



ISAC Discussion: TechUK Panel

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➤ Booz Allen Overview

Today's Booz Allen is a private sector leader, building advanced technology to fast-track results for boosting efficiencies, saving money, and safeguarding businesses.

We use best-in-class tech to support the world's most important missions - the ones that defend us, the ones that transform lives, and the ones where technology must perform reliably, whether in deep space, underwater, or on the other side of the world.

Global Commercial:

- Energy & Utilities
- Financial Services
- Health and Life Sciences
- Manufacturing
- Software and High Tech
- Transportation

Leading with Tech + Tradecraft for Security Advantage

Footprint

-  **32**
Major Business Centers
-  **20+**
Manufacturing / R&D Centers

>32,500 Employees

-  **20,000**
technologists
-  **6,000**
software engineers
-  **7,500**
cyber professionals
-  **2,500**
AI practitioners

Key Facts

- \$12B**
revenue in FY25
- 1914**
Booz Allen founded

WHERE INNOVATION MEETS IMPACT for BUSINESS LEADERS

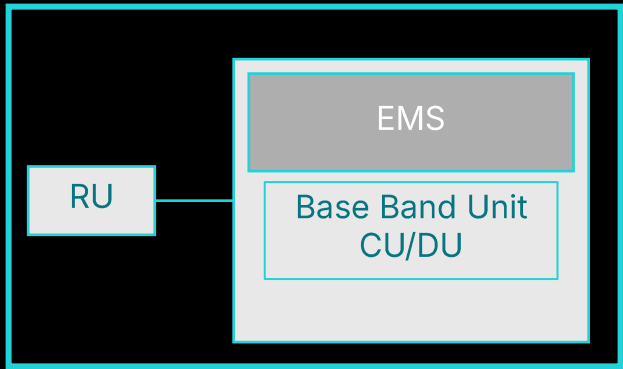
- **Leading AI provider** to the federal government
- **Invested ~\$3B** over last decade through R&D, Ventures, M&A, and co-creation
- Scaled businesses in **Defense Tech, Space, and Digital Transformation** and a leading position in Quantum
- **20+ patents** at the intersection of AI and cybersecurity
- **10+ years** of leading quantum technology

- 12,000+** Cyber Certifications
- 70%** Hold Security Clearances
- 2** NSA Accreditations
- 4** CREST Certifications
- 1,000+** Annual IR Engagements

What is AI-RAN?

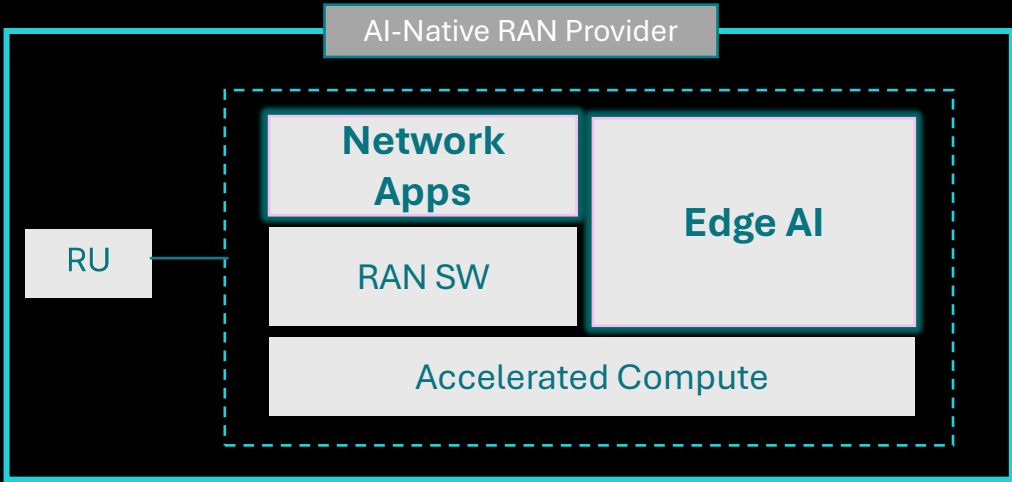
AI-RAN is a next generation network architecture where **artificial intelligence and machine learning are natively integrated** into every layer of the RAN stack. Unlike traditional RAN systems that rely on static rule-based configurations, AI-RAN uses real time data performance, resource allocation and user experience to dynamically optimize the network in real time.

5G Single vendor, closed system



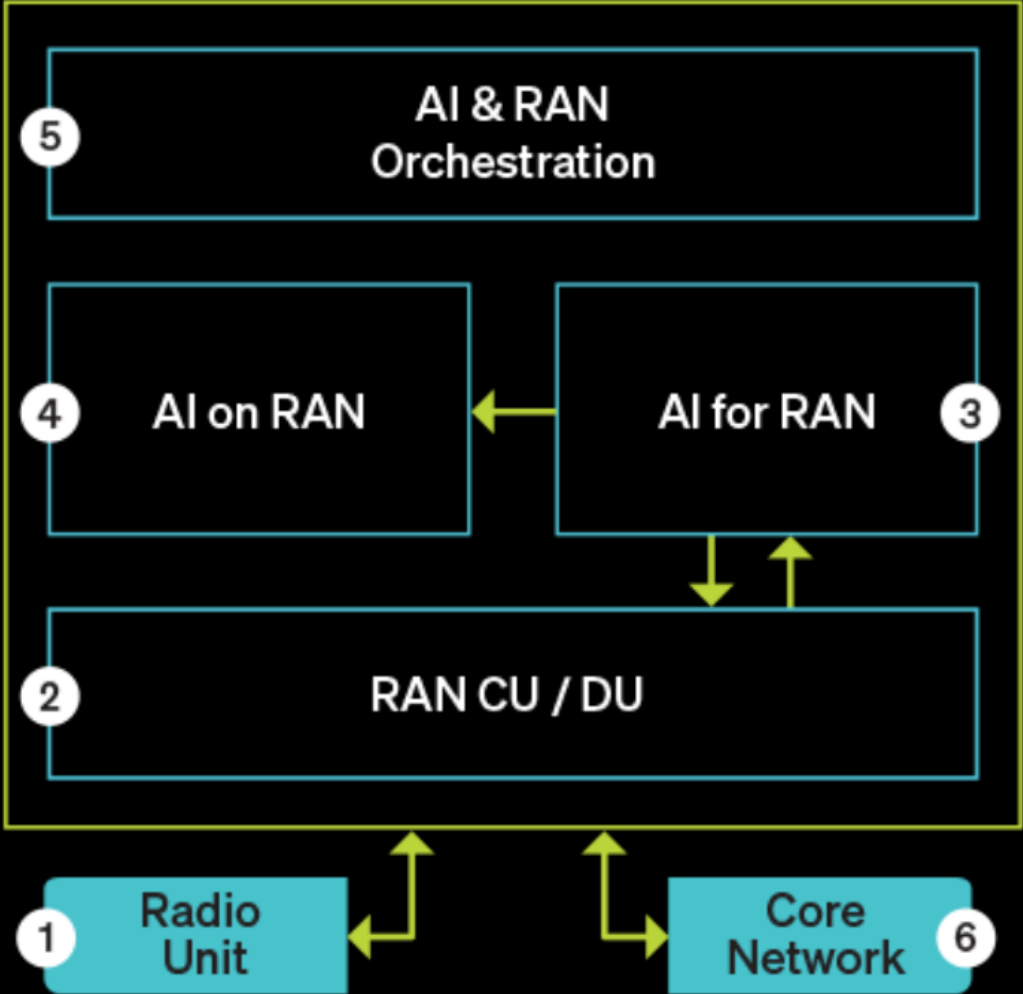
Traditional 5G Solutions are closed and proprietary

AI-Native Multi-purpose, SW defined, converged edge infrastructure



Network apps and Edge AI create opportunities for differentiation and IP creation

AI-RAN Platform Reference Architecture



AI-Ran Server: At-a-Glance

1. **Radio Unit (RU)** transmits & receives radio frequency signals from mobile devices
2. **Ai-native Centralized Unit (CU)/Distributed Unit (DU)** uses AI to process and transmit wireless signal via the RU to & from mobile devices
3. **AI for RAN Applications** dynamically optimize network performance
4. **AI on RAN Applications** enable AI inferencing at the edge
5. **AI & RAN Orchestration** is a software control layer that coordinates, manages, and optimizes radio access networks (RAN) using AI and automation
6. **Core Network** is the central backbone connecting the AI-RAN platform to the broader internet and other networks

Booz Allen Network Apps

With the AI-RAN architecture, Booz Allen contributes a suite of specialized Network applications designed to optimize spectrum use, and secure resilient communications.

Spectrum Sensing



Monetize spectrum interference detection and spectrum sharing app

Productize Booz Allen’s Spectrum Sensing would **provide an advanced, real-time spectrum management system** using AI-driven analytics and dynamic control to ensure optimal, secure, and interference-free RF communications.

Agentic Security



Enhance resilience and operational security

Incorporate resiliency into the network by **integrating security dApp and model-driven decision-making**. By leveraging outputs from AI/ML models, the dApp can dynamically inform network adaptations for use cases like **anti-jam**, adjusting emissions control settings, or modulation adjustments, to mitigate threats and maintain reliable connectivity.

Integrated Sensing & Comms (ISAC)



ISAC App Development

Enhance the combination of advanced computer vision from VisionAI Stack with an ISAC capability to **provide comprehensive, real-time situational awareness and analytics through passive sensing** and cooperative network sensing capabilities.

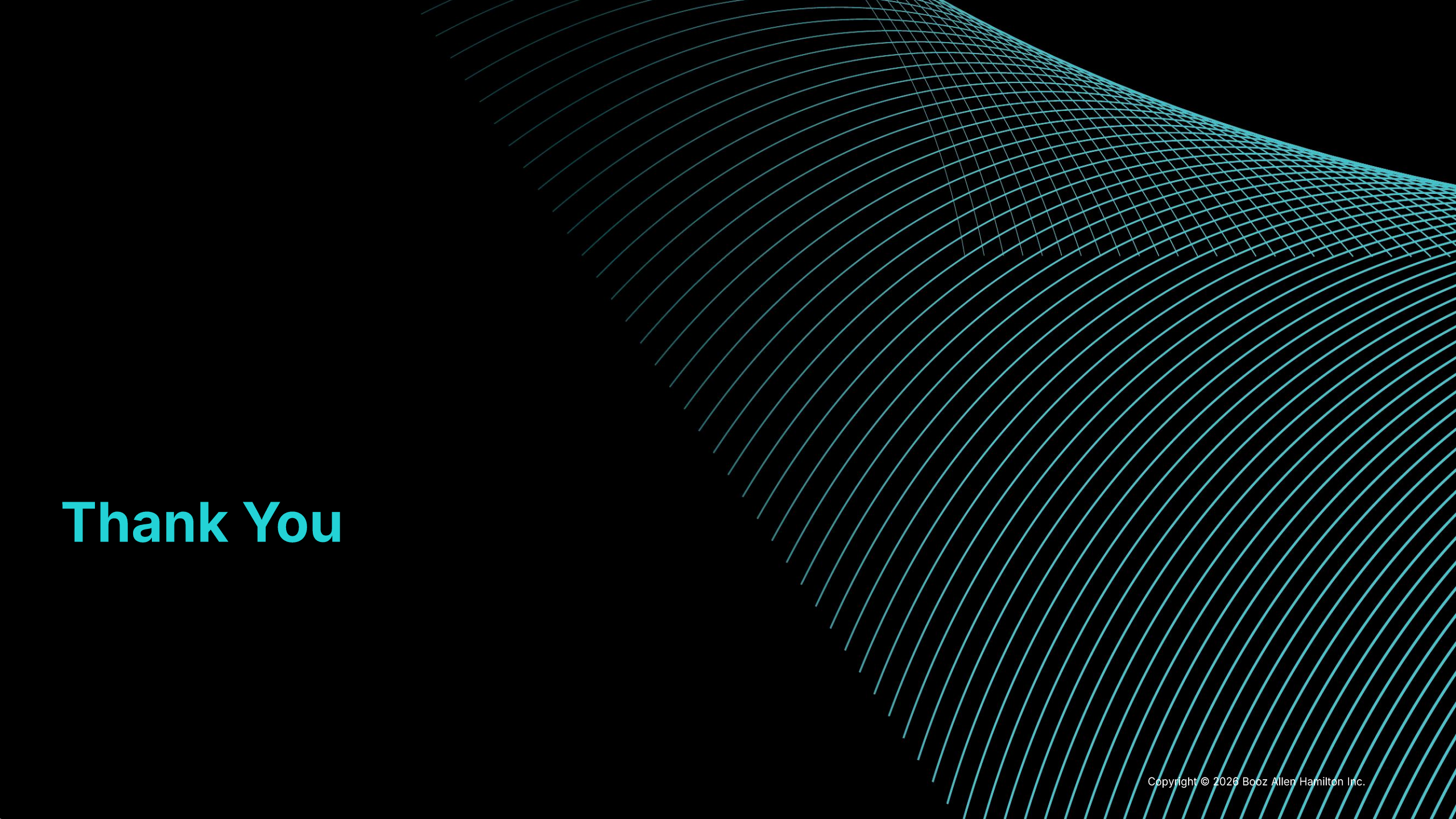
Considerations for ISAC Deployments

OPPORTUNITIES AND TRENDS

- ISAC as the killer 6G application
- Drone detection as first deployment
- Private and public 5G to 6G adoption
- Gov't interest driving investment now

CHALLENGES AND CONSIDERATIONS

- False detection and sensor overload
- Risks to communications network
- Privacy considerations
- Integration w/ sensor fusion systems



Thank You