

NITRD LEADS IT



October 2017

A Quarterly Newsletter for the Networking and Information Technology Research and Development Program

NITRD Spotlight

FY2018 NITRD Supplement to the President's Budget

The NITRD supplement to the President's 2018 Budget Request to Congress is in final review, with public release expected later this month. It describes the activities planned for FY2018 by the Federal agencies participating in the NITRD Program, primarily from a programmatic and budgetary perspective. This Supplement identifies the expected societal benefits, strategic priorities, key programs, and planning and coordination activities. This year's annual NITRD Supplement includes changes and updates to the Program Component Areas. Upon release, the Supplement can be viewed [here](#).

A New Home for the NITRD National Coordination Office

The NITRD National Coordination Office will move into its new space, located at 490 L'Enfant Plaza SW, Suite 8001, Washington, DC, on Monday, October 23, 2017. The move comes after the National Science Foundation's relocation to its new building in Alexandria, Virginia.

Presentations Library

The NITRD Presentations Library, released on October, 16, 2017 is a collection of presentations, reports, and webinars (dating back to November 1996 up to the present; currently at 543 entries) given by a broad range of presenters from academia, government, and private sectors at various NITRD Interagency Working Group meetings, workshops, and public events. View the [Presentation Library](#).

Disclaimer: *The views and opinions expressed in those materials are those of the authors and do not necessarily reflect the official policy or position of any agency of the U.S. government.*



Straight from the Director's Corner

**Dr. Bryan Biegel, NCO Director
and Co-chair, NITRD
Subcommittee**

When we work together on shared challenges, we accomplish more than if we work separately.

I have seen that again and again through NITRD activities, such as when NITRD agencies collaborate to produce a technical area strategic plan or framework, conduct a workshop, or support cooperative research. A dedicated team from many agencies bring the diversity of missions, viewpoints, and expertise to achieve a lasting impact.

Many of the biggest challenges that NITRD agencies now face in advancing IT span multiple disciplines.

- The NITRD High End Computing (HEC) and Software Productivity, Sustainability, and Quality (SPSQ) IWGs are exploring collaboration opportunities on HPC application software productivity.
- NITRD's Health IT R&D (HITRD) IWG is initiating collaborations that will yield strategies and technologies for improved health outcomes, requiring R&D that often cuts across health IT, big data, software, cybersecurity, privacy, cyber-physical systems, and robotics.
- The Smart Cities and Communities (SCC) Task Force, part of the Cyber Physical Systems (CPS) IWG, has drafted a strategic R&D plan that envisions integrating advances from all of the above disciplines, as well as networking, artificial intelligence, and more.

These are just a few examples of how NITRD agencies are bringing experts together from across domains to solve shared, multi-disciplinary challenges and usher in innovations that will advance national security, economic growth, job creation, and other national priorities.

As always, don't hesitate to contact us at:
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Recent NITRD Events

NITRD facilitates U.S. leadership in networking and IT R&D through coordination activities that bring together experts from the public and private sectors.

The following events were supported by NITRD.

Software Defined Networking Workshop

The Large Scale Networking IWG hosted a workshop on September 18-20, 2017, "*Operationalizing SDN.*" The NSF-funded workshop facilitated constructive dialogue among different SDN stakeholders on the realization of an open, innovative, multi-domain and inter-operable SDN as an operational infrastructure. The workshop featured 2 keynote speakers. Guru Parulkar, Executive Director, Clean Slate Program, and Consulting Professor of Electrical Engineering at Stanford University, presented on "Internet Ossification to Open Source SDN & Democratization of Innovation." Jonathan M. Smith, Computer Science Professor at the University of Pennsylvania also presented a talk, entitled: "Active Networking, SDN and Futures." Download the [LSN SDN Workshop presentations](#).

Open Knowledge Networks Workshop

The Big Data IWG hosted the 3rd Workshop on [Open Knowledge Network: Enabling the Community to Build the Network](#) on October 4-5, 2017 at NIH in Bethesda, MD. The OKN will enable multi-domain question answering through accessibility of online knowledge sources. The workshop examined current OKN-related projects at Federal agencies, how those projects can support private sector efforts, and next steps for creating the OKN. The Workshop focused on particular domains, and how to enable an open contributing community.

NITRD Gets a Google Alert

On July 14, 2017, [Health Data Management](#) posted an article noting the NITRD Health IT R&D IWG Strategic Framework and acknowledging the importance of the ongoing evolution of health IT as viewed by the government. Download the full Draft [Federal Health Information Technology Research and Development Strategic Framework](#).

More to Come

The following events and reports are expected in the upcoming months.

2nd Frontiers of Visualization Virtual Workshop – The HCI&IM Group will hold its 2nd Frontiers of Visualization Workshop on October 18, 2017. The workshop will be held virtually, and will focus on 1) identifying the common components used to develop useful visualizations including locating the data, accessing the data, and finding scalable tools and infrastructures; and 2) exploring unique methodologies and tools that may be transferable across domains. [Download more...](#)

Supercomputing 2017 – The High End Computing and Big Data IWGs are hosting a panel on November 15, 2017 at SC'17, *Blurring the Lines: High-End Computing and Data Science*. Increasing on-demand and real-time data-intensive computing are pushing the boundaries of computing and resulting in a convergence of traditional HEC and newer cloud computing environments. This panel will highlight and explore challenges and opportunities at the intersection of HEC and data science. Learn more about the [HEC panel](#).

Wireless Spectrum R&D IWG Workshop 9 Report - The WSRD IWG's workshop 9 report, *Radio Receivers: R&D Innovation Needs, and Impacts on Technology and Policy* is being drafted from its workshop held in May 2017. The report will be released October 2017. For information on the workshop and report, see [WSRD Workshop IX](#).

Smart Cities and Communities Federal Strategic Plan – The SCC Task Force incorporated public input as appropriate. The final report is in review. Read the draft [Strategic Plan](#).

Check out the NITRD NCO YouTube videos from workshops, presentations, and meetings!
<https://www.youtube.com/user/TheNCONITRD>

The NITRD Program was established by the [High-Performance Computing \(HPC\) Act of 1991](#) with the overall objective of ensuring the United States' leadership in advanced computing. The NITRD Program is the Nation's coordinator of federally funded work on advanced information technology (IT).

Now in its 26th year, the NITRD Program consists of over 20 Federal member agencies and over 40 participating agencies, and is one of the oldest and largest of the formal Federal programs that engage in multi-agency coordination activities. The multi-agency NITRD Program seeks to provide the research and development (R&D) foundations for assuring continued U.S. technological leadership and meeting the needs of the Federal Government for advanced IT.

The NITRD Program also seeks to accelerate development and deployment of advanced IT in order to maintain world leadership in science and engineering, enhance national defense and homeland security, improve US productivity and competitiveness, protect the environment, and improve the health, education and quality of life for all Americans.



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