Department of the Navy SBIR/STTR Transition Program
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Topic # N201-X02
Adapting SRT's M1 Hardware Portal for Navy Facility Health Monitoring and Prioritization
Service Robotics & Technologies, Inc.

WHO

SYSCOM: ONR/DON

Sponsoring Program: Office of Naval Research

Transition Target: NAVSEA Naval Shipyards, Maintenance Depot for the Marine Corps (MDMC), Naval Facilities Engineering Systems Command (NAVFAC)

Other Transition Opportunities: Naval Supply Systems Command (NAVSUP), USMC Logistics Command (MARCORLOGCOM), NAVAIR Fleet Readiness Centers (FRC)

Notes: SRT Labs has developed the M1 Platform, a Mission Control Center for monitoring facility health and critical infrastructure systems. Our patented software pulls data from deployed sensors across otherwise siloed infrastructure systems into a common data management ecosystem and performs cross-platform data analytics. This hardware-agnostic platform provides wide-ranging facility insights to ensure critical infrastructure is properly maintained, downtime is minimized, and cross-platform insights are used to optimize operational processes.
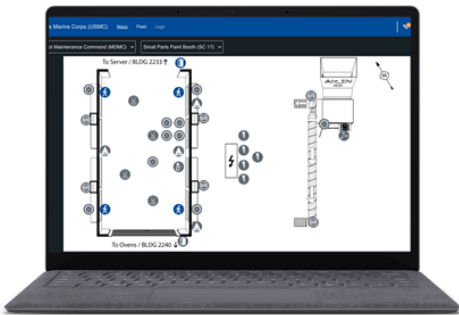
Machine Monitoring Example, SRT

WHAT

Operational Need and Improvement: The Navy and Marine Corps seek modern tools, solutions, and processes to reliably and safely get assets operational as quickly as possible and intends to collaborate with innovative small businesses. The Department of Defense infrastructure has been successful because of maintenance of existing systems and consistent utilization of new technologies. The need is cross-platform cooperation of infrastructure, bringing necessary legacy infrastructure into shared data ecosystems with sensors and intelligence, allowing for greater information to support decision-making.

Specifications Required: The Navy and Marine Corps are looking to reduce downtime of critical base infrastructure, especially in maintenance depots and machine shops supporting warfighter operations. Facility teams seek an integrated condition monitoring system that will be able to track real-time health status of their infrastructure, identify and prioritize areas for maintenance, and predict probable failure areas.

Technology Developed: SRT Labs has developed a software platform to optimize facility and critical infrastructure systems, allowing leadership to monitor, analyze and remediate across platforms. We specialize in the development of an integrated, hardware-agnostic software ecosystem that ties together industrial sensors, infrastructure controllers, Internet of Things (IoT) devices, and robotic platforms. This M1 Platform provides operations teams with real-time insight into all aspects of their building operations across utilities, environmental conditions, machine health, and infrastructure systems. SRT Labs has demonstrated our software across 13 Navy and Marine Corps deployments monitoring dry docks, pump wells, paint booths, blast booths, machine shops and other maintenance infrastructure areas.

Warfighter Value: SRT's software will modernize legacy infrastructure by providing real-time predictive alerting in a modern and secure IL4/IL5 cloud environment. SRT Labs has worked with the DOD to establish how infrastructure monitoring reduces maintenance shops downtime and provides actionable information to adjust workflow. By leveraging SRT's ecosystem, the integration of existing legacy infrastructure alongside the deployment of modern sensors and SRT's predictive analytics module, SRT's system can profoundly improve operational efficiencies, optimize maintenance requirements, and streamline reporting of machinery operations.

WHEN

Contract Number: N64267-23-C-0004   **Ending on:** Aug 25, 2025

Milestone	Risk Level	Measure of Success	Ending TRL	Date
NSF SBIR funded initial platform capabilities	N/A	Devices Share Data in a Common Ecosystem	4	2nd QTR FY18
Navy Phase 1 project prepared for specific DoD applications	N/A	Simulation of data environment to demonstrate meets USMC needs	5	1st QTR FY21
Navy Phase 2 Base project led to first DoD deployment	Low	Deployed Fully Integrated System and Detected Off-Nominal Conditions	9	1st QTR FY22
Navy Phase 2 Option 1 project will include 4 additional deployments	Low	Demonstrate cross functional applications at multiple sites	9	4th QTR FY22
Navy Phase 2 Subsequential project will include 7 additional deployments and transition all existing deployments to IL4/IL5 cloud environment	Low	Successful cloud-based monitoring and management of all existing deployments	9	4th QTR FY25

HOW

Projected Business Model: SRT's M1 Platform is a software framework for integration of new and existing, building automation systems, industrial controllers, connected sensors, legacy infrastructure, and enterprise software. SRT's modular software allows for rapid standup and deployment of systems licensed to end users with consultative customization and annual software maintenance contracts. SRT Labs engages in both direct sales through our SBIR Phase III contracting mechanism and working through Prime contractors. SRT's commercial traction for facility health monitoring is currently deployed in commercial real estate, higher education and municipal infrastructures.

Company Objectives: The Navy and Marine Corps maintain extensive critical infrastructure across the US and around the world. Maintenance and management of this infrastructure falls to facility managers, who seek an integrated facility health monitoring system that will be able to track real-time health status of buildings, identify and prioritize areas for repair, and predict where future failures to their critical infrastructure may arise. SRT Labs will continue to work with localized deployments that support these operations teams, while highlighting the capability to assess and investigate data from across locations easily, thereby providing information to support DON decision-making across their fleet.

Potential Commercial Applications: SRT Labs has demonstrated its capability to align with commercial applications, including warehouse logistics and asset management, remote monitoring to reduce manual inspection, low power mode for buildings to distribute power to most essential infrastructure, performance monitoring of motors to proactively schedule condition-based maintenance, enterprise-level integration of data and legacy software, and multi-robot fleet control.

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