

Modular Open Systems Approach

MOSA

What is MOSA?

MOSA is an acquisition and design policy that prioritizes the use of open standards-based technology.

The MOSA Directive

The U.S. Department of Defense's Tri-Services memo has made it clear: MOSA standards are vital to the Army, Navy, Air Force and Marine Corps.

“MOSA supporting standards should be included in all requirements, programming and development activities for future weapon system modifications and new start development programs to the maximum extent possible.”

Memorandum:

Modular Open Systems Approaches for our Weapon Systems is a Warfighting Imperative



Standards are going to be a strategic capability.

Project Manager for Positioning, Navigation, and Timing (PM-PNT)
via PEO IEW&S website

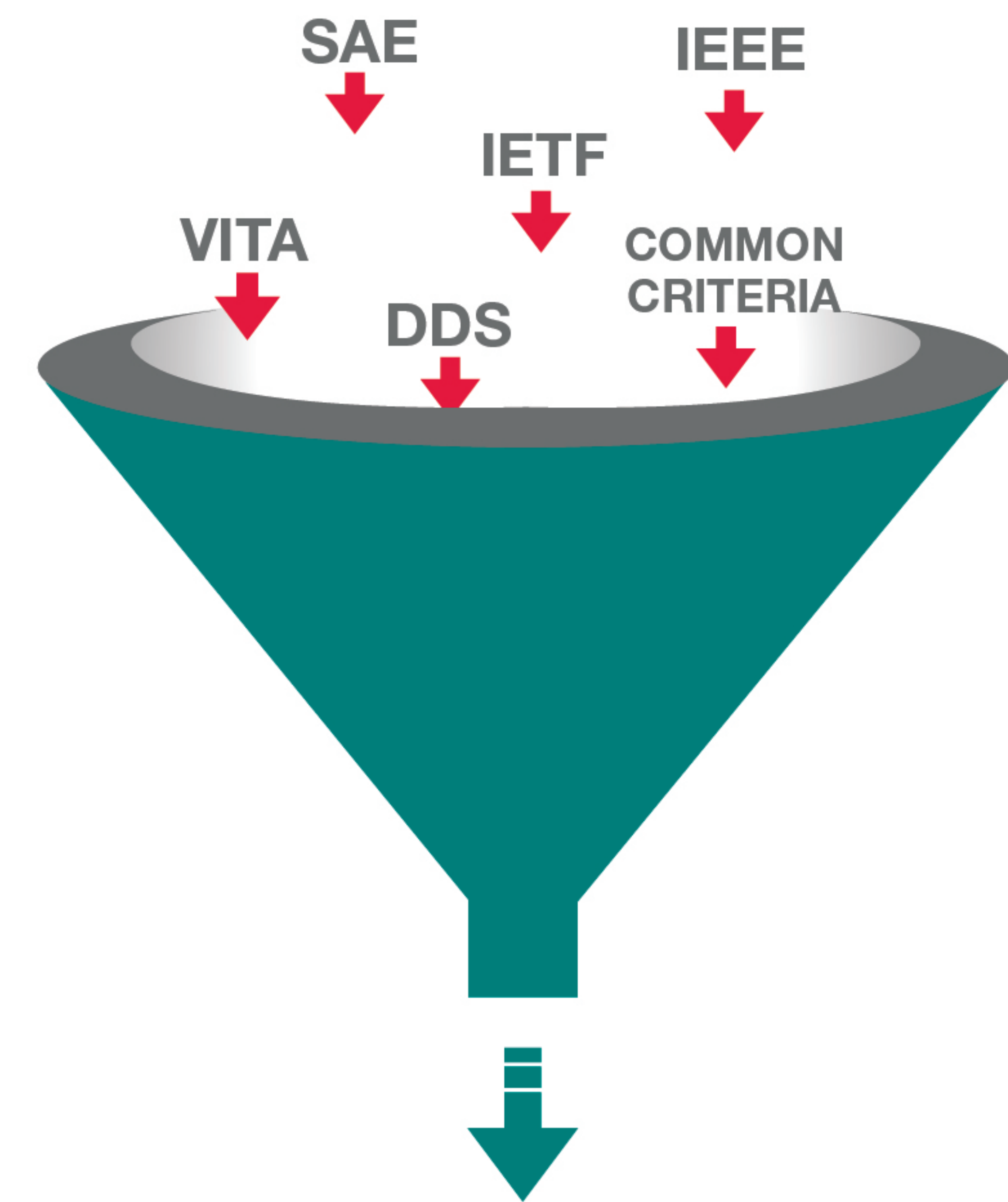
The Benefits of MOSA

- ✓ **Seamless Sharing across Domains and Machines**
Common standards enable seamless interplatform communications, sharing of information across all domains, and facilitation of JADC2
- ✓ **Rapid Innovation and Integration**
Interoperability simplifies insertion and deployment of new or future technologies, as well as reconfigurability, portability, scalability, and reuse with little or no modification
- ✓ **Vendor Independence**
Moving away from proprietary interfaces increases the sources of supply and support, eliminating vendor lock-in and increasing vendor competition
- ✓ **Life Cycle Supportability and Reduced Obsolescence**
The ability to choose parts from multiple vendors lowers life cycle management risks and costs by increasingly availability and reducing required training
- ✓ **Minimized SWaP**
Increased interoperability reduces the number of systems required to field new technology, which in turn eliminates clutter caused by redundant cabling and accessories



What Are MOSA Open Standards?

Industry Specifications



MOSA Open Standards

Existing industry specifications have typically been used as the baseline for the development of new open standards. Following the DoD's MOSA directive, military branches have prioritized adopting and adapting MOSA open standards wherever possible.

C5ISR/EW Modular Open Suite of Standards

Future Airborne Capability Environment

Generic Vehicle Architecture

Hardware Open Systems Technologies

Enables **hardware and software convergence** of platform C5ISR/EW systems

Defines an open **avionics software environment** for all military airborne platforms

Provides specifications for capabilities needed to integrate **equipment on ground vehicles**

Provides standards framework for **mission computing**

Modular Open RF Architecture

Open Mission Systems

Sensor Open Systems Architecture

Vehicular Integration for C4ISR/EW Interoperability

Specifies standard for **radio frequency convergence**

Standardizes interfaces and data exchange techniques between software and hardware **subsystems**

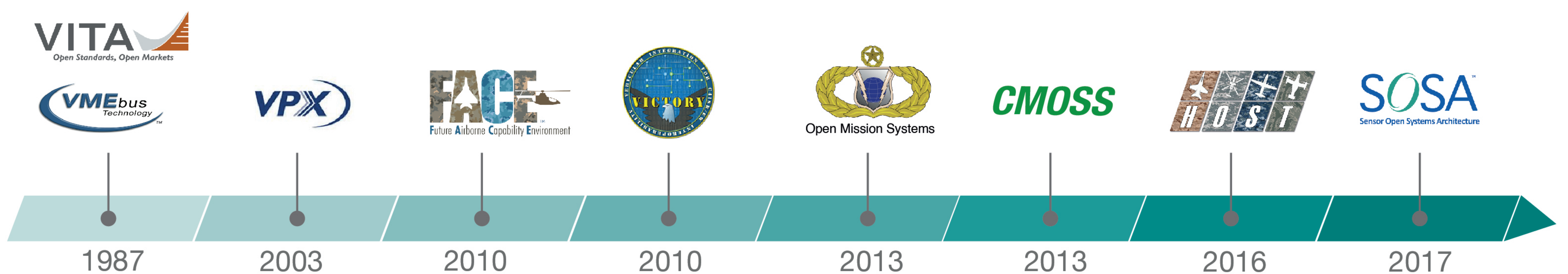
Defines hardware and software components for **sensor processing systems**

Provides specifications for capabilities needed to integrate **C5ISR/EW** equipment on ground vehicles

A Trusted, Proven Leader in Open Standards

**CURTISS-
WRIGHT**

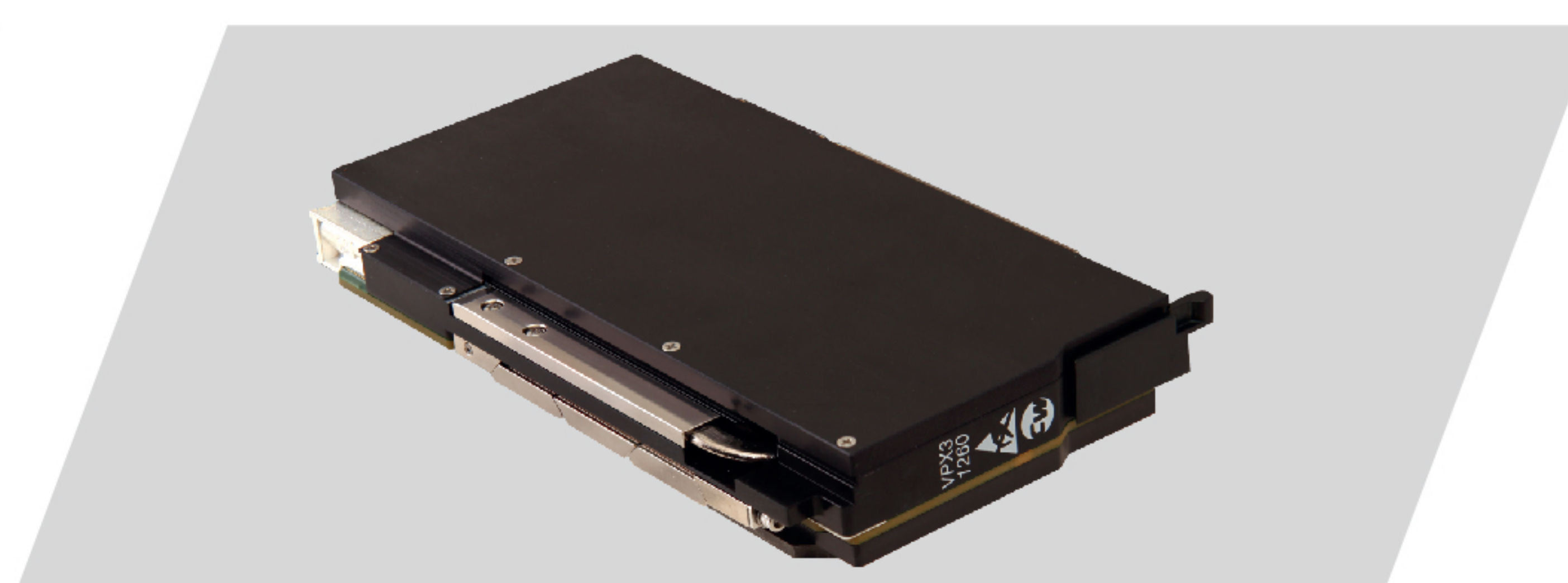
Our technology is designed to bring the benefits of MOSA open standards to ground, airborne, and naval platforms. In fact, we have a long and proud history of participation in the organizations and consortiums that define and improve these important standards.



Partnering with Curtiss-Wright gives customers access to the industry's broadest product portfolio of field-proven, MOSA-based solutions.



Modular System Solutions



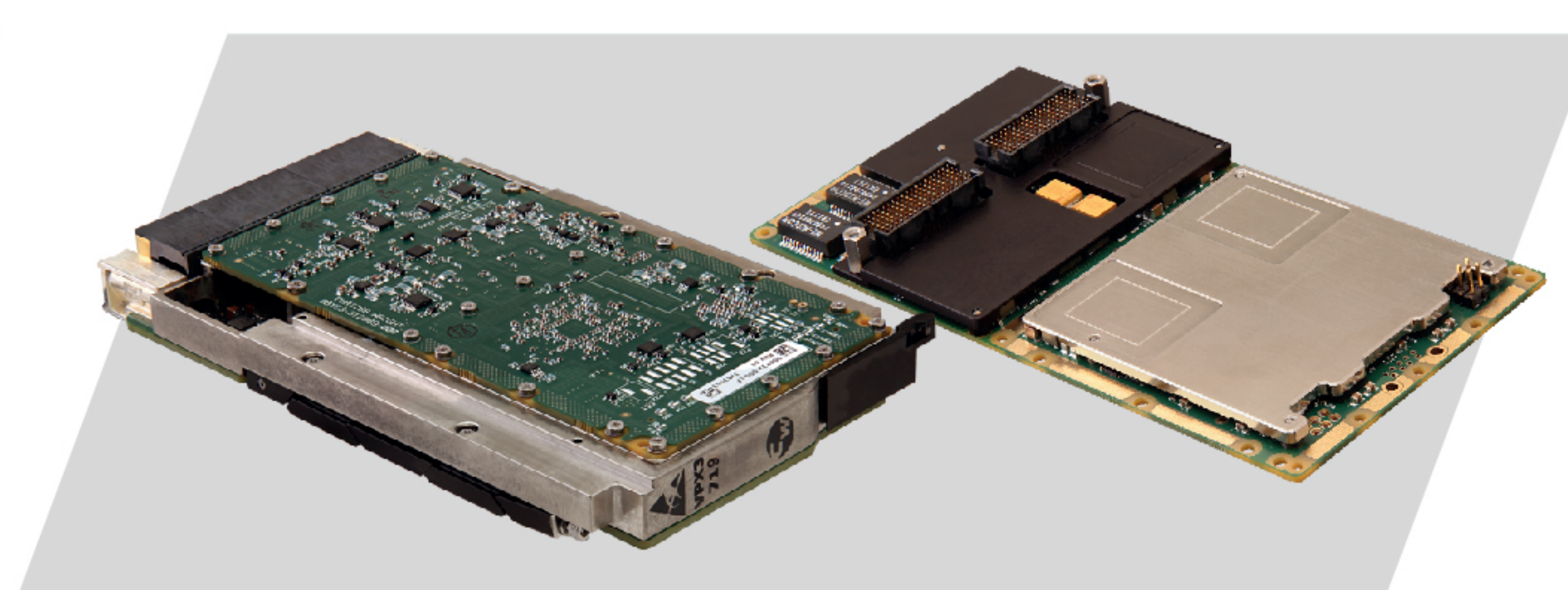
SOSA and CMOSS Solutions
and System Capabilities



VICTORY and GVA Solutions



OMS/UCI System Capabilities



FACE-Supporting Hardware



Open Standard Device
Management Software

TRUSTED
PROVEN
LEADER

Questions?

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