



MARINE CORPS SYSTEMS COMMAND
UNITED STATES MARINE CORPS



Assault Amphibious Vehicle (AAV) Information Brief

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Conference

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Briefing Agenda

- AAV Description, History, Operational Concept
- USMC AAV Future: Sustainment and Upgrade Strategy
- AAVC7A1 C2 Upgrade
- AAVS Upgrades



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AAV System Description

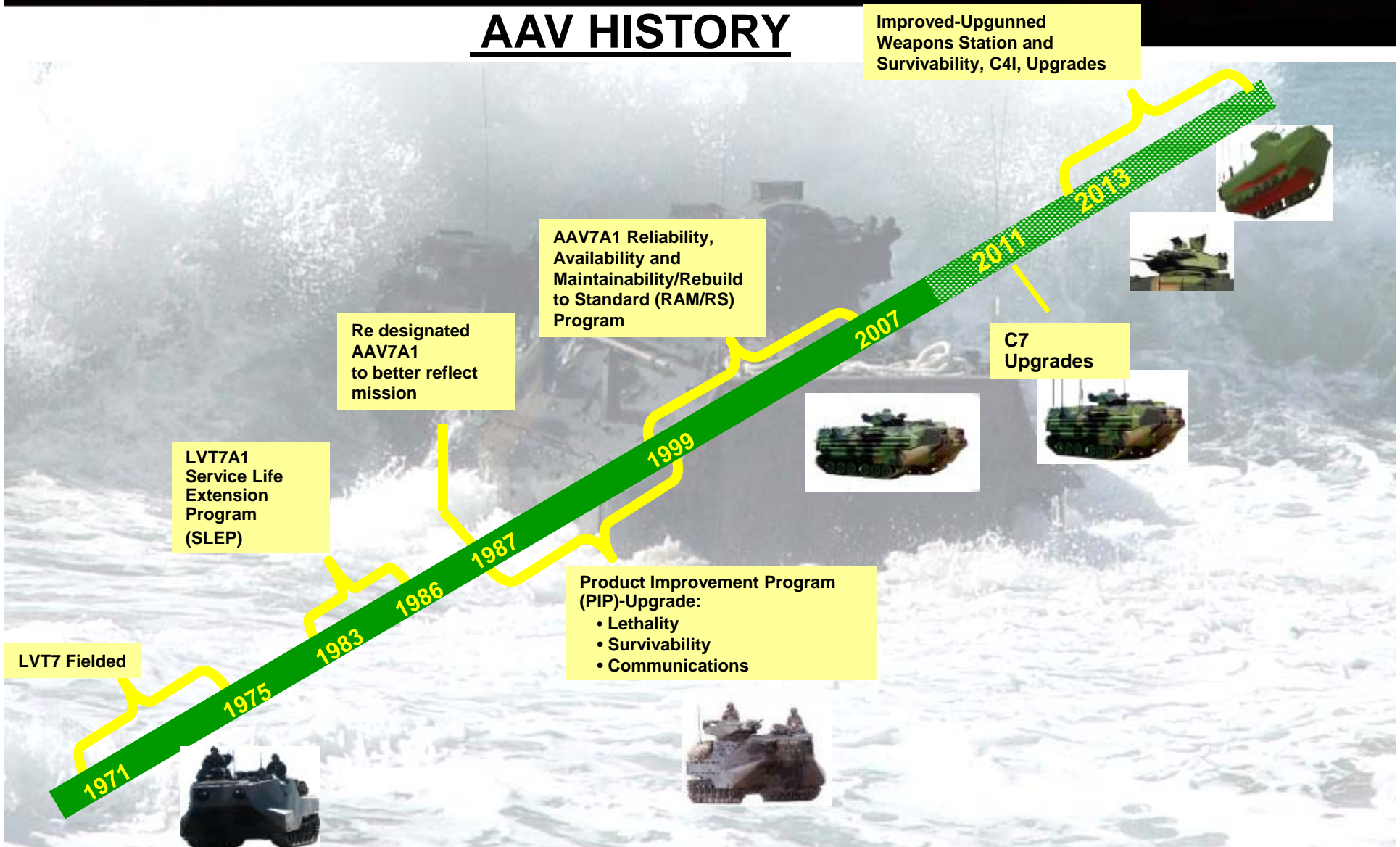
- Armored assault amphibious full-tracked landing vehicle.
- Three variants in the AAV FOV:
 - AAVP7A1 – Personnel
 - AAVC7A1 – Command
 - AAVR7A1 – Recovery
- Primary Means of Armored Protected Mobility to the Ground Combat Element.
- Mission Profile for 20% Operation in Water and 80% on Land.



• **Mission:** *To maneuver the surface assault elements of the landing force and their equipment from assault shipping during amphibious operations to inland objectives and to conduct mechanized operations and related combat support in subsequent operations ashore.*



AAV HISTORY





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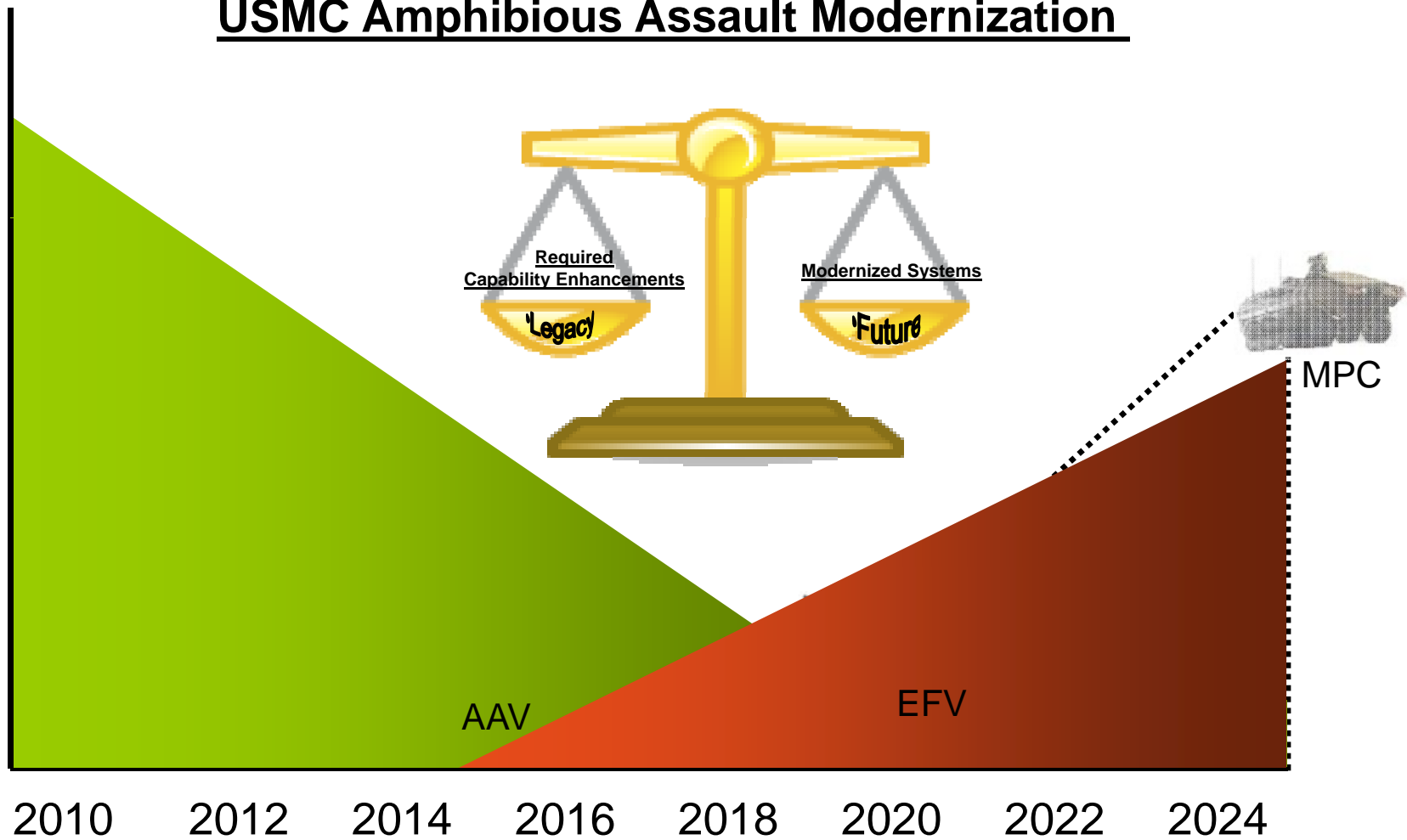


AAV Sustainment and Upgrade Strategy

- **Remain in USMC inventory until fully replaced by the Expeditionary Fighting Vehicle (EFV).**
- **Depot maintenance rotation (IROAN) to maintain operationally ready condition.**
- **Develop and field modifications/ECPs required to address issues related to safety, reliability, parts obsolescence and emerging requirements.**
- **Apply available capability enhancements to the current configuration to maintain platform viability.**
- **Provide system upgrades to the AAV FOV which will address critical capabilities gaps in the areas of weapons capability along with survivability, and C4I.**



USMC Amphibious Assault Modernization



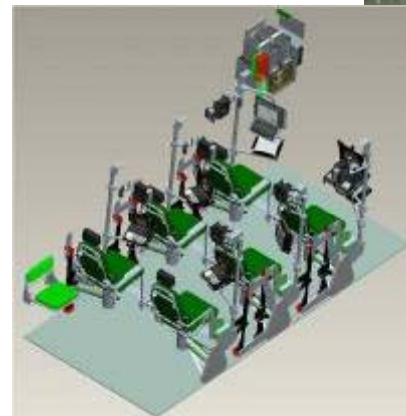


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AAVC7A1 C2 Upgrade

- Required operational attributes include:
 - Replace obsolete communications equipment and providing HF, VHF and UHF LOS and UHF SATCOM capability
 - Provide 6 functionally interchangeable staff work stations capable of hosting current MAGTF C2 applications
- Partnered with SPAWAR, Charleston for design, development, testing, and production/deployment





AAV Upgrades

Upgrades focus on the following areas:

Survivability

- Belly/Sponson Armor
- Shock/Blast Mitigating Seats
- Selected Location Spall Lining
- Improved fire suppression system
- CREW Integration
- Infantry Troop Compartment Weapons Mounts
- Situational Awareness Enhancement
- Deck Plate Treatment

C4I

- Tactical Radio Refresh
- Blue Force Tracking Integration
- Improved Intercom
- APU Integration
- Improved Drivers Display

Improved Up-gunned Weapons Station

- Ballistic computer
- Stabilized
- Laser Range Finder
- Thermal Sight

Improved Upgunned Weapons Station



Shock/Blast Mitigating Seats



Improved Driver's Display

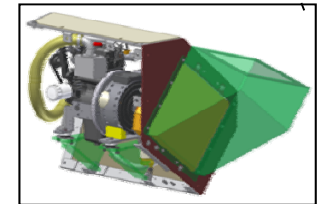
Infantry Troop Compartment Weapons Mount



CREW CVRJ



Belly and Sponson Armor Solutions



Auxiliary Power Unit



Blast Mitigating Bench Seats



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QUESTIONS ?