

2026 Modern Day Marine V-22 Osprey and the 2026 Marine Aviation Plan



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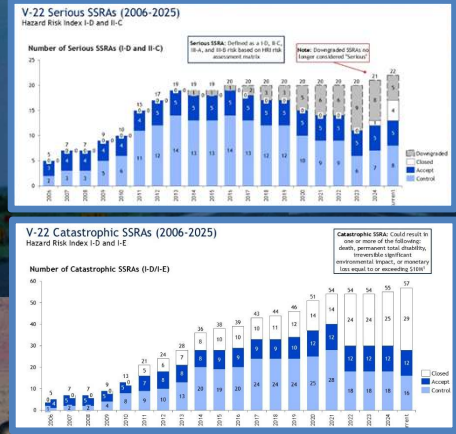
PMA-275 V-22 Joint Program Office: Relentlessly Ready, Reliable and Relevant

Decades of Risk Management

V-22 SAFETY REVIEWS

System Safety Risk

A measure of both the likelihood of a system failing and the potential consequence for the aircraft and crew.



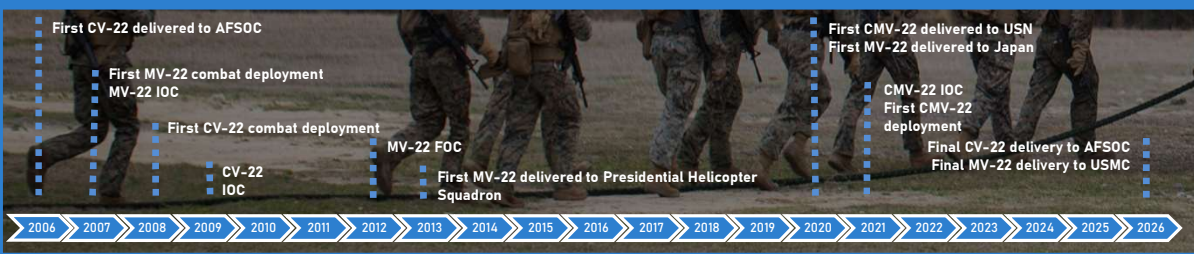
HOW V-22 RISKS HAVE BEEN ADDRESSED

- Risk avoidance through flight test**
 - 69 safety related deficiencies corrected
- Risk Downgrade/Elimination through aircraft improvement**
 - 176 safety-related hardware mods complete since 2006
 - 56 safety-related hardware mods in work
 - 72 safety-related software mods complete since 2006
 - 13 safety-related software mods in work
- Risk minimization through standardization**
 - Major flight manual updates released every 2-3 years
 - Interim flight manual updates released with new aircraft modifications
 - All changes validated by flight test for all three services



Since 2006

29 Catastrophic risks eliminated
 5 Serious risks downgraded
 ~50 unique safety analyses performed yearly



CURRENT RISK IDENTIFICATION PROCESSES



- 2001** V-22 Blue Ribbon Panel Drove a redesign of key aircraft systems and identified solutions for Vortex Ring State.
- 2009** GAO: V-22 OSPREY AIRCRAFT Assessments Needed to Address Operational and Cost Concerns to Define Future Investments Found that missions accomplished in Iraq despite operational and cost concerns.
- 2016** LMSI: V-22 Osprey Independent Readiness review Provided recommendations to improve the aircraft's readiness by addressing shortfalls in maintenance, parts availability, and aircraft configuration.
- 2019** DODIG: Evaluation of the V-22 Engine Air Particle Separator (EAPS) Assess adequacy of the EAPS to protect the V-22 engine while operating in desert environments.
- 2023** GAO: OSPREY AIRCRAFT Additional Oversight and Information Sharing Would Improve Safety Efforts Recommended an oversight structure to resolve known risks and to improve sharing of safety, maintenance data, and emergency procedures.
- 2025** NAVAIR: V-22 Comprehensive review Reaffirmed the V-22s Airworthiness while providing 32 recommendations to improve readiness and safety.



V-22 Osprey readiness through modernization



Initiatives that enhance safety, reliability, readiness, and operational capability to ensure platform relevance through the transition to Next Generation Assault Support aircraft. -2026 Marine Aviation Plan

Safety & Drive System Modernization

- Triple melt PRGB, Input Quill redesign, and ODSSHI sensors drive major risk reduction and predictive maintenance improvements.

Nacelle Improvement & Configuration Updates

- Full NI fielding from FY28 improves reliability; VFORCE reduces configuration variance across the fleet.

Improved Handling Qualities and Machine/Pilot Interface

- Flight Control Computer redesign, and avionics obsolescence (VeCToR).

Predictive Maintenance & Analytics

- Fleet-wide shift from reactive to AI enabled predictive maintenance; Aircraft Components Tracking System.





V-22 support of Distributed Aviation Operations (DAO)



DAO is Marine Aviation's central contribution to Expeditionary Advanced Base Operations (EABO) and the Corps' ability to operate inside contested maritime spaces.

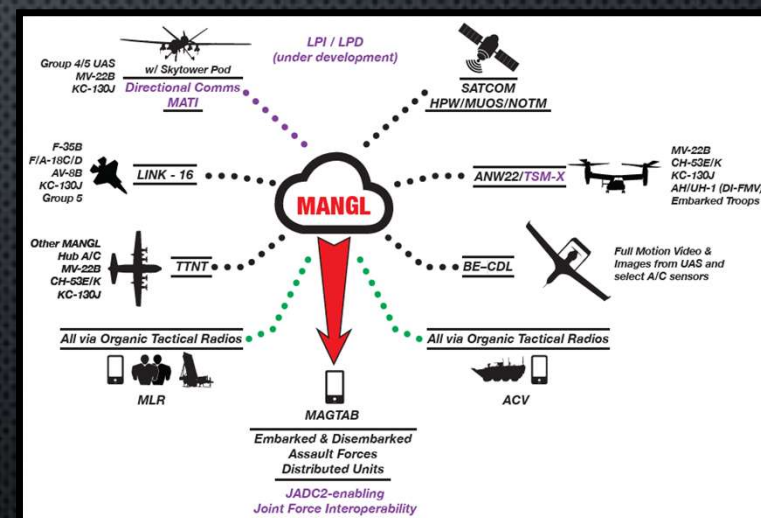
-2026 Marine Aviation Plan

Road so far - Cornerstone of the MAGTF

- Provides support to ground forces in multiple theaters of operation from expeditionary sites and afloat.
- 111 operational deployments and over 600,000 flight hours since Initial Operational Capability in 2007

Road ahead - Data as a warfighting capability

- Lead platform for DI/MANGL to bring on Link 16, CDL, ANW2, and TTNT
- proliferated low-Earth Orbit (pLEO)
- Shortened decision-making processes





Questions & Comments

