RACING TOWARDS RAPID SUSTAINMENT SOLUTIONS



Commercial Technologies for Maintenance Activities (CTMA)

CTMA is a partnership between the Office of the Deputy Assistant Secretary of Defense for Materiel Readiness (ODASD-MR) and the National Center for Manufacturing Sciences (NCMS)

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What is CTMA?

For over 25 years, the CTMA program, operated by NCMS, has provided a streamlined and agile non-FAR-based contracting vehicle.

CTMA enables DOD partners to collaborate with industry and academia, aimed at solving specific maintenance and sustainment (M&S) challenges. Through CTMA projects, technology developed by industry and academic partners can be demonstrated, evaluated, and validated. thereby helping to implement innovative technologies that support the DOD's most critical M&S needs.

Through CTMA, the DOD can leverage our trusted network of technology experts to apply state-of-the-art solutions, including advanced data analytics and digital enterprise, to maximize our warfighters' readiness.

Technology Focus Areas CTMA initiatives can target any of the following nine M&S areas: • Advanced/Additive Manufacturing • Business IT and Analytics • CBM+/Predictive Maintenance Coating and Corrosion Prevention • Energy, Environmental, Health, and Safety • Enhanced Inspection • Facilities and Industrial Process Modernization Reliability Improvement (Hardware) Workforce Development/Visualization

As CTMA programs's goals are fully aligned with the goals of the DOD's Maintenance Innovation Challenge, NCMS is a proud partner of this event.

Funding Stream

NCMS Builds Collaborative

Partnerships

NCMS Project

Development

How CTMA Works

DOD Needs & Technology Implementation Requirements Validated Technology Benefits **The CTMA Contract Vehicle**

NCMS Led Demonstration



The CTMA Value

The CTMA process offers great benefits for all participants.

DOD Benefits

 Advanced technologies that improve military capabilities Testing and evaluation of technologies prior to acquisition Reduced cost of R&D through leveraging and cost-sharing • Streamlined contracting and cost accounting Access to industry and academic expertise and knowledge

Partners Benefits

 Access to DOD facilities and equipment • IP protection guaranteed by cooperative agreement • Reduced time between innovation and commercial production

 Opportunities to commercialize inventions Opportunities to enhance DOD preparedness & corporate objectives

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THE CTMA RACETRACK

COME SEE US IN PIT STALL #433







CTMA Contract Vehicle

The only cooperative agreement that focuses solely on maintenance and sustainment.

CTMA Project Formation

NCMS works to execute initiatives focused on maintenance and sustainment, public good, and multi-service involvement.

ODASD-MR

NCMS partners with ODASD to align efforts across the enterprise and maintain materiel readiness.



CTMA Project Teams

Work together to evaluate, validate, and implement innovative capabilities resulting in benefits to DOD and maintenance and sustainment community.

Project Management

NCMS project managers are experienced and connected to the DOD maintenance and sustainment communities.

NCMS Network

Through a network of industry partners, academia, and outreach activities. NCMS seeks and finds the needed technologies for collaboration.

Maintenance Innovation Challenge (MIC)

NCMS is pleased to support the MIC by providing \$50,000 to both the Overall MIC Award winner and the People's Choice Award winner.

NCMS has a long-standing interest in the MIC, as it provides a wellspring of innovative capabilities that can be implemented throughout the DOD.



Debbie Lilu, Executive Vice President of MX and Sustainment, Business Development, and CTMA Program, NCMS. debbie.lilu@ncms.org or 734-262-0758





NCMS CONTACTS

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UPCOMING EVENTS

JANUARY 21 st -23 rd 2025	NCMS Technology Showcase: Pearl Harbor Naval Shipyard	LOCATION HONOLULU, HI
FEBRUARY 25 th -27 th 2025	NCMS Sustainment Accelerator: US Naval SRF and Japan RMF	LOCATION YOKOSUKA, JAPAN
APRIL - MAY 30th-1 st 2025	Expeditionary Maintenance	LOCATION LITTLE CREEK, VA
JUNE 16 th -18 th 2025	CTMA Partners Meeting	LOCATION JACKSONVILLE, FL

NCMS MISSION

The National Center for Manufacturing Sciences (NCMS) is a cross-industry technology development consortium, dedicated to improving the competitiveness and strength of the US industrial base. As a member-based organization, it leverages its network of industry, government, and academic partners to develop, demonstrate, and transition innovative technologies efficiently, with less risk and lower cost.

NCMS enables world-class member companies to work effectively with other members on new opportunities—bringing together highly capable companies with providers and end users who need their innovative solutions. NCMS members benefit from an accelerated progression of idea creation through execution. Through NCMS, companies with innovative technologies can collaborate with end users and develop solutions to meet their requirements. Coupled with our collaborative power to partner small R&D companies with top-tier OEMs, the results are innovations and opportunities to develop and refine and provide user-centric solutions.

NCMS was formed in 1986 to strengthen North American manufacturers and respond to global competition. The balance between long-standing experience and fresh innovation requires a unique intersection of highly capable companies, access to efficient, effective contracting vehicles and relationships built on credibility and trust.

CBM+/PREDICTIVE MAINTENANCE



TRIDENT SYSTEMS, LLC

Predictive Maintenance & Logistics (PM&L) Family of Systems (FoS)



in Trident Systems, a LightRidge Solutions Company

Trident Systems delivers innovative and affordable technology solutions to support mission critical government and commercial needs. Trident's portfolio of product solutions includes: a handheld tactical voice bridge, unattended ground sensors and integrated surveillance systems, shipboard wireless access points, and tactical vehicle / vessel health monitoring and prognostics solutions.

Contact

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Problem

As all branches of the DOD grapple with the need to sustain both legacy and new platforms in contested environments, the ability to proactively identify and prioritize current and future failures will be a key enabler of future sustainment. The DOD must balance modernizing fleets with maintaining legacy fleets in a flat budgetary constrained environment and reduced operations and maintenance funding. It is likely that in this budget environment the Army will have to rely on legacy fleets well into the future. The challenge is maintaining readiness levels with aging vehicles. The Army must also ensure that as new, more complex, capabilities are fielded, preventive/predictive maintenance tools are available to assist in maintaining operational readiness. Regarding modernized vehicles, the systems are so complex and/or some of the vehicle fault codes are proprietary to the OEM.

NMANNED PLATFORMS

Technology Solution

Trident's PM&L FoS provide automatic data collection and analysis for tactical platforms, enabling Condition Based Maintenance Plus (CBM+). Data are collected through on-platform sensors or through provision of sensors to target problems of interest to platform owners. This allows for decreased repair time, increased visibility into the health of forward deployed platforms, increased specificity to support maintenance operations, and a reduction of repairs and down-time. The systems enhance a platform's operational availability while decreasing total ownership cost.

Benefits

Trident's PM&L Family of Systems provide an ability to detect and predict failures, proven over hundreds of thousands of operating hours on 1000+ platforms. They enable the on and off-board analysis of data to assist in prioritizing maintenance efforts and conducting predictive analysis to support CBM+ / Predictive Logistics efforts. The technology also boasts a significant cost savings over competing technologies, allowing the DOD to equip more vehicles with the technology.



LASER PHOTONICS

DefenseTech Handheld Laser Cleaning System



Laser Photonics is the leading industrial brand in high-tech laser systems for laser cleaning, marking, cutting, engraving, welding as well as 3D printing applications. Our products have been used in defense, aerospace, nuclear power, and manufacturing industries. We have also been utilized in the automotive, electronic, semiconductor, flat panel, and medical industries worldwide for over 40 years. Our laser solutions are critical for enabling environmental sustainability, cost savings, efficiency and precision, and operator safety. Our brand is proud to pioneer a new generation of disruptive laser cleaning technologies that include corrosion control, rust removal, de-coating, pre- and

post-weld applications, welding, laser cleaning, surface conditioning, and more, all while reducing environmental hazards and increasing workplace safety.

Contact

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Problem

Corrosion costs the Department of Defense over \$20B in military assets every year. Amid growing environmental concerns, the DOD is under pressure to adopt sustainable supply chain practices, including eco-friendly cleaning products and waste reduction. Traditional methods like sandblasting and chemical cleaning expose personnel to hazardous chemicals and pollutants and involve costly consumables that require increased environmental and workplace health and safety regulations.

Technology Solution

- Laser surface treatment can provide an alternative maintenance solution that efficiently removes corrosion, ensuring the preservation and extension of the lifespan of critical military assets.
- Non-abrasive and non-contact cleaning method minimizes harm to the environment while prioritizing the health and safety of personnel involved in maintenance operations.
- Its portable, handheld design ensures mobile performance, allowing military and defense personnel to maintain readiness anywhere, anytime.

Benefits

- DefenseTech Laser Cleaning Systems provide an alternative, environmentally friendly process that removes rust, corrosion, and coatings from various surfaces without damaging the underlying substrate, ensuring prolonged equipment life and operational readiness.
- No chemicals or hazardous fumes.
- No complex cleaning procedures.
- Cost-effective maintenance.
- Portable use in various stationary or expeditionary environments.

ENHANCED INSPECTION



HEXAGON

Hexagon - Portable Scanning, Probing, NDT/ NDI, and much more



<complex-block><image>

Hexagon Manufacturing Intelligence 🔘 hexagon_mi

Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications. Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous - ensuring a scalable, sustainable future. Hexagon's Manufacturing Intelligence division provides solutions that use data from design and engineering, production and metrology to make manufacturing smarter. For more information, visit hexagon.com/mi.

Contact

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Problem

When it comes to precision measurement, industry professionals face the challenge of requiring multiple devices to perform a variety of quality assessments, from non-destructive testing (NDT) to laser scanning and probing. This not only complicates the workflow but also escalates costs and training requirements. The need exists for a singular, versatile system that can seamlessly transition between NDT, high-resolution laser scanning, and precise probing without sacrificing accuracy, efficiency, or functionality.

Technology Solution

A multifunctional tool like Hexagon's Absolute Arm could resolve multi-tool complexities by consolidating quality assessment needs into one integrated solution, thereby optimizing the quality control process.

- 3D scan using the Absolute Scanner on small to large objects with Hexagon's AS1 and AS1-XL made for the Absolute Arm.
- NDT capabilities, when integrated with Hexagon's Absolute Arm, offer unparalleled precision in flaw detection across various materials. From metals to composites, this technology detects minuscule defects and adheres to strict industry standards, ensuring the utmost quality in your materials.

Benefits

NDT Sensor

- For most metals: Capable of resolving volumetric flaws of 0.5mm and smaller, and compliant with most codes: ASTM, ASME, etc.
- For most welds: Capable of resolving through-wall extensions of 5-10%T and compliant with most codes: ASTM, ASME, AWS, EN/ISO, API.
- For most composites: CFRP / GFRP, and easy to resolve 2.5mm flaws (and smaller).

AS1 / AS1-XL Absolute Laser Scanner

• Complete digitizing from small to very large parts.

ENHANCED INSPECTION



SKYDIO

Autonomous Drones



in Skydio 🛛 SkydioHQ 🗗 Skydio 🞯 SkydioHQ

We are the leading US drone manufacturer and world leader in autonomous flight. We leverage breakthrough AI to create the world's most intelligent flying machines for use by consumer, enterprise, and government customers.

Founded in 2014, our team is made up of leading experts in AI, robotics, cameras, and electric vehicles from top companies, research labs, and universities from around the world.

We take our responsibility as America's leading drone manufacturer seriously. We design, assemble, and support our products in the US. We develop our software in-house and source our processors from US companies. That enables us to provide a high level of supply chain security and serve as a trusted partner to government customers. The result is a homegrown aircraft that reflects the best of American innovation, trustworthiness, and craftsmanship.

Contact

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Problem

The Skydio X10D lightweight drone, constructed from magnesium and carbon fiber with a graphite heat-spreading system, is designed for durability in harsh environments. It operates on an open modular platform, accommodating various payload options and supporting third-party software through RAS-A compliance and open MAVLINK protocol. Skydio Flight Deck, an intuitive interface, facilitates complex navigation with minimal training.

Technology Solution

Skydio X10D represents a state-of-the-art technology solution, designed to meet the rigorous demands of military operations. It integrates advanced AI-driven autonomy, superior navigation systems, and a robust thermal imaging capability into a durable, lightweight frame. Powered by an Nvidia Jetson Orin processor, the X10D supports rapid, on-the-fly data processing, ensuring real-time intelligence and operational responsiveness. Its open architecture accommodates diverse payloads and software enhancements, facilitating customization for specific mission requirements. This drone offers unparalleled operational flexibility, capable of executing complex maneuvers in challenging environments, thereby significantly enhancing military surveillance, reconnaissance, and situational awareness capabilities.

Benefits

Skydio X10D offers significant benefits for military operations, enhancing security and force protection through rapid deployment, autonomous operation, and superior surveillance capabilities. Its agility and efficiency allow for quick aerial intelligence delivery, reducing attack risks in remote locations. Advanced surveillance features extend operational coverage, improve decision-making, and enable strategic assessments. The drone's quiet flight profile, coupled with high-speed and low-light capabilities, ensures discreet and dependable reconnaissance. Overall, X10D enhances operational success in challenging environments by providing critical advantages in threat detection and situational awareness.

FACILITIES AND INDUSTRIAL PROCESS MODERNIZATION



INDUSTRIAL COATING SERVICES, INC

Industrial Coatings & Automation Solutions



in Industrial Coating Services & Automation Solutions

Industrial Coatings Services, Inc. - Automation Solutions, specializes in providing cutting-edge technologies tailored to meet the diverse needs of manufacturing processes and the modernization of these areas. We focus on innovation and leverage advanced technologies such as RPA Robotic Process Automation, advanced rotary paint atomizers and generative AI to deliver superior coatings and automation applications to manufacturing platforms. The core of our operation is a commitment to delivering unmatched performance and reliability in paint application and other automation opportunities.

Through the integration of automation, we streamline and enhance production processes while minimizing humans in hazardous manufacturing areas. Our state-of-the-art robotics are equipped with advanced sensors and algorithms enabling them to adapt to changing conditions and achieve optimal results in real-time.

With our expertise and innovative approach to technology integration, we empower manufacturers across diverse industries to enhance their products' durability, performance, and aesthetics while maximizing operational efficiency and minimizing costs.

Contact

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Problem

- Streamlining painting and other production processes and minimizing human exposure to hazardous environments.
- Enhancing adaptability to changing conditions through robotics and automation.
- Leveraging generative AI to analyze data and optimize formulation processes.
- Continuously refining solutions to meet evolving project requirements and environmental considerations.
- Maximizing operational efficiency and minimizing costs across diverse industrial settings.

Technology Solution

To address these challenges, we automate repetitive tasks, optimize workflows, while enhancing efficiency and safety. Real-time monitoring and adaptive controls ensure precision and adaptability, while data-driven insights enable proactive decision-making and continuous improvement. Through predictive analytics and refined processes, we optimize formulations and applications, enhancing durability and quality. Overall, our comprehensive approach aims to maximize operational efficiency and minimize costs across diverse industrial environments.

Benefits

Our data-informed solutions have shown a 30% increase in production efficiency, 50% reduction in manufacturing defects, and 25% decrease in downtime due to predictive maintenance. By minimizing human involvement in hazardous areas, we've achieved a 50% decrease in workplace accidents. Real-time data monitoring ensures 99% precision in operations, even in fluctuating conditions. Through predictive analytics, we've optimized formulations, resulting in 25% longer product lifespan. Ultimately, our integrated approach maximizes operational efficiency, saving clients up to 20% in overall costs.

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14 | 2024 DOD Maintenance Symposium



DIT-MCO INTERNATIONAL

Wiring Harness Test Solutions



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For cable testing, harness testing, and other automated product testing, customers rely on DIT-MCO wiring analyzers. DIT-MCO is your complete solution provider for electrical testing of cables, harnesses, wired boxes, panel assemblies, and more. From simple cables to complex assemblies requiring EE & LM, DIT-MCO has the solution. We also provide custom adaptation and test programming, giving you a complete turnkey solution.

<u>Contact</u>

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Problem

Electrical wiring harnesses are inherently complex and labor-intensive to build. Errors occur everywhere, from the first wire run to the last pin placed. With more than 80% of harness building done manually, eye strain, labor fatigue, and simple human errors can lead to mistakes in the finished harness.

Technology Solution

DIT-MCO's technology helps eliminate wiring errors. From the first connector pinned to the final point tested, DIT-MCO offers products that provide solutions. PinMate, a guided wire insertion tool, helps operators insert wires correctly, ensuring fewer errors at the final test. DIT-MCO's analyzers aid in fault detection and troubleshooting of cables and wiring harnesses. This ensures mistake-free harnesses, which is critical in the aerospace and defense world.

Benefits

- First-ended pinning drastically reduces cross-wiring errors.
- Automatic test equipment.
- Increased throughput.
- Saves time and money.
- Reduces labor fatigue and eye strain.
- Portable testers to troubleshoot/repair wiring errors.
- Final test solutions to guarantee 100% correct cables and harnesses.

RELIABILITY IMPROVEMENT (HARDWARE)

PERFECT POINT EDM

E-Drill Fastener Removal Technology



At Perfect Point, we're driven by a singular mission: to redefine the future of aerospace maintenance. With a commitment to innovation, we create advanced tools and technologies that revolutionize how maintenance is performed in the aviation industry. Our flagship product, the E-Drill, enables faster, safer, and more efficient fastener removal.

<u>Contact</u>

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AEROSPACE MAINTENANCE TECHNOLOG



Problem

Despite the incredible technological progress made in aviation over the last century, the field of airframe and engine fastener removal has seen surprisingly little innovation. For decades, technicians have continued to remove fasteners using the same age-old methods. The migration to high-strength materials like Titanium and other alloys and complex fastener types such as blind bolt style fasteners have made the removal process more difficult and riskier than ever, resulting in high damage rates and extended maintenance timelines.

Technology Solution

In response to the growing need for innovation in the fastener removal process, Perfect Point EDM has introduced the E-Drill System. This revolutionary system, powered by advanced electro-discharge machining (EDM) technology, offers a rapid solution to the challenges of fastener removal. It is designed to swiftly and precisely remove even the toughest fasteners. This process dramatically reduces fastener removal times, reduces the risk of damage to the airframe, improves efficiency, and enhances safety for technicians.

Benefits

The benefits of the E-Drill are multifaceted:

- Improve Productivity: The E-Drill can achieve up to a 20x reduction in fastener removal times, dramatically increasing aircraft turnaround times and reducing downtime.
- Reduce Damage: The computer-controlled process paired with enhanced location tooling, ensure minimal risk of airframe damage during the fastener removal process.
- Eliminate FOD: The closed-loop water filtration system of the E-Drill continually flushes out and filters debris from the cut process. This eliminates drill shavings and other debris found when using a twist-drill.
- Enhance Safety: By providing a much more ergonomic process and eliminating the need for forceful removal methods, E-Drill reduces the risk of injuries to technicians.
- Cost Savings: Reduced consumables costs, minimized maintenance time, lower repair costs, and increased first-pass quality contribute to significant cost savings.

COAST AUTONOMOUS, INC

COAST

AI and Autonomous Solutions Built for Work





COAST leverages proprietary best-inclass technologies to offer safe, efficient, flexible, and cost-effective solutions. The proven system architecture integrates cutting-edge artificial intelligence (AI), robotics, and autonomous systems, enabling applications like perimeter security and automated inventory management. COAST's industry-leading Command and Control system can direct both its own and third-party autonomous vehicles. The technology stack includes advanced AI for navigation and perception, allowing seamless integration of new features as they become available.

COAST offers Mobility-as-a-Service (MaaS) and Software-as-a-Service (SaaS) solutions tailored for various environments, including airports, cities, theme parks, campuses, and rail yards. COAST's vehicles operate under long-term service contracts in seven U.S. states and have been deployed in over 60 locations across 8 countries since 2010.

Contact

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Problem

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COAS

COAST tailors autonomous vehicle solutions for private sites, addressing limitations in workforce, network access, and safety. By focusing on client-specific pain points, COAST enhances mobility and accessibility in remote areas, improving efficiency and augmenting the workforce. Our technology overcomes challenges like weak signals, human fatigue, GPS failures, and oversized vehicles through a customized system architecture that is both sensor and vehicle agnostic.

Technology Solution

COAST has developed a proprietary 6-Level Autonomous Vehicle (AV) system that includes mapping, localization, robotics, artificial intelligence (AI), fleet management, and supervision. COAST's AV System is designed for safety first and is optimized for the user experience. All COAST vehicles have built-in redundancies and will always be able to stop safely. COAST vehicles analyze the environment to provide optimum safety for passengers, pedestrians, and any other vehicles on the road. Using off-the-shelf perception sensors and electronics allows COAST to offer an affordable and flexible solution.

Benefits

COAST's adaptable technology sets a new safety standard and blueprint for vehicle interconnectivity. Through client collaboration, initial inquiries evolve into scalable, impactful solutions. COAST use case solutions range from autonomous transportation UTVs to inventory drones to campus shuttles. COAST streamlines operations, enhancing efficiency and safety in autonomous vehicle utilization. By employing appropriate vehicles at appropriate speeds, COAST's solutions expand beyond original applications, creating a versatile platform for diverse autonomous operations. This approach not only meets immediate client needs but also paves the way for broader implementation of interconnected autonomous systems across various industries.

NCMS MEMBERS & PARTNERS AT THE DOD MAINTENANCE SYMPOSIUM

WARDAR BER DOW HEARING

AIVOT Robotics, Inc. Booth #P905

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Ametek-Spectro Scientific Booth #526

Andromeda Systems Incorporated Booth #622

Arsome Technology Group LLC Booth #1137

Atmospheric Plasma Solutions Booth #607

BlastOne International Booth #403 Boeing Booth #P802

Boston Engineering Corp. Booth #432

Carnegie Mellon University/SEI Booth #521

Eclypse International Booth #402

G.C. Laser Systems Inc Booth #128

Gastops, Inc. Booth #325 Lockheed Martin Booth #733

Machina Labs Booth #615

MDS Coating Booth #438

One Network Enterprises Booth #1117

ParmaTech Corp Booth #613

PPG Booth #P935 PTC Inc. Booth #925

RGBSI Aerospace & Defense LLC Booth #P118

Siemens Booth #1126

Systecon North America Booth #706

Teradyne Booth #724

Zoller Inc. Booth #434

SAVE THE DATE



2025 CTMA Partners Meeting

June 16 - 18th, 2025 Jacksonville, FL

The 2025 Commercial Technologies for Maintenance Activities (CTMA) Partners Meeting is scheduled for June 16-18 at the Hyatt Regency Jacksonville Riverfront in Jacksonville, FL. This is a unique opportunity to engage with leaders from government, industry, and academia in a collaborative setting. It is the only DOD-wide forum focused on enhancing maintenance and sustainment capabilities, prioritizing innovations and strategies that enhance warfighter readiness. This year's meeting will feature the return of evening table-top receptions and the CTMA Technology Competition, providing ample opportunities for industry and academic partners to showcase next-generation technology solutions to a wide range of decision-makers across the DOD.

The CTMA Program unites the Department of Defense (DOD), industry, and academia to conduct technology demonstrations, evaluations, and validations. CTMA initiatives drive innovation in sustainment, tackle materiel readiness challenges, and modernize our organic industrial base.

For details please visit: ncms.org/events/PM-2025