

Move, Shoot and Communicate: A MOSA Perspective

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Modular Open Systems Approach (MOSA) will result in architectures that govern internal and external interfaces for integrated systems

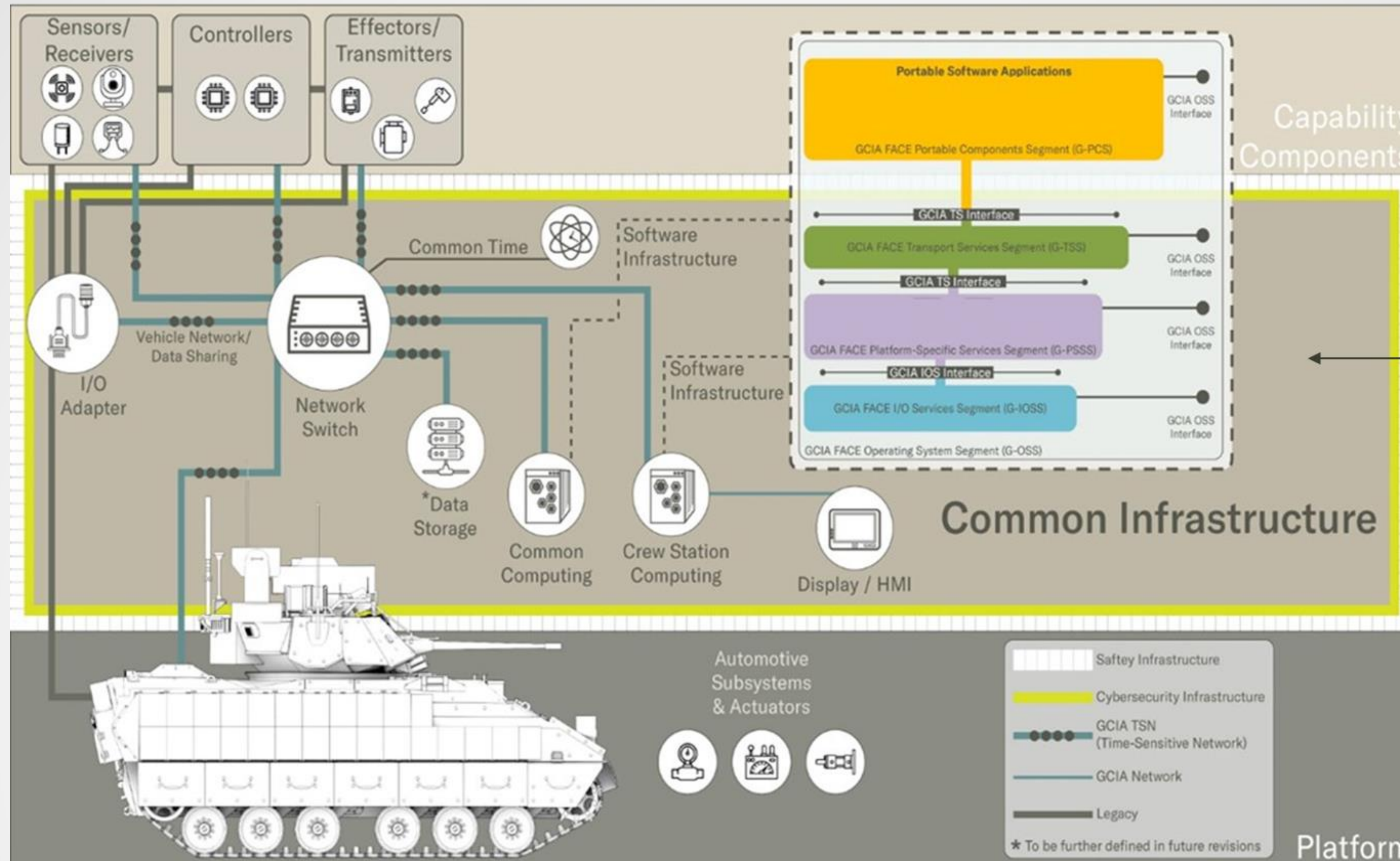
Objectives	Why	Benefit
Facilitate Technology Transition	Deliver new capabilities/replacement technologies without changing all components in a system	FIELDING
Improve Interoperability	Allow severable software/hardware modules to be changed independently	OPTIONS
Foster Innovation	Configure/reconfigure assets – provide operational flexibility to meet changing operational needs	AGILITY
Maximize Cost Savings/Avoidance	Reuse validated technology and eliminate redundant development & testing	SAVINGS
Ensure Q/R/S and Lifecycle Supportability Standards	Establish validation & verification criteria to ensure compliance and successful integration	ASSURANCE

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Ground Combat Systems (GCS) Common Infrastructure Architecture (GCIA)

MODULAR OPEN SYSTEMS APPROACH



A common method of defining data, interface, and interoperability requirements

Data Architecture (Model Library, Modeling Framework, Data Dictionary, GCIA DA to FACE Data Model Software tool)

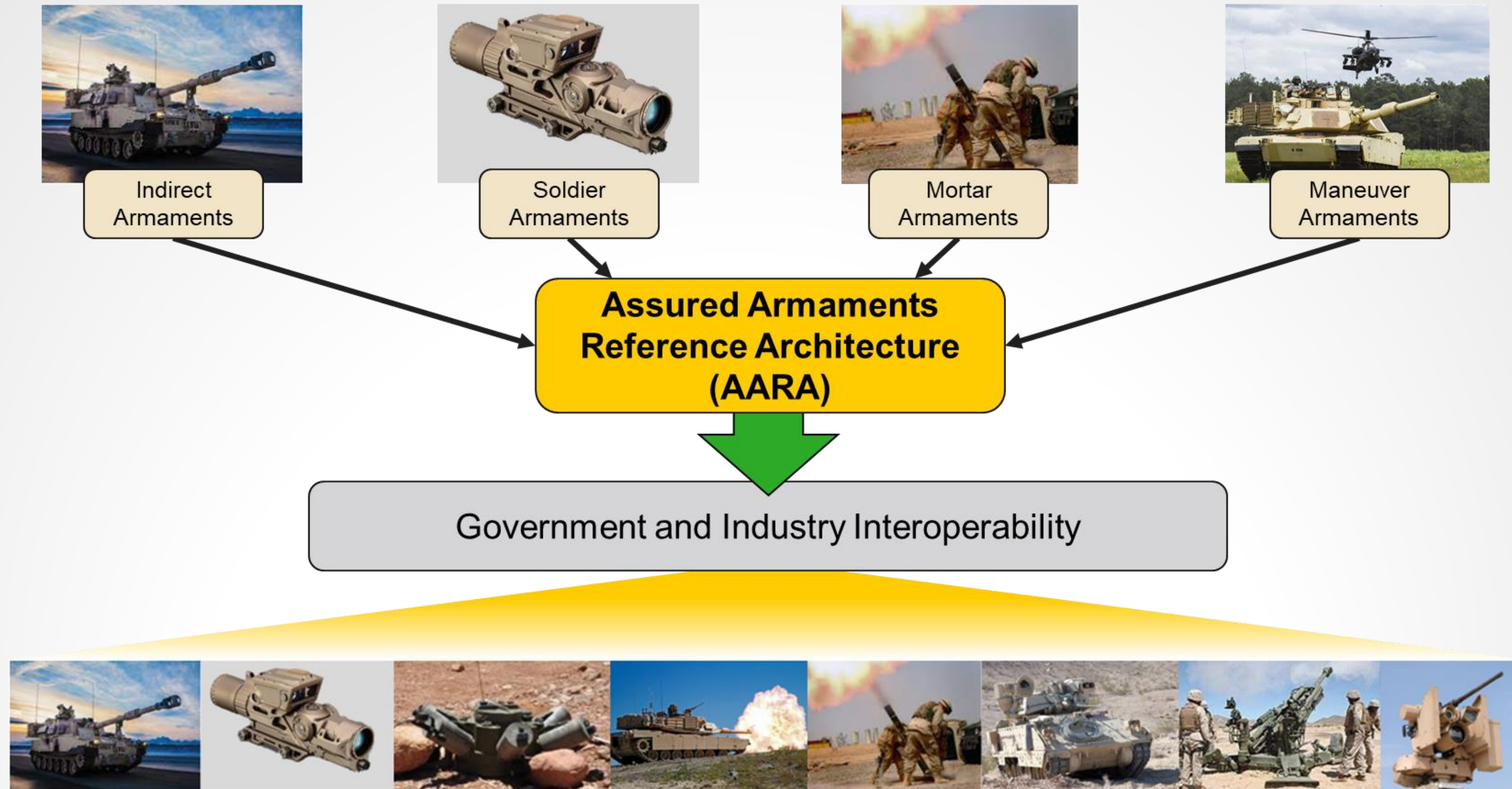
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DEVCOM AC's MOSA Initiative

MODULAR OPEN
SYSTEMS APPROACH

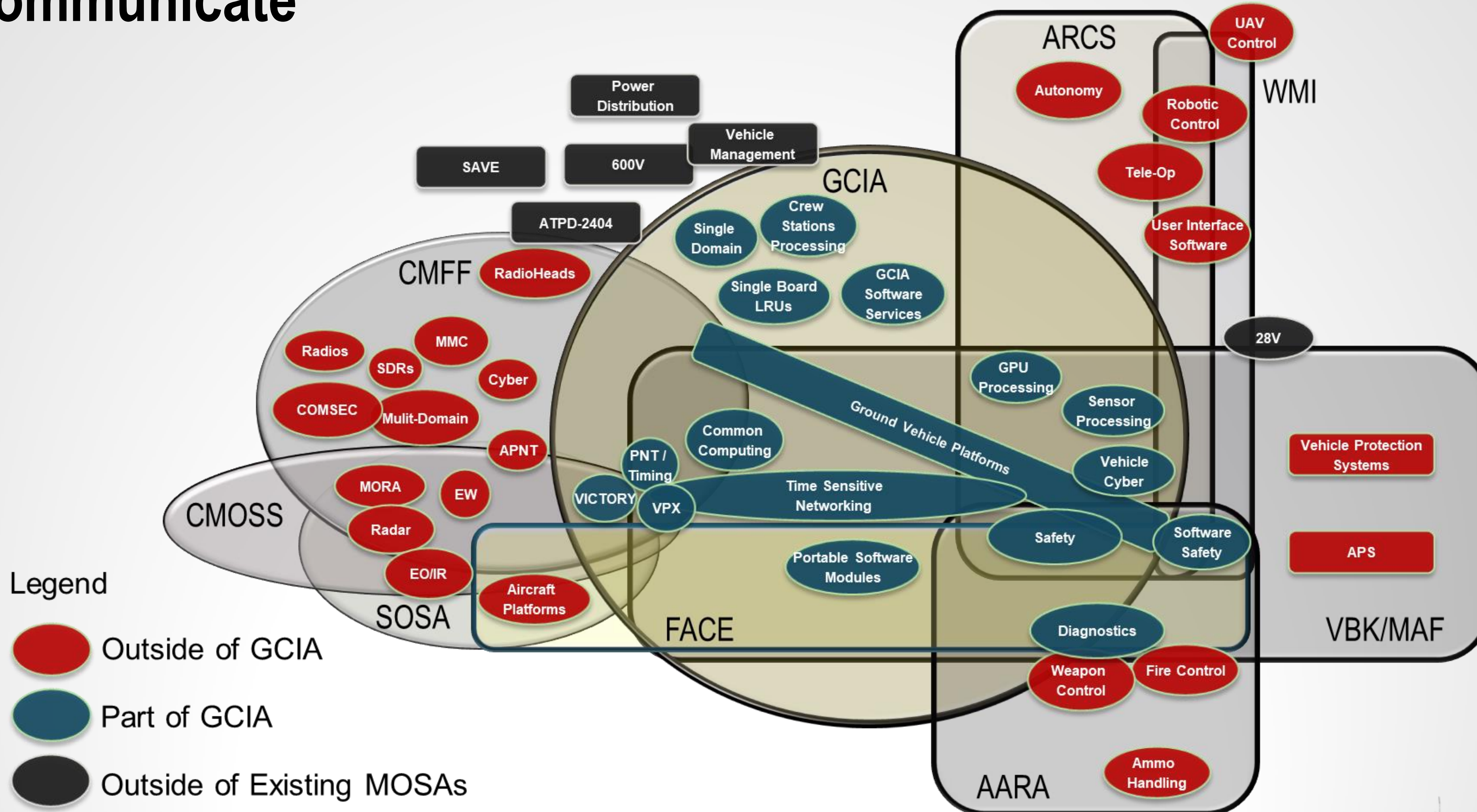
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MOSA of Shoot, Move, and Communicate

MODULAR OPEN SYSTEMS APPROACH



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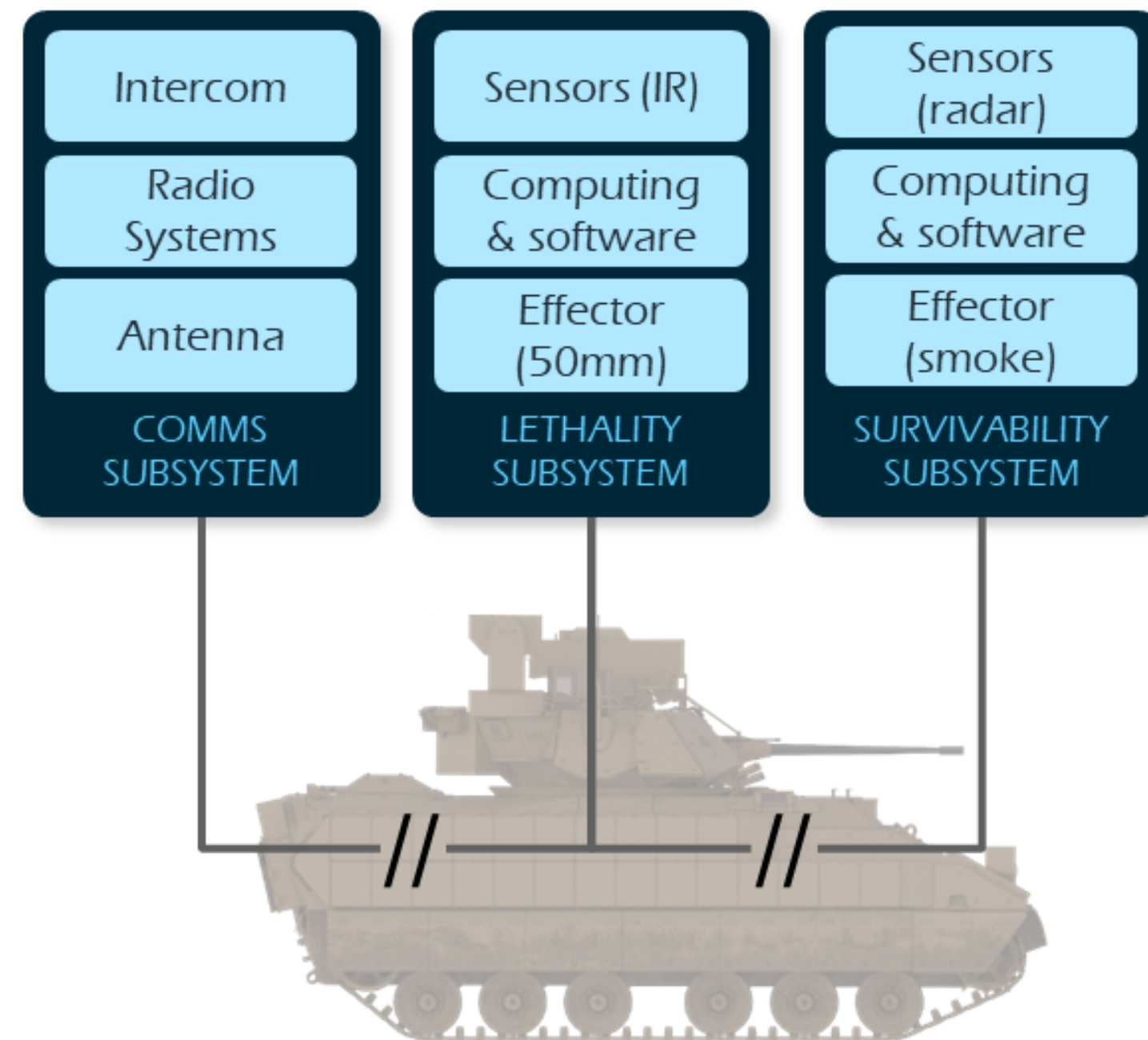
Vision for future state of army Ground Systems

MOSA

MODULAR OPEN SYSTEMS APPROACH

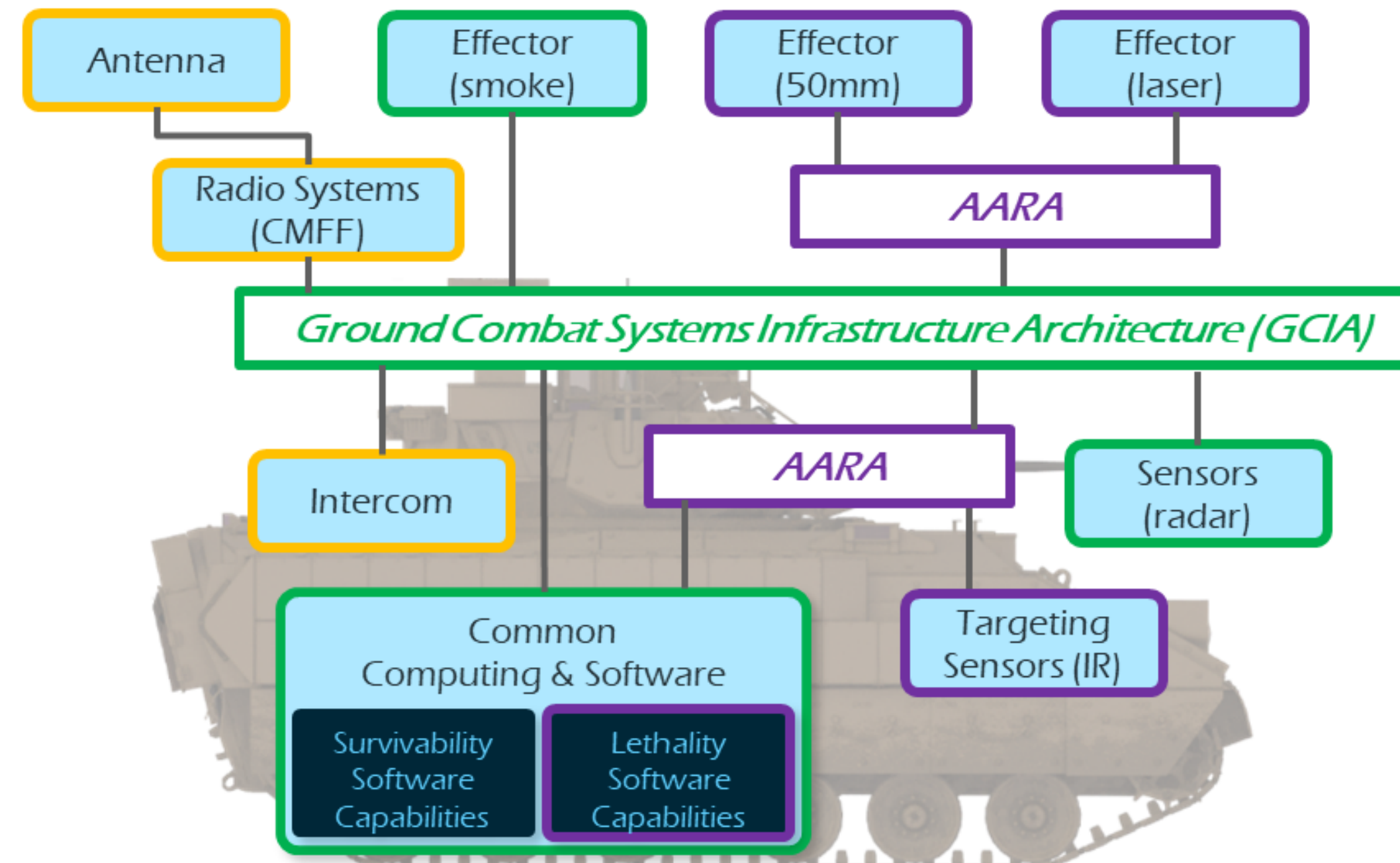
EXAMPLE CURRENT STATE

- Capabilities are subsystem focused
- Each subsystem brings end-to-end functionality dedicated to subsystem
- Complex integration with limited interoperability



EXAMPLE FUTURE STATE

- Sensors, processors, displays & effectors are shared
- Platform hardware choices based on desired abilities to physically sense, process, maneuver, communicate & deliver effects
- Software capabilities are continually added/updated



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Questions

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