

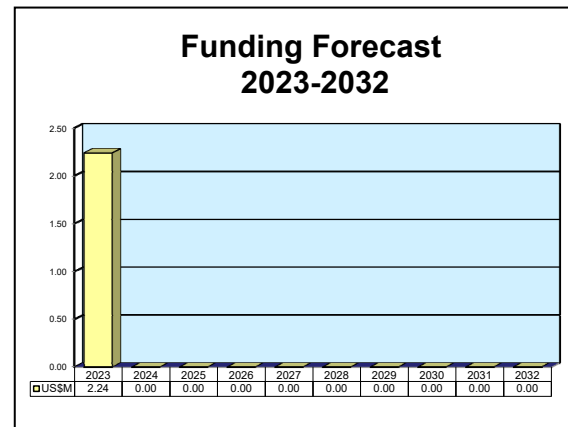
ARCHIVED REPORT

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FORCEnet

Outlook

- Funding cut after 2023 as part of a larger reduction in Naval information warfare and architecture programs
- The findings from FORCEnet are likely to be incorporated into other projects
- The future of the project is unknown



Orientation

Description. FORCEnet is a U.S. Navy and Marine Corps initiative to develop technologies that integrate sensors, weapons, warfighters, command & control systems, platforms, and commanders into a networked combat force.

FORCEnet is a foundation of Sea Power 21, which is the naval operating concept (NOC) for joint operations, and the Department of the Navy's Naval Transformation Roadmap.

Sponsor
 U.S. Navy
 Washington, DC

Status. Ongoing research and development.

Application. Network-centric warfare.

Contractors

Prime

Science Applications International Corp (SAIC)	http://www.saic.com , 12010 Sunset Hills Rd, Reston, VA 20190 United States, Tel: + 1 (730) 676-4300, Program Participant (FORCEnet)
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Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 75 Glen Road, Suite 302, Sandy Hook, CT 06482, USA; rich.pettibone@forecast1.com

FORCEnet

Technical Data

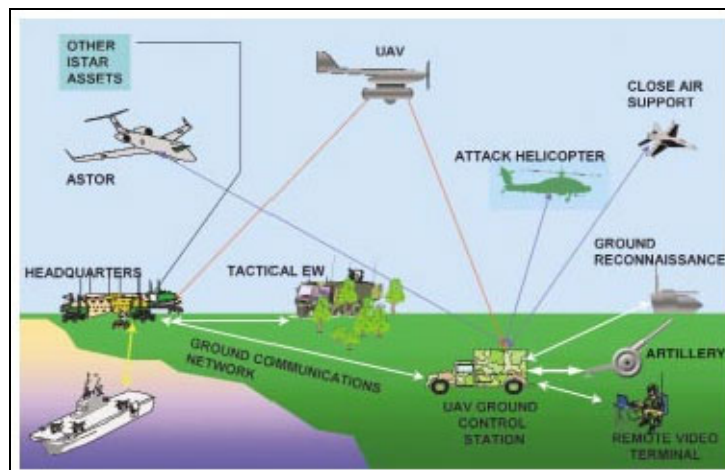
The FORCEnet project of the U.S. Navy and Marine Corps is part of Program Element #0604231N Tactical Command System. FORCEnet is a foundation of Naval Power 21 and the supporting Sea Power 21, which is the naval operating concept (NOC) for Joint Operations, and the Department of the Navy's Naval Transformation Roadmap.

The FORCEnet project funds the following efforts:

1. The Information Warfare (IW) Portfolio Health Assessment (PHA): Funding for this effort supports PHAs of Navy mission areas and identifies gaps in

IW capabilities in the context of assessed mission areas. Funding further supports vignettes, technical baselines, architecture products, and briefings developed to support "sponsor decision-making processes."

2. Establishment of the DWO: The Chief of Naval Operations concurred with the Task Force Netted Navy recommendation to stand up the Digital Warfare Office (DWO) to set requirements, prioritize resources, and lead efforts on information interoperability and human/machine teaming.



FORCEnet is a U.S. Navy R&D project.

Source: U.S. DoD

Program Review

FORCEnet began in FY03, when efforts were made to develop strategic planning and accelerate joint warfighting capabilities. Additionally, R&D was conducted for a classified effort called "Osprey Hawksbill."

Focus later shifted toward cybersecurity, with particular attention on identifying gaps in U.S. Navy capabilities. The project also provided analytical support that ensured that cybersecurity risk assessments and engineering activities were informed by Navy cybersecurity situational awareness (NCSA) capabilities as addressed by the PHA.

In FY17, the FORCEnet project began to study U.S. Navy mission areas in support of "system of systems" engineering assessments. These assessments identified integration and interoperability gaps and solutions for "sponsor-related equities."

This project will be ongoing through FY25. There are five primary plans for the project:

1. Expand upon system of systems (SoS) mission engineering.
2. Utilize and study Navy mission areas in support of SoS engineering in order to identify means of integration.
3. Identify Navy mission area gaps in information warfare.
4. Assess tradespace and solutions that ensure force level capability and SoS integration in studied mission areas.
5. Collect these assessments in such a way as to support decision-making processes based on their findings.

Funding

	U.S. FUNDING							
	FY21 <u>AMT</u>	FY22 <u>AMT</u>	FY23 <u>AMT</u>	FY24 <u>AMT</u>	FY25 <u>AMT</u>	FY26 <u>AMT</u>	FY27 <u>AMT</u>	FY28 <u>AMT</u>
RDT&E (U.S. Navy)								
PE#0604231N Tactical Command System Project 9123 FORCEnet	2.141	2.218	2.237	0	0	0	0	0

All \$ are in millions.

Source: U.S. Department of the Navy FY23 budget document

Contracts/Orders & Options

No contracts valued over \$5 million have been specifically identified for this project.

Worldwide Distribution/Inventories

FORCEnet is a U.S. Navy and Marine Corps project.

Forecast Rationale

FORCEnet is a U.S. Navy and Marine Corps effort that develops technologies to integrate sensors, weapons, warfighters, command & control systems, platforms, and commanders into a networked combat force that operates from the seabed to space and from sea to land. It is a foundation of Sea Power 21, which is the naval operating concept (NOC) for joint operations, and the Department of the Navy's Naval Transformation Roadmap.

FORCEnet began in 2003, when plans were made to develop strategic planning and accelerate joint warfighting capabilities. Additionally, R&D was conducted for a classified effort called "Osprey Hawksbill."

Focus later shifted toward cybersecurity, with particular emphasis on identifying gaps in U.S. Navy capabilities.

The project also provided analytical support that ensured that cybersecurity risk assessments and engineering activities were informed by Navy cybersecurity situational awareness capabilities as addressed by the Navy.

The FORCEnet project is seeing a restructuring in the coming years. Currently, the project is focusing its efforts on supporting Portfolio Health Assessments. However, after 2023, the project funding will be eliminated as part of a naval information warfare and architecture "vertical reduction." The future of the project thus remains unknown, but given the growing need for cybersecurity, it is unlikely to remain unfunded. If nothing else, the project will be folded into another information warfare project.

FORCEnet

Ten-Year Outlook

ESTIMATED CALENDAR YEAR RDT&E FUNDING (in millions US\$)												
Designation or Program		High Confidence				Good Confidence			Speculative			
	Thru 2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
MFR Varies												
FORCENET <> United States <> Navy												
	169.20	2.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.24
Total	169.20	2.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.24