



MARINE AVIATION

Marine Aviation Advanced Rotor Technology Objectives

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Marine Corps S&T Objectives

Marine Aviation

- Marine Corps-unique expeditionary maneuver warfare capabilities and naval character drive our future warfighting enhancements
- AVN STO 3: Advanced rotor/prop technologies for performance across wider envelope
 - Rotor/Prop as a component of assault support propulsion as well as tactical UAVs will continue for the foreseeable future. As rotorcraft/helicopters (MV-22/VUAV) requirements grow in terms of hover load and harsh environments (heat), as well as top-end speed (i.e. MV-22 escort), advanced rotor performance enhancement (dynamic blade shaping) will garner performance as well as efficiency (fuel/load savings).
- Desired Common threads for future rotor design:
 - Improved performance
 - Speed
 - Payload
 - Maneuverability
 - Survivability (ballistic tolerance)
 - Increased supportability/maintainability
 - Blade fold required for shipboard ops
 - Reduced drag
 - Reduced life cycle costs
 - Reduced vibration
 - Reduced weight
 - Reduced noise





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Questions?



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