

Focus on Economic and Workforce Development

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Vermont Chamber of
Commerce



Agenda

- Supply Chain Hub and Aerospace Trade Corridor
- Strengthen ties with Quebec
- Develop workforce for manufacturing
- Tap new market opportunities





Vermont Aerospace

- \$2 B aerospace manufacturing& aviation industry
- Civil aviation
 - \$1.17 B in economic output
 - \$298 million in earnings
 - 9,505 direct jobs
 - 2.2% of GDP (\$704 M)





Vermont Aerospace

- Aerospace Manufacturing
 - \$1 B of Vermont's 3 billion manufacturing economy
 - 32,000 jobs (10.4%)
 - \$2.8 B (9%) of GDP
 - \$2.57 B in exports (2/3 of all exports)





Manufacturing Matters

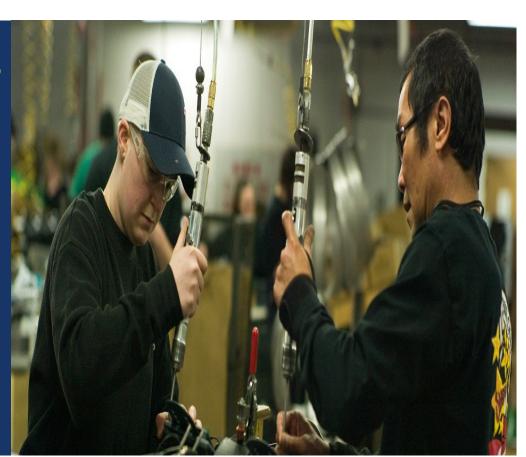
- Economic Multiplier Impact:
 - Every \$1 in manufactured goods generates an estimated \$1.37 worth of additional economic activity.





Manufacturing Matters

- Employment Multiplier:
 - Each manufacturing job
 supports an additional 1.6
 jobs and each Advanced
 Manufacturing job
 supports as many as 4.9
 other jobs.





Vermont Aerospace

- Home to industry leaders
 - GE Aviation Rutland
 - Collins Aerospace –Vergennes
 - KAMAN Bennington









Vermont Aerospace

- Home to supplier base
 - Aircraft maintenance,
 repair & overhaul (MRO)
 - Avionics & Sensors
 - Fuel management
 - Precision machining
 - Turbomcahinery

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Vermont Aerospace

- OEMs
- Boeing Supply Chain in VT
 - 23 suppliers
 - \$88.1 M spend
 - 2,800 Vermont jobs











Vermont Chamber Manufacturing Program

- Manufacturing as a economic development opportunity
- Need to deliver contacts, buyers, suppliers and contracts
- A supply chain program for aerospace, aviation, defense, naval and medical industries



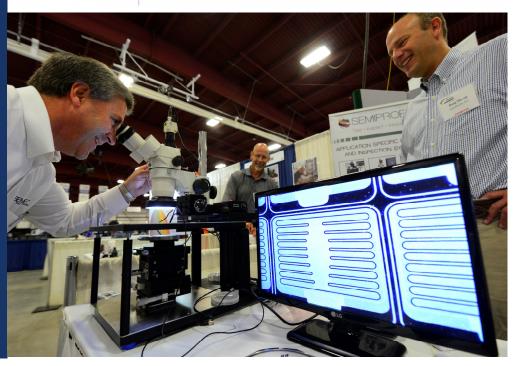


Vermont Chamber Manufacturing Program

- 18 matchmaking events over10 years
- Transforming Vermont into a Supply Chain Hub
- Annual Manufacturing Summit and Supply Chain Trade Show



Manufacturing Summit





Vermont Chamber Manufacturing Program

- 2018 Highlights & Results:
 - 120 exhibitors NE and CA
 - 450 B2B Mtgs (112 hrs)
 - 20 OEMs: Boeing, Bell Flight, BAE, Raytheon & Sikorsky
 - 30 Canadian companies for VT-QC Aerospace Trade Corridor extended to CT
 - Over 700 participants





Tapping Québec Aerospace

- Our work extends to a \$28 B
 Canadian aerospace industry
- \$13.8 B Québec aerospace cluster in and around Montreal
 - 3rd world capital of aerospace manufacturing after Seattle, WA and Toulouse, FR





Tapping Québec Aerospace

- Québec aerospace cluster home to:
 - 204 aerospace companies
 - 190 SME suppliers
 - 41,750 workforce
 - Aerospace OEMs
 - Bombardier/Airbus
 - Bell Flight
 - Magellan Aerospace





Aerospace Trade Corridor

- Link \$2 B VT aerospace with \$13.8 B Québec aerospace
- 2013 MOU with Aéro Montréal
- Record of Vermont Chamber work and investment in Québec
 - \$1.1 million
 - 2,412 B2B meetings
 - (603 hrs)







Aerospace Trade Corridor Extended

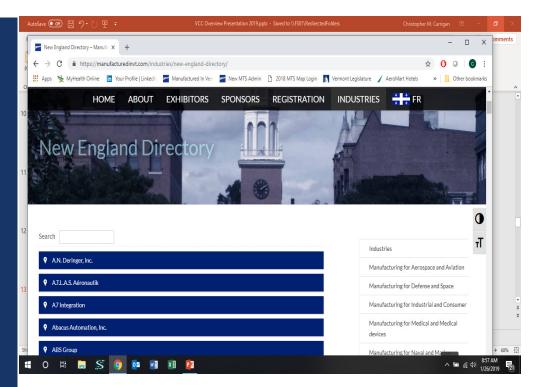
- Extend to Connecticut aerospace
 - 91,500 workforce
 - Home to Aerospace OEMs
 - UTC
 - Pratt & Whitney
 - Sikorsky
 - KAMAN





Vermont Chamber Manufacturing Program

- Trusted referrals and introductions
- B2B meetings for supply chain matchmaking
- Online manufacturing website
 & directory
 - Québec French website





Aircraft Maintenance as Global Market Opportunity

- \$100 billion by 2023
- Aircraft maintenance, repair and overhaul for a global fleet, includes equipment, machinery and parts for:
 - Aerostructures & Avionics
 - Cabin interiors
 - Engines, landing gears etc.





Aircraft MRO

- Vermont's emerging MRO cluster
- Aviation sales tax exemption (6%) for economic development and competitive advantage with surrounding states
- Tap the Québec and Connecticut aerospace markets for MRO business





Workforce Development

- Address Vermont's workforce labor shortage and skills gap
- Find Your Future Workforce
 Initiative with Vermont
 Technical College





Workforce Development

For 2018 facilitated 26
 interviews for 10 students at
 Annual Manufacturing Trade
 Show





Workforce Development

- For 2019:
 - Grow and expand Find Your Future Workforce effort
 - Connect employers with VTANG on Free Tuition Program for recruitment and retention





Conclusion

- Tap global aerospace MRO market and recruiting out-ofstate, out-of-country (FDI) companies to Vermont and as tenants for the 10-State owned airports
 - Hildt Aviation Bennington
 - PCM Innovations acquires

 Lucas Industries –

 Springfield
 - BHS Composites St. J.





Conclusion

- Vermont Chamber working with ACCD and VTrans on H.620/Act 108 to market and promote economic development of Vermont airports
- Vermont Chamber working with Boeing on a potential training program for Vermont
 - Pilots, cabin crew and MRO technicians





Save the date!

2019 Annual
Manufacturing Summit:
A Supply Chain Event for
Advanced Manufacturing
Thursday, Sept. 26
Champlain Valley Expo
9am – 5pm
www.manufacturedinvt.com



February 2019

QUESTIONS?