



Future Land Forces 24



Spanish Army GBAD Transformation Plans

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Warsaw, 7th of November 2024

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Agenda



- “Army 35” Concept
- “Force 35” Transformation Project
- GBAD Transformation Plans
- C-UAS “CERVUS”
- Multirole Platform
- Conclusions
- Questions



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Army 35

Force 35

Logistic Base

Army 35

Digital Transformation

New Leadership



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Force 35

- Long-term planning project
- Coherent with other social changes
- Aim: To transform the Land Forces:
 - High-tech and modern platforms
 - Well prepared-motivated personnel
 - Flexible structure and procedures
 - All domains, all environments
 - Interoperable
 - First target: Brigade 35





Transformation Pillars





Main Armament Programs



8x8



CASTOR



CH-47 F



NH-90

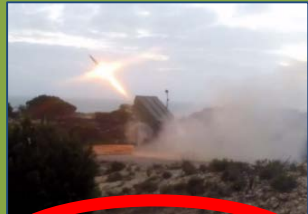


TIGRE MK-III



C-UAS

PROGRAMS INITIATED IN 2023



NASAMS 2+



SPIKE LR-2



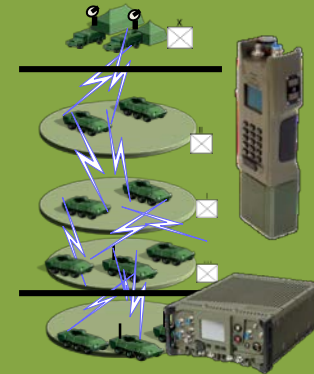
ROCKET LAUNCHER



MORTAR SYSTEM

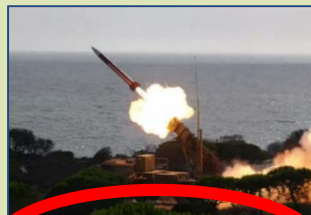


ARMORED SUPPORT VEHICLE

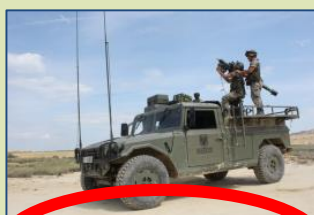


MC3 & SCRT

FUTURE PROGRAMS



PATRIOT 3+



MISTRAL III



SAM HP/HM



SELF PROPELLED ARTILLERY



SIRTAP



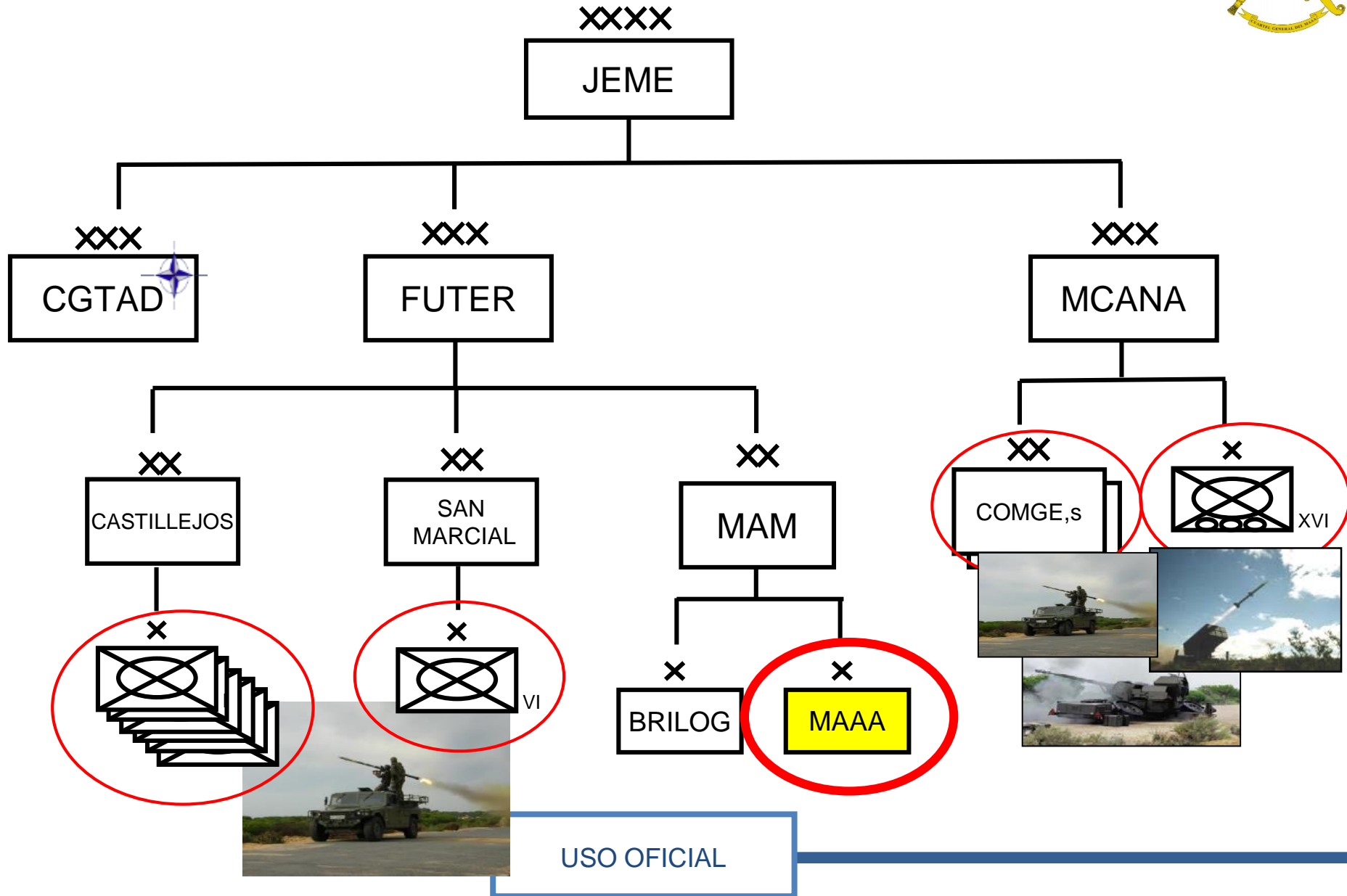
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AAD Organization 2024





MAAA Organization 2024





MAAA Capability 2024



1 PATRIOT Bn
(1 Bty TUR)



2 HAWK Bn



1 35/90 SKG Bn



1 NASAMS Bn
(1 Bty LVA)



1 35/90 SKD Bn



1 MISTRAL Bn



“ACTIVE FENCE” Operation



- Since 2015, six months rotation
- Patriot Battery size
- Provide Missile Air Defence to Adana area
- Endurance Patriot system
- Not only Patriot personnel => Specific training

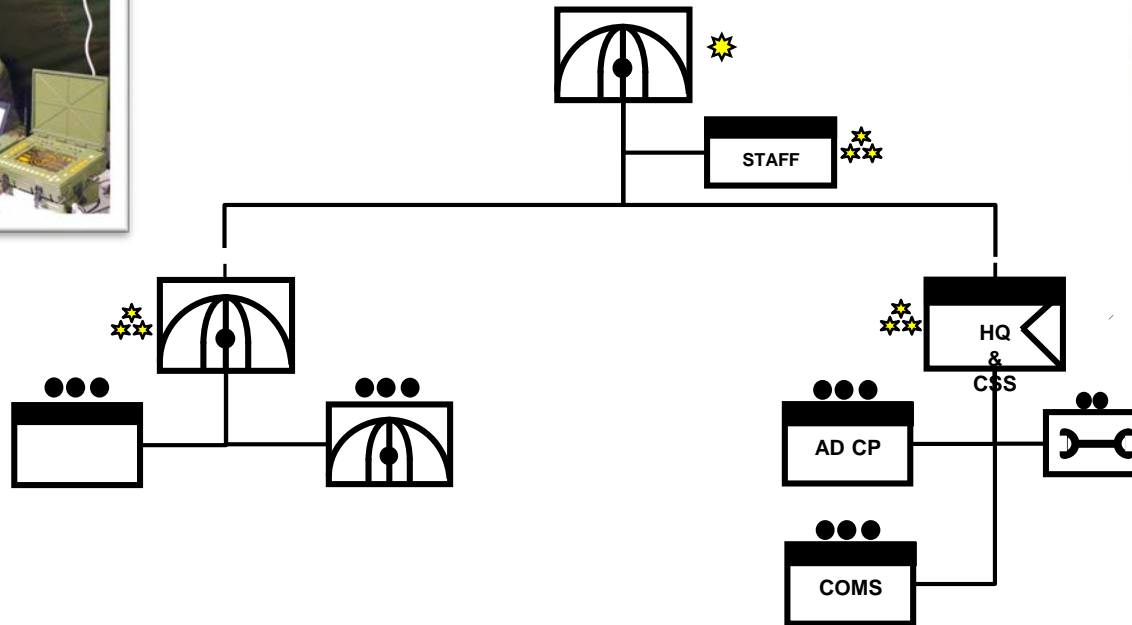




Latvia GBAD Spanish Unit



TASK ORGANIZATION





MAAA Tasks



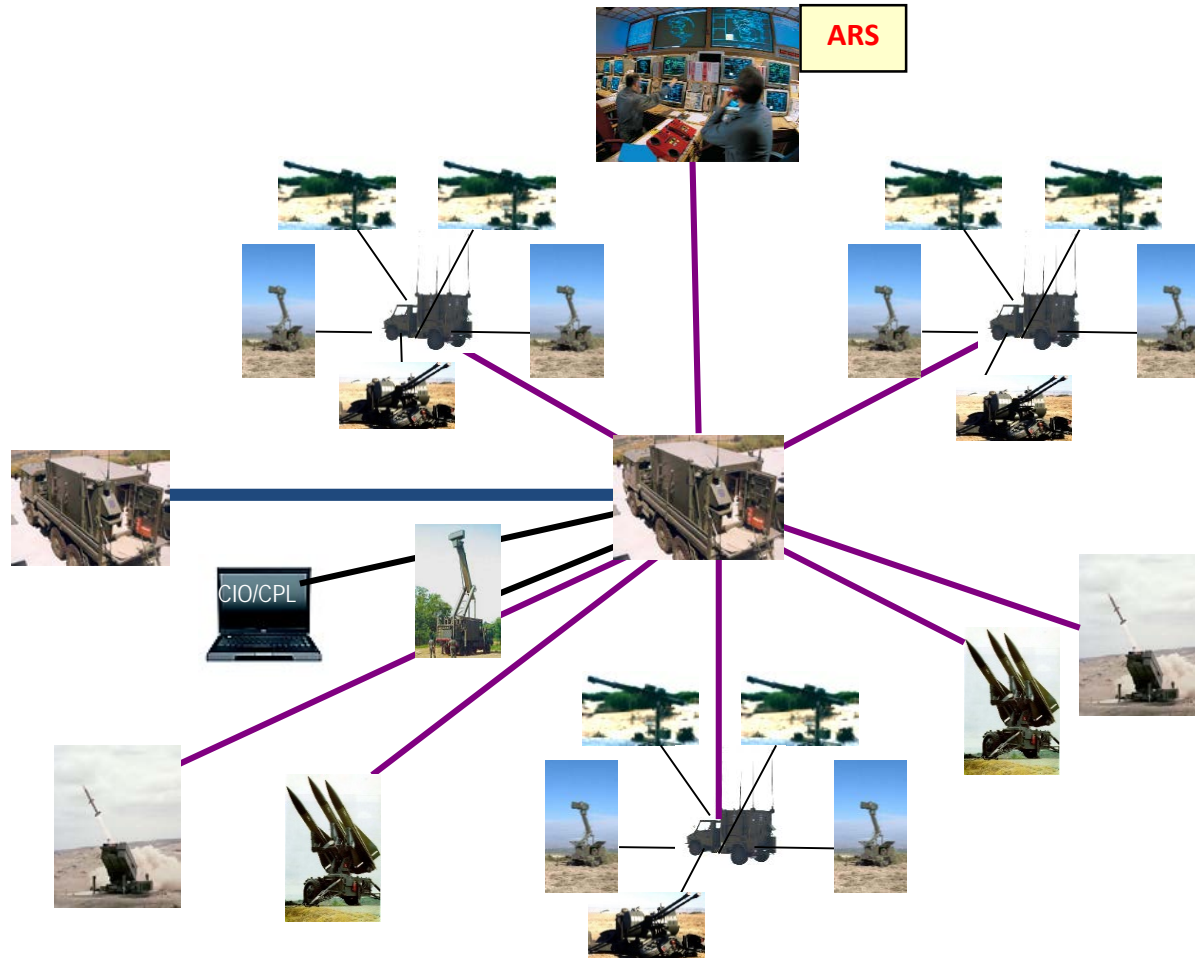
AIR DEFENCE OF LAND FORCES
AOAD

AIR DEFENCE OF CRITICAL ASSETS
SBAMD





FDC - COAAASM






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Future Spanish AAD



**FDC 2035
MULTIFUNCTION RADAR**

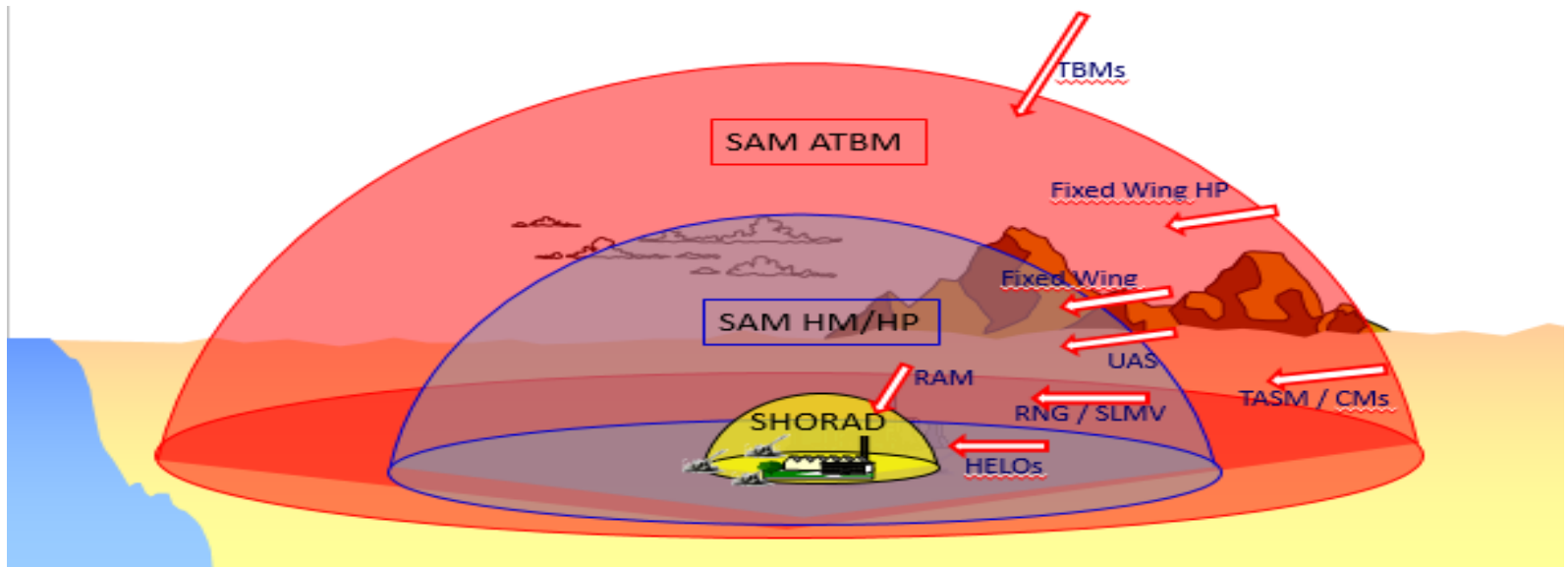
100km/25.000 m	PATRIOT 3+	
Large Range / Anti Missile		
40km/15.000 m	NASAMS 2+ AMRAAM ER	
Medium Range		
10km/5.000 m 4km/2.000 m	MISTRAL III	
Short/Very Short Range		



AD (ARMY 2035) CRITERIA

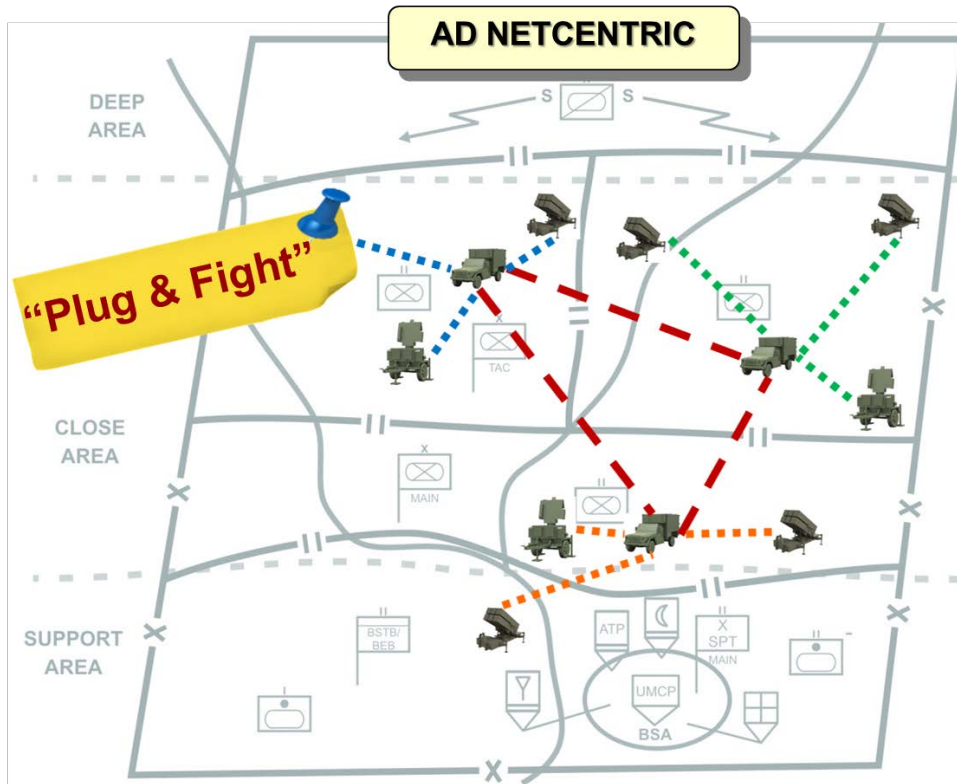


- **AD must be:**
 - Integrated system.
 - Executed to react against any threat.
 - By layers, complementary weapons / sensors.





AD (ARMY 2035) PRIORITIES



C2 IMPROVEMENT



FDC 2035



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Experimentation Plan



C-UAS SYSTEMS

ANTI-AIRCRAFT ASSETS

UAS



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Experimentation Plan

2023



2022

2021

PLEX-2020

SISTEMA EW C-UAS "CERVUS"
CERVUS 1.0

DETECCIÓN	IDENTIFICACIÓN	LOCALIZACIÓN SEGURIDAD	ABYTRALIZACIÓN
Análisis del espectro de radiofrecuencia	Procesado de vídeo / Dron cautivo	3.5 km → 7 km → 500 m	Reputa + Mateta + Marpack
500 m + 4 km			

Software de control e interfaz grafica del usuario

- DJI Aerocscope
- Instalación en estático

GPS L1: 1.2 GHz
GPS L2: 1.5 GHz
RF: 2.4 GHz
Video: 5.8 GHz

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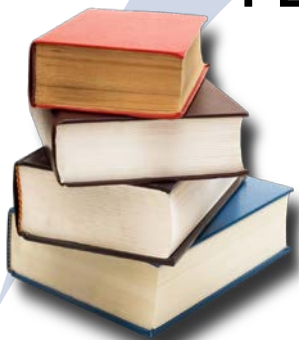
CERVUS II



CERVUS III

CERVUS I

PROJECT CERVUS



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CERVUS II



Current deployment in Latvia



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CERVUS III



Current deployment in Slovakia

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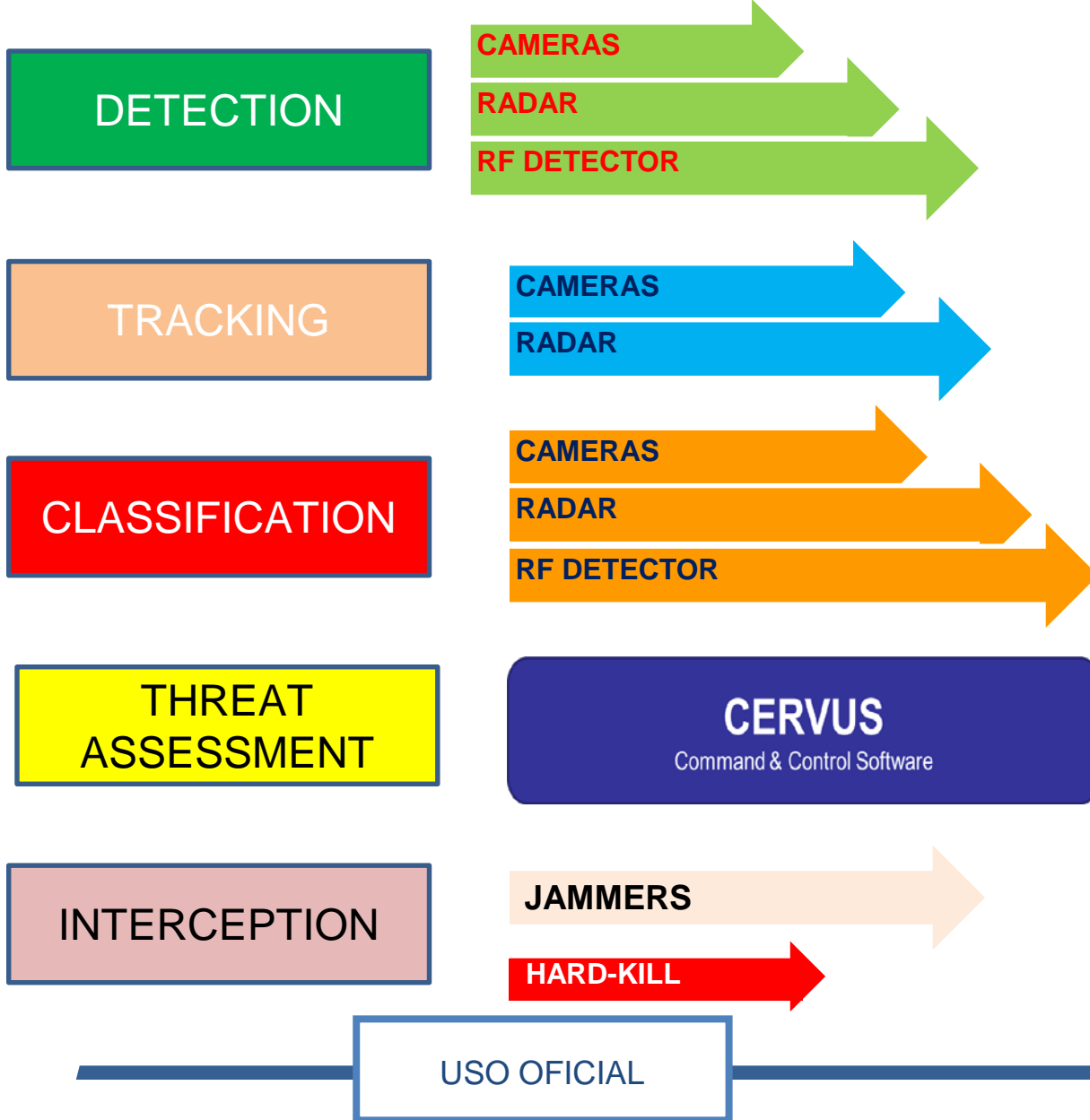
CERVUS III



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CERVUS III





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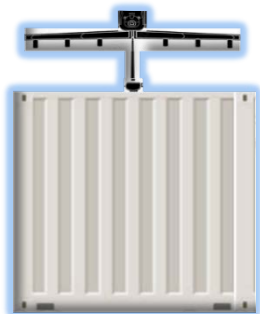
Multirole Platform

"Single platform for low and very low altitude air defense, integrated into the air defense system, with network capability and equipped with passive sensors, allowing it to combat and respond to any airborne threat, protecting operational organizations, areas, and/or vital points. To achieve this, it will have an associated armament 'suite' that will allow it to configure itself according to the mission to be carried out and the threat."

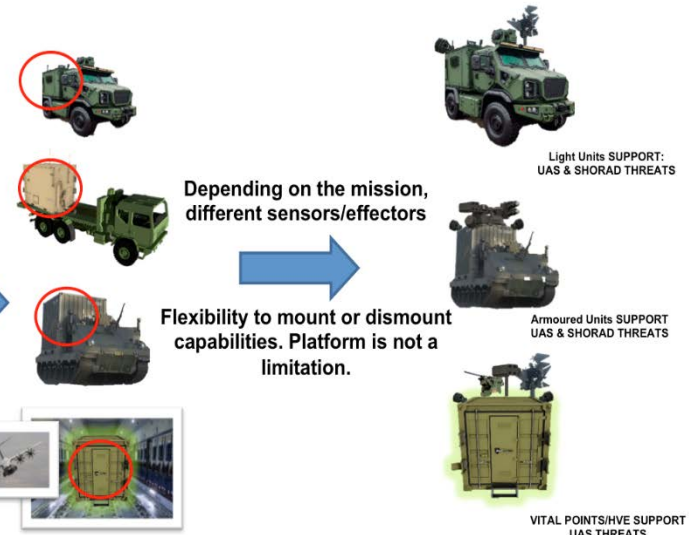


"The proposal of the AD Multirole platform for low and very low altitude pursues the principles of economy and mobility, aiming to shorten the development time to adapt to new threats while enabling standardization and mass production when necessary".

Depending on the mission, the "weapons storehouse" would be adapted (MULTI-ROLE)



"Weapons Storehouse"





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Conclusions



- **Army 2035** is based on innovation and must be able to evolve and rapidly adapt to technological changes.
- It constitutes a radical change in the doctrinal field, in the organizational structures, in the training system and centers, and especially in the development of leadership. It represents a profound cultural change.
- The future **COAAS 2035** will be the key element to achieve the integration and set in motion the concept of “network fires”.
- The project **CERVUS** is an example of successful cooperation with the national defence industry. Ready as modular and scalable C-UAS system.
- **Multirole Platform**: Medium-term vision for developing a system that responds rapidly to the evolution of any threat at low and very low altitude.



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