

# Connecticut's Support for Advanced Manufacturing

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# Agenda

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Colin H. Cooper  
Chief Manufacturing Officer  
State of Connecticut

[colin.cooper@ct.gov](mailto:colin.cooper@ct.gov)  
(860) 597-9360

The Importance of Manufacturing  
for Connecticut

Connecticut's Manufacturing  
Landscape

Connecticut's Commitment to  
Manufacturing

Connecticut's Support for  
Emerging Industries

# The Importance of Manufacturing for CT

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- CT Manufacturers produce ~\$27 billion worth of product and export worldwide
- ~160,000 people directly employed by CT manufacturers
- Each manufacturing job supports 5 others
- Manufacturing wages are significantly above average
- Manufacturing not only provides good jobs, but it also provides great career opportunities

# Connecticut Manufacturing Landscape

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- Approx. 160,000 people employed in Manufacturing
- 4,000+ Manufacturers in the State
  - ~60,000 employed by 25 Largest Manufacturers
  - Remaining ~100,000 employed by the other 4,000 Manufacturers
    - Average ~ 25 Employees
- The health of Small/Mid-sized Manufacturers is key to the health of the manufacturing ecosystem

# Connecticut Manufacturing Landscape

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- CT has been at the forefront of precision manufacturing in the United States since the dawn of the Industrial Revolution in North America (200+ years)
- Strong History of Innovation (products & processes)
- CT Manufacturers very strong in High Complexity Products
  - World leader in jet engines, helicopters, submarines
- Also: Medical devices, advanced production systems, engineered components, automotive
- CT competes on based on the skills, knowledge and abilities of its workforce

# Connecticut Manufacturing Landscape

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- Emerging areas include:
  - Offshore wind power
  - Batteries – automotive and storage
  - Fuel Cells
  - Biofuels
  - Electronic Vehicle charging stations
  - Drones

# Connecticut Commitment to Manufacturing

(Selected Examples)

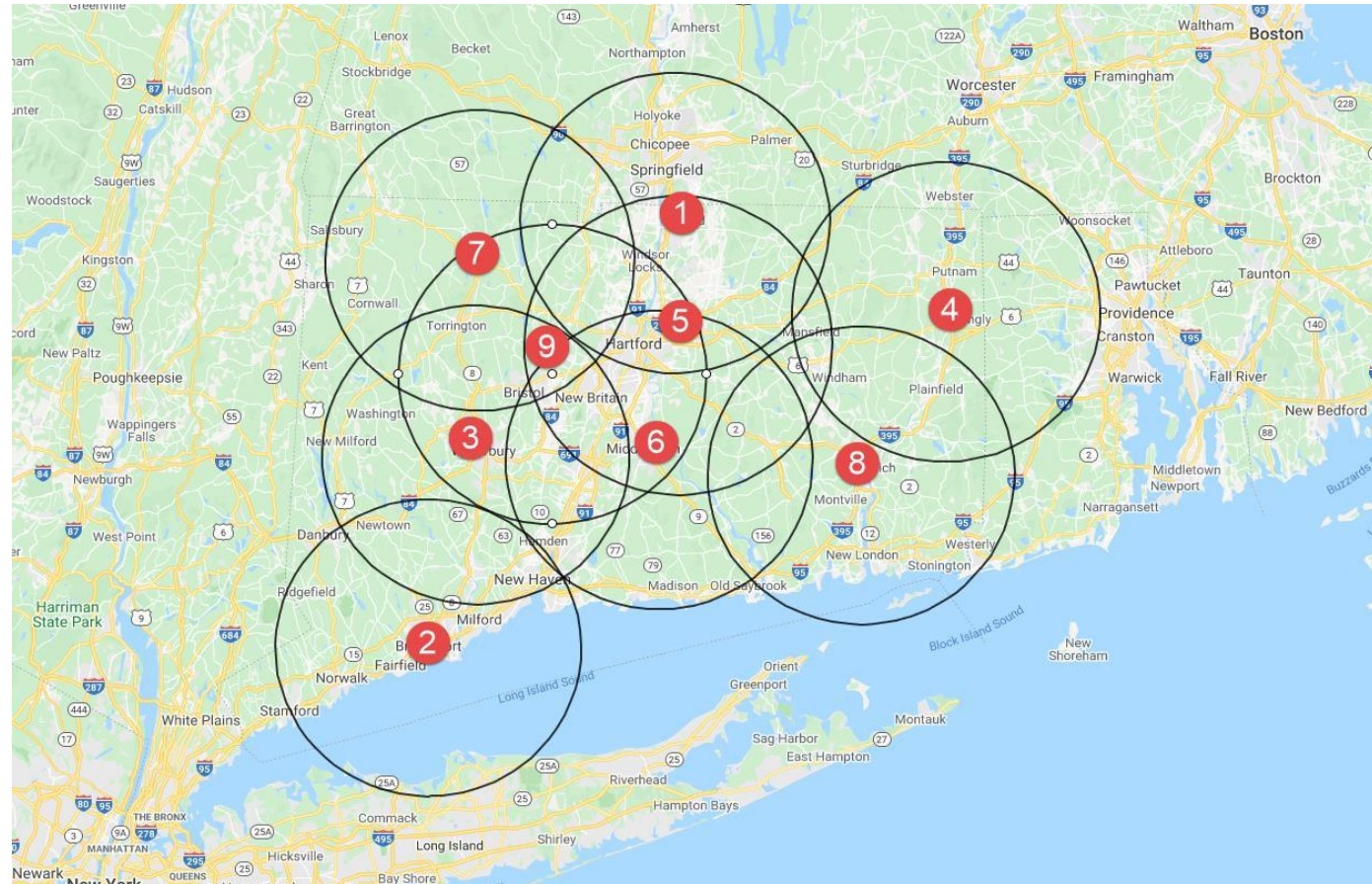
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- Nine Advanced Manufacturing Training Centers Cover the State
- UConn Tech Park – a high tech, state-of-the-art applied research facility that promotes expansion of industry partnerships and R&D
- CT Manufacturing Innovation Fund - \$80 million of catalyst capital supporting growth, innovation and talent development
- Creation of the Connecticut Manufacturers' Collaborative
- Creation and staffing of the Chief Manufacturing Officer Position
- Creation of the Governors Workforce Council and the resultant Workforce Strategic Plan
- Creation and Staffing of the Office of Workforce Strategy

# Connecticut Commitment to Manufacturing

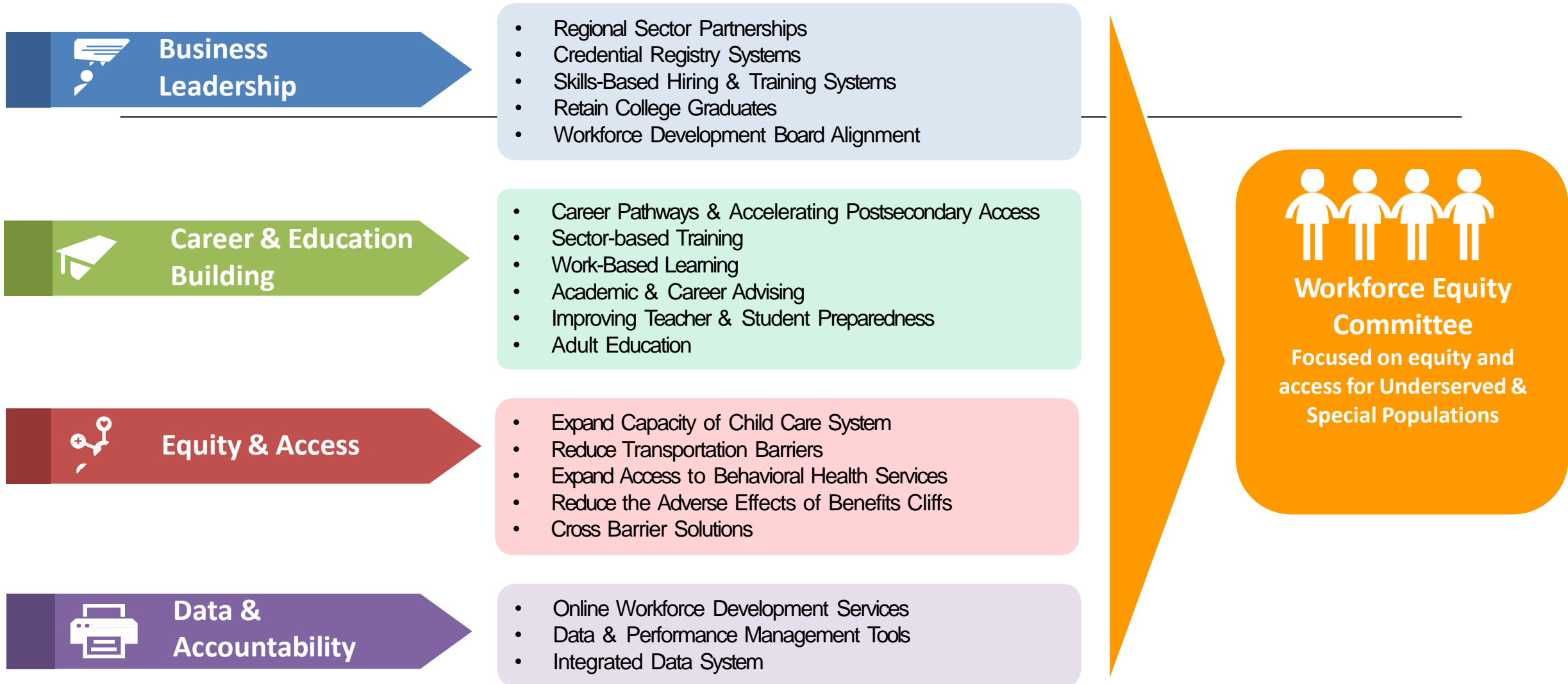
(Advanced Manufacturing Centers)

- 1 – Asnuntuck
- 2 – Housatonic
- 3– Naugatuck Valley
- 4 – Quinebaug Valley
- 5 – Manchester
- 6 – Middlesex
- 7 – Northwestern CT
- 8– Three Rivers
- 9 - Tunxis





# Governor's Workforce Council Strategic Plan Overview



# Connecticut Commitment to Manufacturing

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## CT Manufacturing Innovation Fund

(As of June 30, 2020)

- Assisted >2,000 CT Manufacturers
- Created/Retained >17,750 jobs
- Trained/Retrained > 24,500 CT workers
- Engaged > 17,500 students (across 167 towns/cities)
- Every \$1 of MIF funding deployed matched by \$1.70 from private/third parties

# Support for Emerging Industry: Clean Energy

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- The U.S.'s first Green Bank to finance Green Energy Initiatives
- Two massive Offshore Wind projects totaling 1.2 Gigawatts underway – construction to begin in 2023, operations to commence in 2025
- Governor's Climate Mitigation Bill commits to a zero-carbon electric supply by 2040
- The Governor's Transportation Climate Initiative will accelerate investments in a cleaner and more resilient transportation system for Connecticut and the region
- CT's Integrated Resources Plan commits to Transmission Upgrades & Integration of Variable and Distributed Renewable Energy Resources

# Support for Emerging Industry: Clean Energy

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- Connecticut's EV Roadmap focuses on the pathways to achieve wide-scale deployment of electric vehicles (EVs) through:
  - Policies and regulatory tools,
  - Purchasing incentives,
  - Grants to manufacturers
  - Consumer education,
  - Charging infrastructure expansion,
  - Utility investment, and
  - Utility rate design.
- CT Public Utilities Regulatory Authority priorities include 11 different distribution grid modernization initiatives including smart metering and development of storage capabilities

# Connecticut

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Leading the way in support for Advanced  
Manufacturing, Workforce Development and  
Support for Emerging Industries