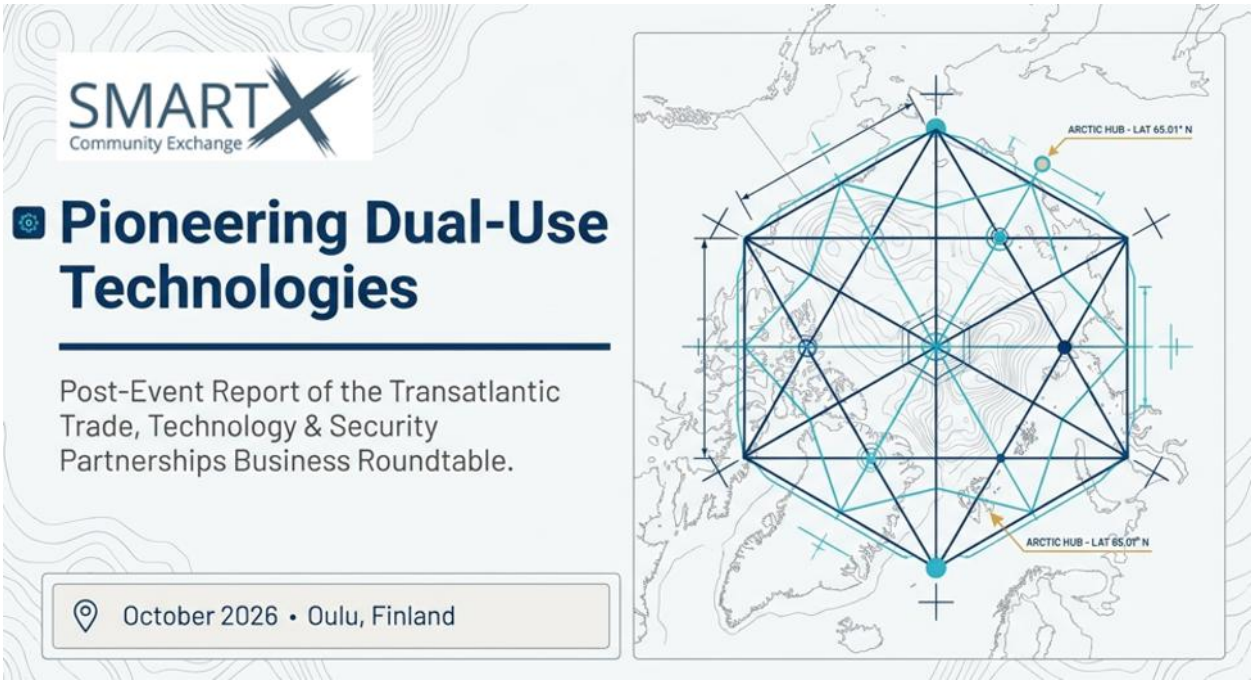


Post-Event Report: October 2026 Transatlantic Trade, Technology & Security Partnerships Business Roundtable

The **Transatlantic Partnerships Business Roundtable**, held in **Oulu, Finland**, convened international leaders from various sectors to enhance cooperation in **trade, technology, and security**. Co-hosted by American and Nordic organizations alongside the **University of Oulu's NATO DIANA 6G Test Centre**, the event emphasized the critical role of **dual-use technologies** and **Arctic innovation**. The discussions highlighted the **6G Test Centre's** extensive capabilities, including advanced **5G/6G research**, **resilient hybrid networks**, and **unmanned systems testing** across multiple specialized Finnish field environments.

Furthermore, the gathering showcased the **Arctic Innovation Exchange** as a vital platform for fostering cross-border commercialization and workforce development.

The roundtable successfully reinforced **transatlantic resilience** and laid the groundwork for expanded **security and technological partnerships** moving into 2027 and beyond.



In October 2026, leaders from government, industry, academia, and innovation ecosystems convened in Oulu, Finland, for the Transatlantic Trade, Technology & Security Partnerships Business Roundtable. Co-hosted by the Smart Community Council USA, the Nordic Business Council USA, and the 6G Test Centre (NATO DIANA) at the University of Oulu, the event focused on advancing transatlantic cooperation, resilience, dual-use technology adoption, and Arctic innovation.

The central pillar of this collaboration is the 6G Test Centre (6GTC), a global hub serving NATO DIANA partners and commercial industry by offering multi-domain testing, research, and validation environments. Complementing 6GTC's core lab facilities is a network of partner field sites across Finland that provide extreme operational conditions (e.g., Arctic, underground, high-altitude, and defence environments). This enables a complete Test, Evaluation, Validation, and Verification (TEVV) pipeline: transitioning innovations from *lab → field → operational validation*. The event concluded with the launch/advancement of the Arctic Innovation Exchange (AIE), inviting global enterprises to participate in dual-use projects, workforce development, and cross-border commercialization.

VIEW THE VIDEO - Validating Dual Use 6G – The NATO DIANA TEVV Pipeline

Event Overview & Leadership

- Date: October 2026
- Location: Oulu, Finland
- Theme: *Transatlantic Trade, Technology, Security Partnerships & Arctic Innovation Exchange (AIE) – Pioneering Dual-Use Technologies*

Hosting Entities

1. Smart Community Council USA
2. Nordic Business Council USA
3. 6G Test Centre (NATO DIANA) at the University of Oulu

Key Agenda & Presenters

Introductions: Transatlantic Trade, Tech & Security

Minna LeVine: *(Smart Community Council USA & Nordic Business Council USA)*

- Strategic rationale for transatlantic collaboration across security, trade, and technology.

DIANA 6G Test Centre Overview

Hannu Nikurautio & Pasi Koskinen

- Detailed briefing on 6GTC capabilities, service portfolio, success stories, and enterprise access pathways.

Core Focus: The 6G Test Centre (6GTC)

The 6G Test Centre (6GTC) operates as a global hub for dual-use technology innovation, designed to strengthen NATO DIANA partners and commercial enterprises through secure, resilient testing and validation environments.

- 6GTC Mission Statement: *"Innovation for Security & Resilience"*

Key Capability Summary

- Extreme-Condition Testing: Specialized for Arctic, defence, and industrial applications.
- Advanced Research: Focus on 5G/6G architectures and AI-enhanced networks.

- Hybrid Connectivity: Next-generation digital resilience combining commercial, tactical, and satellite links.
- Modern Infrastructure: Open Edge Computing, state-of-the-art lab facilities, sub-THz RF testing.
- Uncrewed Systems (UxS): Dedicated air and land domain testing infrastructure.
- Ecosystem Integration: Direct links into NATO DIANA and broader commercial industry ecosystems.

Detailed 6GTC Service Portfolio

6GTC provides four primary technical service areas tailored for security, resilience, and commercial scalability:

[6GTC Service Portfolio]

1. Advanced 5G/6G Real Test Network

2. Next-Gen Resilient Hybrid Networks

3. Beyond 5G RF & Antenna Facilities

4. Unmanned Systems (UxS) Testing

1. Advanced 5G/6G Real Test Network

- Coverage: Carrier-grade 5G and evolving 6G network spanning the Oulu innovation campus.
- Frequency Support: Sub-6 GHz (FR1), mmWave (FR2), indoor/outdoor environments, and NB-IoT.
- Architectural Support: Standalone (SA) and Non-Standalone (NSA) cores, Open RAN (O-RAN), Open Edge, AI-RAN, Reconfigurable Intelligent Surfaces (RIS), and tactical hybrid networks.
- Operational Profile: High-flexibility, secure, low-latency platform for next-generation dual-use application development.

2. Next-Gen Resilient Hybrid Networks

- Multi-Domain Integration: Blends tactical defence networks, commercial 5G/6G, and satellite constellations.

- Mission-Aware Routing: Dynamic traffic routing optimized for fluctuating operational contexts.
- Interoperability: Connects defence-grade infrastructure with commercial telecommunications networks.
- Ubiquitous Connectivity: Maintains persistent, resilient communications across homeland, support, and active combat zones.

3. Beyond 5G RF & Antenna Facilities

- High-Frequency Testing: Sub-THz frequency testing, calibration, and validation.
- Specialized Infrastructure: Anechoic chambers, specialized probe stations, and frequency extenders.
- Research Focus: Next-generation antenna designs, advanced transceivers, and Reconfigurable Intelligent Surfaces (RIS).

4. Unmanned Systems (UxS) Testing

- Domain Scope: Integrated land and air domain testing environments.
- Secure Communications: High-reliability 5G/6G Terrestrial Network (TN) and Non-Terrestrial Network (NTN) connectivity.
- Use Cases: Command and Control (C2), real-time data exchange, and validation of autonomous or remotely operated land/air vehicles.

Multi-Domain Test Ecosystem: Finnish Collaborative Field Sites

To extend capabilities beyond traditional laboratory and campus environments, 6GTC collaborates with seven specialized test sites across Finland.

Strategic Partner Test Locations

- Across the Arctic Region

Strategic Value of Field Test Sites

- Replication of Extreme Environments: Provides access to real-world environments that campus laboratories cannot replicate, including underground facilities, extreme Arctic weather, high-altitude terrain, and dedicated defence testing grounds.
- TEVV Implementation: Facilitates NATO DIANA-level Test, Evaluation, Validation, and Verification (TEVV) by managing technology transitions across three distinct

phases: \text{Lab} \longrightarrow \text{Field} \longrightarrow \text{Operational Validation}

- Complementary Integration: These sites complement 6GTC's central facilities without overlapping capabilities, together establishing Europe's most comprehensive multi-domain dual-use testing network.

Strategic Outlook: Arctic Innovation Exchange (AIE)

The roundtable concluded with a forward-looking positioning of the Arctic Innovation Exchange (AIE), an strategic platform designed to promote Arctic resilience, secure communications, and transatlantic commercial cooperation.

"The Arctic Region is open for business."

Enterprises, defense partners, and research institutions are invited to engage with AIE strategic partner projects, initiatives, and workforce platforms focusing on:

- Dual-Use Innovation: Commercializing technologies with both civilian and defense applications.
- Arctic Testing & Resilience: Validating systems under severe climate and operational stress.
- Secure Communications: Standardizing resilient TN/NTN hybrid connectivity.
- Workforce Development: Establishing specialized training platforms for high-tech and security-focused domains.
- Cross-Border Commercialization: Streamlining pathways for transatlantic trade and technology transfers.

Strengthening Transatlantic Resilience Through Multi-Domain Innovation



The Conveners

Hosted by the Smart Community Council USA, the Nordic Business Council USA, and the 6G Test Centre (NATO DIANA) at the University of Oulu.

The Mission

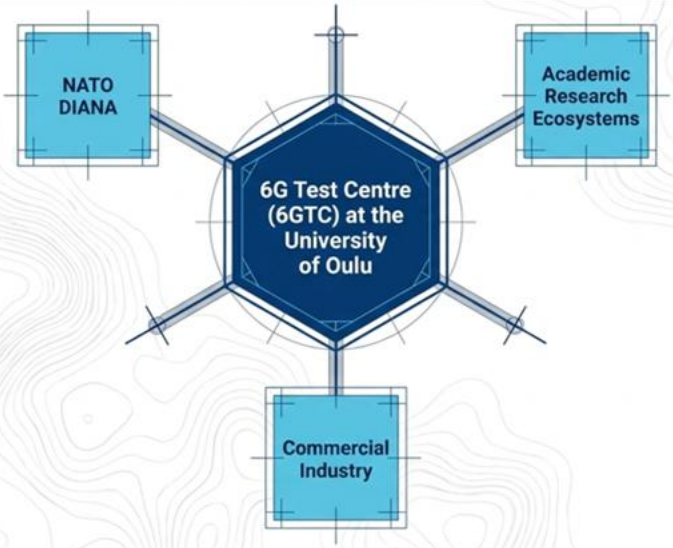
Accelerating dual-use innovation, Arctic readiness, and multi-domain testing environments in support of NATO DIANA's mission.

The Outlook

Setting the strategic stage for expanded cross-border cooperation in 2027 and beyond.

SMART X Community Exchange

The Global Hub for Advanced Dual-Use Validation

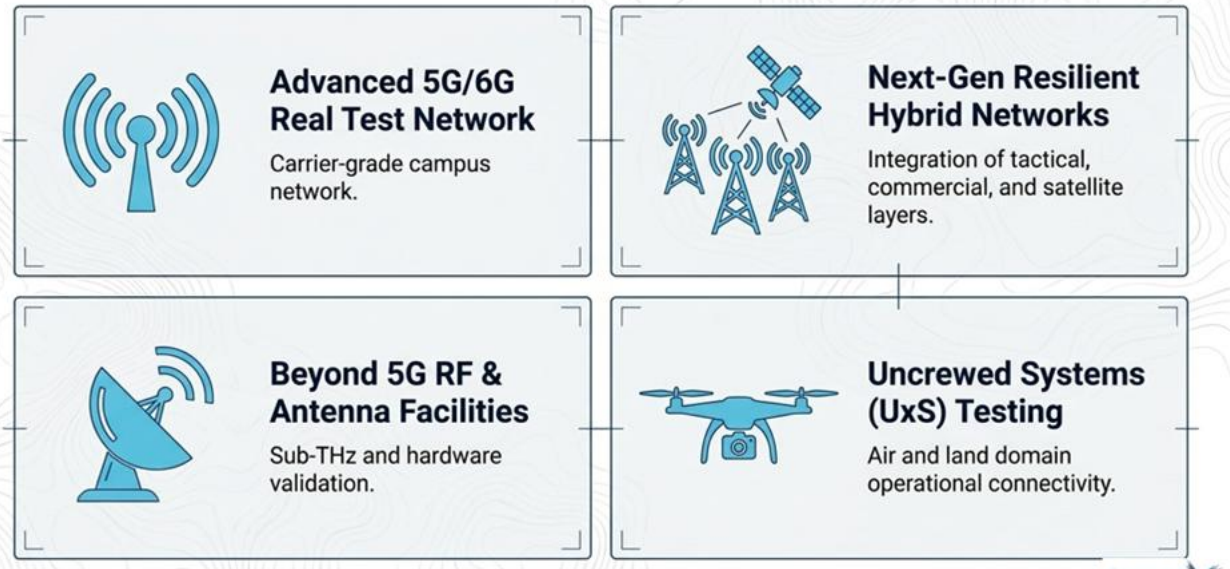


"Innovation for Security & Resilience."

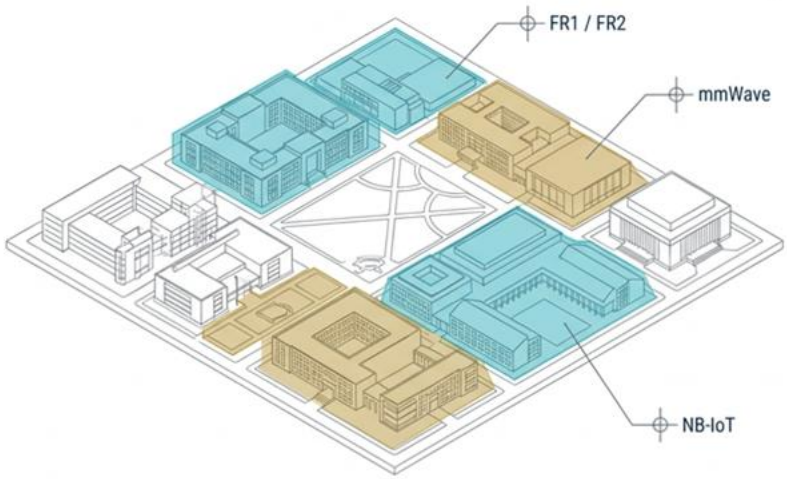
6GTC strengthens NATO DIANA partners and industry through advanced testing, research, and validation environments designed for global security and digital resilience.

SMART X Community Exchange

The 6GTC Capability Dashboard



Carrier-Grade 5G and Evolving 6G Test Environments



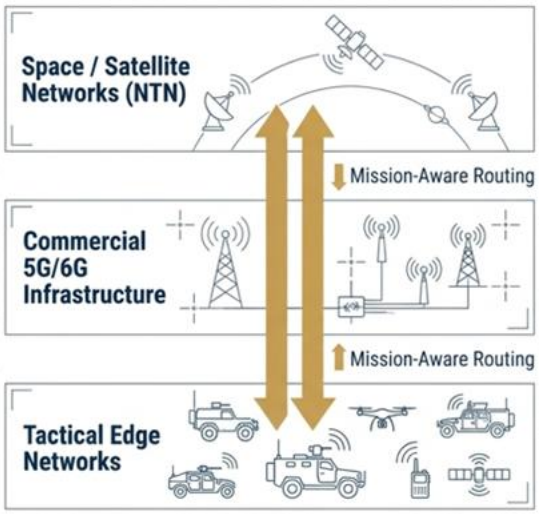
Supported Architectures:

- SA/NSA cores cores
- O-RAN
- Open Edge
- AI-RAN
- RIS
- Tactical hybrid networks

Secure, flexible, and low-latency platforms providing next-generation development across both indoor and outdoor environments.

SMARTX

Persistent Connectivity Through Hybrid Network Interoperability

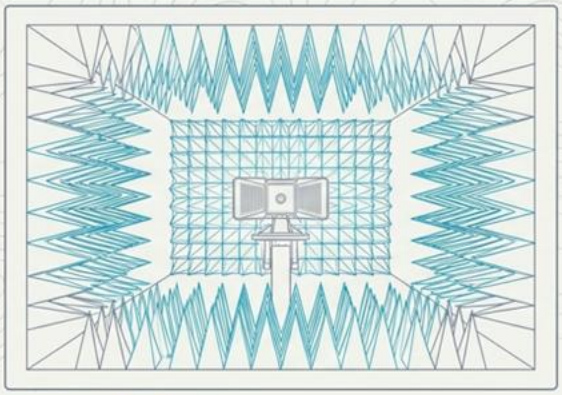


Dynamic operational contexts demand seamless interoperability between defense and commercial infrastructures.

6GTC enables seamless, mission-aware data transition across homeland, support, and combat zones.

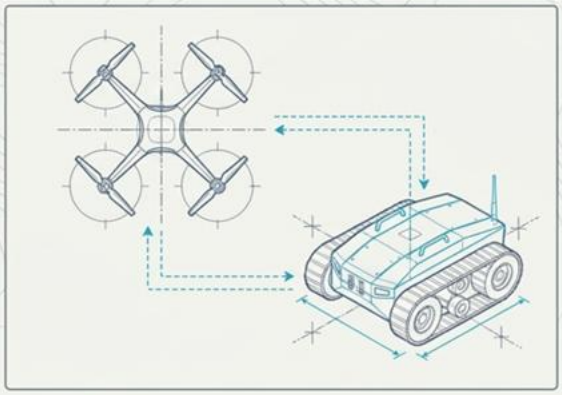
SMARTX

Validating Hardware Precision and Autonomous Control



Beyond 5G RF

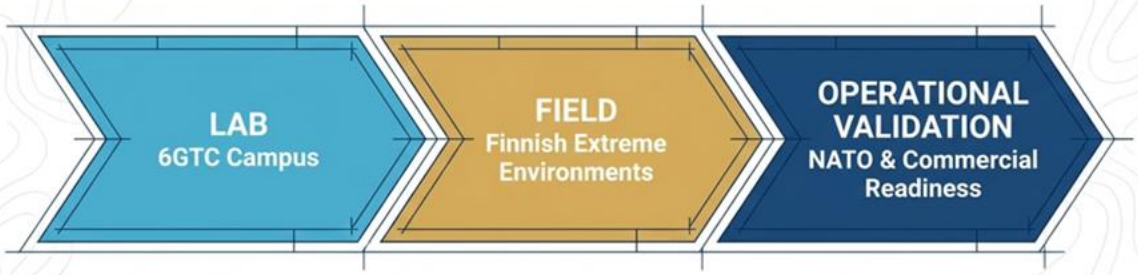
Sub-THz testing, calibration, and validation utilizing anechoic chambers, probe stations, frequency extenders, and research on reconfigurable intelligent surfaces (RIS).



UxS Testing

Validation of autonomous and remotely operated vehicles in air and land domains, secured by 5G–6G TN/NTN connectivity for command, control, and data exchange.

The DIANA Innovation Pipeline: From Controlled Lab to Operational Validation



Core technologies are engineered and tested in 6GTC's lab, then pushed to the breaking point in Finland's unyielding extreme environments to ensure true dual-use resilience.



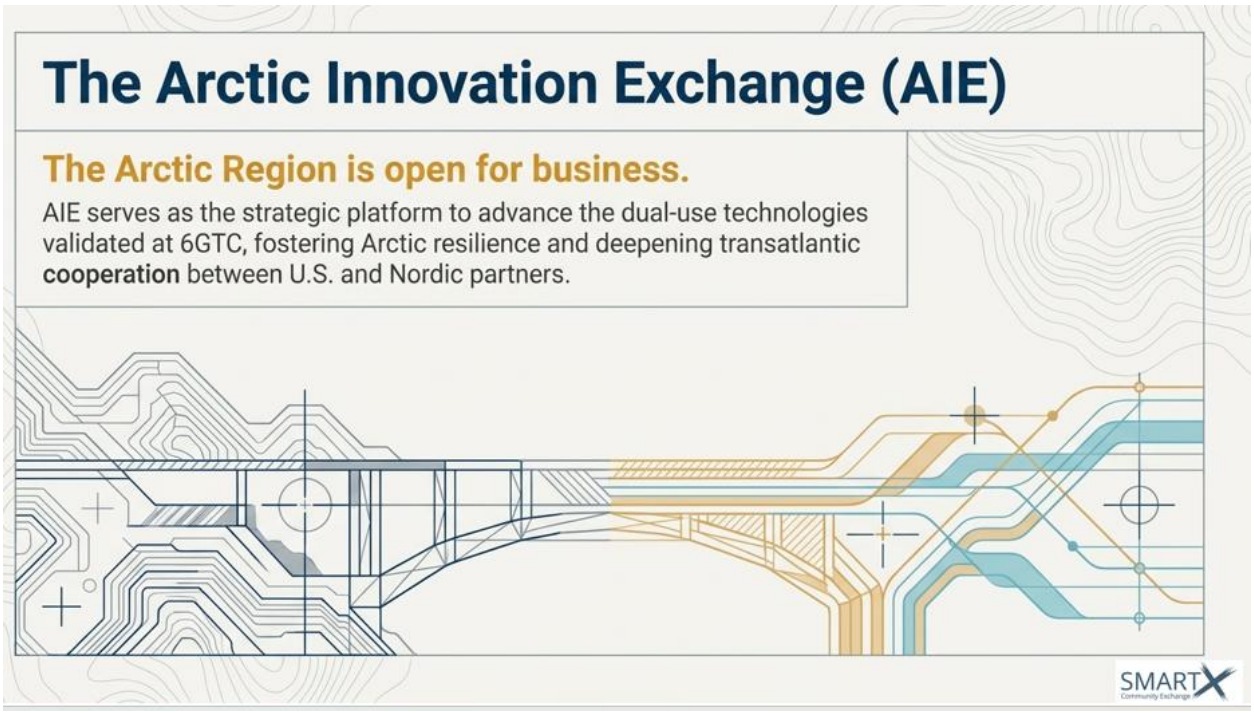
Extending Capabilities Across Europe's Most Complete Test Ecosystem

These seven collaborative partner sites provide **full-scale operational conditions** that complement—rather than compete with—6GTC's core campus strengths, enabling **end-to-end multi-domain dual-use testing.**

The Extremes Matrix: Environments 6GTC Cannot Replicate Indoors

Validating resilience across every physical extreme required by NATO DIANA and modern commercial industry.

	Deep Underground	High-Altitude	Extreme Arctic Cold	Tactical/Defense	Open-Air/Industrial
		✓	✓		
			✓	✓	
				✓	✓
				✓	
	✓				
					✓
			✓	✓	





Summary & Future Outlook

The October 2026 Business Roundtable reinforced the critical nature of Nordic-U.S. alignment in critical technology sectors. By integrating the University of Oulu's 6GTC facilities, NATO DIANA initiatives, and Finland's specialized field testing environments, the partnership offers a complete framework for dual-use technology development. This

collaboration sets the operational foundation for expanded transatlantic trade, security, and technology projects slated for 2027 and beyond.

Thank you for participating in recent **Transatlantic Trade, Technology, Security Partnerships Business Roundtable in Oulu, Finland** and for being part of the SMART Community Exchange network. We are pleased to introduce our new **SMART Business Advantage Program**, designed to keep business leaders, innovators, and international partners connected to exclusive by-invitation opportunities, resources, and relationships throughout the year.

Stay Connected Through the SMART Business Advantage Program