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To: ICAHST Council Members (icahst@topsecret.net.com)
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Subject: Feedback from 9 August 2011 ICAHST Quarterly Meeting

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Attachments:

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2. Participant List 9 August 2011.pdf
3. Cavileer ICAHST Future Priorities 9 August 2011.pdf
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To all –

On behalf of the ICAHST Chair, Mr. Douglas R. Cavileer, I would like to thank all of you who came to the quarterly *Interagency Council for Applied Homeland Security Technology* (ICAHST) Meeting on 9 August hosted by the MITRE Corporation Homeland Security Systems Engineering and Development Institute (HS SEDI), a Department of Homeland Security sponsored Federally Funded Research and Development Center (FFRDC), and held at their McLean, VA campus. In particular, we would like to thank our hosts for their hospitality and support – including Mr. Edward E. Goodnight, Mr. Jeffrey I. Sands, and Ms. Nancy T. Foley.

Thirty four council members, alternates, or guests participated from the Department of Defense Combating Terrorism Technical Support Office (CTTSO); the Department of Homeland Security (DHS), including S&T, OIA, OIP, FEMA and the NOC; the US Army Special Operations Command at Fort Bragg (USASOC); the Central Intelligence Agency (CIA); the National Security Agency (NSA); the National Reconnaissance Office (NRO); the Bureau of Alcohol, Firearms, Tobacco and Explosives (ATF); the United States Geological Survey (USGS); the US Geospatial Intelligence Foundation (USGIF); the US Forest Service; the *Capital Wireless Information Net* (CapWIN); and the State of Virginia Fusion Center as well as adjunct representatives from the MITRE Corporation. The meeting was held at the UNCLASSIFIED level.

For your convenience, I have attached the final agenda as well as a listing of the participants and their contact information.

Meeting Summary

Mr. Cavileer formally assumed the ICAHST chairmanship from Mr. Bart R. Johnson, the Principal Deputy Under Secretary for Intelligence and Analysis, Department of Homeland Security, and described a set of priorities and his specific focus areas for ICAHST. In addition, discussions included a status report and feedback to the Council from the GEOINT Working Group as well as feedback on various outreach activities. Discussions also included the recent ICAHST Technology Visit to the Naval Postgraduate School, the San Francisco Police Department and the Northern California Regional Intelligence Center (NCRIC).

Special briefings included:

- DHS/S&T Activities in Western Region
- iConnex Analytical Tool
 - An analytical tool used by the TSA Federal Air Marshal Service that illuminates the connections across vast amounts of law enforcement and intelligence data, speeding the time to isolate and analyze correlations in data.
- Civil Applications Committee (CAC) Overview

- The CAC coordinates and assists civil Federal use of classified information, including environmental and remote sensing applications central to civil Federal agency missions

Meeting Discussions

Chairman Douglas Cavileer welcomed the attendees and asked them to briefly introduce themselves and their organization. Mr. Sands also welcomed ICAHST attendees to MITRE on behalf of Mr. Goodnight and explained the role of the HS SEDI and its support to the Department of Homeland Security.

ICAHST Future Priorities

Chairman Cavileer presented his vision of the future priorities for ICAHST stating that he felt DOD/CTTSO was a great fit for ICAHST and reiterating that he is deeply committed to working with other Federal, State, local and tribal partners to enhance homeland security, counterterrorism, and law enforcement support.

He described a number of future ICAHST areas of emphasis, including:

- Strengthening partnerships and collaboration activities
 - He cited reaching out to Federal Civil Agencies in cooperation with the *U.S. Geological Survey* and the *Civil Applications Committee (USGS/CAC)* and collaboration with USASOC as examples
- Build geospatial intelligence component within ICAHST
 - Example: Recently established ICAHST GEOINT Working Group
- Continue ICAHST outreach activities
 - Examples: Visits to Major City Chiefs of Police and participation in major conferences
- Maintain ICAHST Research Agenda and publish the 3rd Edition of *ICAHST Research/Technology Needs*
- Support law enforcement terrorist investigations and operations
 - Predictive analytics
 - Use of advanced analytics including social network analysis to illuminate illicit networks and illicit network supply chains
 - Forensic intelligence
 - Use of forensic tools and improvements in forensics (including CCTV and tracking software) to link adversaries and map terrorist enterprises
 - Identity superiority
 - Use of biometrics in new and unique approaches, populating data bases to allow terrorist identification
 - Networking
 - Increased and rapid sharing of data with appropriate controls, standards, protocols and procedures
 - Intelligence, Surveillance and Reconnaissance (ISR) support
 - Adapt Defense technologies for low cost solutions in support of Law Enforcement objectives

Mr. Cavileer noted that ICAHST has a working group for Predictive Analytics and would consider additional working groups for the other focus areas. He requested feedback from the membership on these focus areas to include other suggestions. He stressed that this Council is a product of its members and he would like to receive comments from the membership on these plans. Please forward your comments to me for consolidation as soon as possible – this is an excellent opportunity to impact the future direction of ICAHST.

I have attached the slides used by Mr. Cavileer in his presentation.

ICAHST Working Group Status:

Outreach Activities

Mr. Frank Toomer, ICAHST Outreach Director, and Senior Federal, Civil, and Homeland Security Coordinator, Systems Engineering Office, NRO, presented an update on current outreach activities, including membership activity.

He reported several new ICAHST member organizations, including:

- National Fusion Center Association
- Northern California Regional Intelligence Center (NCRIC)
- US Geological Survey (USGS) and the USGS Civil Applications Committee (CAC)

He also welcomed Sarah Becker, from the Central Intelligence Agency (Crime and Narcotics Center) as a new attendee and encouraged their participation in all activities.

Mr. Toomer also explained the background of the NRO Law Enforcement / Homeland Security Technology Exchange Working Group (TEWG), including the close working relationship with ICAHST, and introduced their members. The TEWG is sponsored by the NRO *Integrated Support* Office and the *Office of the Chief Engineer* and is an informal, technology oriented, needs identification forum that strives to advance information sharing and collaboration; operational support; and technology development and acquisition support. The next TEWG (which meets monthly on the third Thursday) meeting is scheduled for 15 September at 1:00pm at the NRO. All cleared ICAHST members are encouraged to attend.

Mr. Toomer concluded with an announcement for the third annual ICAHST/NRO Law Enforcement Conference, which will be held at the NRO on 6-8 December 2011. The theme this year is: Vigilance Through Integrated Intelligence, Technology and Collaboration. He stressed that ICAHST member support and input for this event are welcome.

I have attached the slides used by Mr. Toomer.

GEOINT Working Group

Mr. Jordan Fuhr, on behalf of working group chair Keith J. Masback, presented feedback on the initial meeting of this group. The purpose of this working group is to explore the roles and responsibilities of ICAHST members and USGIF members in order to build a mutually beneficial geospatial component to ICAHST. Discussions at this initial meeting included a session on "GEOINT 101" – basics of geospatial intelligence – by Mr. Masback as well as a technical capabilities presentation by GEOEYE. It also included a discussion of the direction of this group and a spirited discussion on how we can optimize our collaboration activities.

Mr. Fuhr stated that the GEOINT Working Group was off to a good start with 25 people signing up and over 15 actually showing up. This included DHS attendees including the Science and Technology Directorate (S&T), the Office of Infrastructure Protection (OIP), Customs and Border Patrol (CBP), and the Office of Intelligence and Analysis (I&A). In addition, there were representatives from the Intelligence agencies; the US Army Special Operations Command from Fort Bragg; and the VA Fusion Center.

The primary takeaway (which was unanimous) was that the various agencies and especially State/Local first responders need to know that useable imagery is available and how to get it. The group agreed to meet monthly on the second Wednesday of each month in order to reach consensus on the development of a requirements concept of operations.

Technology Working Group

The undersigned provided feedback on the recent ICAHST Technology Visit to the Naval Postgraduate School, the San Francisco Police Department and the Northern California Regional Intelligence Center (NCRIC). This was a special technology investigation visit to the San Francisco area during the period 18-21 July 2011. Participants included Mr. Douglas Cavileer, Deputy Director for Operations, Department of Defense "Combating Terrorism Technical Support Office" (CTTSO); and the new Chairman, ICAHST; Dr. John S. Morgan, Senior Science Advisor, US Army Special Operations Command and former Deputy Director, Science and Technology, US Department of Justice, and Chairman Emeritus, ICAHST; Mr. Randel L. Zeller, Director,

Interagency Programs, Science and Technology Directorate, US Department of Homeland Security; Ms. Linda H. Vasta, Senior Advisor, Western Regions, Interagency Programs, Science and Technology Directorate, US Department of Homeland Security; Mr. Milton Nenneman, Manager, First Responder Coordination West, Science and Technology Directorate, US Department of Homeland Security; and myself.

The purpose of this visit was to discuss ICAHST and collaborative technology issues, including public safety, predictive policing, information sharing and other technologies of interest, with the Naval Postgraduate School in Monterey, CA; the San Francisco Police Department (SFPD), and the *Northern California Regional Intelligence Center* (NCRIC). San Francisco was the 7th ICAHST visit to a major city police department, following Boston, Miami/Dade, DC, Las Vegas, Mesa/Phoenix and Los Angeles.

At the Naval Postgraduate School (NPS) in Monterey, the ICAHST participants met with senior NPS personnel including Dr. Charles Kimsey, Director of the NPS *National Security Institute*, Dr. Raymond Buettner, Jr., and COL Greg Wilson, Co-Director of the NPS Common Operational Research Environment (CORE) Laboratory. The group also visited the Center for Interdisciplinary Remotely Piloted Aircraft Studies (CIRPAS) in Marina, CA. At the San Francisco Police Department (SFPD), the group met with Deputy Chief James I. Dudley, the head of the SFPD Special Operations Bureau and *Homeland Security Unit*, and Ms. Susan Griffin, the new SFPD Chief Information Officer. The visit to the NCRIC included discussions with Michael Sena, the Deputy Director of NCRIC, and Federal Bureau of Investigation (FBI) Supervisory Special Agent Patrick M. Kern.

As a result of this special ICAHST session, US Army Special Operations Command personnel have forged a new collaborative relationship with DHS/S&T, and DOD/CTTSO including enhanced future partnerships, research efforts, and possible funding. As a direct result of this trip the US Army will fund a short term requirement for the NPS CORE Laboratory as part of Project LIGHTHOUSE, an effort to integrate commercial social networking technology to support advanced analytical methodologies for the US Marine Corps and the US Army Special Operations community.

Future activities of this working group include the annual technology investigation trip to include participation in the annual Consumer Electronics Show (CES) in Las Vegas in January as well as other technology investigation trips. All ICAHST members are invited and encouraged to participate.

Other Activities

TCIP 2011 Conference and Exposition

The undersigned gave an update on several other ICAHST activities, including the 12th Annual “*Technologies for Critical Incident Preparedness*” Conference and Exposition (TCIP 2011), for which ICAHST is a partner for the second consecutive year. This important conference, which is presented by the Department of Defense, the Department of Justice, and the Department of Homeland Security, will be held at the Gaylord National Convention Center, National Harbor, Maryland, August 30 – September 1, 2011. All ICAHST members are encouraged to attend.

The theme of the conference this year is “Advancing Technology – Learning from the past, preparing for the future.” The event will highlight technologies, research investments and training tools available and under development for first responders. More than 1,200 first responders and technology experts from government, industry, academia and state and local associations are expected to attend. This is an invaluable opportunity to network and exchange ideas as well as to examine critical incident technology and solutions.

Agenda:

The specific agenda and keynote speakers for this year are under development, and I will keep you posted. However, topics are expected to include:

- Addressing the Active Shooter Threat
- Virtual USA

- Communications Interoperability
- Information Sharing and Intelligence Dissemination
- Open Source Resources
- Deepwater Horizon Oil Spill
- Infrastructure Protection
- Mutual Aid and Regional Partnerships
- Mass Casualty Incidents
- Alerts and Warning Technologies including Social Media
- Personal Location and Physiological Monitoring Technologies
- Cyber Security/Cyber Forensics
- Federal Resources

I have attached the latest information flyer on this event.

GEOINT 2011 Symposium

The GEOINT Symposium is the nation's largest intelligence event of the year and is considered by many to be the preeminent event of the year for the defense, intelligence and homeland security communities. (More than 4000 folks attended last year.)

This year, confirmed speakers include several congressmen and Keith B. Alexander, US Cyber Command and Director, NSA; Bruce Carlson, Director, NRO; James R. Clapper Jr., Director of National Intelligence; General Douglas Fraser, Air Force, Commander, Southern Command (SOUTHCOM); General C. Robert "Bob" Kehler, Air Force, Commander, Strategic Command (STRATCOM); Letitia A. Long, Director, NGA; and Admiral James A. "Sandy" Winnefeld Jr., Commander, North American Aerospace Defense Command (NORAD) and Commander, United States Northern Command (NORTHCOM).

As part of this event, ICAHST is having a special breakout panel during the event.

Additional information on *GEOINT 2011* can be found here:

<http://geoint2011.com/>

I will keep you posted on additional details.

Third Annual C-IED Symposium

ICAHST remains interested in supporting the DHS/Office for Bombing Prevention (OBP), DHS/S&T, and other relevant agencies in this effort. Mr. Jeffrey David, DOE Remote Sensing Laboratory, and Dr. Patricia Burt, DHS/OBP, are working on this event and were unable to attend to provide an activity update.

Special Briefings:

DHS/S&T Activities in Western Region

Ms. Linda H. Vasta, Senior Advisor, Western Regions, Interagency Programs, Science and Technology Directorate, US Department of Homeland Security provided ICAHST members with an update on activities in the Western Region, including additional feedback on the recent technology trip to California.

She described the close working relationship that exists between DHS/S&T and the Naval Postgraduate School (NPS), including a Memorandum of Agreement (MOA). Her region works closely with Dr. Charles Kimsey, Director of the NPS *National Security Institute*. One mechanism used in her first responder collaboration activities is the *California Homeland Security Consortium* (CHSC), consisting of first responder units from the police, sheriff, and fire departments in the Monterey Bay geographical area. The objective of the CHSC is to develop a national resource hub that will promote national security programs, conduct research on critical homeland security issues, and assist in the planning and execution in the prevention or mitigation of homeland security incidents. CHSC focus areas include:

- Research
- Education
- Industry

It is hoped that the CHSC model and lesson learned will be applicable to other regions of the nation.

iConnex Analytical Tool

Mr. Stephen Knox, Program Manager, DHS/S&T, provided an overview and a demonstration of iConnex, an analytical tool that he described as his most successful project. Used by the TSA Federal Air Marshal Service, iConnex is an automatic display of the various connections across vast amounts of law enforcement and intelligence data, which in turn facilitates the isolation and analysis of various correlations in data.

The iConnex system – designed by law enforcement investigators – is a set of analytical tools that enhance the ability of investigators to search, find, explore, link and understand relationships within *Suspicious Activity Reports* (SAR), and other law enforcement structured and unstructured data. Capabilities of iConnex include the ability to:

- Find closely matching suspects, vehicles and addresses across multiple data sources
- Explore matching results from different perspectives
- Control or vary the “fuzziness” of nebulous matches across data
- Provide geospatial visualization of the results

Mr. Knox explained that iConnex was developed for operational use by the Federal Air Marshal Service and is available to any DHS component or law enforcement agency as a Government Open Source solution. iConnex was recently awarded the TSA Technology Innovation Award, and became the first DHS program to be nominated for the Integrated Justice Information Sharing (IJIS) Institute Innovation Award.

I have attached an information flyer with additional detail on iConnex from Mr. Knox.

Civil Applications Committee (CAC) Overview

Ms. Susan Price, Civil Applications Committee, US Geological Survey, presented a detailed overview of the history and current operations of the CAC, a Federal Interagency Committee chartered in 1975 to coordinate and assist civil Federal Agency use of classified imagery and other information, including environmental and remote sensing applications that are central to civil federal agency missions. Current CAC members include:

- Army Corps of Engineers (USACE)
- Department of Agriculture (USDA)
- Department of Commerce (DOC)
- Department of Health & Human Services (HHS)
- Department of Homeland Security (DHS)
- Department of the Interior (DOI)
- Department of Transportation (DOT)
- Environmental Protection Agency (EPA)
- Federal Emergency Management Agency (FEMA)
- National Aeronautics & Space Administration (NASA)
- National Science Foundation (NSF)
- US Coast Guard (USCG)

The responsibilities and activities of the CAC include:

- Oversight for civil National Technical Means (NTM) source collection and management
- Maintains proper relationships among the Civil Community (CC), Defense Community (DC), and Intelligence Community (IC)
- Supports national natural disaster response
- Coordinates federal civil community access to NGA acquired commercial imagery
- Oversees the annual Proper Use Memorandum (PUM) process

- Oversees the *Global Fiducials Program*
- Promotes and manages the civil community use of NTM Imagery and *Imagery Derived Products* (IDPs)
- Provides Monthly Inter-Community Forum for Technology and Information Exchange
- Coordinates CC Training

ICAHST is working closely with the USGS/CAC to explore mutually beneficial collaboration activities as part of an effort to strengthen our partnership with the Federal Civil Community.

Next Meeting

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. We anticipate the next meeting to be in the November timeframe, possibly returning to the previous tradition of having the meetings hosted by and held at various member agencies. Several members have expressed interest in hosting these meetings, which provide attendees with the opportunity to visit the hosting agency. Suggestions for future meeting locations are always welcome – I will be in touch by email with specific details on the next 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

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