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MEMORANDUM FOR RECORD

SUBJECT: Defense Innovation Board (DIB) Closed Meeting Summary – October 17-21, 2016

ATTENDEES:

Members

Dr. Eric Schmidt, Chair
Mr. Danny Hillis
Dr. Eric Lander
Dr. J. Michael McQuade
Dr. Richard Murray
Mr. Milo Medin
Ms. Jennifer Pahlka

Staff

Mr. Joshua Marcuse, Executive Director
Mr. Michael Gable, Alternate Designated Federal Officer
Mr. Nicolas Lopez

PLACE: The Pentagon

PURPOSE: All meetings in the closed sessions on October 17-21, 2016 contained classified material and, therefore, were closed to the public. Summaries of each day's activities are below.

On October 17, 2016 the DIB visited United States Naval Forces Central Command (NAVCENT) and United States Fifth Fleet (5th Fleet) and met with VADM Kevin Donegan, Commander, CAPT Richard Brawley, Chief of Staff, CAPT Timothy Maricle, Director of Future Operations, CAPT George Wikoff, Maritime Operations Center Director, and Mr. Jed Snyder, Naval Analyst. Discussions focused on NAVCENT and 5th Fleet's mission objectives, current challenges and opportunities for innovation and advanced technology adoption, global force management across the NAVCENT and 5th Fleet area of responsibility and adjacent Combatant Commands, integrated and interoperable communications and control systems, and non-kinetic mechanisms to counter unmanned aerial vehicles (UAVs) for force protection. The DIB also visited USS DEXTROUS (MCM-13). Discussions focused on mission and responsibilities, enhancing detection capabilities, sonar data collection and analysis.

On October 18, 2016 the DIB visited USS DWIGHT D. EISENHOWER (CVN 69) and met with RADM James Malloy, Commander, Carrier Strike Group 10 and CAPT Paul Spedero, Commanding Officer. Discussions focused on mission objectives and contributions to Operation Inherent Resolve, innovation challenges and opportunities afloat, leveraging advanced technology and automation, and counter UAV challenges and other potential threats at sea. The DIB concluded their day with an administrative session to discuss future research plans.

On October 19, 2016 the DIB visited Bagram Airfield Afghanistan and met with Col Rebecca Sonkiss, Vice Commander, 455th Air Expeditionary Wing. Discussions focused on expeditionary and aeromedical evacuation operations, air-to-ground networks and communications systems, improving technology interoperability to meet mission objectives, and enhancing data collection,

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integration, and analysis. In addition, the DIB visited U.S. Forces-Afghanistan (USFORA), National Support Element and met with MG John Thomson, Commander, Bagram Airfield. Discussions focused on USFORA's train, advise, and assist and counterterrorism missions, challenges and opportunities for innovation in a battlefield environment, improving operator-developer cooperation and fielding new capabilities, compute capacity and data processing, and leveraging advanced technologies to enhance base security, including surveillance assets to defend against persistent mortar attacks.

On October 20, 2016 the DIB visited U.S. Air Forces Central Command (AFCENT) and met with Maj Gen Jay Silveria, Deputy Commander, AFCENT. Discussions focused on mission objectives and current air operations, establishing persistent airborne command and control, data fusion and knowledge management systems, advanced technologies like artificial intelligence and machine learning and their impact on air operations, and increasing rapid experimentation and building a culture of innovation. The DIB also toured the Combined Air Operations Center and observed the tanker refueling planning system. In addition, the DIB visited Special Operations Command Central (SOCCENT). Discussions focused on mission objectives, acquisition authorities within the special operations community, organizing and querying data from disparate networks at different classification levels, and leveraging advanced technology to enhance operations in internet-denied or other limited communications environments.

On October 21, 2016 the DIB visited U.S. Army Central (ARCENT) and Coalition Forces Land Component Command (CFLCC) and met with MG William Hickman, Deputy Commander, ARCENT. Discussion focused on current mission requirements and ARCENT's innovation agenda, building a cyber workforce and reforming organizational practices, coalition interoperability and communications systems compatibility, and harnessing advanced technology to shape the operational environment. The DIB also toured one of the Army's stockpile warehouses to review equipment and capabilities used for contingency operations. In addition, the DIB met with the Chief of Staff, Combined Joint Task Force - Operation Inherent Resolve (CJTF-OIR) at Camp Arifjan. Discussions focused on information sharing platforms, distributed mission command and control, common operating pictures and communications interoperability with coalition partners, and leveraging big data analytics to enhance intelligence capabilities and operational planning. The DIB concluded their day and the trip with an administrative session to discuss future research plans.



Joshua J. Marcuse
Executive Director, Defense Innovation Board