The P2C Labor Market System in Education Practice

District Information

Data Category	Data Displayed in System	Potential Application
District Facts	• *Number schools, teachers, and students* • *Student/teacher ratio*	• **District Comparisons** – quick reference for evaluating district size • **Distribution of Resources** – provides estimate of school size to approximate demand for programs and resources
Demographic Information	• *Population by age, gender, race, education, veteran status, veterans by age*	• **Identification of Education Needs** – assists in estimating needs at various K-12 and higher education levels, as well as needs related to diversity and cultural awareness
Labor Shed	• *Visual display of where people live and work* • *Radar map of direction people travel for work*	• **Connecting with Employers** – provides a sense of where people are working and employers to target in developing career pathways • **Prepare Students for Local Jobs** – identify popular work locations
Top Five Career Clusters	• *Top five career clusters by annual openings, wages, and largest projected growth*	• **Program Planning** – align programs with high-value fields of work • **Industry Partnerships** – identify top career fields and reach out to industry leaders to cultivate work-based learning opportunities

Local Occupation Information

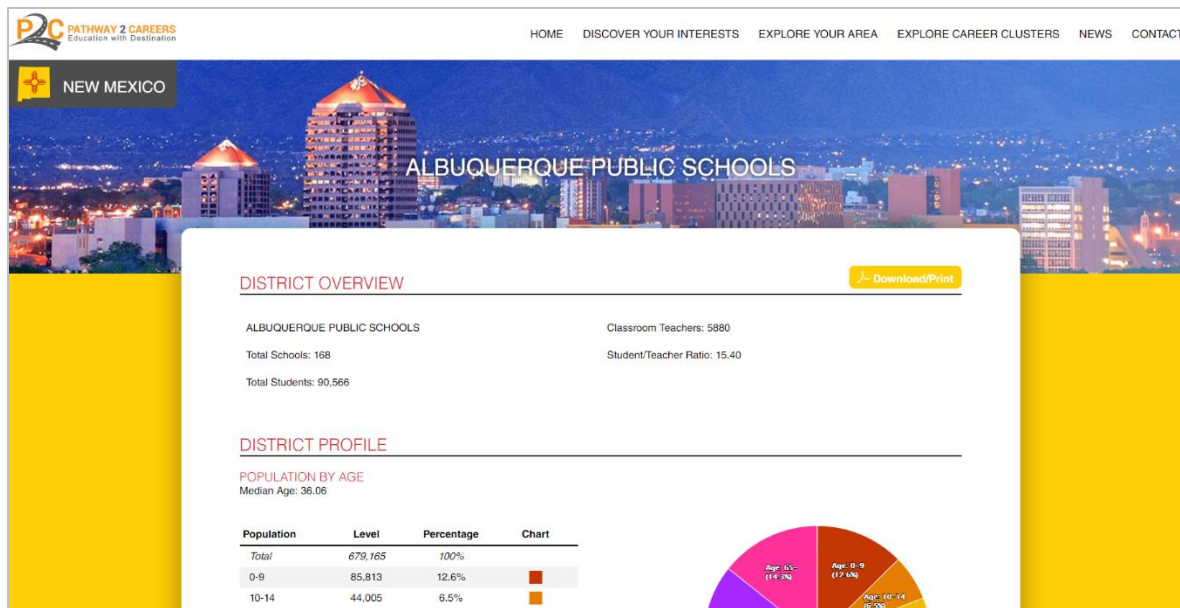| Data Category	Data Displayed in System	Potential Application
Career Clusters and Pathways	• *Career clusters and pathways identified for each occupation*	• **Planning and Instruction** – use associated clusters and pathways to determine program/course offerings, as well as skills to emphasize in classroom learning experiences
Market Demand	• *Annual openings* • *Projected new jobs* • *Growth rate*	• **Program and Content Focus** – support programs and emphasize content that helps students access high-demand careers • **Perkins V Reporting** – demonstrate alignment between education practices and local high-demand career opportunities
Wages	• *Median wages*	• **Strengthen Program Selection** – support programs that prepare students for high-demand <u>and</u> high-wage careers • **Perkins V Reporting** – demonstrate alignment between education practices and local high-wage career opportunities
Education Requirements	• *Job zone* • *Pathway descriptions and CTE courses* • *Cluster-specific programs of study*	• **Focus Education Targets** – use education information to determine courses, programs, and degree levels that best prepare students for local high-value jobs

District Snapshot

The district data provides a quick snapshot of district size, demographics, work travel patterns, and top career clusters. This information aids in basic **district comparisons and assessing general needs**. Smaller districts, for example, will have resource needs that differ from larger districts. Likewise, districts with larger populations of young children will have a greater need for elementary services. Travel patterns and top career clusters **identify popular work locations and career fields** that can inform practices that prepare students for entry into their local workforce.

High-Value Careers in Local Regions

The occupation data provides insight into market demand and wages for occupations. Information, such as annual openings and growth rates, reveal local jobs that are projected to be in high-demand. Median wages point to occupations that will provide a living wage or better. Occupations can be classified as high-value when both demand and wages are expected to be high.

This data can be used to **generate a list of high-value occupations for a district's region**. These high-value careers serve as useful targets for education practices that can **focus program planning, classroom instruction, career counseling, and parental involvement on preparing students for good jobs in their region.**

Career Cluster Description: Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Occupation - Cluster	Annual Openings	Median Wages	Projected New Jobs	Growth Rate	Pathway	Job Zone/ Education
Registered Nurses - Health Science	661	$64,710	2761	16.90%	Therapeutic Services	3
Medical & Health Services Managers - Health Science	90	$87,810	339	15.30%	Diagnostic Services, Health Informatics, Therapeutic Services	5
Licensed Practical & Licensed Vocational Nurses - Health Science	77	$46,620	136	6.15%	Therapeutic Services	3
Physical Therapists - Health Science	73	$87,930	404	32.55%	Health Informatics	5
Pharmacists - Health Science	56	$119,660	159	9.19%	Biotechnology Research and Development, Therapeutic Services	5

Education Requirements for Careers

The career clusters and pathways mapped to each occupation provide the ability to **identify basic skill requirements for careers**. Overviews of the clusters and pathways, along with associated programs and CTE courses, reveal general areas of study. Furthermore, job zone information indicates the amount of education and training needed for entry into an occupation (i.e., certificate and degree level). Additional information is readily available within the National Career Clusters Framework, where detailed summaries for each of the sixteen career clusters and seventy-nine pathways are provided.
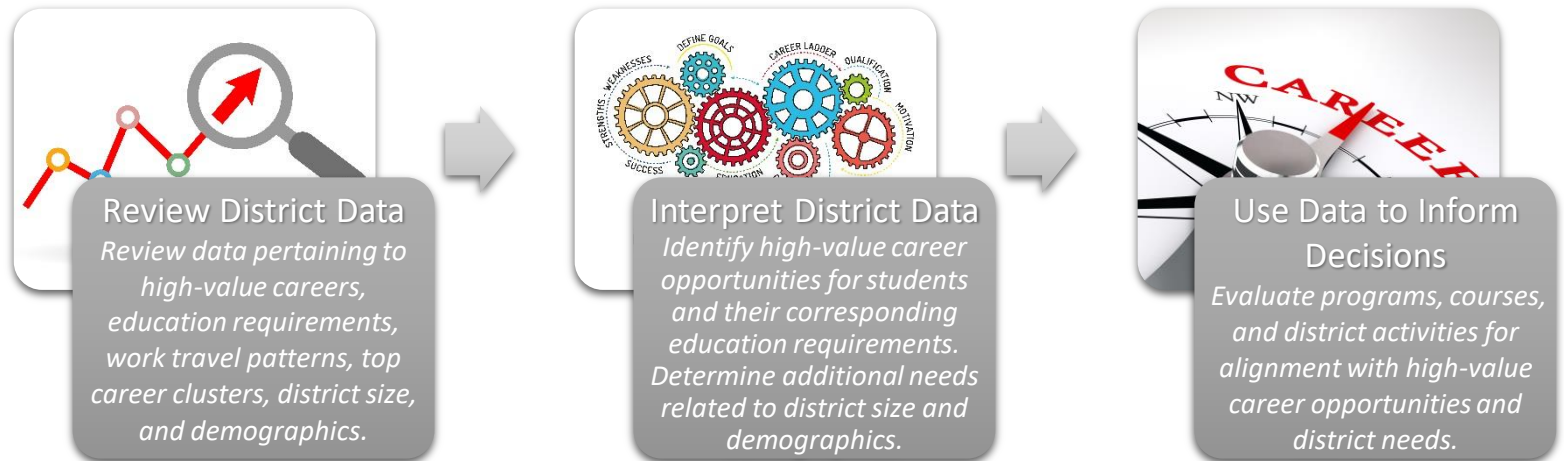
A useful application of this information is to **align education practices with local high-value careers.** This is accomplished in listing high-value careers and outlining associated knowledge and skill requirements for these careers. As a whole, this provides a powerful tool that pinpoints what students need from their education experiences to access good jobs. Placing this tool at the center of education practice can ensure activities and outcomes are directed toward preparing students for the best employment opportunities.

Agriculture, Food and Natural Resources	Architecture and Construction	Arts, Audio/Video Technology and Communications	Business Management and Administration
Education and Training	Finance	Government and Public Administration	Health Science
Hospitality and Tourism	Human Services	Information Technology	Law, Public Safety, Corrections and Security
Manufacturing	Marketing, Sales and Service	Science, Technology, Engineering and Mathematics	Transportation, Distribution and Logistics

P2C What can we do with this information?

Administrators

Data-Informed Decision Making

Review District Data
Review data pertaining to high-value careers, education requirements, work travel patterns, top career clusters, district size, and demographics.

Interpret District Data
Identify high-value career opportunities for students and their corresponding education requirements. Determine additional needs related to district size and demographics.

Use Data to Inform Decisions
Evaluate programs, courses, and district activities for alignment with high-value career opportunities and district needs.

Perkins V Reporting

Collect Data
Identify high-demand, high-wage careers in local regions. Print PDF reports in the P2C system that summarize data related to market demand and wages.

Use Data to Inform CTE Program Decisions
Develop plans and processes for CTE programs that support student access to high-value careers in their region.

Incorporate Data into Applications and Plans
Insert data related to demand and wages for local jobs into designated sections. Attach PDF reports from P2C when appropriate.

Teachers

Teaching in Context

Identify Careers
Select career clusters associated with particular a subject matter and identify local high-value careers within those clusters.

Gather Additional Career Information
*Use career resources, such as O*NET, to explore tasks, skills, and work evironment for high-value occupations.*
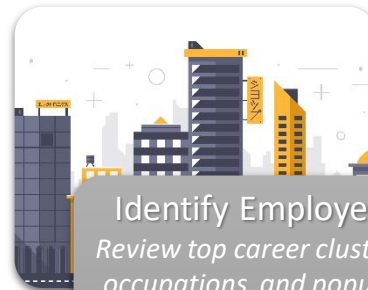
Teach in Context of Careers
Design lessons and activities that place fundamental concepts in the context of high-value careers. Apply core ideas to careers.

Employer Relationships and Work-Based Learning

Explore Occupations and Travel Patterns
Identify top career clusters and high-value occupations in the area. Examine where most people are traveling to work.

Identify Employers
Review top career clusters, occupations, and popular work locations. Conduct an online search to identify employers related to these occupations and areas.
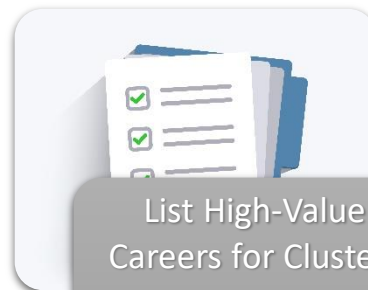
Establish Employer Relationships
Reach out to employers and communicate interest in connecting students to their profession. Develop work-based learning experiences.

School Counselors

Career Guidance

Identify High-Value Careers
Use data related to demand and wages to determine local occupations that are high-demand and high-wage.

List High-Value Careers for Clusters
Develop a list of high-value careers for each career cluster. Share these lists with students and parents.

Guide Students
Assist students in finding career clusters that align with their interests. Encourage students to review lists of high-value careers when making career decisions.
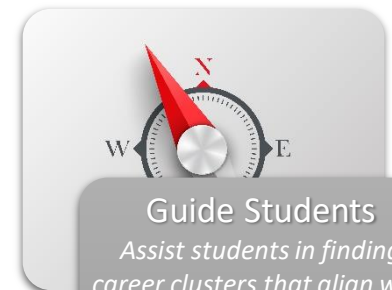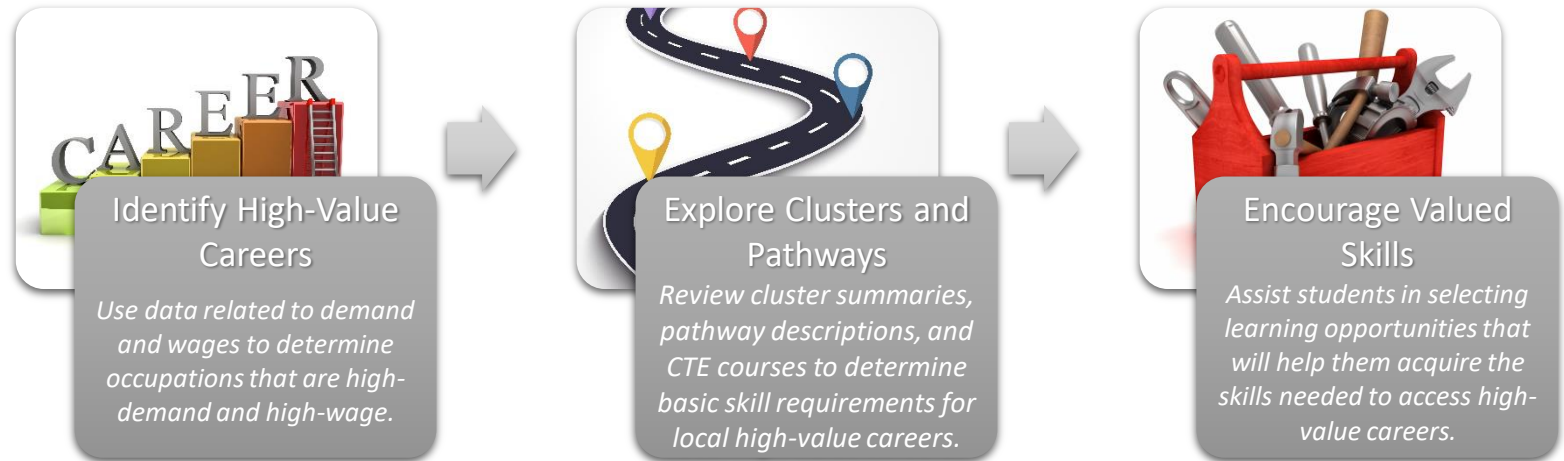
Encourage Acquisition of Valued Skills

Identify High-Value Careers
Use data related to demand and wages to determine occupations that are high-demand and high-wage.

Explore Clusters and Pathways
Review cluster summaries, pathway descriptions, and CTE courses to determine basic skill requirements for local high-value careers.

Encourage Valued Skills
Assist students in selecting learning opportunities that will help them acquire the skills needed to access high-value careers.

Students and Parents

Develop Awareness and Openness to Multiple Career Opportunities

Identify High-Value Careers
Use data related to demand and wages to determine local occupations that are high-demand and high-wage.

Share with Students and Parents
Help students and parents build a thorough understanding of the variety of good jobs in their area.

Education Pathways
Outline basic education pathways for high-value careers. Assist students and parents in understanding that good jobs can be found at multiple education levels.