAVE)

Mr. Nelson Torres gave a briefing and demonstration of ISAVE, which provides situational awareness through the use of a touch assisted visualization system. ISAVE provides a dynamic "user defined, mission specific operating picture" (UDOP) for the FEMA National Capital Region Coordination (NCRG) by combining GIS technology with a wide variety of disparate federal, state, local, regional, and private sector data.

I have attached additional details on ISAVE.

Virtual USA

Several ICAHST members have requested additional information on a new DHS/S&T initiative known as "Virtual USA." "Virtual USA" (vUSA) is a DHS/S&T/CID "end-user driven and federally supported initiative focusing on cross-jurisdictional information sharing and collaboration among the homeland security and emergency management community." The DHS/S&T Project Manager is Marc Caplan and Marc is planning to demo vUSA at the next ICAHST quarterly meeting. According to Mr. Caplan, vUSA is a technical system as well as operational guidelines to share incident response information by using existing systems and geospatial platforms, working in partnership with local, state, tribal and federal officials as well as the vendor

community. vUSA will provide first responder stakeholders with the capability to access critical information and display that information as needed to improve situational awareness.

I have attached a one-page description from DHS with further information on vUSA. For additional information, see:

<http://www.firstresponder.gov/Pages/VirtualUSA.aspx>

Next Meeting

It was announced that we are planning to have the next quarterly Council meeting in the late April / May timeframe at National Geospatial-Intelligence Agency (NGA) facilities including the SKOPE Cell. The SKOPE Cell is a joint intelligence analytic cell with NGA, SOCOM, and the U.S. Strategic Command (STRATCOM). The SKOPE cell applies all-source, multi-intelligence analysis and is located in Washington, DC. I will be in touch by email as planning for this meeting is finalized.

We anticipate that future Council meetings will continue to occur on a quarterly basis, with the various working groups and committees meeting as frequently as required. I will be in touch by email with specific details on the January meeting.

The ICAHST constitutes a Council of *Coalition Stakeholders* and is the primary guidance mechanism for this homeland security/counterterrorism activity. It is very important to have your participation and input and your contributions are greatly appreciated.

Warm regards,

Fredrick Thomas Martin
Executive Director
Interagency Council for Applied Homeland Security Technology