Key Takeaways from Schneider Electric Go & See

June 20-21st Lexington, KY

June 2023

About the Center

The US Center for Advanced Manufacturing in partnership with the World Economic Forum engages key stakeholders in the American manufacturing ecosystem to help accelerate Industry 4.0 adoption and unlock productive innovation and sustainable inclusive growth.

Innovative

Unlock and deploy innovative products, technologies, and solutions to increase value for manufacturers and customers

Sustainable

Driven sustainable and profitable growth, achieve carbon neutrality, enable circularity, and commit to ESG reporting

Inclusive

Empower every manufacturing worker with

new opportunities through

partnerships with industry,

government and academia

Generating forward looking insights

The center anticipates global trends and supports U.S. manufacturers and policymakers that accelerate responsible industry transformation

Unlocking new collaborations

The center amplifies public-private collaboration to tackle key manufacturing challenges and leverage new opportunities

Building peer communities

The center creates and engages peer communities to facilitate knowledge exchange and best practice sharing

Current Projects

Key challenges the US Manufacturing and supply chain communities are currently facing:

Unlocking the full potential of technology and innovation across factories and value chains

Work force shortage and inadequate use of technology on shop floors

Global disruptions generating an unprecedented need for change

The Center is focusing on a set of projects to address key industrial challenges:

Accelerating Technology Adoption in the US

Reskilling and Upskilling the US Manufacturing Workforce

Disruptive Innovation and New Business Models in Manufacturing

US Center for Advanced Manufacturing

Accelerating Technology Adoption in the US

Context

– A select group of US manufacturers, including 9 sites from the Global Lighthouse Network, have deployed advanced manufacturing technologies at scale, generating new value within the factory and/or across value chains

– To build a more competitive US manufacturing sector, US manufactures need to gain a deeper understanding of how they can apply these technologies and accelerate the pace of adoption

Objectives

– Sharing insights from the front runners in digital transformation including factories already identified in the Global Lighthouse Network

– Create a geographically diverse series of learning opportunities across the US to unlock new partnerships that drive technology adoption

Deliverables

– Build a multistakeholder community of representatives from private sector, public sector and academia committed to accelerate technology adoption across US manufacturing sector

– Develop a learning journey including workshops, webinars and events hosted throughout the US minimum quarterly with experts from industry, government, academia and civil society
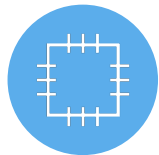
US Center for Advanced Manufacturing

What it takes to become a lighthouse

Regular 4IR Lighthouse

Impact achieved
Step-change in **innovation (operating model, product, service, business model)** considering level of advancement of industry and company

Integrated use cases
Multiple, integrated 4IR technology use cases deployed at scale

Enablers
Best-practice on enablers such as a clear 4IR strategy, IIoT architecture, workforce engagement, capability-building and agile use case development

Sustainability Lighthouse

Intent
Sustainability impact targeted as part of **4IR[1] journey,** clear pledges from company
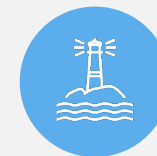
Impact
Multiple environmental categories with step-change **improvements**

Scale
Sustainability impact across **multiple 4IR[1] use cases** deployed

Prior Lighthouse designation
The **Sustainability** designation primarily open to prior Lighthouse awardees

US Center for Advanced Manufacturing

Factories and value chains at the forefront of digital transformation

Context

- The global manufacturing community is lagging in its adoption of Fourth Industrial Revolution (4IR) technologies, with **more than 70% of companies stuck in "pilot purgatory"**

Opportunity

- The manufacturing Industry identified the need for a **neutral collaboration platform** to accelerate adoption of 4IR technologies in manufacturing through new alliances, partnerships and a shared, cross-industry **learning journey**

The Project

- The World Economic Forum's **Global Lighthouse Network** is a community of manufacturers showing leadership in applying 4IR technologies **at scale** to drive financial and operational impact by transforming factories, value chains and business models

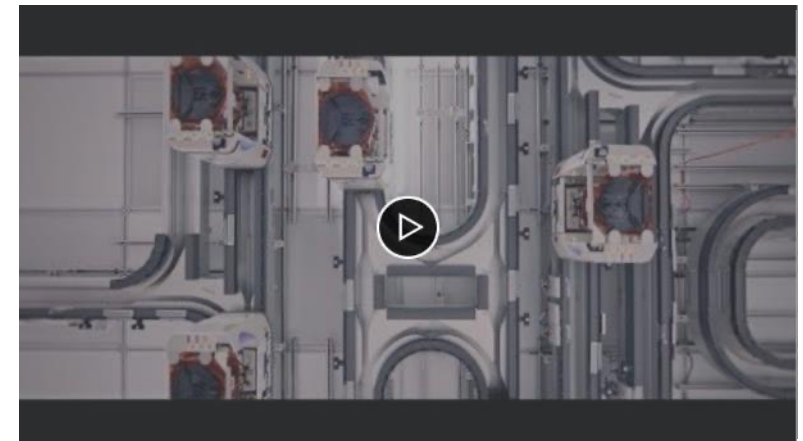**Reports and press releases**
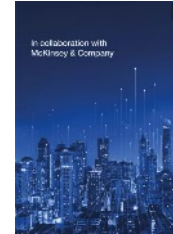
White paper January 2023

Press Release January 2023

White paper March 2022

Presentation video

[Read more on the Global Lighthouse Network](#)

Panel: Speakers

Fabrice Meunier
VP, Industrial End User, System Integrator and Software Business

Greg Tink
Digital Transformation Director, USA

Michael Labhart
Innovation Leader – Supply Chain Performance, USA

Ted Klee
SVP, Global Supply Chain

Panel: Key Takeaways

Digital Transformation and Smart Factory

- Digital transformation defined: driving efficiency, resiliency, and sustainability through end-to-end solutions that focus on incremental changes, aligning with specific use cases, and monitoring results for further implementation.

- Starting with a clear definition, motivation and KPIs will assist in facing common challenges and support innovating with direction throughout the transformation process

- Aided by automation the digital transformation of supply chains enables the use of new digital tools providing real-time decision-making capabilities and addressing bottlenecks in a timely matter

- Targeted areas of growth include visual and audio capabilities on the factory floor, infrastructure development such as 5G and highlighting sustainable practices

Supply Chain and Operations

- Hands-on help, sharing failures, providing planning and capital assistance, and determining the right time to integrate with others has resulted in supplier agility

- Common frameworks help to address fundamentals that can be missed leading to standardization across the globe

- Schneider's unique approach to scaling prioritizing execution first and innovation in the second phase is resulting in best practices across the organization

- Navigating priority areas, such as cyber security, are best accomplished through leveraging expertise from key partnerships

People and Culture

- Executive leadership buy in, and sponsorship is critical to getting new technologies engrained in the culture, making them adoptable on the factory floor

- Common purpose and established frameworks are key to tackling similar challenges across cultures

- People centric design is a priority area as we work to identify how to make machines and humans more interconnected

- The success of the digital transformation is dependent as much on the technology as the people, this played a key role in Schneiders lighthouse application

Next Steps

- Appoint your US executive driving operations to join the learning journey, **connect with peers and provide insights**

- Host a segment of the learning journey by **opening up the doors** of your facility to the US community

- **Submit** one of your production sites to be designated as a Global Lighthouse

- Schedule a discussion for further **collaboration**

US State of Manufacturing Report

- Join the community through:

- Attending a **regional roundtable**

- Join our next **Go & See**

- Highlight an **SME's** within your supply chain to join the conversation and share their insights

US Center for Advanced Manufacturing

Questions? Connect with us

US Center for Advanced Manufacturing

Alison Trumble

Alison.Trumble@usc4am.org

World Economic Forum

Stacey Weismiller

Stacey.Weismiller@weforum.org

Schneider Electric

Paige Van Zandt-Moody

Paige.VanZandt@se.com

* Please reach out to shree.parikh@USC4am.org for the Schneider Electric Panel slides