

Maritime Domain Awareness Multi-Medium

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MDA Operational Reality

U.S. Coast Guard MDA, NATO MDA, emerging Indo-Pacific MDA initiatives, and emerging commercial maritime-monitoring (Spire, HawkEye 360, Planet) operate cross-modality and cross-jurisdiction.

Emerging maritime-threat conditions (IUU fishing, sanctions-evasion shipping, hybrid maritime threats) intensify coordination complexity.

Multi-Medium Substrate

Each MDA contributor (satellite, aerial, surface, underwater, and emerging commercial sensor sources) contributes credentialed observations across modalities. Cross-agency, cross-coalition, and emerging cross-jurisdiction commercial-MDA all admit through declared federation.

MDA Modernization Trajectory

Indo-Pacific MDA initiatives, emerging climate-MDA integration, emerging dark-vessel detection frameworks all benefit from architectural multi-medium substrate.