

# Manufacturing Technology Working Group

The background of the slide is a dark blue field filled with numerous glowing blue circles of varying sizes, creating a bokeh effect. Overlaid on this are several thin, bright blue lines that originate from the left side and branch out towards the right, resembling a complex circuit board or a network diagram. The lines and dots have a soft, ethereal glow.

Substitute Senate Bill No. 1021  
Special Act No 21-24

Meeting 06  
Nov 10, 2021

# Agenda

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- I. Welcome
- II. Announcements / Roundtable
  - Review schedule for i4.0 Provider features
- III. Workstream Outbriefs
  - VSM: Value Stream Mapping led by CONNSTEP
  - Outreach led by CCAT
  - Resources led by CTNext
- IV. Workstream Breakouts
- V. Adjourn



Next Meeting: Wed, Nov 17 @ 11a  
Cadence: \*weekly\* *this week & next*

# Service Provider Feature Schedule



Nov 10: Workstream Outbriefs



Nov 17: University of Connecticut, Tech Park

Dec 8: NSF National Center for Next Generation Manufacturing as part of CSCU; and Small Business Administration



Dec 15: Value Stream Mapping Outbrief

Jan 6: Central Connecticut State University

Jan 20: Manufacturing Innovation Fund

Feb 3: Yale University

Feb 17: Connecticut Manufacturing Collaborative

Mar 3: Central Connecticut Chambers of Commerce



back-to-back  
weeks

# Deliverables

## Section 1c.1

Compile comprehensive profiles, including mission statements, and lists of services, for all entities that receive state or federal funding for the purpose of researching, developing, training, marketing, consulting or deploying Industry 4.0 technology or associates services, directly to, or for the benefit of, manufacturing startups, small and mid-sized manufacturers or other businesses primarily engaged in manufacturing.

# VSM: Value Stream Mapping

**Objective:** Map out current state value stream of provider network (Deliverable 2)

**Lead:** CONNSTEP



# Deliverables

Relevant to VSM Workstream

Section 2

Conduct value-stream mapping and other analyses, as needed, to assess the flow of services from the entities\* identified. Such analyses shall include, but need not be limited to,

- identification of the extent to which such services complement, conflict with or duplicate each other,
- assessment of the relative impacts of such services on the manufacturers served,
- identification of gaps in services provided relative to the Industry 4.0 technology needs of manufacturers,

\*all entities that receive state or federal funding for the purpose of researching, developing, training, marketing, consulting or deploying Industry 4.0 technology or associates services, directly to, or for the benefit of, manufacturing startups, small and mid-sized manufacturers or other businesses primarily engaged in manufacturing



# Scope

## Current state

- Customer: SMM
- Suppliers: state/federal providers of Industry 4.0 services

## Analysis Tool

- SIPOC
  - A visual tool for documenting a business process from beginning to end prior to implementation

## What will we analyze

- Elements of current state of the steps a SMM would go through for service
  - What is the process an SMM needs to integrate I4.0 technology into the business

# Next Steps

1. Half-day in Person Mapping
  - Thursday, Nov 18
2. Present to MTWG on Dec 15, 2021



# Outreach

**Objective:** Awareness of manufacturers to provider network

**Lead:** CCAT



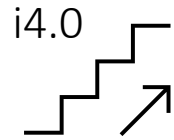
# Outreach


Discuss

ENGAGE.

EDUCATE.

ENABLE.



 entry-level

Develop

Structured process of education:

CT case studies of how i4.0 tech is used to solve a problem

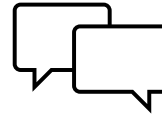
Who is doing this well?  
State or Entity

What does a business need?  
How to get there? Integration.  
Best practices / case studies.

Decide



1 pager



unified message

Deploy

Communicate thru  
Manufacturing Associations



Outcome of MTWG is to create a strategic plan.

# Resources

**Objective:** Focus on SBIR / STTR; include other grant opportunities & resources

**Lead:** CTNext



Yale



Equipping early-stage companies and entrepreneurs with resources, guidance and networks to accelerate growth and success.

## Services Provided:

Researching

☒ Developing

☒ Training

Marketing

☒ Consulting

☒ Deploying

Cultivating a network of public-private partnerships and acting as a catalyst, supporting entrepreneurs from ideation and growth to exit.



## SBIR Resources

- Generating awareness and combatting lack of awareness of SBIR/STTR opportunities in CT
- Humanizing the process of navigating the federal funding landscape
- Pre- and post-award services
- Success stories



## Other Resources



- Access to talent
- University partnerships
- Alternate sources of financing

# Workstreams

## VSM: Value Stream Mapping

Map out current state value stream of provider network



## Resources

Focus on SBIR / STTR; include other grant opportunities & resources



Yale

## Outreach

Awareness of manufacturers to provider network



## Ecosystem Mapping

Cataloging comprehensive profiles of providers  
(Deliverable 1)



Partner w/ Manufacturing Innovation Fund Initiative