Problem Statement

• Current multi-vehicle system architectures support neither meaningful operator oversight nor rapid capability development

• Proposed Solution
  – Improved fidelity of physically-based simulation models
  – Faster-than-real-time simulation supporting more exhaustive testing
  – Mission-focused, top-down capability development

Impact

• Autonomy M & S
  – Improved fidelity of physically-based simulation
    • Simulation results more likely to align with real world
    • Realistic mixed live/virtual experimentation
  – Faster-than-real-time simulation
    • More exhaustive testing (e.g., Monte Carlo)

• Autonomy in Context
  – Top-down, composable capability development
    • Allows both developers and operators to focus on mission
    • Facilitates effective operator oversight

Transition

• Potential Follow on Sponsors
  – Office of Naval Research
  – Marine Corps Warfighting Laboratory

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