Connecticut P20 WIN Annual Report

2023

Connecticut Office of Policy and Management

Introduction

P20 WIN is the state's longitudinal data system (SLDS). Established in 2014 and codified in state statute in 2017, P20 WIN was formed to inform sound policies and practices through secure sharing of data across participating agencies to ensure that individuals successfully navigate supportive services and educational pathways into the workforce. The statute ([C.G.S. § 10a-57g](link)) was revised in 2021 to formalize the governance structure and participating agencies. In 2021, P20 WIN expanded to include health and human services, child welfare and protective services, financial aid, and homelessness data and added mental health and addiction services in 2022. In 2023, it expanded to include criminal, juvenile justice, and workforce data.

P20 WIN is the system by which data from multiple agencies are matched to address critical policy questions. P20 WIN is administered by the Office of Policy and Management (OPM), which provides program management to support the continued operation and improvement as a resource for the participating agencies and the State. The Department of Labor is the Data Integration Hub for P20 WIN and conducts all data matching for approved data requests.

Participation in P20 WIN is comprised of 15 state agencies, institutions of higher education, and nonprofits, including: the Department of Education (SDE), the Department of Labor (DOL), the Office of Early Childhood (OEC), the Department of Social Services (DSS), the Department of Children and Families (DCF), the Department of Mental Health and Addiction Services (DMHAS), the Connecticut Technical Education and Career System (CTECS), the Office of Higher Education (OHE), the Connecticut State Colleges and Universities (CSCU), the University of Connecticut (UConn), the Conference of Independent Colleges (CCIC),the Office of Workforce Strategy (OWS), the CT Coalition to End Homelessness (CCEH), the Department of Corrections (DOC), and the Judicial Branch Court Support Services Division (CSSD).

P20 WIN is used to answer policy questions, fulfill federal and state reporting requirements, support program review, inform school districts of

postsecondary outcomes, provide employment and wage outcome data, and support research and analysis on a variety of topics.

The 2023 Annual Report is submitted in fulfillment of the requirement under the P20 WIN Enterprise Memorandum of Understanding. The Data Governing Board is tasked with the regular review of the P20 WIN system and provides this annual report on the following:

1. The efforts of P20 WIN to promote equity and that research and data sharing efforts do not disparately impact consumers or families.

In addition to what must be annually reviewed, additional information will be provided on the following:

1. An update on the implementation of P20 WIN and changes in structure, policies, or procedures.
2. List of all analysis and research performed under P20 WIN during the reporting period;
3. Any expansion of data coverage; and
4. All other recommendations made by the Data Governing Board.

Section 1: P20 WIN Promotion of Equity

Connecticut declared racism as a public health emergency in 2019. P20 WIN has a vision to build trust in data use and integrate equity into data systems by developing policies that are transparent and accessible to all users – both data providers and data users.

Resident Advisory Board

Community voice and participation in data efforts is rare, but important. A Resident Advisory Board for P20 WIN is planned to launch in late 2024. The responsibilities of the Resident Advisory Board will include the review of data projects, policies and procedures and building trust and relationships between those who receive state services and supply their data and those agencies who collect and use data. This feedback loop will inform how P20 WIN communicates the need to consider equity when forming a data requests, while also providing guidance about how data are used and interpreted.

Assessments and other tools

P20 WIN with OPM, DSS, and Office of Health Strategy (OHS) is developing a series of tools that can be used to assess the impact of a data request. These tools include an equity and ethics impact assessment tool and a rubric to measure and promote progress.

Section 2: Implementation of P20 WIN and Changes in Structure, Policies, and Processes

Structure

P20 WIN Data Dictionary

To allow for a more efficient and easily accessible option to view what data elements are available for request from each participating agency through P20 WIN, the [data dictionary web app](#) has been modified to include extra

information that data requestors and data agencies have suggested in order to ease the user experience. This data dictionary was designed to be easily navigated by users by having features such as search and filter. Annually, the Office of Policy and Management will send out notice to participating agencies for updates to their data dictionaries. Updates could include changes to data elements, the addition or removal of data elements, or the addition or removal of datasets.

Governance Bylaws

We established and formalized by-laws for the Executive Board and the Data Governing Board, which formalizes the functionality of the two boards.

Privacy and Security Improvements

We have kicked off a partnership with Data Integration Support Center (DISC) to access our current P20 WIN system and explore any necessary improvements for privacy and security. This partnership is focusing on privacy, governance, system security, and any updates/upgrades needed to increase security, feasibility, and sustainability, including development of a secure data enclave. We have been exploring the option of creating or licensing a secure data enclave. We are working internally with BITS to develop an Azure Test Environment. We are working with the Coleridge Initiative to get a trial license to the Administrative Data Research Facility.

Policies & Processes

Data Matching Policy and Process

The Data Governing Board is in the process of finalizing the Data Matching policy and process. The Data Matching policy was established to ensure consistency and replicability of P20 WIN data matching. The process defines the steps as data moves from the participating agencies to the Data Integration Hub, and finally, to the Data Recipient. The goals of the established data matching process are to improve match rates, reduce risk to privacy,

provide transparency, and improve system efficiency. A working group of Data Governing Board members and Data Stewards worked together throughout the year to access the needs for data matching both within P20 WIN and within state agencies. The conclusions that this working group makes will be available in early 2024.

Data Security Policy and Process

The Data Governing Board is finalizing a Data Security policy, process, and questionnaire. The Data Security policy will help ensure that data are securely transmitted, stored, and released in compliance with all applicable state laws, policies, and regulations throughout the P20 WIN information lifecycle.

The data security questionnaire was developed by the P20 WIN Data Security Working Group. The working group consisted of security and IT representatives from CSCU, DHMAS, DSS, UConn, OPM, and DAS/BITS. The working group developed the P20 WIN Data Security Questionnaire, tested environments for the Data Security Questionnaire, deployed a pilot Data Security Questionnaire, reviewed the outcomes of the pilot, and discussed potential alternatives. The Data Security process requires data requestors to submit a data security questionnaire before their data request can be approved. The goal of the questionnaire is to ensure that requestors have the technical proficiency to store data in a secure environment, confirm their understanding of relevant data privacy laws and regulations, and agree to strict protocols regarding how the data is used. Participating agencies will review the security questionnaire to confirm if the requestor meets their data security requirements.

P20 WIN Knowledge Hub

The P20 WIN Knowledge Hub was created as a location P20 WIN Participating Agencies to share resources, information, and files related to projects, data requests, and data governance. The Hub includes repositories for the Policy and Process documents, the P20 WIN Data Dictionary, and the Data Governance Manual. The P20 WIN Knowledge Hub continues to be updated and maintained as new policies and processes are approved.

Data Request Management

OPM and DOL staff developed a data request management system utilizing Microsoft Lists, PowerBI, and PowerAutomate to track the status of all P20 WIN data requests. The List and PowerBI dashboard allow staff to easily identify the location of incoming and active data requests, determine next steps, and assign roles.

Section 3: Analysis and Research Performed Under P20 WIN During 2023

Grant Updates

2019 State Longitudinal Data System

The goal of the 2019 State Longitudinal Data System (SLDS) grant was to improve the data request process, expand the number of agencies participating in P20 WIN and to complete data requests based on the P20 WIN Learning Agenda. Research was focused on college and career success, student readiness, financial aid, workforce training and overcoming barriers to success.

2023 State Longitudinal Data System

The 2023 SLDS grant is focused on developing a research collaborative that leverages the capacity of external researchers to fulfill data requests and complete analyses that answer questions for P20 WIN Participating Agencies. This grant is in the planning stages.

Workforce Data Quality Initiative

The Workforce Data Quality Initiative (WDQI) grant was awarded to the CT Department of Labor and has two components. The first goal of the grant is to complete a semi-annual analysis of workforce training programs, as well as illustrate the postsecondary education and workforce training pathways that Connecticut residents follow once leaving school. The participating agencies contributing data for this data request include the Department of Education, the Technical Education and Career System, and the Department of Labor. The second component of the grant will explore creating a secure data enclave to better ensure the security and confidentiality of agency data.

IES Roberta B. Willis Scholarship Program Evaluation

The US Department of Education Institute for Education Sciences (IES) awarded the Office of Higher Education with a grant to evaluate the impact of the Roberta B. Willis Scholarship Program. This grant is active until June 2026 and will include both a descriptive analysis as well as a causal analysis of the state scholarship program. The participating agencies contributing data to this data request include the Office of Higher Education, the Department of Education, and the Department of Labor.

Research Completed in 2023

IDEA Part B Indicators – the Department of Education completed this request to gain critical employment and earnings outcomes for students with disabilities who exited high school beginning in 2020-21 school year and then annually thereafter. This data request increases the level of post-school outcomes data reported to the Office of Special Education Programs (Disabilities Act (IDEA) Part B Indicator 14 report).

Disengaged and Disconnected Youth – Boston Consulting Group, in partnership with the Connecticut Opportunity Project, completed a data request to update a report from 2016 about the numbers and nature of disengaged and disconnected youth throughout the state. This request used data from five participating agencies. Their report integrated more sources of data than the previous report, shedding new light on this population.
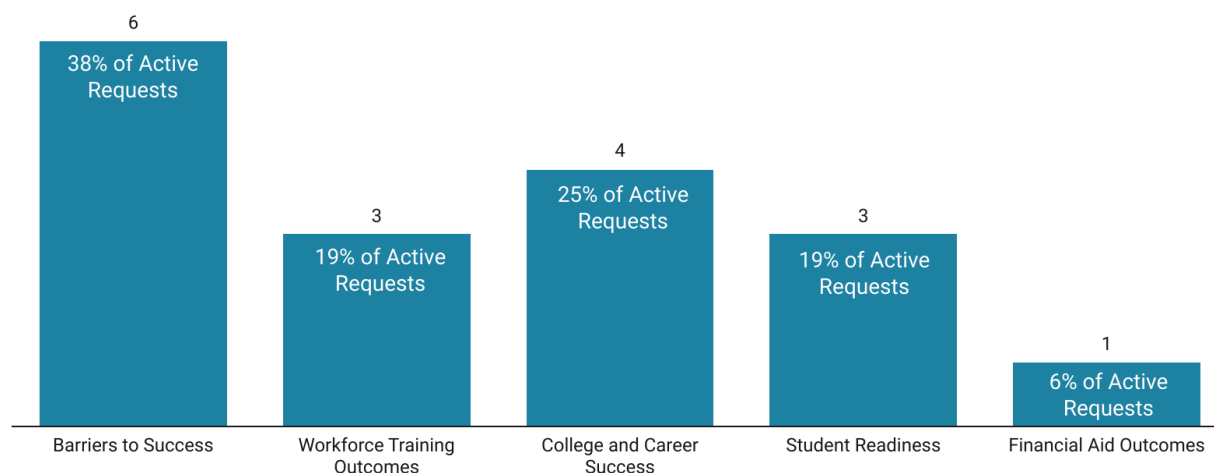
Workforce Training Innovation Fund Grant Report - The Connecticut State Colleges & Universities (CSCU) received a grant from the CT Department of Economic and Community Development (DECD) to implement several short-term healthcare training programs to workers with employment conditions negatively affected by the Coronavirus pandemic. As a part of the grant, employment outcomes are to be provided to DECD for employment outcomes after the completion of the program. DECD sought to evaluate the outcomes of

the students in the grant funded programs to understand the benefit that these types of targeted short term education programs provide.

Manufacturing in CT - The Manufacturing Skills for Connecticut data request aims to establish educational best practices that manufacturers and school systems in CT can use to establish and advance effective career pathways by evaluating 13 technical high schools in Connecticut.

Learning Agenda

Topics and guiding questions in the learning agenda are used to prioritize and inform data requests to P20 WIN. Questions are shared by our Executive Board and reflect the priority issues and policies for our Participating Agencies. Data requests that come in must address one of the items on the Learning Agenda. The chart below shows the current number of active requests by Learning Agenda item.

Barriers to Success	Workforce Training Outcomes	College and Career Success	Student Readiness	Financial Aid Outcomes
6	3	4	3	1
38% of Active Requests	19% of Active Requests	25% of Active Requests	19% of Active Requests	6% of Active Requests

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Each request falls into one of the P20 WIN Learning Agenda categories.

College and Career Success

College & Career Success – An evaluation of the criteria and models for determining college readiness. This data request looks at predictive models for college and career success. The analysis for this request has resulted in the following reports and issue briefs:

1. Brief 01: [SAT Scores and High School GPA as Predictors of Early College Success at Connecticut State Community Colleges and Universities](#)
2. Report 01: [The Relative Validity of SAT Scores and High School GPA as Predictors of Early College Success at Connecticut State Community Colleges and Universities](#)
3. Brief 02**:** [Assessing Measures of College-and-Career Readiness in High School: How do they relate to college success?](#)
4. Report 02**:** Assessing Measures of College-and-Career Readiness in High School: How do they relate to college success and are they equitable?
5. Brief 03: Early Career Outcomes Among Connecticut High School Graduates Who Did Not Attend College
6. Report 03: [Early Career Outcomes Among Connecticut High School Graduates Who Did Not Attend College](#)

Tech Talent Retention – To look at enrollment, completion, employment, and wage outcomes for students enrolled in programs in Computer and Information Sciences programs offered through the technical high school system and community colleges.

An analysis of postsecondary outcomes for Connecticut Youth - understand how students fare after high school and college. This data match includes the Connecticut Department of Education (CSDE) and the Department of Labor to fulfill a descriptive study about how labor market outcomes differ between high school graduates and college graduates in Connecticut.

Student Readiness

New Haven Public Schools Pre-K Lottery Outcomes – This data request will provide a comprehensive analysis of the benefits of affordable pre-Kindergarten on school diversity, student outcomes, and parental labor supply.

IDEA Part B Indicators – PSO – The purpose of this request is to gain critical employment and wage data, which will be used to evaluate the percent of youth in Connecticut who are no longer in secondary school, had individualized education plans (IEPs) in effect at the time they left school and were enrolled in higher education and/or competitively employed and/or enrolled in a training program within one year of leaving high school.

IDEA Part B Indicators – the Department of Education is submitting this request to gain critical employment and earnings outcomes for students with disabilities who exited high school beginning in 2020-21 school year and then annually thereafter. This will increase the level of post-school outcomes data reported to the Office of Special Education Programs (Disabilities Act (IDEA) Part B Indicator 14 report).

Financial Aid

Roberta Willis Scholarship – To evaluate the postsecondary enrollment, postsecondary outcomes, and workforce outcomes of Roberta Willis Scholarship Program recipients. The analysis for the project will include a breakdown of FAFSA completion rates by school and for different learner subgroups in Connecticut to identify if there are gaps in FAFSA completion that impede access to RWSP, and if there are learners that complete the FAFSA, but do not receive RWSP resources for other reasons. Additionally, the analysis will identify postsecondary and employment outcomes for RWSP recipients and non-recipients for comparison.

Workforce Training

CTEC/Apprenticeship data match – Match labor market and apprenticeship data to students who applied to one of the schools in the CT Technical High School System (CTHSS) for admission for the fall semesters of the years 2006 to 2017.

Postsecondary Labor and Earnings Report – This report presents the annual earnings (adjusted to 2022 dollars) of Connecticut's high school graduates in the (up to) 15 years after they graduate high school, up to money earned in calendar year 2022. It was made possible by the partnership of multiple state agencies including CSDE and the Department of Labor (DOL) via the [P20 WIN](#) program. Development of the report was supported by a PIER Fellow from Harvard Graduate School of Education, with plans to continue annual updates.

Education and Workforce Training Pathways – This data request will look at the performance and outcomes of the state's workforce system, as well as illustrating the different pathways Connecticut residents follow as they enter higher education or the workforce. The purpose of this request is pursuant to Public Act 21-2, Section 250(e).

Overcoming Barriers to Success

Housing and Employment – A one-time match of the Homelessness Management Information System (HMIS) and the DOL CTHires data to better understand how people are utilizing both the homeless and workforce systems, which will assist CCEH, United Way 2-1-1 and other partners develop a referral system for people experiencing homelessness.
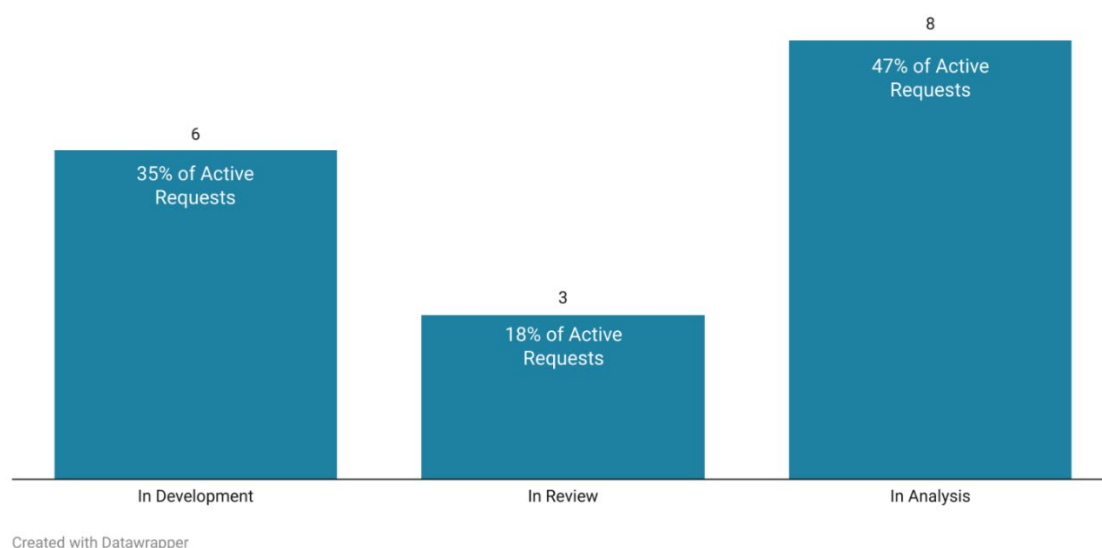
Education and Labor Market Effects on Housing Assistance – The effects of Housing Choice Voucher-based rental assistance on short- and long-run academic and labor market outcomes in Connecticut cities.

Roca Young Mothers' Program Evaluation – To examine the service needs of participants and track their intermediate- and longer-term outcomes across a range of domains including behavioral health, education and employment, parenting, child development, and systems involvement.

Evaluation of Community Mental Health and Addiction Treatment Use in Individuals following Release from Incarceration or on Community Supervision – This study will evaluate the impact of access to mental health services for individuals who are leaving incarceration or are on parole.
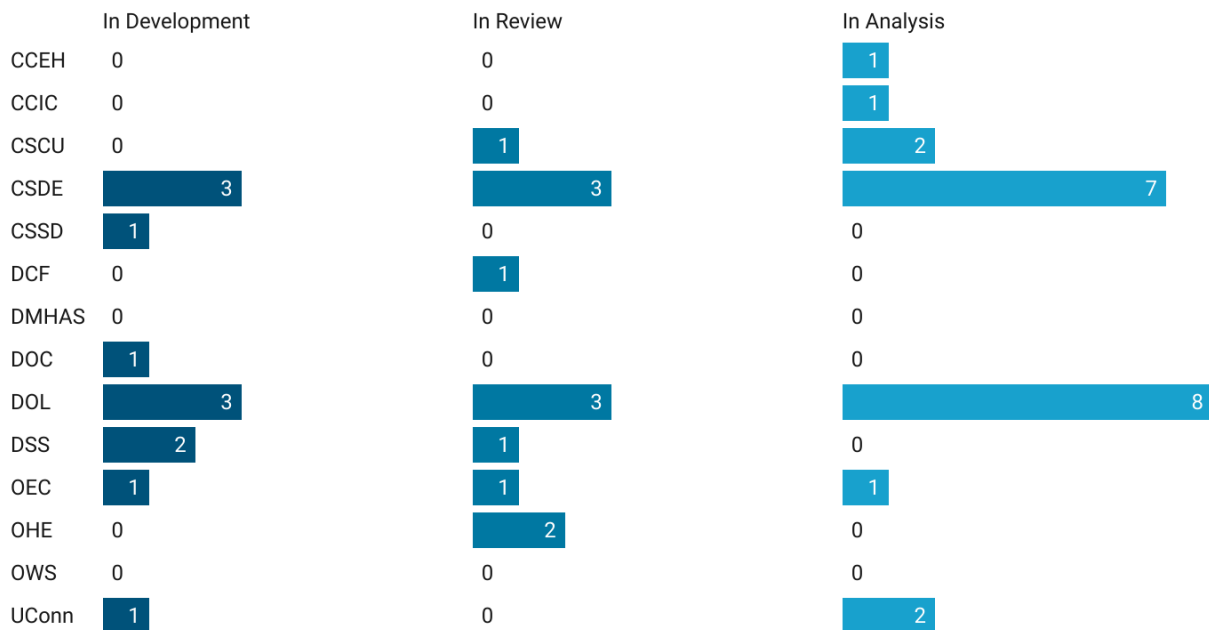
Early Childhood Connecticut Family Screening, Tracking and Referral Systems (STARS) Data Request – The purpose is to track all children 0-5 in Connecticut to assess their access to supports from state systems.

The above list of requests reflects all data requests in various stages of the research process. For more information regarding where in the Learning Agenda each data requests is, please see the graph on the next page.

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Each P20 WIN request must involve data from at least two participating agencies. The chart below illustrates how many projects each participating

agency is involved with, and in which of the various stages of the P20 WIN process these projects are in.

	In Development	In Review	In Analysis
CCEH	0	0	1
CCIC	0	0	1
CSCU	0	1	2
CSDE	3	3	7
CSSD	1	0	0
DCF	0	1	0
DMHAS	0	0	0
DOC	1	0	0
DOL	3	3	8
DSS	2	1	0
OEC	1	1	1
OHE	0	2	0
OWS	0	0	0
UConn	1	0	2

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Section 4: Expansion of Data

New Data

As P20 WIN continues to grow, more state agencies have (a) agreed to join and (b) provided more data elements that are available. Below is a list of new data that has been added to P20 WIN in 2022.

a. *State Department of Education*

    The State Department of Education expanded their access to assessment data. A new data request spreadsheet with instructions is provided to data requestors seeking assessment data.

b. *Connecticut Technical Education and Career System*

    The Connecticut Technical Education and Career System provides information on those students enrolled in technical high schools and the credentials they receive.

c. *Judicial Branch Court Support Services Division*

    Court Support Services Division (JBCSSD) has data from their oversight of pretrial services, family services, divorce and domestic violence, probation supervision of adults and juveniles, as well as two secure juvenile residential centers located in Bridgeport & Hartford. JBCSSD also administers a network of statewide contracted community providers that deliver treatment and other support services.

d. *The Department of Correction*

    The Department of Correction provides data on demographics, parole, sentencing, and discharge history for individuals involved in the justice system.

e. *The Office of Workforce Strategy*

    The Office of Workforce Strategy collects data from Career ConneCT, which provides residents with free training to develop skills necessary for high-demand careers. Participants work with a career coach, connect with employers, and get hired for a job within 4 – 24 weeks.

Proposed Expansion of Data

For 2024, we plan for continued expansion to new agencies in the health and human services space. This expansion will allow for a more coordinated approach to data sharing at a state level by building on the successful framework built through P20 WIN.

Section 5: Recommendations by the Governing Board

P20 WIN has grown substantially over the last year with more state agencies becoming participating agencies. Additionally, a greater volume of data requests are being submitted than in the past. The P20 WIN team regularly identify new resources to support the growth of the system.

To build upon this growth, P20 WIN must create and manage resources that will ensure the success of any current and future data. New policies and processes continue to be created to address the evolution of P20 Win and are established within the governance structure. Additionally, more resources for data requestors to better inform a data request are in creation. Moreover, outside expertise must be sought out to advise on the evolution of P20 WIN.