National Spectrum Consortium

Delivering Innovation

2025 Impact Report

Dear NSC Members,

The National Spectrum Consortium (NSC) had an outstanding year in 2025, working with members to advance wireless research, drive innovation, and promote technologies that are critical to our national security and economic growth. Through our OTA agreement with the government, **we awarded $170.5 million in project contracts,** working with agencies including the Naval Research Laboratory, Test Resource Management Center, FutureG office, Office of the CIO, and Naval Information Warfare Systems Command.

We created numerous opportunities for engagement with government officials, including through working groups, multi-stakeholder meetings, industry days, and conference participation.

We proudly welcomed **53 new member organizations** to our growing community and highlighted the work of our members through news announcements, social media, and case studies.

As we look ahead, we see new opportunities to expand our impact in 2026. NSC is working closely with the FutureG office on Integrated Sensing and Communications (ISAC) as well as the soon-to-be-launched OCUDU Ecosystem Foundation. You will find us at Apex Defense and Mobile World Congress early in the year, with more events to come. And we are happy to be kicking off a new partnership with the Nuclear Command, Control, and Communications (NC3) Tech Accelerator, starting with an industry day in early February.

We are grateful for the continued partnership and ingenuity of our members and look forward to another year of success at the intersection of spectrum and wireless network innovation.

Joe Kochan, CEO, National Spectrum Consortium

2025 SOLICITATIONS

*In 2025, we **awarded $170.5 M** to member companies through NSC's OTA agreement.*

Project Value	Project	Status
$26,300,396	Advanced Dynamic Spectrum Sharing Demonstration (ADSSD) Awardee: Nokia Federal Solutions	Awarded 12/10/2025
$11,908,622.84	Advanced Dynamic Spectrum Sharing Demonstration (ADSSD) Awardee: RTX BBN Technologies, Inc.	Awarded 12/03/2025
$26,952,652.33	Spectrum Sharing Project Awardee: Resonant Sciences	Awarded 12/2/2025
$10,270,796.49	Advanced Dynamic Spectrum Sharing Demonstration (ADSSD) Awardee: Peraton Labs	Awarded 9/29/2025
$29,946,083.96	OCUDU RPP Awardee: Deep Sig, Inc. and Software Radio Systems (SRS)	Awarded 9/29/2025
$20,696,601.90	Consolidated Spectrum Tools (CST) Awardee: Altio Labs	Awarded 9/26/2025
$29,949,047.06	NAVWAR PEO C4I Awardee: Leidos	Awarded 9/22/2025
$14,455,986.00	Rugged Adaptive Detection and Signaling (RADS) Awardee: GPD Optoelectronics Corp.	Awarded 9/10/2025

In addition the winner(s) of the Navy Antenna Project: Real-Time Spectrum Operations Project will be selected in early 2026.

Engagements & Events

The NSC brought together members, government, the academic community, and industry partners on multiple occasions in 2025.

NTIA Multi-Stakeholder Forum

On January 25, NSC hosted a Multi-Stakeholder Forum meeting in partnership with the U.S. Department of Commerce's National Telecommunications and Information Administration (NTIA) to engage in multi-stakeholder collaboration on the National Spectrum Strategy. This meeting convened NSC members and key government stakeholders to discuss updates on NTIA spectrum band studies, relevant working papers, and collaborative conversations on both 7 GHz and 3 GHz spectrum bands.

PEO C4I Industry Day

On February 26, NSC hosted an in-person industry day to share more information on a Request for Prototype Proposal (RPP) for a Command and Control (C2) system developed within the Program Executive Office for Command, Control, Communications, Computers and Intelligence (PEO C4I) office. The solicitation supports the development of backup communications and data systems with small-form-factor prototypes deployable from both air and sea platforms.

All Member meeting in partnership with the Apex Defense conference

On April 22, NSC partnered with Apex Defense to host its All-Member Annual Meeting. This event brought together NSC members and government partners to discuss policy updates, information on upcoming RPPs, and future priorities.

Attendees were invited to join the Apex Defense conference on April 23 and 24 for sessions on prototype deployments of spectrum-sharing systems, dual-use mobile technologies for military and commercial synergy, and cutting-edge wireless projects tackling contested environments. Two panels featured NSC speakers.

Engagements & Events

Speakers of the first APEX Defense panel included: Mari Silbey, Chief Program Officer, National Spectrum Consortium; Dr. Thomas Rondeau, Principal Director for FutureG & 5G, OUSW(R&E); Andrew Portune, Senior Research Scientist, Wireless Networks, Peraton Labs; Kamran Mahbobi, Managing Director & Co-Founder, MaXentric

The second panel at APEX Defense included insights from: Joe Kochan, Chief Executive Officer, National Spectrum Consortium; Anand Kelkar, Chief Technology Officer, CDSI; Lance Spencer, Director, National Security Solutions and Strategy, AT&T Government Solutions; Thomas O'Brien, Deputy, Central Test and Evaluation Investment Program (CTEIP), Test Resource Management Center

OCUDU Industry Day

On May 7, NSC hosted an industry day on behalf of the FutureG Office, within the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) to share information about an upcoming Request for Prototype Proposals (RPP) regarding the acquisition of Open Source Software (OSS) for 5G/6G open Radio Access Networks (Open RAN) Central Unit (CU) and Distributed Unit (DU) components.

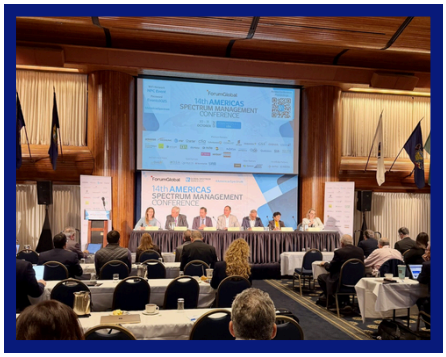
Engagements & Events

IEEE MILCOM 2025

On October 6-10, NSC partnered with the IEEE MILCOM 2025 Conference, bringing together government, industry, and academic leaders to address advances and challenges in military communications. During the conference, the Consortium announced the Dr. Vanu Bose Best Paper Award winners, recognizing the paper “Effects of Age of Channel State Information on Throughput for Collaborative Beamforming Link” by Michael V. Lipski and Clement Kam from the U.S. Naval Research Laboratory; Sastry Kompella from Nexcepta, Inc.; and Anthony Ephremides from the University of Maryland for its impactful contribution to spectrum and communications research.

Americas Spectrum Management Conference:

On October 30-31, NSC joined the 14th Americas Spectrum Management Conference, engaging in discussions on key spectrum topics through interactive sessions and networking opportunities. On Day 2 of the conference, NSC’s Chief Program Officer Mari Silbey moderated a panel on the spectrum needed to deliver American leadership in 6G and wireless technologies. Following that panel, NSC’s CEO Joe Kochan joined a discussion on balancing licensed, unlicensed, and shared spectrum frameworks to safeguard essential government operations while bolstering innovation.



Membership Growth

In 2025, 53 new members joined the National Spectrum Consortium.

NSC Working Groups

5G/FutureG

In 2025, the 5G/FutureG Working Group continued to play a central role in bringing together government, industry, and academic partners to advance next-generation wireless and spectrum technologies. Over the course of the year, the group hosted 17 member meetings, convening stakeholders from across sectors to improve processes for the development and assessment of 5G and FutureG capabilities for federal mission-critical networks, supporting the Department of War's objectives to enhance agility, resiliency, and situational awareness.

Our membership also contributed to global standards development, submitting three contributions on 6G vision, radio technologies, and system architecture to the 3GPP 6G Workshop in South Korea, where Lingjia Liu (Virginia Tech) represented the consortium.

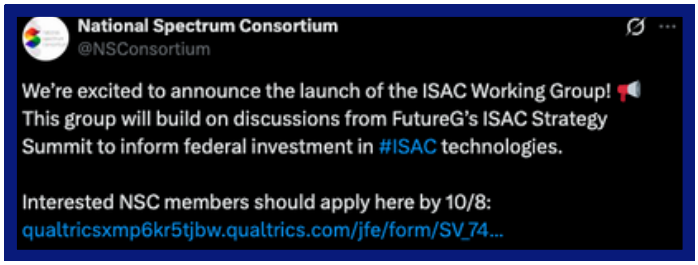
In addition, the FutureG Working Group submitted three technical contributions to the 3GPP RAN1 and RAN2 meetings in November 2025, with several members actively participating in RAN and SA discussions.

Collectively, these efforts advanced Department of War and National Spectrum Strategy goals while strengthening U.S. competitiveness in the rapidly evolving wireless domain.

Integrated Sensing and Communications (ISAC)

Following the ISAC Strategy Summit hosted by the FutureG office in August, NSC has launched a new ISAC Working Group, co-chaired by government representatives, including Dr. Martin Weiss from OUSW(R&E).

The ISAC Working Group's future activities may involve tackling topics such as building training datasets with sensor data, defining requirements for an at-scale sandbox environment, or identifying interfaces to help streamline the integration of sensing and communications functions.



On the Horizon for 2026

In 2026, NSC will continue advancing its role in strengthening the nation's defense innovation ecosystem. Kicking off the year, NSC is partnering with the Office of the Under Secretary of War for Research and Engineering's NC3 Technology Accelerator on a new Request for Capabilities (RFC) with anticipated funding to be released in 2026, subject to appropriations and availability.

In addition, NSC will drive forward the development of the OCUDU ecosystem, delivering the first iteration of the open-source reference software stack within six months and guiding its transition to a Linux Foundation–hosted project supporting carrier-grade open mobile networks.
In parallel, NSC will sustain its collaboration with OUSW(R&E) on the Advanced Spectrum Coexistence awards, reinforcing its commitment to accelerating innovative, mission-critical technologies for defense applications.

Finally, NSC is actively pursuing an increased facility clearance level to support additional projects at higher classification levels, while continuing to engage members through regular meetings, newsletters, and collaborative touch points to drive wireless innovation and advance long-term economic and national security priorities.

Thank you.

Thank you to our member companies for your leadership in driving spectrum innovation.

Together, we're shaping the future of wireless technology and strengthening economic and national security through forward-looking collaboration between government, industry, and civil society.

We're excited to build on this momentum in 2026 and continue working with you to create lasting impact on spectrum and wireless technologies.

- The National Spectrum Consortium Team

national spectrum consortium