# Strengthening the Career Readiness Data Ecosystem:

Introducing A Statewide Framework for Improving Policy and Practice

> Advance CTE March 4, 2021



## Speakers



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## Objectives

- Understand the core elements of a high-quality career readiness data ecosystem and state levers of change
- Access tools to evaluate and improve the quality of career readiness data
- Learn how Florida evaluated its career readiness data ecosystem to develop a statewide action plan



## New Resources





## Career Readiness Data Ecosystem

The broad universe of policies, technology, people and processes that facilitate the collection, analysis, reporting and use of data to support learners along their career pathways.



## Value of Data in CTE

- Equity
- Public transparency
- Research and program evaluation
- Continuous improvement
- Accountability



## CTE Data Challenges

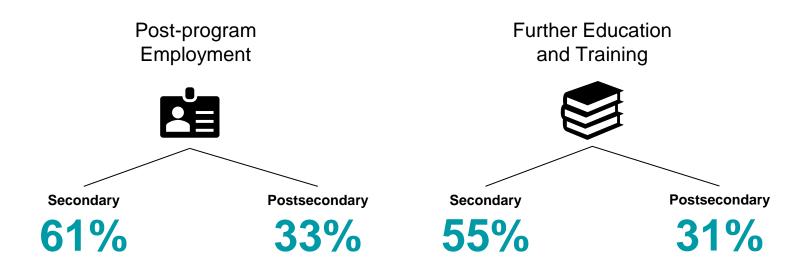


Only **45 percent** of State CTE
Directors say their CTE data
systems **provide the**information they need at
both the secondary and
postsecondary levels



## Reliance on Self-Reported Measures

#### States using survey data to measure learner outcomes

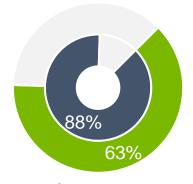


## Clarity/Consistency of Definitions

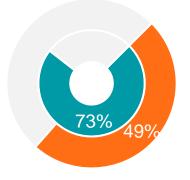
#### Secondary Industry-Recognized Credentials



Secondary Work-based Learning



Postsecondary Industry-Recognized Credentials



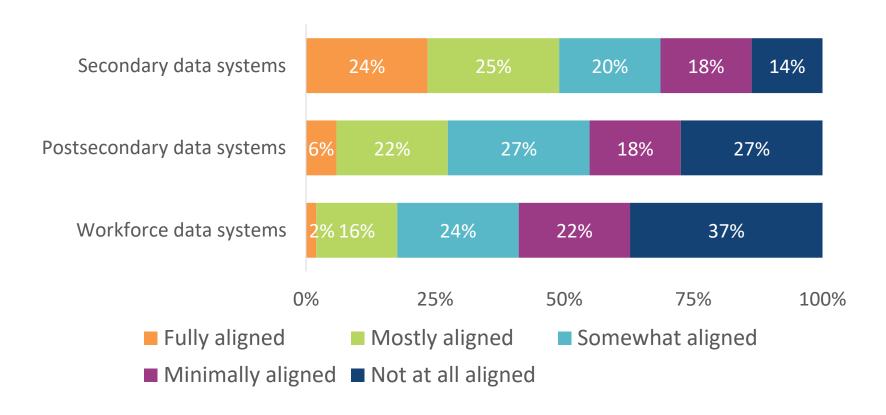
Dual/ Concurrent Enrollment



- Have a state-identified list
- Collecting data

- Have statewide definitions
- Collecting data

# Alignment/Interoperability of Data Systems





## Use of Data



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Influence decisions to transform or phase out programs

Influence state or federal funding decisions

Include in publicly reported data or in the state accountability system

Inform state policy and planning

Inform technical
assistance to
institutions and
programs or inform
local program
improvement
efforts

Least common use

Most common use



## Core Elements



1. Data is collected consistently and accurately



2. Processes and protocols are in place to ensure effective data governance



3. Data systems, policies and practices are fully aligned across agencies and learner levels



4. Information is relevant, timely and disaggregated



5. Practitioners and the public are equipped to understand and leverage data



6. Information is used effectively to promote quality and equity in career pathways





# Data is collected consistently and accurately

- ✓ Data is reliable and collected consistently around the state, across different career pathway programs and across institutions.
- Processes and protocols are in place to validate career readiness data.
- ✓ Stakeholders are aware of what the data represents, how it will be used and its limitations.





## Processes and protocols are in place to ensure effective data governance

- ✓ Roles and responsibilities for collecting, validating and reporting data are clearly laid out in statute and/or policy.
- Decisions related to the collection and use of career readiness data are coordinated across agencies and responsive to stakeholder needs.
- ✓ State agencies are sufficiently staffed and funded, and structures are in place to withstand personnel and political transitions.
- Measures are in place to protect the privacy of learner records.





## Data systems, policies and practices are fully aligned across agencies and learner levels

- ✓ Learner-level records are reliably linked across agencies and among states, as appropriate.
- ✓ The collection and reporting of career readiness data are coordinated and, to the extent possible, aligned across programs, agencies and learner levels.
- ✓ State agencies use common indicators and business rules for measuring career readiness and align their goals and performance targets.





# Information is relevant, timely and disaggregated

- ✓ All information is contextualized to provide a clear understanding of the career readiness system.
- ✓ Reports and dashboards are differentiated by user depending on their need and understanding of the data.
- ✓ Information is made available in a timely manner.
- ✓ Data is disaggregated by population, institution and career pathway and available to relevant users.





## Practitioners and the public are equipped to understand and leverage data

- ✓ Public reports are accessible and easy to understand.
- ✓ Professional development and technical assistance are provided to practitioners to build data literacy and help them leverage the data.
- ✓ A statewide career readiness communications strategy is in place that leverages career readiness indicators to tell a story of impact.





## Information is used effectively to promote quality and equity in career pathways

- Career pathway approval and renewal processes are data driven.
- ✓ State- and local-level decisionmakers regularly reflect and act upon data to inform policy and improve equity, access and quality.
- ✓ State and local leaders regularly identify and respond to opportunity gaps by race/ethnicity, gender and special population status to ensure equitable access to and success in career pathways.
- ✓ Local practitioners have access to real-time data that they use to target interventions.

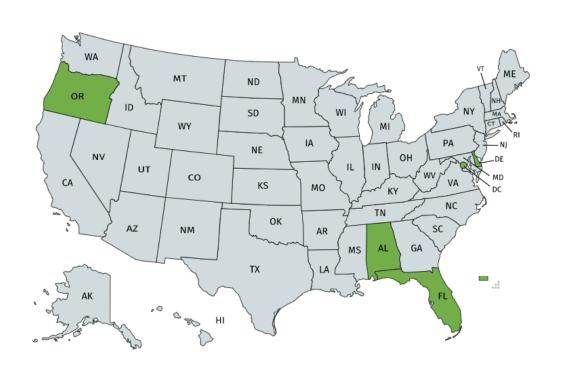


## State Levers of Change





# Advancing Postsecondary CTE Data Quality



- Supported by ECMC Foundation
- Two-year, stateled project to improve postsecondary CTE data

If It Matters,
Be
Systematic
Reflections on
Structuring Data
Initiatives

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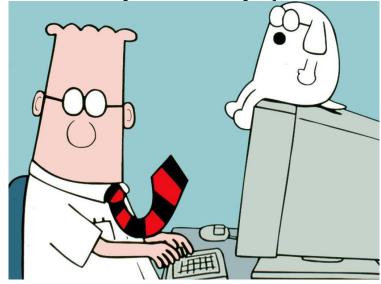
### Your Problem: Too Little & Too Much

You got into education to make a difference for students and to get big things done...

...but you don't have the resources to do it solo (too little!)

...and you work in a hulking bureaucracy (way too much!)

So, how do you stay productive?







## **Get Systematic**

Have a clear project lifecycle in mind. Be okay with making exceptions.

Stakeholder Engagement

Leverage Resources Identify Needs

Formulate Goals



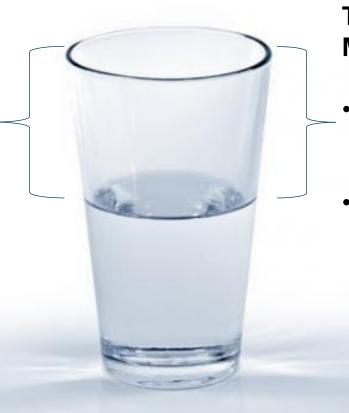


## **Be Simultaneously Pessimistic & Optimistic**



#### **Half-Empty Mentality**

- The glass is NOT as full as it could be and no one else is probably going to fill it
- Focus on problems perform a needs assessment using data and stakeholder engagement



## This Glass Will Be Full Mentality

- There is more water to pour in! This glass could be so full!
- Focus on finding the right solution (brainstorm, borrow from other agencies, research evidencebased practices)





## Context: FL Work-Based Learning Data Initiative

- The FDOE has received a two-year grant from the ECMC Foundation, which is administered by Advance CTE
- During this two-year grant period we hope to:
  - Outcome #1: Provide the information necessary for agencies and the FDOE to make informed decisions on resource allocation related to work-based learning participation, quality, and equity by 2023-24 for planning the 2024-25 school year.
  - Outcome #2: Increased work-based learning data transparency will spur a higher percent of
    postsecondary CTE students participating in WBL and a higher number of average WBL
    participation hours per student across the first three years of data availability 2024-25 through
    2026-27.
  - Outcome #3: FL's economy will be strengthened by higher placement rates, higher average starting salaries, increased credential attainment rates, and an increased number of employers involved in CTE by offering WBL by the year 2030.

More and Better Information

More and Better Work-Based Learning Improved Economic Outcomes



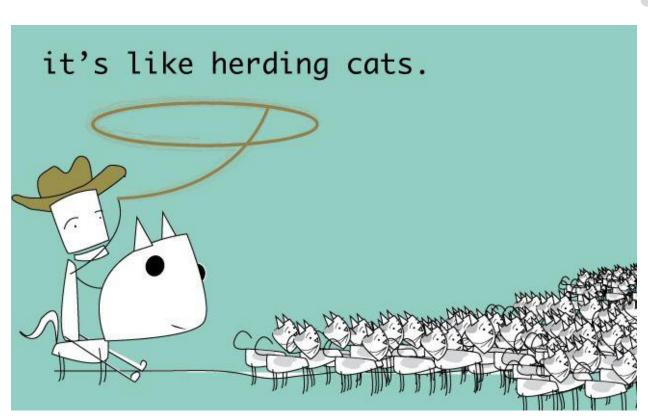


### **Get Out the Lasso**



Leverage Resources Identify Needs

Formulat Goals



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### Stakeholder Mental Model



Leverage Resources



Formulate Goals

Stakeholder Category	What They Can Offer	Role Characterization
Senior Leadership	Deep subject matter expertise Limited time availability	Oversight Insight Approval
Diverse Advisory Team	Broad subject matter expertise A medium amount of time availability	Subject matter expertise Thought partners
Core Team	Significant time investment	Worker bees In-depth writing, planning, research, and analysis





### Stakeholder Model in Action



Leverage Resources



Formulate Goals

Stakeholder Category	How They Were Engaged
Senior Leadership	<ul> <li>Vision formation</li> <li>High-level needs identification</li> <li>Final approval of plan and budget</li> </ul>
Diverse Advisory Team	<ul> <li>Mid-level detailed input on needs</li> <li>Problem solving of specific expertise areas</li> </ul>
Core Team	<ul> <li>In-depth engagement on synthesis, analysis, and writing</li> </ul>





## Stakeholder Model in Action – Needs Assessment (2 of 2)

Stakeholder Engagement

Leverage Resources Identify Needs

Formulat Goals

1. Data are collected consistently and accurately

In order to be trusted, policies and protocols must be career readiness data. If the data are accurate and will be used, public trust in the data will grow.

6 High-level Categories

f reliable, valid and complete they represent and how they

ants,"

A. Data are reliable and collected consistently

21 Mediumlevel Categories

- There are limited to no uniform definitions or business rules for collecting career readiness data.
- Career pathways participants and concentrators are identified manually at the local level and reported up to the state.
- There is limited to no statewide guidance for collecting, validating and submitting data.
- There are limited to no regular trainings provided to local data administrators.
- Spreadsheets are used to collect and report data to the state.

- Statewide definitions and business rules are in place to describe all data elements. Business rules are changed only in the interest of improvement or alignment to new legislation or policy, and data is
- Dozens of In-Depth Rubric Items
- Statewide guidelines clearly and effectively describe processes for collecting, validating and submitting data elements.
- Local data administrators have regular, sufficient and timely training (at least once a year) to ensure a full understanding of data rules, policies and technology.
- Local data administrators submit data directly to the state data system using a secure, web-based portal.

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#### Evidence

Community College & Technical Center Management Information Systems (CCTCMIS) and Workforce Development Information System (WDIS) gather data at the college and postsecondary district technical college/center level.



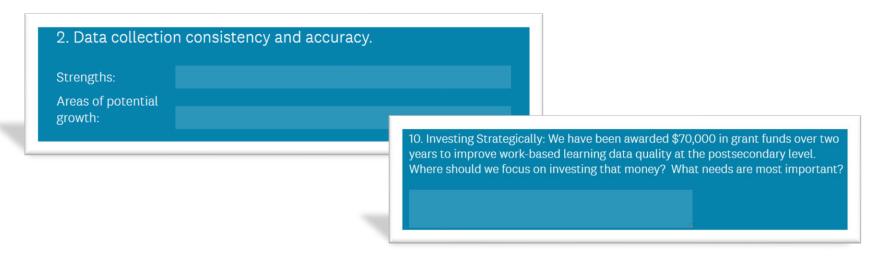


## Senior Leadership: High-Level Perspective and Approval



 Senior Leadership gave strengths/weaknesses and vision input on the 6 main categories of the Advance CTE needs assessment

Survey question examples:









## **Diverse Advisory Team Approac**

Leverage Resources Identify Needs

Formulat Goals

 Our broader group of stakeholders gave ratings on the 21 secondary needs assessment categories as well as overall strengths and weaknesses

18. A statewide career readiness communications strategy is in place that leverages career readiness indicators to tell a story of impact

1 - Undefined
2 - Building
3 - Promising
4 - Established

19. List Your State's Top Learning Data System Strengths:

20. List Your State's Top Learning Data System Challenges:



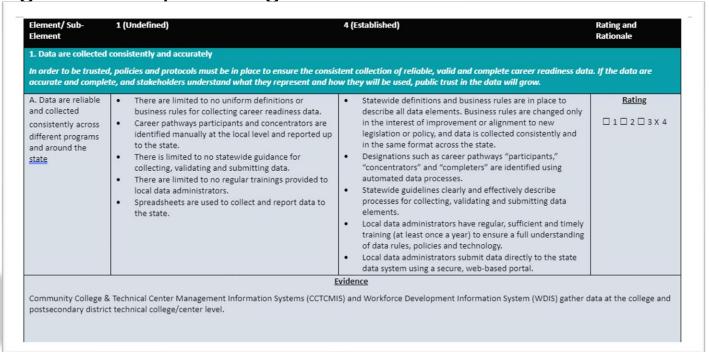


## **Core Team: In-Depth, Nitty Gritty Work**

The Core Team synthesized the input and conducted detailed work on Policy Benchmark Tool reading through in-depth needs assessment categories and providing evidence



Formulat Goals









Leverage Resources



Formulate Goals

## Strengths and Challenges

From the needs assessment, we knew FL had the following strengths to build from and challenges we'll need to overcome.

#### **Strengths**

- Longitudinal data system
- Data governance system
- Data submission calendar, dictionaries, guidelines
- Data verification process



#### **Challenges**

- CTE data dashboards
- Local and State data staff turnover







## Starting at the End



Goals

Long-Term Impacts				
Describe 3	3-4 long-term impacts of the initiative.			
1	Provide the information necessary for agencies and the FDOE to make informed decisions on resource allocation related to work-based learning participation, quality, and equity by 2023-24 for planning the 2024-25 school year.			
2	Increased work-based learning data transparency will spur a higher percent of postsecondary CTE students participating in WBL and a higher number of average WBL participation hours per student across the first three years of data availability - 2024-25 through 2026-27.			
3	FL's economy will be strengthened by higher placement rates, higher average starting salaries, increased credential attainment rates, and an increased number of employers involved in CTE by offering WBL by the year 2030.			
4				

#### Impacts:

- Improved WBL resource allocation decisions
- Expanded and improved WBL participation
- Stronger economy, improved student outcomes





## The Arc of Productivity

Training on Data
Collection





Formulate Goals

Quality WBL Data



Comprehensible WBL Data & Info



Allocation

FLORIDA DEPARTMENT OF EDUCATION

Data Element





Research and Stakeholder Engagement on Data Definitions



## Get Specific & Keep Asking 'Why?'



Year One SMART Goals		Year One Outcomes	
List 3-4 goals for the first year of the initiative. Make sure your goals are specific,		How will you measure the success of your Year One SMART goals? By the end of 2021,	
measurable, attainment, relevant and time-bound.		what outcomes will you achieve? Be specific.	
1	An outside consultant will draft a report by March 31, 2021 that	Information from this report will guide decisions rela	ited to the WBL
	outlines how other states define "work-based participation" and	work group drafting WBL data elements by May 28, 2	2021.
	"quality" as it relates to work-based learning.		
2	T. D		

- Formulated SMART goals and outcomes while focusing on listing:
  - Who the acting agent
  - What the deliverable
  - When the due date
  - Why the outcome





Leverage Resources

### Resource Identification

Like making a packing list for a long trip, list out everything you'll need, you have, and that you'll need to get. Including:

- Additional funding sources
- Staffing
- Partners
- Technology
- Other

#### Resources

List the resources available in your state, inc

#### Funding

What funds are available to support this initiative? Consider public dollars (Perkins V, state funding), philanthropic dollars and other sources of revenue.

#### Staffina

What is your staffing capacity to support this work? How many state-level personnel are available to support the implementation of this action plan?

#### **Partnerships**

Are there any existing partnerships with employers, state networks, associations, etc. that can support this work through in-kind support or other resources?

#### Technology

What infrastructure is readily available and can be leveraged to support this initiative?

#### Other

Are there any other resources that can be leveraged to support implementation of this action plan?





## Fill in the Gaps with Money



Process Step	Budgetary Reinforcement	
Research	<ul> <li>Surveying FL agencies</li> <li>Researching other states' approaches</li> </ul>	
<b>Definition Drafting</b>	<ul><li>Facilitated collaboration</li><li>Advisory stipends</li></ul>	
Training	<ul> <li>Training plan draft</li> <li>Advisory stipends</li> <li>Printing and distribution costs</li> <li>Travel costs</li> </ul>	
Data Collection & Transparency	Tableau subscriptions	
Data-Informed Decision Making	Report on how other states incentivize, fund, and support WBL	





### **Summary of Process**

### Stakeholder Engagement

- Create an engagement model
- Differentiate engagement based on expertise and availability

- Identify strategic assets
- Fill in gaps with funds

Leverage Resources Identify Needs

- Systemically go through all aspects of data ecosystem
- Identify strengths and weaknesses

Formulate Goals

 Start with the end in mind and work backwards





## My Contact Info

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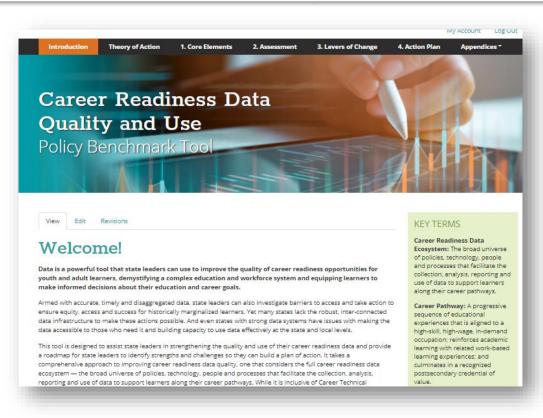
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## Tools and Resources



- Roadmap
- Needs assessment
- Action planning tool
- Case studies
- Resource repository

https://dataquality.careertech.org/



## Q&A





## Thank You

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