MLDS CENTER
Maryland Longitudinal Data System

Address 550 West Baltimore Street
Baltimore, MD 21201
Phone 410-706-2085
Email mlds.center@maryland.gov
Website www.MLDSCenter.org

Monthly Report for February 2016
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P20 Leadership Council
Ross Goldstein and Angela Henneberger gave a presentation to the Governor's P20 Leadership Council on Monday February 29th. The presentation was designed to provide the Council with an overview of the Center, the data available to the Center, and the type of analysis the Center is capable of providing. To demonstrate the analytic output of the Center, Dr. Henneberger provided a brief overview of the Dual Enrollment Report.

Reporting
The Center established a dashboard development workflow process to efficiently manage the production of dashboards. The workflow is a visual representation (diagram) of how research questions are investigated and the required activities, analysis, and review to be completed before dashboards get posted to the website.

Dashboards for Research Agenda Question #12 have been completed and posted to the website. This series of dashboards provide information on students who enrolled for the first time in Maryland Community Colleges and their education and workforce outcomes. Students in the dashboard are grouped by their educational outcome (graduated, persisting, and did not complete) to reveal the impact on the students' wages earned within the State of Maryland.

Dashboard prototypes for Research Agenda Question #18, and #20 are reaching finalization now, and should be posted to the website by the end of April. Question 18 asks, "What are the workforce outcomes for Maryland students who earn a high school diploma (via high school graduation or GED®) but do not transition to postsecondary education or training?" and Question 20 asks, "What are the workforce outcomes of Maryland high school non-completers?"

A new dashboard prototype is being developed for Research Agenda Question #6, and a table layout is being vetted. Question 6 asks, "How likely are students placed in developmental courses to persist in postsecondary education and transfer and/or graduate?"

Data
The Center is receiving file submissions from the Motor Vehicle Administration (MVA) on a regular schedule. Staff have begun to incorporate the MVA data into the identity match process. Preliminary analysis show that this data is helpful in resolving K12 identities. Further analysis of the impact of MVA data will be provided at the March Governing Board Meeting.

The Center continues to process and load data from each of our partner agencies as it is received according to the Data Collection Schedule.

MSDE is in the process of providing the following data files:
- 2015 Student Course Grade Teacher
- 2016 School Data Set
- 2015 Summer Attendance
- 2016 September Attendance

MHEC is in the process of providing the following data files:
- 2015 External Credit System (ECS)
- 2015 Degree Information System (DIS)
- 2015 End of Term System (EOTS) Winter/Spring
- 2016 Enrollment Information System (EIS) Summer/Fall

DLLR will begin providing 2016 Quarter 1 data in June.

Data Requests

The MLDS Center responded to a data request from Morgan State University (MSU). MSU requested the following data for Fall 2014 enrolled students:
1. The number employed[1] (based on wages reported in the 3rd and 4th quarters of 2014);
2. The industry in which they were employed (based on NAICS Code[2]); and
3. The academic program in which they were enrolled at MSU.

For example, the following chart shows the top three programs with working students and the industry in which they are employed. (Note "-" represents cell sizes of <10).

NAICS Group Code	NAICS Group Name	Program Name		
		Electrical Engineering	Business Admin.	Psychology
22	Utilities	-	0	0
23	Construction	-	0	0
31	Manufacturing	-	0	0
32	Manufacturing	-	0	0
33	Manufacturing	-	0	0
42	Wholesale Trade	-	-	-
44	Retail Trade - specialty retailers	37	57	35
45	Retail Trade - general merchandise & non-store	24	32	36
48	Transportation	-	-	-
49	Warehousing, courier & postal services	-	-	-
51	Information	-	-	0
52	Finance and Insurance	-	-	-
53	Real Estate and Rental and Leasing	-	-	-
54	Professional, Scientific, and Technical Services	16	-	-
55	Management of Companies and Enterprises	0	0	0
56	Administrative and Support and Waste Management and Remediation Services	18	13	-
61	Educational Services	13	17	16
62	Health Care and Social Assistance	22	13	20
71	Arts, Entertainment, and Recreation	-	-	-
72	Accommodation and Food Services	26	32	32
81	Other Services (except Public Administration)	-	-	-
92	Public Administration	-	-	0
99	Unknown- Employer NAICS not available	-	-	-
Total		214	158	208

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[1] Only one employer per student is reported in this chart - if a student had more than one employer, the employer with the highest wage total was used.

[2] NAICS - National Association of Industry Classification System

A follow-up request was received from MSU that is currently being assembled. Also, a data request was made by Delegate Gutierrez during a budget briefing for initial college enrollments broken out by race and by county (the Center has a dashboard that shows initial enrollments by race, but it was not broken out by county). The request has been fulfilled.

Research
The Research Branch has been working with the increasingly complete data system, studying the data, conceptualizing data analyses that are responsive to the research questions, running analyses, and then seeking input from folks both inside and outside the Center about the quality of the data and the findings. A current example includes analyses examining postsecondary students who complete an associate's or bachelor's degree in an early childcare education (ECCE) discipline and who then can be found in Maryland wage data as working in (or not working in) an ECCE workplace. These analyses will be added to an ECCE report draft the Research Branch had largely completed last fall. Similarly, the Research Branch is working on postsecondary degree to STEM workforce analyses, which will include associate's and bachelor's degrees, but also master's and doctoral degree earners in Maryland. The researchers have also been working on data analyses examining patterns and outcomes for students assessed to need developmental or remedial education when entering a Maryland postsecondary institution. All three of these research projects will lead to reports and Research Series Presentations. The Dual Enrollment Report, which was presented to the Governing Board at the last meeting, was the subject of the February Research Series.

The Research Branch has also been working on getting the MOU agreement negotiated to begin the synthetic data project, hopefully in April. Dr. Daniel Bonnery has already been working with Dr. Laura Stapleton to learn about the data system and begin planning for that project.

Finally, Dr. Angela Henneberger has been promoted to Director of Research (from Research Coordinator) for the Center. Dr. Michael Woolley, former Research Director, will continue in his role as Principal Investigator of both the Research Branch and Synthetic Data Projects. Congratulations Dr. Henneberger!

System Management
The Center has received the necessary items that were procured for installation of switches. Staff is planning to install these switches on March 14th. Once installed, the switches will allow the Center to be on its own separate network and move forward with the hosted firewall solution provided by DoIT.

The Center is moving forward with Amazon Web Services for an offsite backup solution. Dawn O'Croinin, AAG, has reviewed all necessary documents and staff has submitted them to MSDE to finalize the procurement. Staff will conduct final testing of the AWS processes for migrating data to the cloud prior to finalizing the procurement. The process requires installation of a migration tool on the Avamar backup storage device located in the MSDE data center. MSDE OIT staff is having some problems acquiring that software from EMC. Staff is working closely with MSDE OIT to resolve this issue.