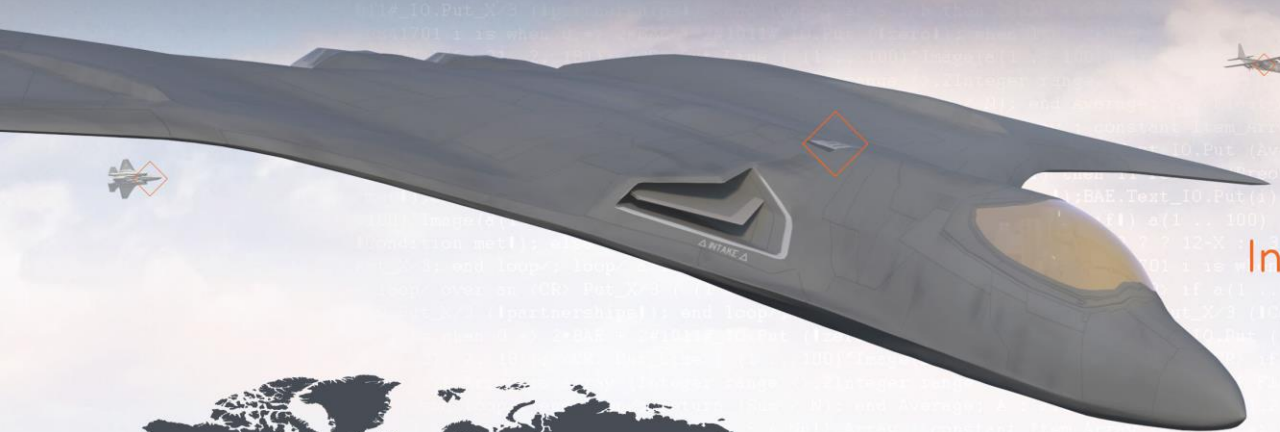




# Making Defense Mission Modernization a Reality

Wesley Allen, PhD  
Director of Advanced Electronics  
August 30, 2023



Delivering to 65 countries

**5<sup>th</sup> generation provider**

Integrated on **120+** platforms

Operating on **95%** of U.S. military rotary-wing aircraft



**60+** years of experience

Investments **\$3B** in technology  
**\$150M+** in manufacturing

[boesystems.com/EW](http://boesystems.com/EW)

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# Long history delivering advanced EW solutions for major weapons platforms

- Deliver across branches including USN and USAF
- EW systems, CM systems, missile systems, towed decoys, RWR, self-protect systems, ...
- F-15, F-15E, FA-18E/F, F-22, B-2, EC-130H Compass Call, F-35, U-2, etc.



# Modern Microelectronics Enable Advanced Threat Engagement

## Rapid EW tech proliferation across platforms

BAE Systems' modular architecture flies on 80% of US fighters



5th Gen

6th Gen, Classified

Missiles, UAS, Helicopters

4th Gen

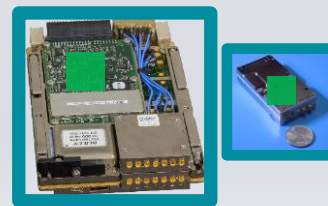
Standardized racks and **common core EW modules**

- Modern threat solution
- Exponential processing increase in drop-in upgrades

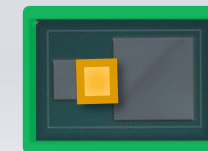
**SHIP & RAMP programs counter the threat data deluge at the edge**

- Emerging threats inundate US platforms with increasing data
- Advanced & distributed weapons

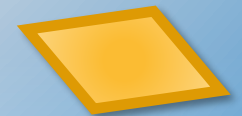
**Evolving threats challenge US deployed edge EW processing**



BAE Systems Modules



Advanced Packages



Advanced Chiplets

# Rapid Mission-Enabling Advanced Tech Insertion Is No Accident

**Cross-Organizational Collaboration—Early and Often**  
**Intentional Tech-Insertion Roadmapping**  
**Strong “Development” Side of R&D**





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