Data Sharing
Education and the Workforce

October 16, 2014
In 2007/2008, the DHE and ESE collaborated to produce the School-to-College Reports/Cube which provided a look at one year of public postsecondary enrollment and success for the 2005 HS Graduating Class. (Both K-12 and Higher Ed focused Reports)

In 2012/2013, DHE and ESE collaborated to produce the College Readiness Reports/Cube. These reports are part of the larger state longitudinal education database initiative. College Readiness Reports available for 2003 to 2013 graduating classes, so high schools can analyze 10 years of trend in enrollment and success.
• College Readiness Reports include:
  Demographics
  Special Populations (special ed/ell)
  Career and technical ed.
  Income proxies
  MassCore
  AP course completion
  10th grade MCAS
  SAT
  postsecondary enrollment,
  The public and private postsecondary institution information (NSC)
  1st term developmental coursework enrollment
  1st term ESL coursework enrollment
  1st year credit obtainment
  2nd year persistence
  1st degree obtainment
  School, District, State-level reports and ABE Agency
Limitations:

- Expensive/substantial grant support required. New report/cube development would be costly. Concerns regarding sustainability.

- Has not had much impact in higher education (yet). Working on Higher Ed focused reports and cube enhancements

- We do not currently have a mechanism to integrate workforce outcomes.
Purpose: Develop a report which provides information from the perspective of higher education institutions. *Provides insight into which students the institution receives (including top feeder high schools), as opposed to which students a high school is sending.*

Possible new areas of data integration/analysis:
- Student Financial Aid
- Completion of college-level, credit course in Math or English
- Transfer (NSC)
- Major (focus on high-priority fields)
- Degree field (focus on high-priority fields)
- Continued education after 1st degree completion (NSC)
- Employment in Commonwealth after graduation. (merge with DCS)
Many constituents calling for employment outcomes analyses:
- Trustees
- Administrators
- Advisors
- Faculty
- Legislators
- Agencies providing grant funds.

One main challenge/obstacle

Ensuring Student/Worker Privacy
- Documentation/MOUs
- De-Identification
- Aggregate Analyses
Most comprehensive and accurate assessments of the post-graduation employment for MA public higher ed.

- No small response rate
- No sample bias
- No self-report error

Data can be analyzed based on a variety of factors (Degree Levels, Degree Fields, Student Demographics, Geographic Region, Industry of Employment, Earnings Levels…)

- Pre and Post Education Employment Matches.
- Various Cohorts…e.g. employment outcomes for individuals who are no longer students, but did not
“Found employed in Massachusetts” not complete “employment rate” because we use MA UI records.

Does not currently include:

- Out-of-State
- Self-employed
- Military
- Anyone employed in a job that is not covered by UI.

Does not include “Job Code”, only “Industry Code”

Earnings are not always uniformly reported.
Found Working in Massachusetts

Full-Time Earnings

1 Year after Earning an Associate’s Degree from a MA Community College

Calculated using a threshold (proxy for FT earnings)

<table>
<thead>
<tr>
<th>25th</th>
<th>Median</th>
<th>75th</th>
</tr>
</thead>
<tbody>
<tr>
<td>$18,224</td>
<td>$29,301</td>
<td>$44,433</td>
</tr>
<tr>
<td>$26,232</td>
<td>$35,756</td>
<td>$49,730</td>
</tr>
</tbody>
</table>

All records included

Using Full Time Proxy
Industry of Employment

410101

**Biology Technician/Biotechnology Laboratory Technician Certificate (0-1 Year)**
*Middlesex Community College*

Where Graduates are Employed One Year After Graduation

<table>
<thead>
<tr>
<th>Major Industry Sector</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional, Scientific, and Technical Services</td>
<td>38%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>23%</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>15%</td>
</tr>
<tr>
<td>Finance and Insurance</td>
<td>8%</td>
</tr>
<tr>
<td>Wholesale Trade</td>
<td>8%</td>
</tr>
</tbody>
</table>