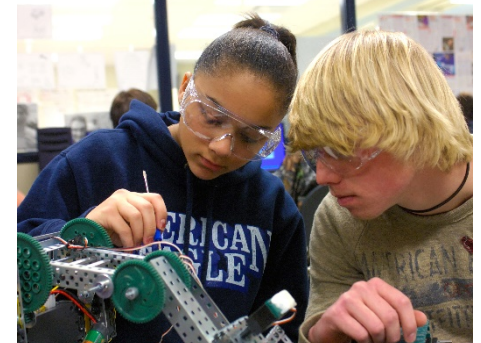
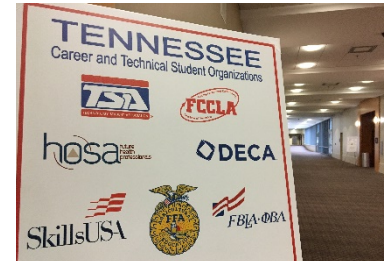




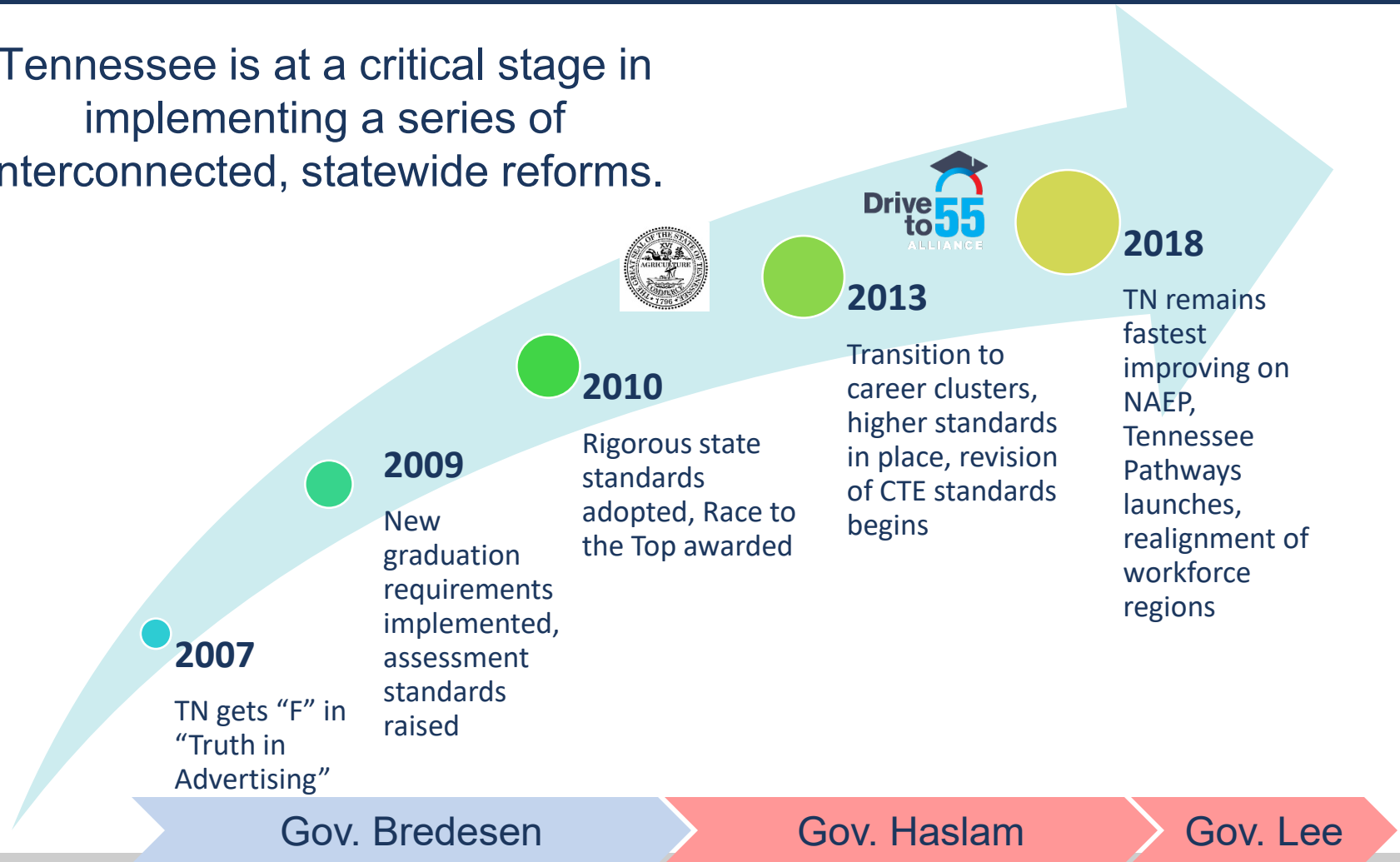
Career & Technical Education in Tennessee

Rich History: CTE in Tennessee



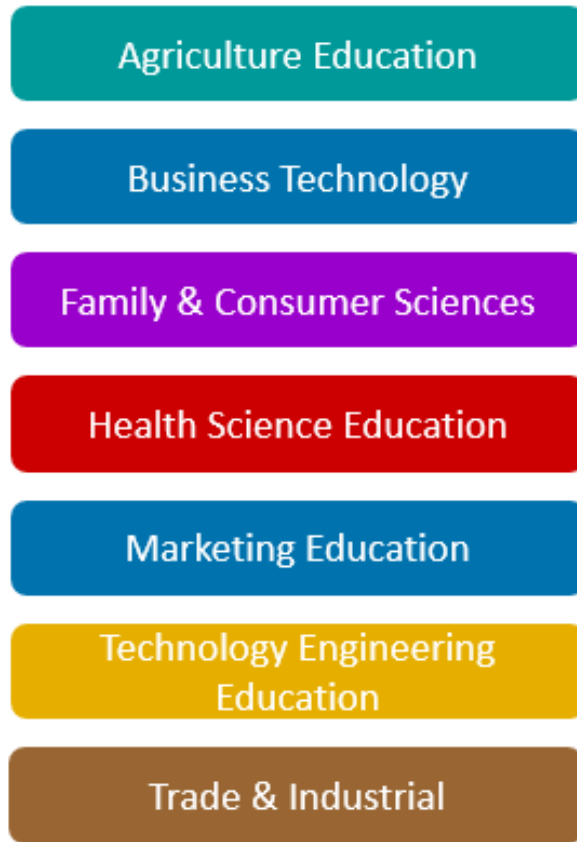
CTE in Tennessee: In need of reform

Tennessee is at a critical stage in implementing a series of interconnected, statewide reforms.



CTE in Tennessee

Former: 7 Broad “Program Areas”



Current: 16 Nationally Recognized “Career Clusters”



CTE in Tennessee

Program of Study	Level 1	Level 2	Level 3	Level 4
Mechatronics	Principles of Manufacturing (5922)	Digital Electronics (5925) -or- Robotics & Automated Systems (6143) -or- Project Lead the Way (PLTW) Computer Integrated Manufacturing (6055)	Mechatronics I ¹ (6156) -or- Dual Enrollment Mechatronics (4063)	Mechatronics II ¹ (6157) -or- Manufacturing Practicum (5926) -or- Dual Enrollment Mechatronics (4063)
	Industry Certification: Machining Level I - Measurement, Materials, and Safety Certification (NIMS) -and/or- OSHA 10 -and/or- Precision Measurement Instruments Certification (includes all subtests)	Industry Certification: FANUC only with Robotics & Automated Systems (6143)	Industry Certification: OSHA 30 General Industry	Industry Certification: Level 1 Siemens Certified Mechatronic Systems Assistant -and/or- OSHA 30 General Industry
Digital Arts & Design	Digital Arts & Design I (6084)	Digital Arts & Design II (6086)	Digital Arts & Design III (6087) -or- Dual Enrollment Arts & Design (4078)	Applied Arts Practicum (6158) -and/or- AP Studio Art: 2-D Design (3545) -or- Dual Enrollment Arts & Design (4078)
			Industry Certification: Adobe Certified Associate	

CTE in Tennessee: Then & Now

Before Reforms

2018 Results

Participation:

- Less than 26,000 students concentrate in CTE
- No incentives for earning EPSOs/industry credentials
- EPSO Participation ~ 20%

- Over 37,000 students concentrate in CTE
- Accountability for readiness using EPSOs/industry credentials
- EPSO participation > 50%

Alignment:

- Only 26% of students concentrate in a CTE program leading directly to a regional high-demand occupation

- 76% of CTE programs directly aligned to regional labor market needs
- Growth of in-demand industries (Advanced Manufacturing 300%)

Outcomes:

- Postsecondary enrollment gap
- ACT composite below average

- Postsecondary enrollment gap closed
- ACT composite above average

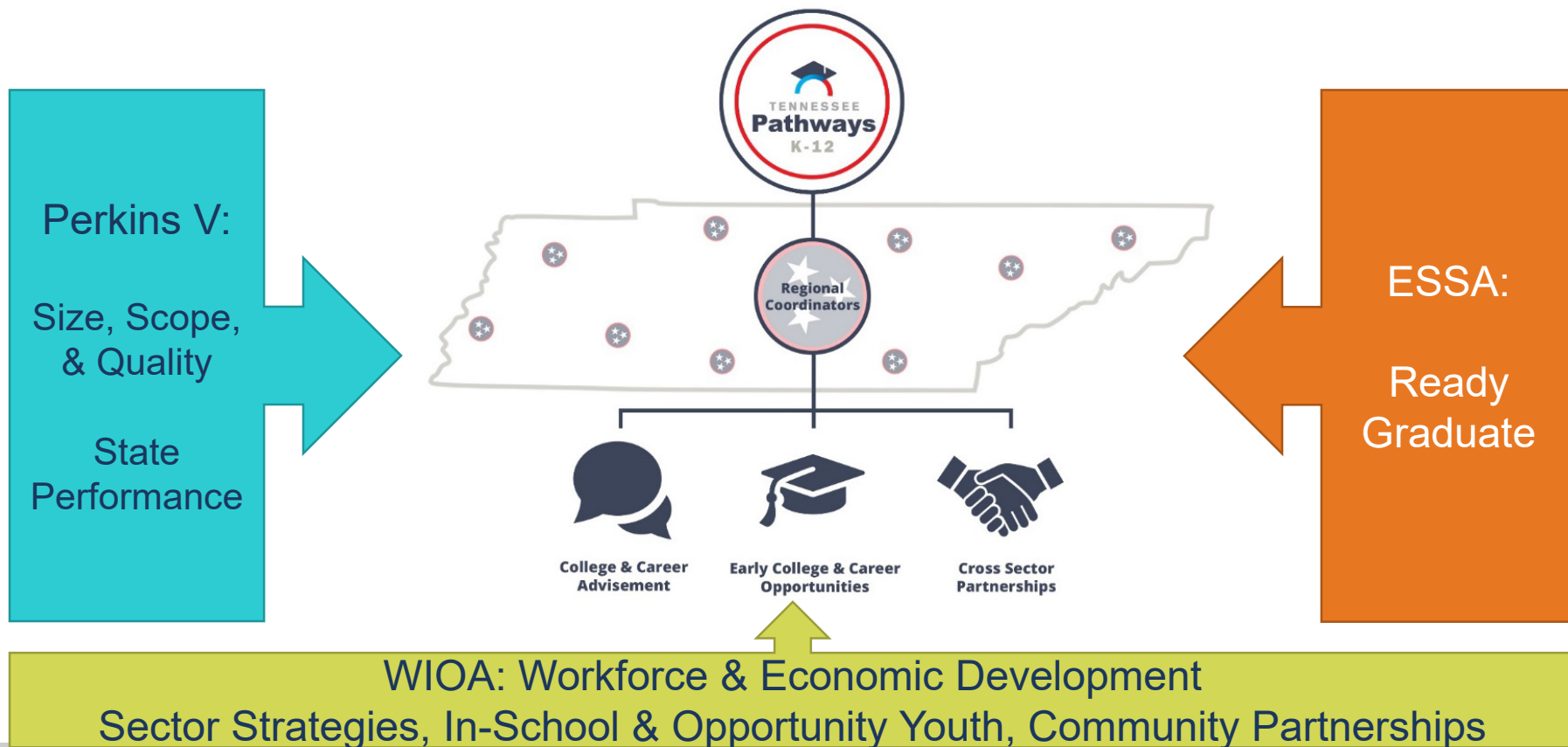
Rethinking CTE through Perkins V



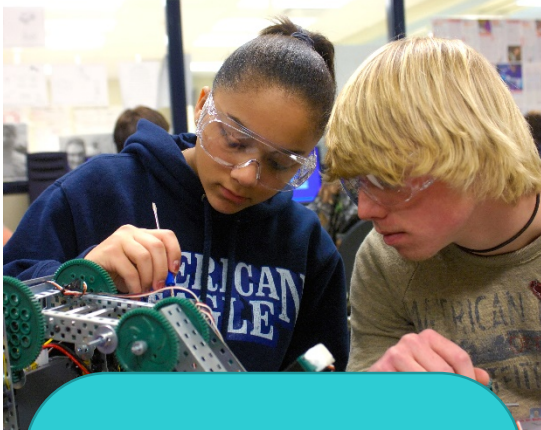
Expand opportunities for every student to explore, choose, and follow vertically-integrated programs of study and career pathways which lead to quality industry certification and early postsecondary credit attainment.

CTE in Tennessee: Pathways

Tennessee Pathways is the K-12 strategy to ensure more students are contributing to the Drive to 55 attainment goal.



CTE in Tennessee: So, What's Next?



Equity

- Data deep dives for diagnostics
- Strategic action planning



Work-Based Learning & Apprenticeships

- Program models
- Quality placements



Innovation & Success

- Teacher prep
- HS redesign
- Focus on student outcomes