The National Academies of
SCIENCES · ENGINEERING · MEDICINE

DIVISION OF BEHAVIORAL AND SOCIAL SCIENCES AND EDUCATION
Board on Behavioral, Cognitive, and Sensory Sciences

A Decadal Survey of the Social and Behavioral Sciences:
A Research Agenda for Advancing Intelligence Analysis

Report Launch Event
September 30, 2019
Keck Center, Room 100
500 Fifth Street NW, Washington, DC

9:00 a.m.   **WELCOME AND OVERVIEW OF EVENT**
Paul Sackett, Committee Chair, University of Minnesota

9:10 a.m.   **CONTEXT FOR THE DISCUSSION**
Sujeeta Bhatt, Study Director

BUILDING UPON THE RESEARCH AGENDA

9:20 a.m.   **OPPORTUNITY: SENSEMAKING**

The social and behavioral sciences (SBS) have always provided needed insight on human behaviors for the development of programs, policies, and technologies. With new sources of data and improved research tools and methods, SBS insight is increasingly available for complicated behaviors and systems of people. This panel discussion will focus on the research opportunities and challenges to improve sensemaking.

Sallie Keller, Committee Member, University of Virginia
Susan T. Fiske, Princeton University, BBCSS Chair
David W. Montgomery, Minerva Research Initiative, Department of Defense

9:50 a.m.   **OPPORTUNITY: SOCIAL CYBERSECURITY**

The emergence of new threats in cyberspace is a profound challenge for the IC that will grow in scale and urgency in the coming decade. Integrating insights about constantly evolving technology with understandings of human phenomena and behavior is ever more necessary. The developing field of social cybersecurity draws on many SBS disciplines to understand cyber-mediated changes in human behavior and in social, cultural, and political outcomes. This panel discussion will focus on the opportunities and challenges to advancing research in this new transdisciplinary field.

Kathleen M. Carley, Committee Member, Carnegie Mellon University
Nitin Agarwal, University of Arkansas at Little Rock
Steve J. Breckler, National Science Foundation

10:20 a.m. **OPPORTUNITY: HUMAN-MACHINE ECOSYSTEM**

Technological advances are creating complex work environments with new types of teams – those with artificial intelligence as viable teammates and novel forms of information collection and analysis. SBS research is just starting to examine the interactions between humans and machines in these complex work environments. A number of conditions should be tested in order to make human-machine teaming useful for intelligence analysis (e.g., interruptions, new forms of data visualization, trust between humans and machines, balancing human strengths and machine strengths, and ethical considerations of data access, authorities, and accountability.) This panel discussion will focus on the opportunities and challenges of incorporating SBS research into the design of an ecosystem of human-machine teams.

> Noshir S. Contractor, Committee Member, Northwestern University
> Mica R. Endsley, SA Technologies
> Steve Rieber, Intelligence Advanced Research Projects Activity

10:50 a.m. **QUESTIONS AND PUBLIC COMMENT**

11:15 a.m. **BREAK**

OPPORTUNITIES FOR COMMUNITY COLLABORATION

11:25 a.m. **BUILDING BRIDGES BETWEEN THE INTELLIGENCE AND SBS RESEARCH COMMUNITIES**

The nature of work is changing, both in the IC and in research communities. This is due to evolving threats to national security as well as advances in data collection and analysis and artificial intelligence. The research needed to understand these changes is increasingly interdisciplinary. The research questions, and ultimate improvements, offered by the opportunities above place new demands on the workforce both in the IC and in the SBS research community and new considerations for collaboration between the two communities. This panel discussion will focus on the opportunities and challenges for collaboratively moving needed research forward in the next ten years.

> Paul Sackett, Committee Chair, University of Minnesota
> Reeshad Dalal, George Mason University
> Joy Rohde, Committee Member, University of Michigan
> George A. Gerliczy, Center for Strategic Programs, Central Intelligence Agency

12:15 p.m. **QUESTIONS AND PUBLIC COMMENT**

12:45 p.m. **CLOSING REMARKS**
Valerie Reyna, Cornell University

1:00 p.m.   ADJOURN