

# Career Technical Education

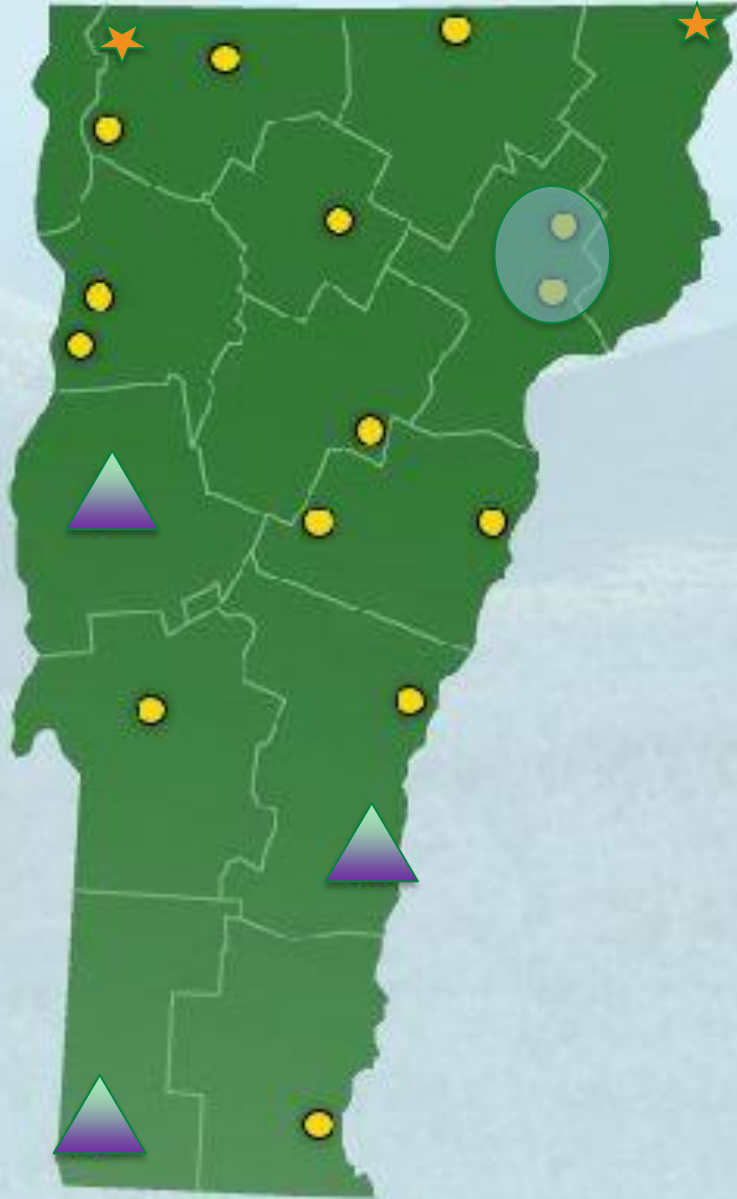
Jay Ramsey,  
Assistant Director, Student Pathways Division;  
State Director, CTE



March 12, 2019

# Agenda

1. Introduction to CTE & AOE team
2. Current Initiatives
3. Making a strong CTE/Early College connection

# 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

# What is CTE?

- Set of courses and experiences that help students gain the **technical skills and knowledge, academic foundation and real-world experience** for high-skill, high-demand, high-wage **careers**
- Key state resource for **contextualized learning**
- Prepares students for college and career
- Who can participate in Vermont?

# CURRENT INITIATIVES

# Recent Legislative Activity

- 2013
  - Act 77 of 2013 “Flexible Pathways”
- 2014
  - **Workforce Innovation and Opportunity Act – Federal**
- 2015
  - **Every Student Succeeds Act – Federal**
  - Act 51 of 2015 “Economic Development”
- 2017
  - Act 69 of 2017 “Workforce Development”
- 2018
  - Act 173 of 2018 “Enhancing the effectiveness, availability, and equity of services provided to students who require additional support”
  - Act 189 of 2018 “Economic Development”
  - **Strengthening Career & Technical Education Act (2018) – Federal**

# Near Term (1-2 yrs) Projects & Priorities

- CTE Vision
- Act 189 Implementation
  - Pilots
  - Technical Assistance
  - 2020 Reports
- Perkins V State Plan development

# Near Term (1-2 yrs) Projects & Priorities

- Career Pathways Development
  - Cybersecurity
  - Advanced Manufacturing
  - Construction
  - Health Sciences
- Continuous support & assistance relating to general education and CTE



# Strategic Vision for CTE

Our **vision** for career technical education is:

All Vermont learners attain their post-secondary goals by having access to career and technical education systems that are equitable, efficient, integrated and collaborative.



High Quality &  
Aligned



Collaboration  
Among &  
Coordination  
Between



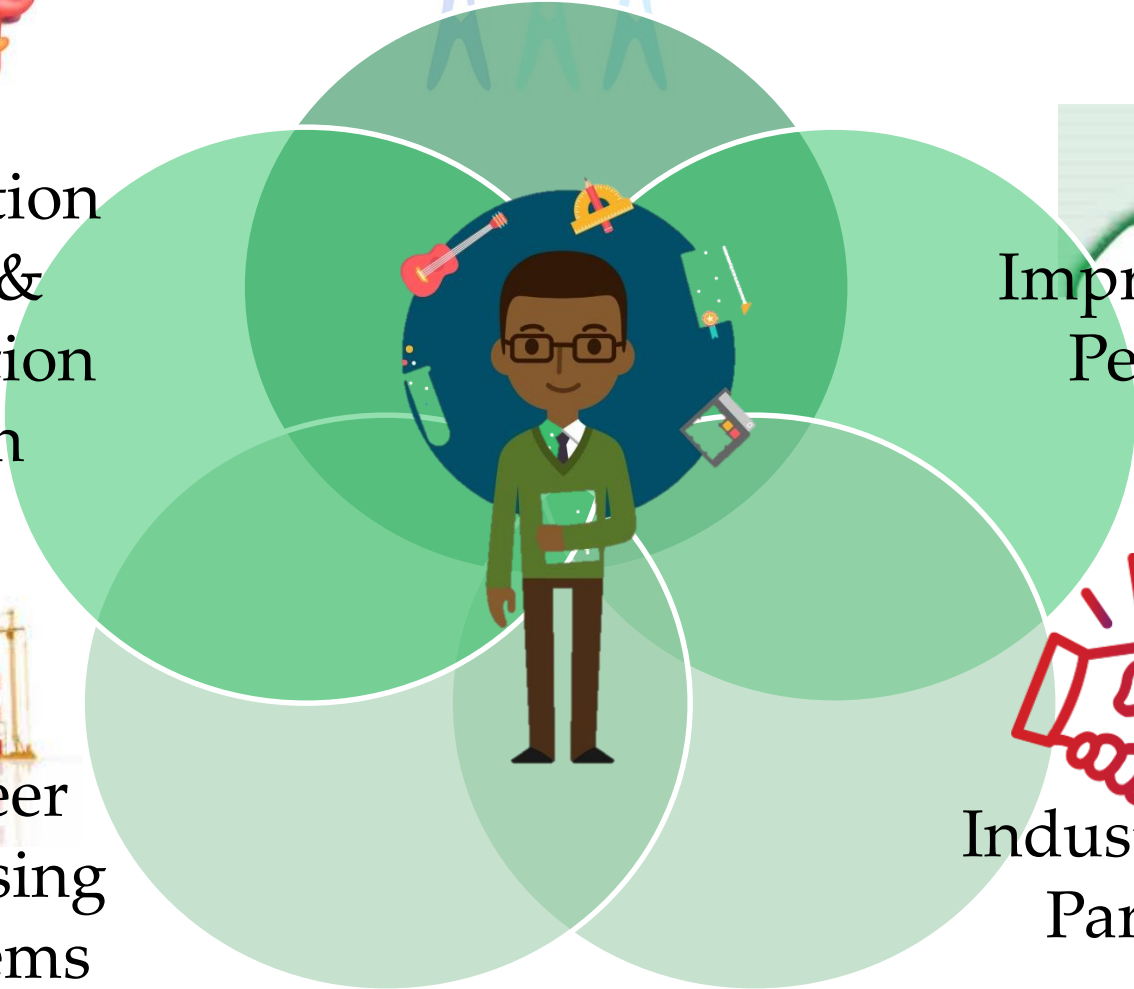
Improve Public  
Perception



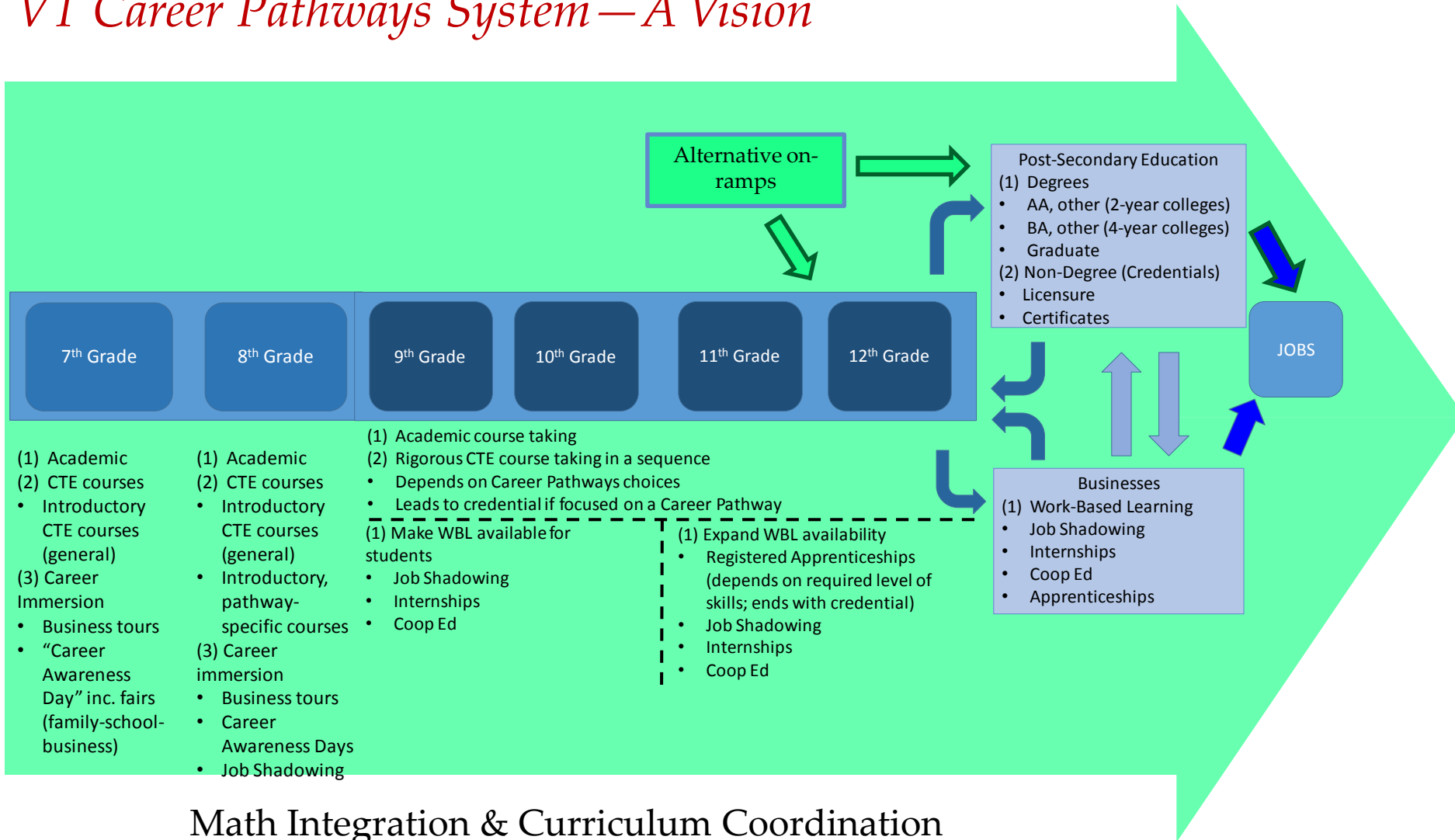
Career  
Advising  
Systems



Industry as a  
Partner



# VT Career Pathways System – A Vision



Math Integration & Curriculum Coordination

Comprehensive Career Guidance, Exploration, and Development

# Career Pathways—Musts...

Have multiple entry and exit points

Transition seamlessly from secondary to postsecondary

Allow for college credit and industry certifications in high school

Strengthen strong work-based learning in partnership with business & industry

Have state-wide and regional workforce relevance

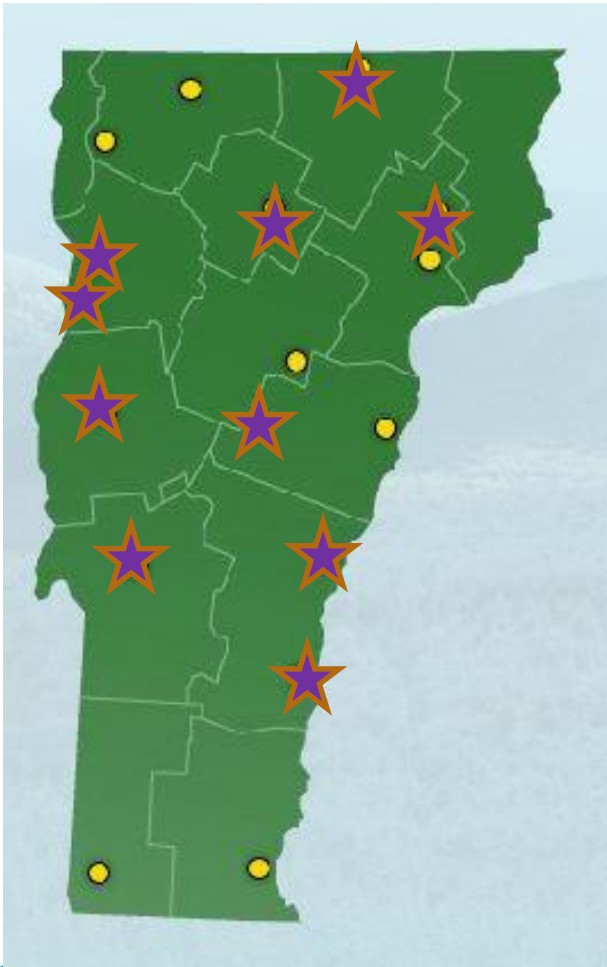
- Math Integration & Curriculum Coordination
- Comprehensive Career Guidance, Exploration, and Development

# Career Pathways



# CYBERSECURITY

## Pathway Partners



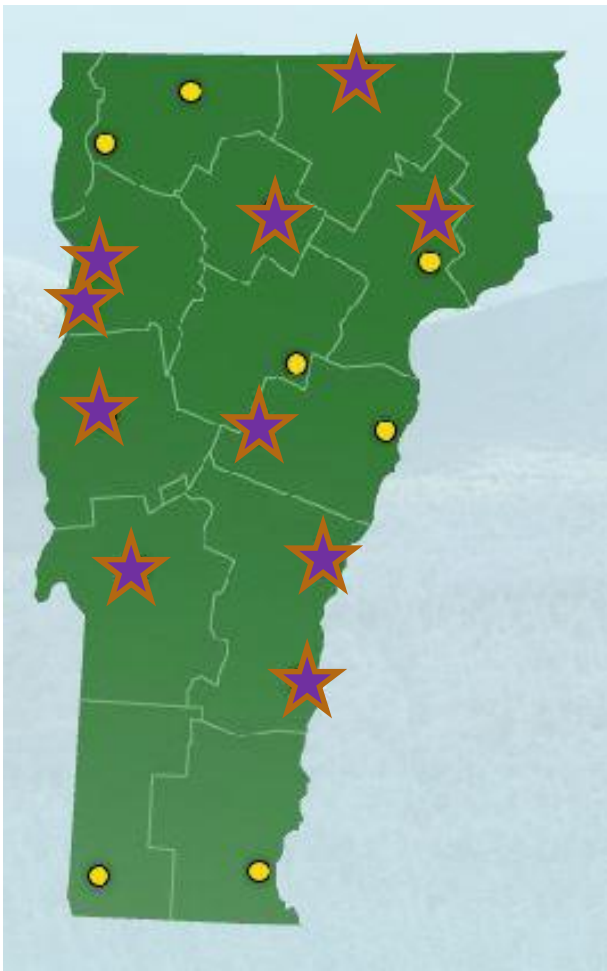
### Post-Secondary:

- Norwich University
- Champlain College
- UVM
- CCV

### Employers/Resources:

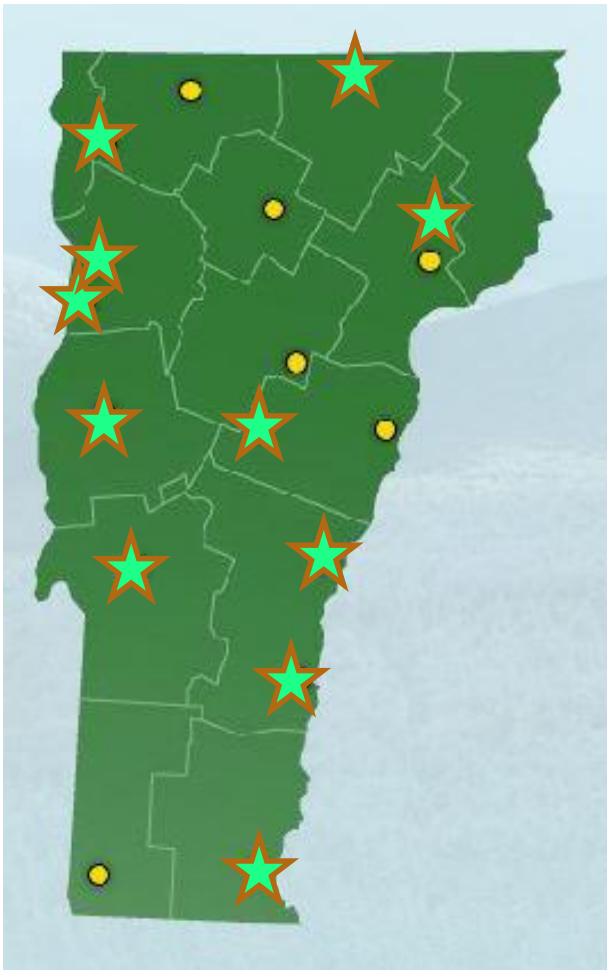
- National Initiative for Cybersecurity Education
- State of Vermont
  - ADS
  - DPS
- 5 companies in Cybersecurity
- Cross Industry Employers

# CYBERSECURITY Pathway ACCOMPLISHMENTS



- Grow from 5 “IT” programs with low enrollments to 10 cyber security programs
- Teachers identified 2 options for curriculum
- 5 colleges ready to go
- Collaborating with VT Homeland Security
- Next STEPS

# ADVANCED MANUFACTURING Pathway Partners



## Post-Secondary:

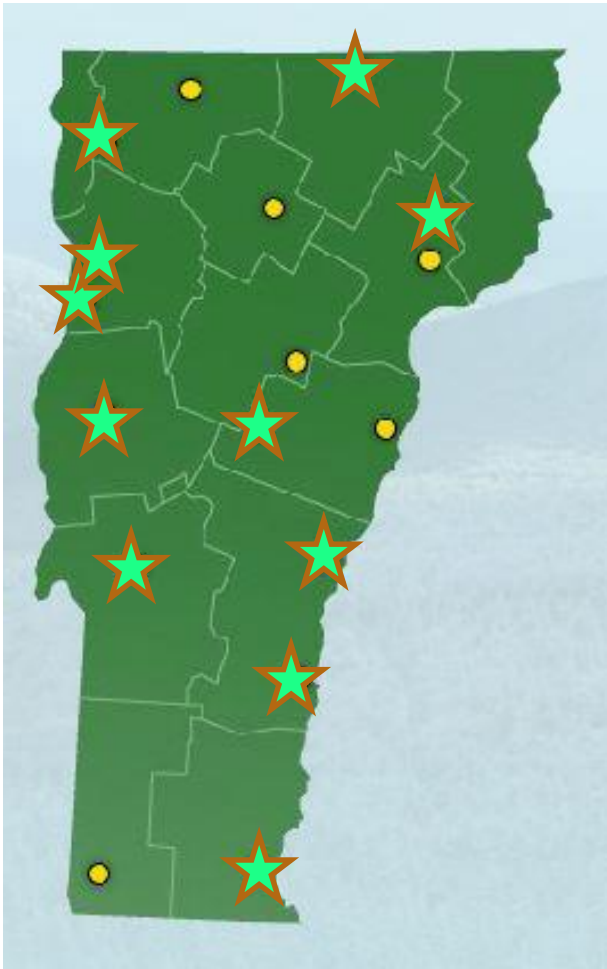
- UVM
- Vermont Tech
- CCV

## Employers/Resources:

- 5 RDCs
- 58 Employers



# ADVANCED MANUFACTURING Pathway ACCOMPLISHMENTS



- Grant to Randolph to begin a program, they are working with VTC
- Supported technical centers in three regional meetings with employers
- Curriculum advisory group formed
- Exploring curriculum & resource options
- NEXT STEPS

# CONSTRUCTION

## Pathway Partners



### Post-Secondary:

- Norwich University
- Vermont Tech

### Employers/Resources:

- ABC VT/NH
- Vermont Department of Labor
- Vermont Talent Pipeline
  - 18 Employers

# CONSTRUCTION Pathway ACCOMPLISHMENTS



- Employers agreed to recognize National Center for Construction Education & Research (NCCER) Core certification
- Agency of Education endorsed NCCER & Supported training of teachers and some employers
- Next STEPS

# Making Strong CTE/Early College Connections

# Parameters to Consider

- Focus on areas where career pathways are being developed (state-wide curriculum)
  - Health Science –
    - Therapeutic Services (Practical Nursing, RN)
    - Diagnostic Services (Radiographic Tech, etc...)
  - Advanced Manufacturing –
    - Mechatronics
    - Engineering
  - Construction Management

# Parameters to Consider

- Average Hourly Rate of target occupations
- Highest projected openings (LMI)
- Require high school and CTE partnerships
  - Ensure curriculum alignment
  - Ensure college **and career** counseling in place
  - Ensure fiscal prioritization and credit granting

# Parameters to Consider

- State-wide approach vs. center to center
- Implications for current funding system(s)
- How will we know this is successful?
  - Reduced time to degree completion?
  - Higher persistence rates?
  - Increased 6 month/3 year follow-up “employed in related area” responses
  - Reduced student loan debt?

# Avoiding Unintended Consequences

- Avoid the financial “double-dip” of CTE entitlement & participation in EC
- Will adults without diplomas participating in CTE be allowed to participate?
- How will the effort be sustained beyond this initial effort?
- How will a successful effort be expanded to ensure equity?



# QUESTIONS?

**Jay Ramsey**

Assistant Director, Student Pathways Division

State Director, Career Technical Education

[jay.ramsey@vermont.gov](mailto:jay.ramsey@vermont.gov)

802-479-1343

# REFERENCES

- Strategic vision: <https://biznakenya.com/innovating-yourself-to-innovate-the-world/>
- Public Perception Image: <https://www.freepik.es/fotos-vectores-gratis/search-searching>
- Industry Partner Image: <https://www.ciena.com/partners/>
- Advising: <https://mkecc.edu/career-college-vs-community-college/>
- Collaboration: <http://www.crosscollaborate.com/2010/06/collaborative-leadership-eshift-the-burden-thinking/>
- Lightbulb: <https://www.newmiamiblog.com/2014/08/29/miamis-entrepreneurial-landscape/>
- VT-189 Sign: <http://worldofsigns.com/signs/1421/interstate-189-vermont/>
- 5 Elements of Apprenticeship: <https://www.techhelp.org/apprenticeship-programs-gain-traction-idaho/>