

No Time to Lose



How to Build a
World-Class
Education System
State by State



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NATIONAL CONFERENCE *of* STATE LEGISLATURES

Agenda Item VIII B (EDUCATION)
Meeting Date: 02-15-18



About NCSL

- Bipartisan instrumentality of all 50 state and territorial legislatures
- Provides research, technical assistance and opportunities to exchange ideas
- Advocates on behalf of state legislatures before the federal government

NCSL is committed to the success of state legislators and staff. Founded in 1975, we are a respected bipartisan organization providing states support, ideas, connections and a strong voice on Capitol Hill.



What We'll Accomplish Today: 3 goals

1. Start with shared understanding of NCSL's International Education Study Group and No Time To Lose
2. Catch up on the Study Groups CTE learnings so far
3. Highlight takeaways from Switzerland and hear what's next



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NCSL International Education Study Group

- ❑ 22 legislators and 6 legislative staff
- ❑ Studied the 10 top performing countries/provinces: Alberta, Ontario, Estonia, Finland, Hong Kong, Japan, Poland, Shanghai, Singapore, Taiwan
- ❑ Studied with 25 international/state education experts



Common Element #1

Children come to school ready to learn, and extra support is given to struggling students so that all have the opportunity to achieve high standards.



Common Element #2

A world-class teaching profession supports a world-class instructional system, where every student has access to highly-effective teachers and is expected to succeed.



Common Element #3

**A highly-effective,
intellectually rigorous system
of career and technical
education is available to those
preferring an applied
education.**



Common Element #4

Individual reforms are connected and aligned as parts of a clearly planned and carefully designed comprehensive system.





Action Steps for States (not U.S.)

- ✓ **Build an Inclusive Team and Set Priorities**
- ✓ **Study and Learn from Top Performers**
- ✓ **Create a Shared Statewide Vision**
- ✓ **Benchmark Policies**
- ✓ **Get Started on One Piece**
- ✓ **Work Through “Messiness”**

Invest the Time



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Common Element #3

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9 Building Blocks For a World-Class State Education System



1. Provide strong supports for children and their families before students arrive at school
2. Provide more resources for at-risk students than for others
3. Develop world-class, highly coherent instructional systems
4. Create clear gateways for students through the system, set to global standards, with no dead ends
5. Assure an abundant supply of highly qualified teachers
6. Redesign schools to be places in which teachers will be treated as professionals, with incentives and support to continuously improve their professional practice and the performance of their students
7. **Create an effective system of career and technical education and training**
8. Create a leadership development system that develops leaders at all levels to manage such systems effectively
9. Institute a governance system that has the authority and legitimacy to develop coherent, powerful policies and is capable of implementing them at scale



Common Element #3

A highly-effective, intellectually rigorous system of career and technical education is available to those preferring an applied education.

- Applied curriculum
- No dead ends
- Employer engagement



The Study Group's Work on CTE

When	Who	From	What
December 2017	Ryan Reyna	Education Strategy Group	Promising CTE policies in the U.S.
December 2017	Nathan Driskell	National Center on Education and the Economy	Key comparisons between the U.S. and top performers
February 2018	Dr. Ursula Renold + Dr. Katherine Caves	ETH Zurich	Overview of Swiss VET System
March 2018	Gretchen Morgan	CareerWise Colorado	Overview of CareerWise
April-May 2018	TBD	TBD	TBD



NCSL's CTE Technical Assistance in the States (aligned to No Time to Lose)

When	State	Who	From	What
September 2017	Indiana	Dr. Ursula Renold + Dr. Katherine Caves	ETH Zurich	Overview of Swiss VET System
November 2017	New Mexico	Bob Schwartz and Amy Loyd Gretchen Morgan	Pathways to Prosperity Network CareerWise Colorado	Promising programs and policies in the US and comparisons between the US and top-performing countries



NCEE's CTE Technical Assistance in the States (aligned to No Time to Lose and NCEE's 9 Building Blocks)

When	State	Who	From	What
June 2017	Maryland	Bob Schwartz Mark Tucker + Betsy Brown Ruzzi	Pathways to Prosperity National Center on Education and the Economy	Comparisons between the US and top-performing countries



TAKEAWAYS: EXEMPLAR CTE SYSTEMS

Systems are built to:

- Be permeable
- Offer career pathways in a wide range of attractive careers
- Keep school-based teachers up-to-date with industry best practices
- Credential workplace trainers to work with youth
- Review industry qualifications on a regular basis

Students receive:

- Career guidance and counseling
- Authentic work-based learning experiences that are developmentally appropriate and connected to labor marker needs
- Assessments at school and at the work-based learning site



TAKEAWAYS: EXEMPLAR CTE SYSTEMS

Students completing CTE/VET programs:

- Have mastered STEM competencies and social skills
- Earn portable, industry-recognized credentials (skills and qualifications transferable among companies)
- Have both employment and post-secondary options

Outcomes for industry and employers:

Return on investment

Perceptions: CTE/VET is perceived as a high-quality pathway

Look at: Switzerland and Singapore



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Study Group Learnings on Swiss VET from ETH Zurich:

Why Switzerland?

- ❑ Applied curriculum
- ❑ No dead ends (permeable pathways)
- ❑ Employer engagement
- ❑ High VET participation
- ❑ **Outcome:** low unemployment



Study Group Learnings on Swiss VET from ETH Zurich:

Key Features of the Swiss System

Goals

Intentional System alignment

Employer and Industry Engagement

Student Apprenticeship Experience

Permeability



Study Group Learnings on Swiss VET from ETH Zurich:

Goals

- ❑ Prepare young people for the labor market by organizing a meaningful and effective educational process
- ❑ Offer progression routes within the whole education system

Source: Dr. Ursula Renold



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Study Group Learnings on Swiss VET from ETH Zurich:

Intentional System alignment

- Federal government
- Employer associations
- Cantons (similar to states)

Source: Dr. Ursula Renold



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Study Group Learnings on Swiss VET from ETH Zurich:

Employer and Industry Engagement

- Industry organizations
- Local employers

Source: Dr. Ursula Renold



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Study Group Learnings on Swiss VET from ETH Zurich:

Student Apprenticeship Experience

- ❑ Career counseling starts in primary school
- ❑ Programs take 3 years to complete, starting at age 16
- ❑ Students are paid between \$600-\$1200/month
- ❑ Students are at vocational school 1-2 days per week and at host company 3-4 days per week

Source: Dr. Ursula Renold



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Study Group Learnings on Swiss VET from ETH Zurich:

Student Apprenticeship Experience

Upon completing their apprenticeship, Swiss students:

- have a nationally recognized, portable industry credential
- can move into employment or continue on to higher education

Source: Dr. Ursula Renold



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Study Group Learnings on Swiss VET from ETH Zurich:

Permeability

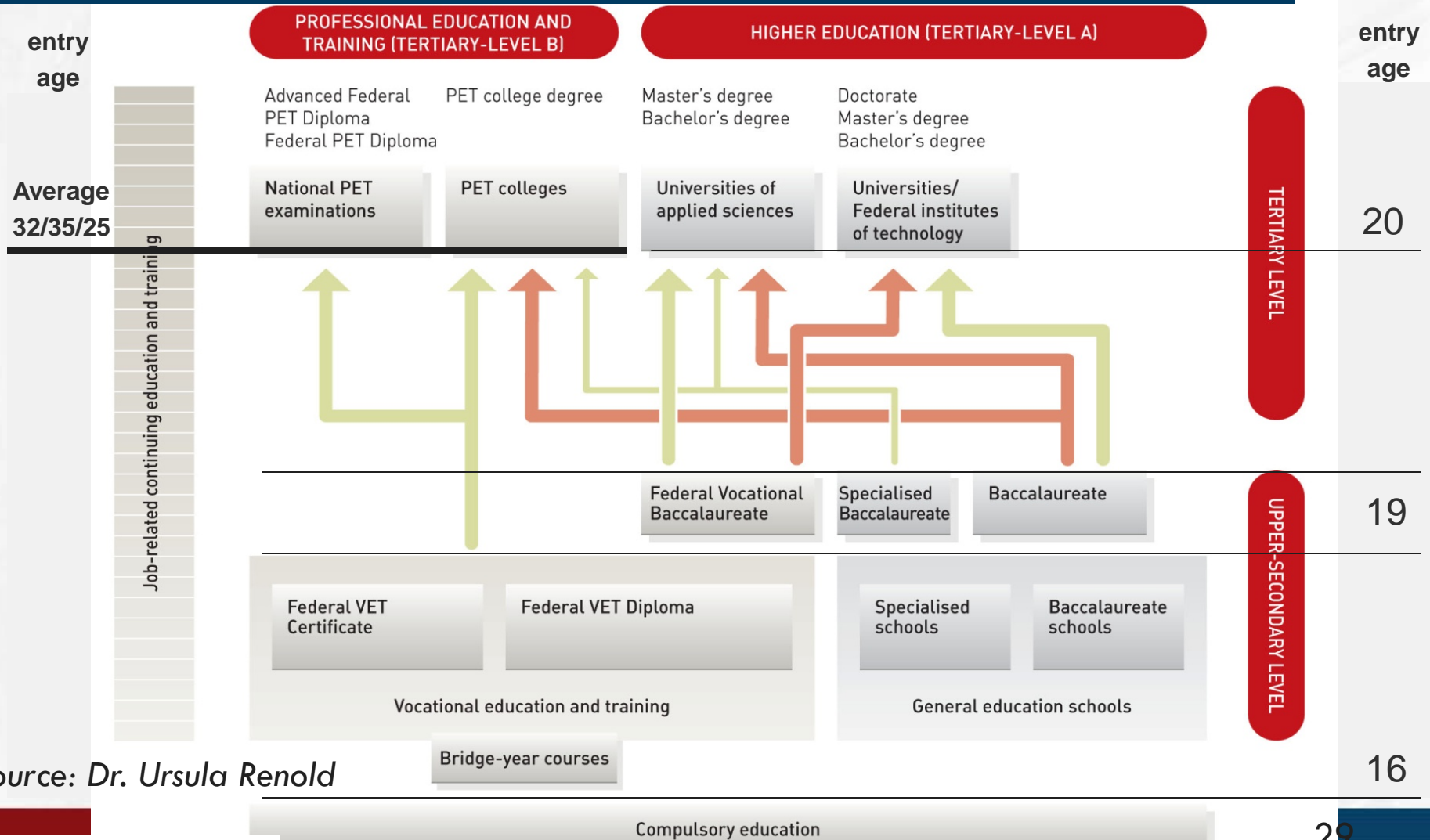
“No dead ends”

Source: Dr. Ursula Renold



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Study Group Learnings on Swiss VET from ETH Zurich:



Source: Dr. Ursula Renold

Direct access
Additional qualifications required

Compulsory education

Dr. Ursula Renold / Dr. Katie Caves, KOF Swiss Economic Institute, ETH Zurich

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What's Next?

- ❑ Continued study through webinars, in-person meetings
- ❑ Upcoming webinars on CTE
 - ▣ March 16
 - ▣ TBD: April-May
- ❑ Scheduled follow-up report release in Dec 2018
- ❑ Continued technical assistance and work in IN, MD, NM, NV and WI



More resources on CTE from NCEE:

- ❑ Gold Standard: The **Swiss** Vocational Education and Training System (Nancy Hoffman and Robert Schwartz)
- ❑ The Phoenix: Vocational Education and Training in **Singapore** (Marc Tucker)
- ❑ Made in **China**: Challenge and Innovation in China's Vocational Education and Training System (Vivien Stewart)
- ❑ VET Instructional Systems: Lessons for States (Ursula Renold, forthcoming)

All available for free on CIEB's website: ncee.org/cieb





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