

# Career Technical Education in Vermont

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# Guiding Principle

## Career *and* College Readiness = Life Readiness

- ALL students need high levels of skill, as well as a capacity to learn and innovate: We can no longer afford to prepare students for college *or* career.
- We need equity in opportunity: We can't afford to leave any potential on the table.
- We need systems: Intentional collaboration among high schools, CTEs, postsecondary education/training partners and employers.



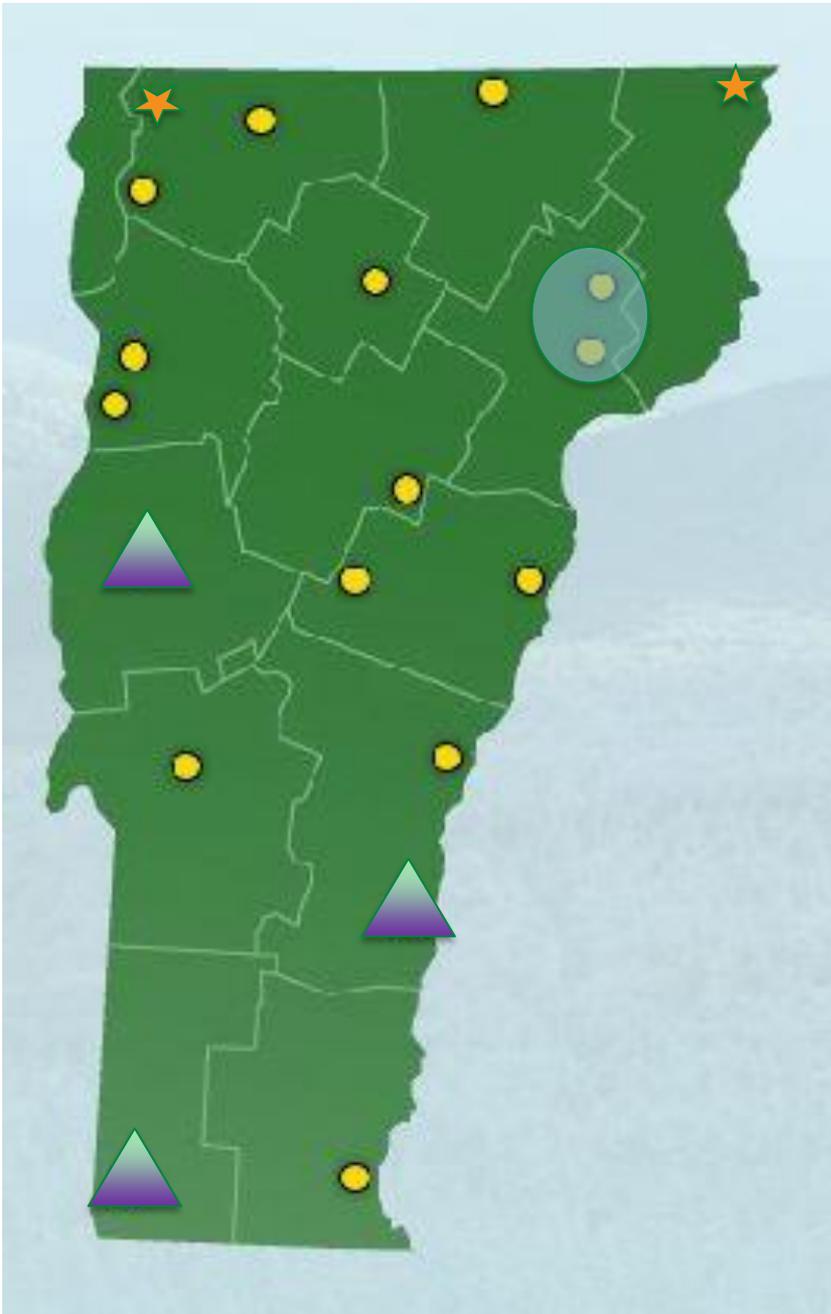
# CTE Discussion: Outline

- What and where is CTE? (quick review)
- Enrollment Trends and Outcomes
- Vision for CTE system

# What is CTE?

- Set of courses and experiences that help students gain the **skills, technical knowledge**, academic **foundation** and real-world **experience** for high-skill, high-demand, high-wage careers
- Key resource for personalized, contextualized learning
- College and career readiness
  - Graduation requirements
  - Transferable skills

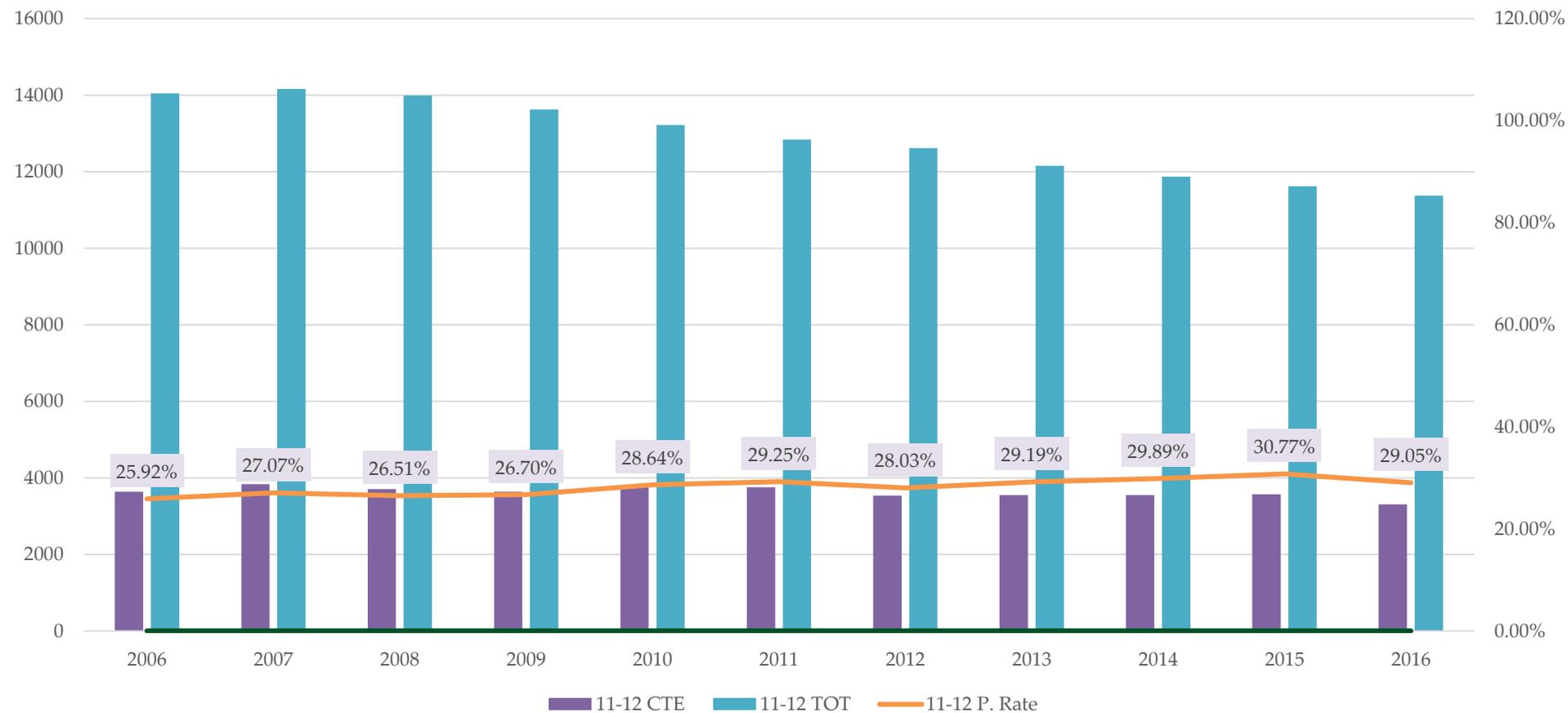
# Where is CTE?



-  Independent Technical Center Districts
-  Satellite location/comprehensive high school
-  Independent Schools hosting technical education programs
-  Full or part-time regional career centers

# Enrollment Trend (11-12<sup>th</sup>)

State of Vermont  
10 Yr. CTE Participation Rate, Grades 11-12



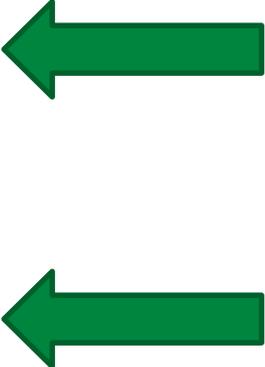
# Enrollment Trend (9-10<sup>th</sup>)

State of Vermont  
10 Yr. CTE Participation Rate, Grades 9-10



# 6 Month CTE student follow-up

Outcome	Percentage
Employed in a related field	23%
Employed in an unrelated field	23%
Military Service in related field	2%
Military Service in an unrelated field	2%
Pursuing related postsecondary education/training	38%
Pursuing unrelated postsecondary education/training	9%
Unemployed	3%
Not in labor force	1%



Data collected 6 months after the end of the previous school year (2015-2016). Relates to all students who took CTE programs during previous year (i.e., SY16) who are NOT still in high school. Survey response rate = 76%.

# 3 year CTE student follow-up

Outcome	Percentage	
Employed in a related field	34.38%	
Employed in an unrelated field	31.43%	
Military Service in a related field	1.61%	
Military Service in an unrelated field	1.69%	
Pursuing related postsecondary education/training	20.28%	
Pursuing unrelated postsecondary education/training	6.77%	
Unemployed	2.09%	
Not in labor force	1.58%	

Data from 2015-2016 school year 3 year survey. Includes students who were in CTE programs in 2013. Response rate = 48%.

# Exemplars of Success: CTE Presidential Scholars





# Statement of the Problem

- Population decline and increasing poverty are leaving Vermont business and industry (and state government) without the skilled workers they need to drive business growth and economic prosperity.
- High school graduates most likely to stay in Vermont are also the graduates with lower level of skill, less connection to postsecondary institutions, and less connection to high-wage career opportunities in the state.

# What does the future of **Vermont** require?

Workforce education and training within **six priority sectors** to ensure long-term economic vitality

- Travel/Tourism and Business Systems (Culinary, Hospitality, Accounting, Management, Entrepreneurship)
- Manufacturing/Engineering (STEM)
- Construction/Green Building and Design
- Local Food Systems, Agriculture, Natural Resources;
- Information Technology (Networking, Software Development, Website Design)
- Health/Medical

# AOE CTE Theory of Action

By investing in:

- a robust, high-quality **career advising and guidance system** that is aligned with high-wage, high-growth sectors;
- the development of employer-led **rigorous programs of study** that include **both secondary and postsecondary elements** and are embedded within transparent **career pathways** for high-skill, high-demand occupations;
- expanding student participation in **postsecondary programs** that lead to industry-recognized credentials or degrees that signal higher levels of skill

Vermont will improve the economic conditions of both the state and its individuals, including the conditions of historically marginalized and underserved groups.

# Administration Priorities

**Affordability:** Direct access to industry-recognized credentials, postsecondary credentials and high-wage jobs.

**Growing the Economy:** Strengthen links between students and employers in high-growth, high-priority VT economic sectors (e.g., Construction Sciences and Building Design, Health Sciences, Advanced Manufacturing,)

**Protecting the vulnerable:** Detailed “how to” roadmaps will help those students who traditionally lack strong role models and knowledge for navigating the postsecondary transition

# How will we accomplish this?

Improve the academic rigor of CTE programs, by raising standards, infusing rigorous academics into career pathways, and increasing the porosity between traditional regular high school and CTE programming.

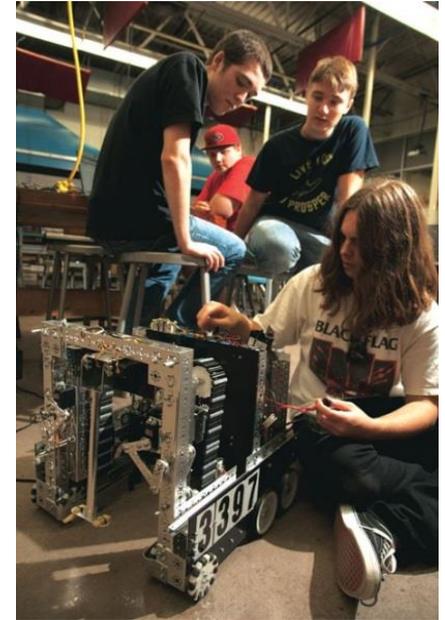


Alignment with Governor Scott's priority: Affordability (find cost-effective ways to share resources between CTE and gen ed)

# How will we accomplish this?

Improve postsecondary participation by students who are growing up in adversity or are the first in their families to go to college by leveraging dual enrollment, partnerships with colleges and CTE pathways to ensure that:

- beginning in middle school, students are exposed to the career opportunities in high-wage, high-growth sectors that are associated with post-secondary degrees or advanced IRCs, and
- while still in high school, students successfully earn college credits that move them towards these post-secondary goals.



Alignment with Governor Scott's priorities:  
vulnerable populations, grow the economy

# How will we accomplish this?

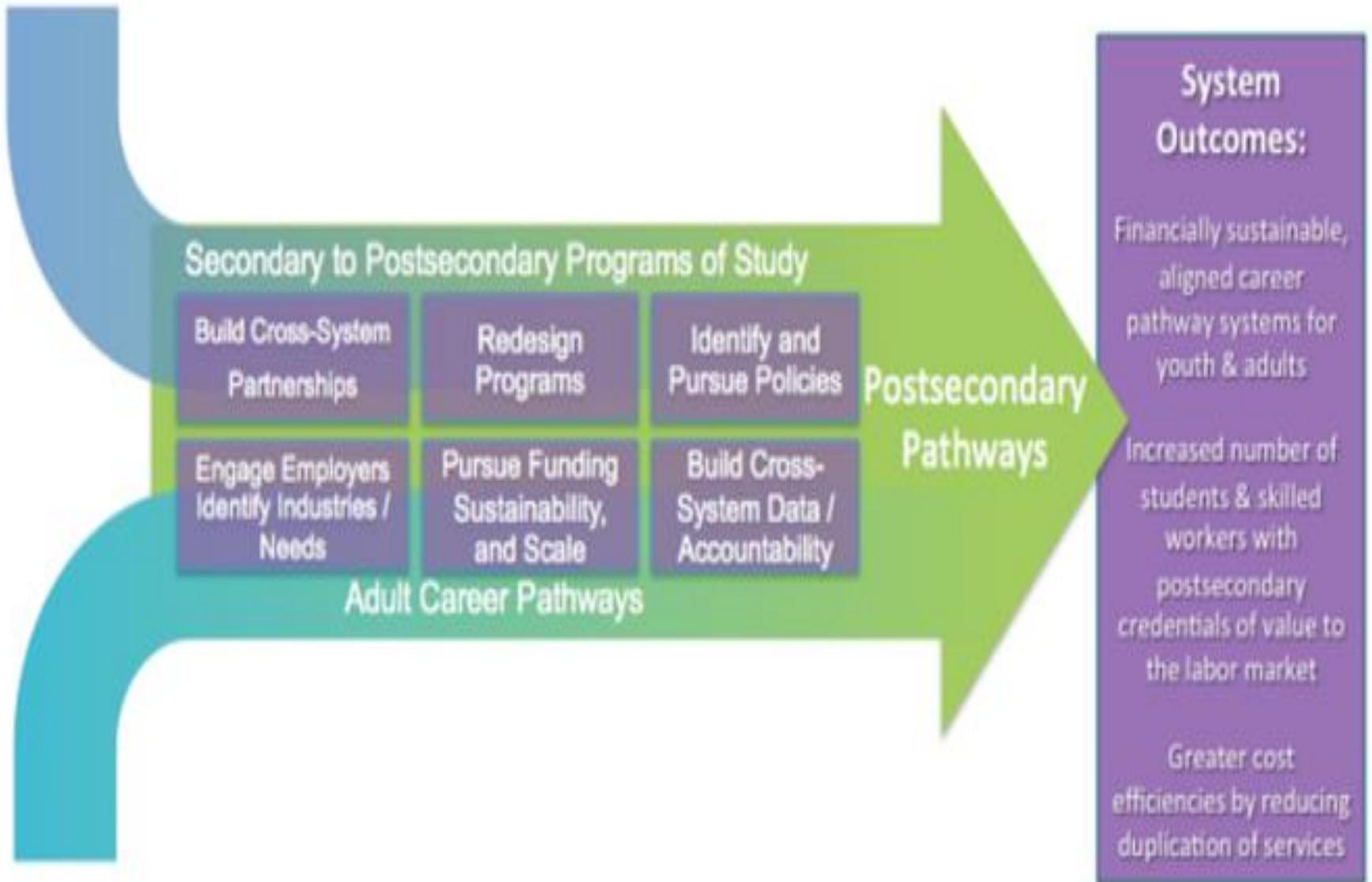
In partnership with high schools, regional CTE centers, business and industry, the Department of Labor and postsecondary institutions, develop robust model career pathways in three high-priority sectors: **construction sciences/building design, health careers, and manufacturing/IT.**

- Pathways will integrate information about the education and training required at each step, relevant registered apprenticeships, work-based learning opportunities and employer-led training initiatives.
- Alignment with Governor Scott's priority: grow the economy

# Key Solution: Career Pathways

Series of interconnected education and training strategies, and support services, that enable individuals to

- secure industry recognized certification
- obtain employment within an occupational area, and
- advance to higher levels of future education and employment in that area.



# Accomplishments to Date

- Hiring Statewide Career Pathways Coordinator
  - Initial work underway
- Vermont Talent Pipeline Management initiative
- AOE/VDOL collaboration
  - Rutland/REDC
  - Apprenticeship program
- S.135 Report/recommend



# Questions?

