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Headline: CyManII Announces Release of Institutional Roadmap to Outline Evolving Vision for Institute's Technical and Operational Approach Within Cybersecurity For U.S. Manufacturing

San Antonio, TX –[The Cybersecurity Manufacturing Innovation Institute \(CyManII\)](#), with support from the U.S. Department of Energy, [Office of Energy Efficiency and Renewable Energy's Advanced Manufacturing Office \(AMO\)](#), and [Office of Cybersecurity, Energy Security, and Emergency Response \(CESER\)](#), is proud to announce the public release of the CyManII Public Roadmap. This joint, collaborative mission introduces U.S. manufacturers to current cyber-exploits while providing the training needed for companies to protect themselves against evolving threats.

[CyManII's Public Roadmap](#) provides a unifying plan that is national in scope as U.S. manufacturers of all sizes drive toward processes that are data-intensive, digitized, and utilize emergent applications of Artificial Intelligence (AI) and Machine Learning (ML) to drive productivity gains in the face of growing complexity. This forward-looking overview offers insights into the evolving vision of the Institute by outlining its technical and operational approaches to achieve the twin goals of advancing energy efficiency in manufacturing and securing these innovative technologies. The Public Roadmap also provides a summary of planned research pathways and describes how manufacturers will benefit from a dedicated effort to secure U.S. manufacturing industry from cyber threats. The Public Roadmap serves as a call for participation for stakeholders in the manufacturing, technology, research, and academic communities who will benefit from working jointly on these national efforts.

Focusing on the five Institute Foundational Tasks (IFTs) central to the technical infrastructure, CyManII's technical team has identified the fundamental technical challenges in a cooperative, systematic, and agile fashion by addressing the research themes of Quantification, Architecture, Infrastructure, Awareness, and Workforce.

“This Roadmap, developed with Industry, outlines a pathway for U.S. manufacturers to cyber harden their systems, processes and supply chains today while also presenting a robust research, development, and deployment strategy that introduces cyber innovations that move beyond zero trust approaches to architectures that are threat informed and provide verifiable security guarantees,” said **Howard Grimes, CyManII's Chief Executive Officer**.

As manufactures evolve and cyber threats increase, causing subsequent vulnerabilities, the Public Roadmap is designed to show how CyManII's technical efforts connect and complement one another to achieve a secure manufacturing architecture for Small and Medium Manufacturers (SMM), large manufacturers, and Original Equipment Manufacturers (OEM). While manufacturers may not be entirely focused on the details of how to secure digitization and digital threads from cyber threats, CyManII concentrates on the highly focused cyber benefits in pursuing their fundamental goals of productivity, quality, and profit. The cybersecurity innovations championed by CyManII will enable manufacturers to not only increase productivity, but do so with security embedded into U.S. manufacturing operations. Ensuring that manufacturers' intellectual property, vital data, and critical processes are cyber secure across the digital threads within critical manufacturing is essential for the competitiveness of U.S. manufacturers in the global market, as well as our national and economic security.

“CyManII is charting an aggressive course to a more secure and prosperous manufacturing industry,” said **Kelly Speakes-Backman, Principal Deputy Assistant Secretary for Energy Efficiency and Renewable Energy**. “The initiatives detailed in this Roadmap will ensure that our protective measures keep pace with advancements in automation, digitization, and a range of advanced manufacturing technologies, protecting our domestic manufacturing and our economy.”

CyManII was launched in 2020 by the Department of Energy, as part of the greater Manufacturing USA Network, as a Clean Energy Manufacturing Institute to work across the manufacturing industry, research and academic institutions, and federal government agencies to develop technologies that enable the security and growth of the U.S. manufacturing sector. Simultaneously, CyManII is continuing its collaborative research to design and implement architectures of the next-generation that are cyber-inspired and secure by design.

CyManII is funded by the [Office of Energy Efficiency and Renewable Energy's Advanced Manufacturing Office \(AMO\)](#) and co-managed with the [Office of Cybersecurity, Energy Security, and Emergency Response \(CESER\)](#).

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