



UMN Post-Collegiate Outcomes Project

Office of Institutional Research, Assessment, and Policy Analysis

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UNIVERSITY OF MINNESOTA

Driven to Discover®



We had so many questions.....as do our legislators, parents, students, and accreditors

Where are our graduates working?

How much are they making? By field? By degree level?

Are they in fields related to their major?

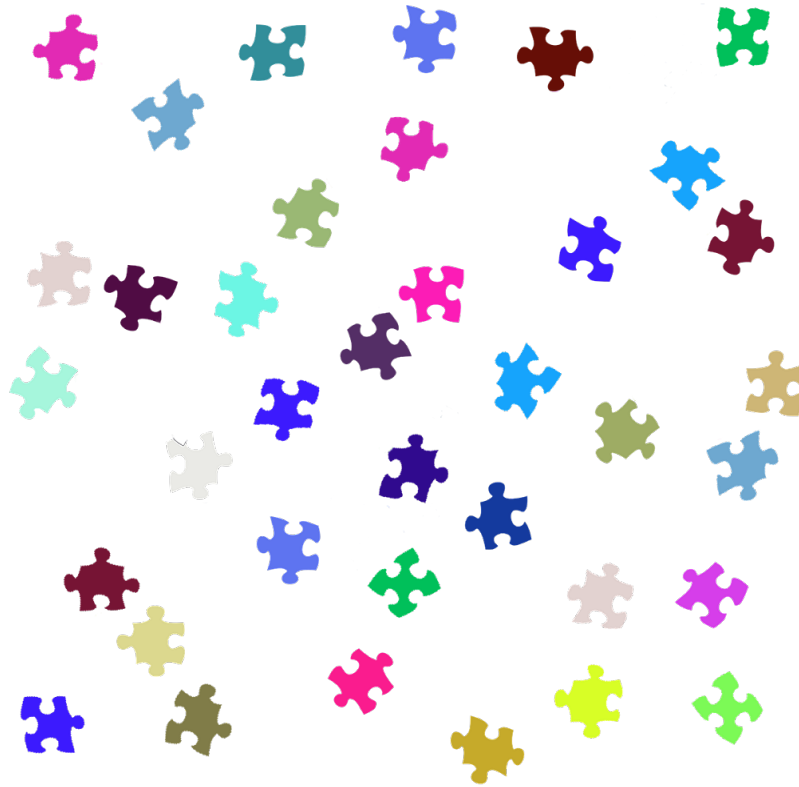
How do occupations change over time?

Is the U of M an equalizer for students who come from lower socioeconomic backgrounds?

What does further education look like?

What are the personal and social capital gains of U of M graduates?





What we had....


Each campus and many of the colleges in the Twin Cities doing their own first destination surveys.....



U of M Post-Collegiate Outcomes Project



- Longer time horizon: 5, 10+ years out
- Systematic approach: system-wide and across all student levels
- Primary data sources non-surveys



Better and broader
data sources now
available....still not
complete

Current data sources

- **Statewide Longitudinal Education Data System (SLEDS)** – MN Unemployment Insurance info: salary, industry of employment, full-time/part-time
- **Clearinghouse** – pursuit of additional education, including and beyond just UMN
- **Emsi** (public records) – 15 years of data on employment metrics of all degree levels (employers, occupation, locale, & skills)

Future data source

- **U.S. Census Bureau Longitudinal Employer-Household Dynamics Post-Secondary Employment Outcomes Project**
Provide a national view





Data Overview: SLEDS

Received from SLEDS:

- UMN degrees/certificates awarded (2006-16): **152,588** (*includes holders of multiple degrees; unique students: 137,968*)
- UMN completers' (2006-16) with employment records: across all years: **124,721**

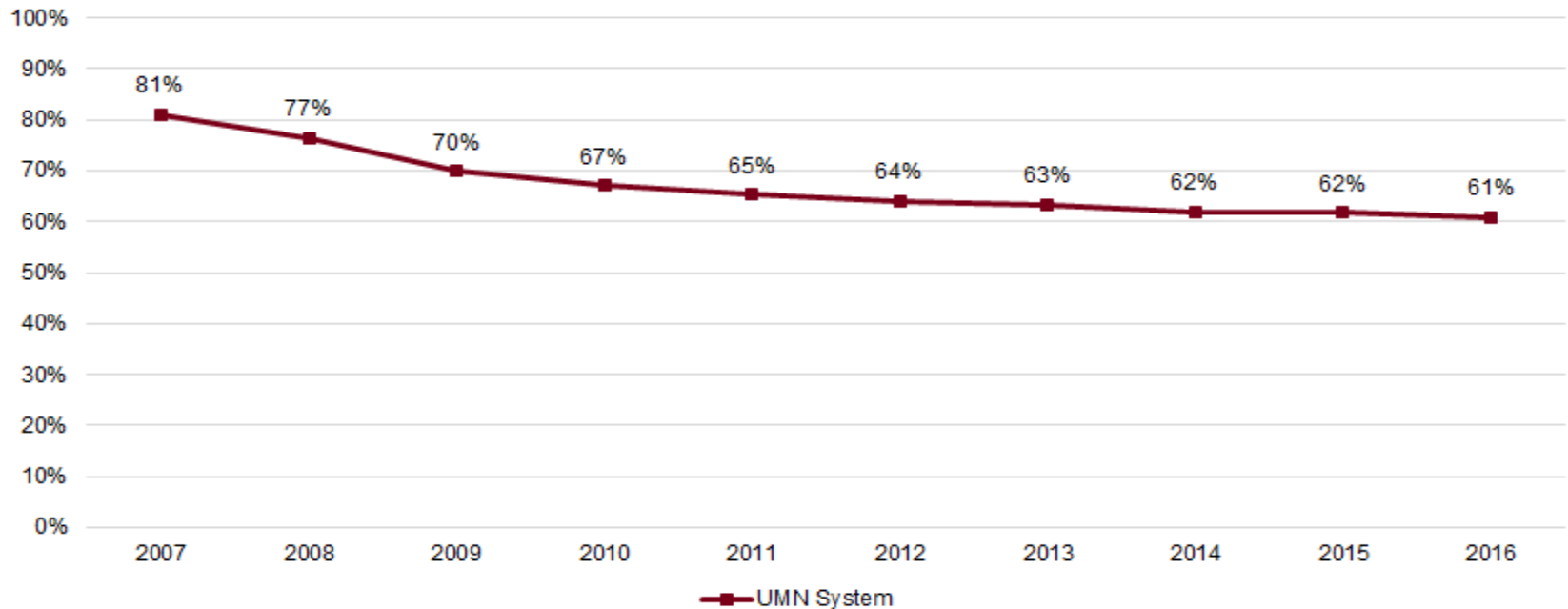
How did SLEDS do?

- UMN completers' unique students (2006-16): **140,625 from central records vs. 137,968 in SLEDS**: Missing 1.89%
- Any SLEDS employment data: n=124,721: $(124,721/140,625=88.7\%)$



SLEDS Example: Percentage of UMN Graduates Employed* in Minnesota

Cohort of Students Tracked Over Time Systemwide: Baccalaureate, 2007, $N = 8,341$



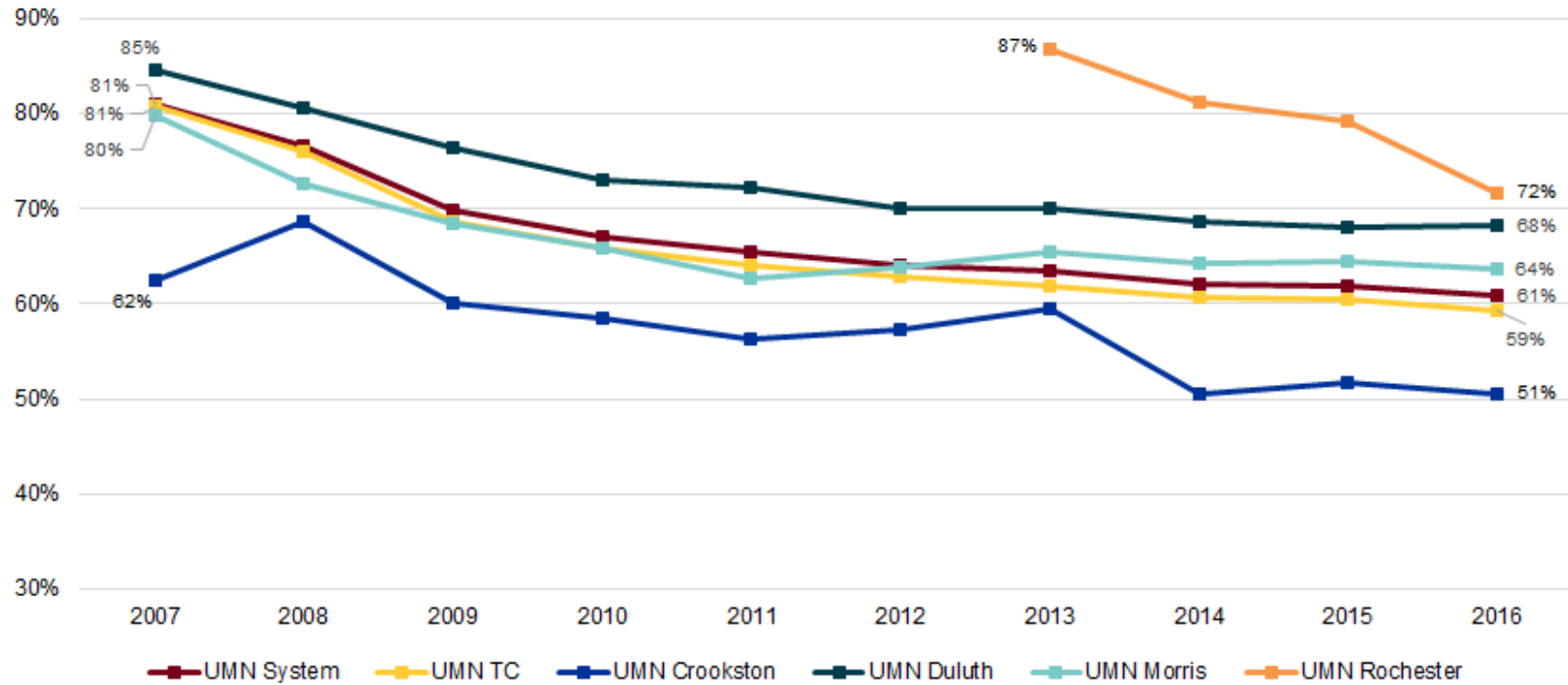
*Number who had any salary data: Outcomes represent only the graduates who worked in Minnesota as identified in the state's Unemployment Insurance wage records.

Note. UMN Rochester is not included.



SLEDS Example: Percentage of UMN Graduates Employed in Minnesota by Campus

Cohort of Students Tracked Over Time (2007-2016): Baccalaureate, 2007

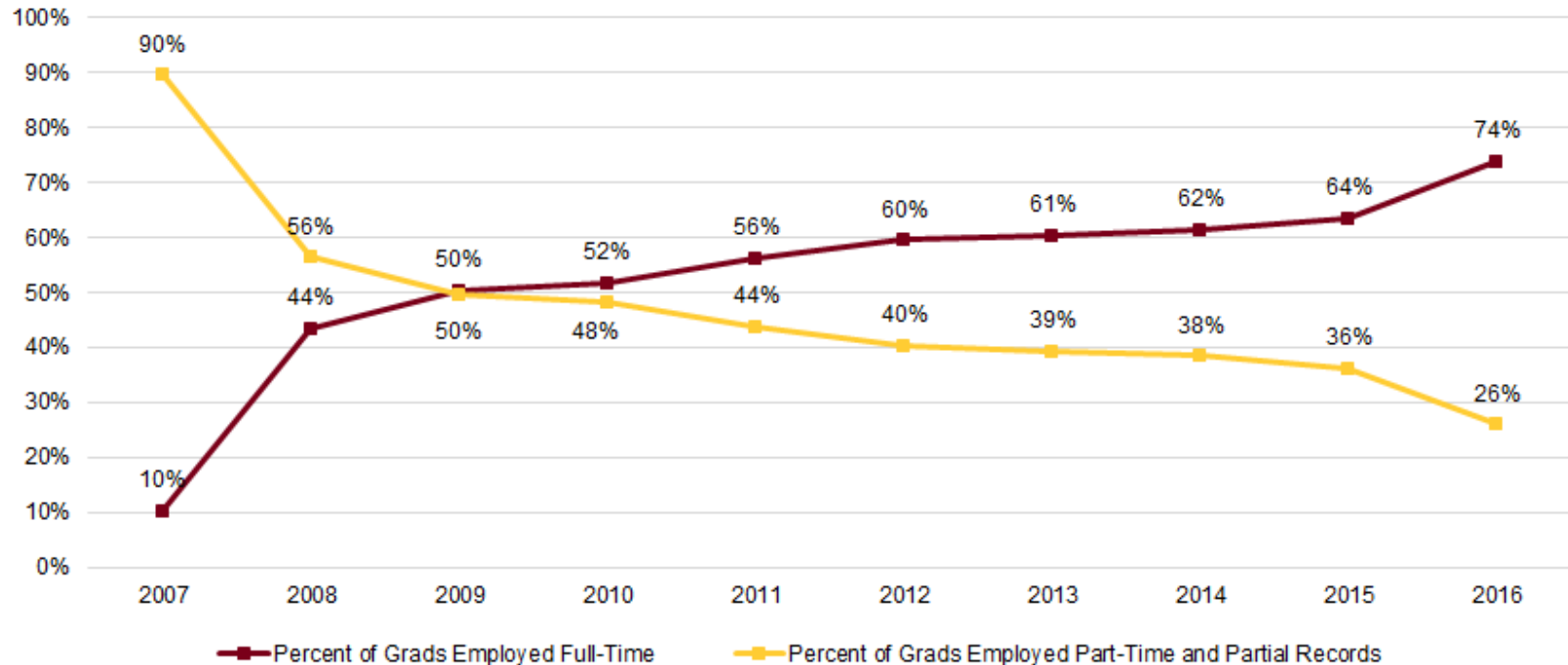


Note: UMN Rochester: Baccalaureate, 2013, N = 53



SLEDS: Percentage of UMN Graduates Employed in Minnesota: Of those Employed: % Full-Time vs Part-Time

Cohort of Students Tracked Over Time Systemwide: Baccalaureate, 2007, N = 8,341

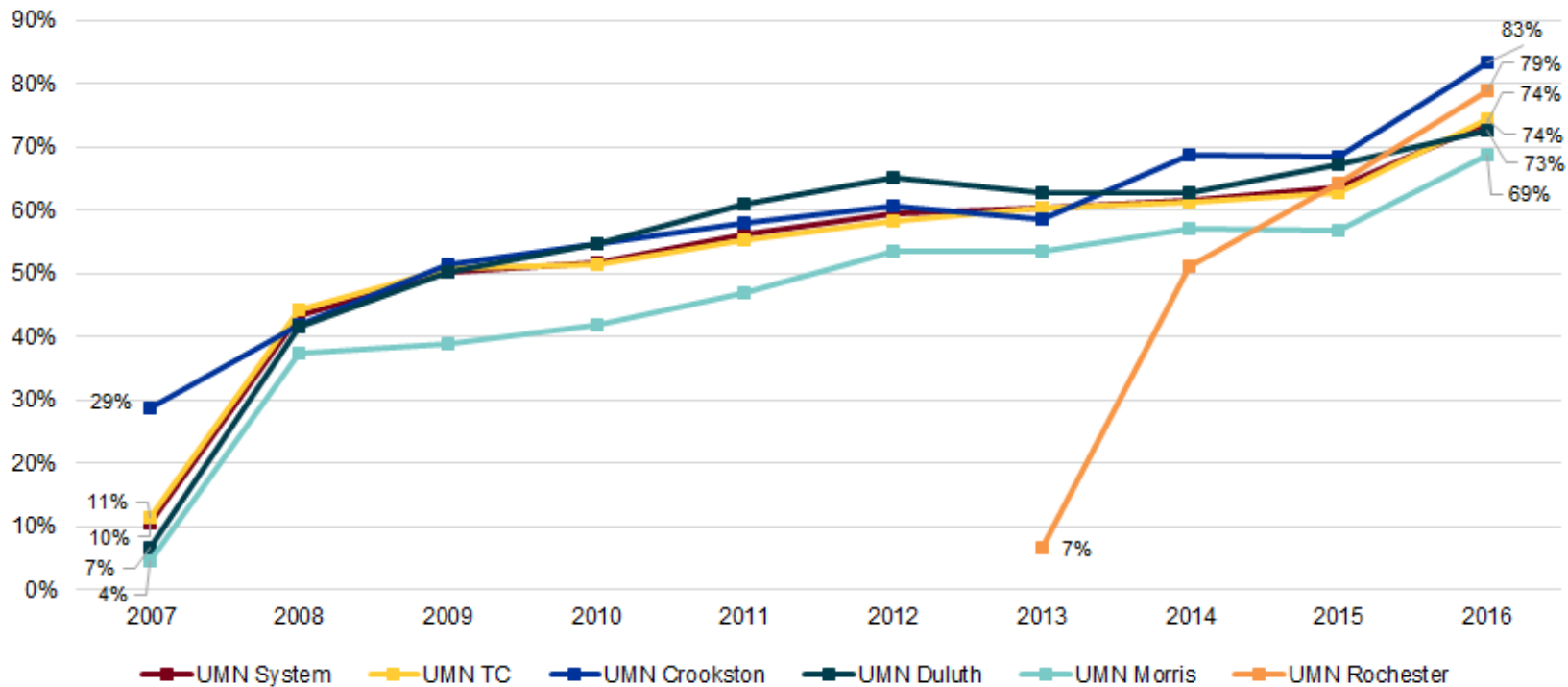


Note. UMN Rochester is not included.



SLEDS: Percentage of UMN Graduates Employed in Minnesota: Of those Employed: % Full-Time by Campus

Cohort of Students Tracked Over Time (2007-2016): Baccalaureate, 2007



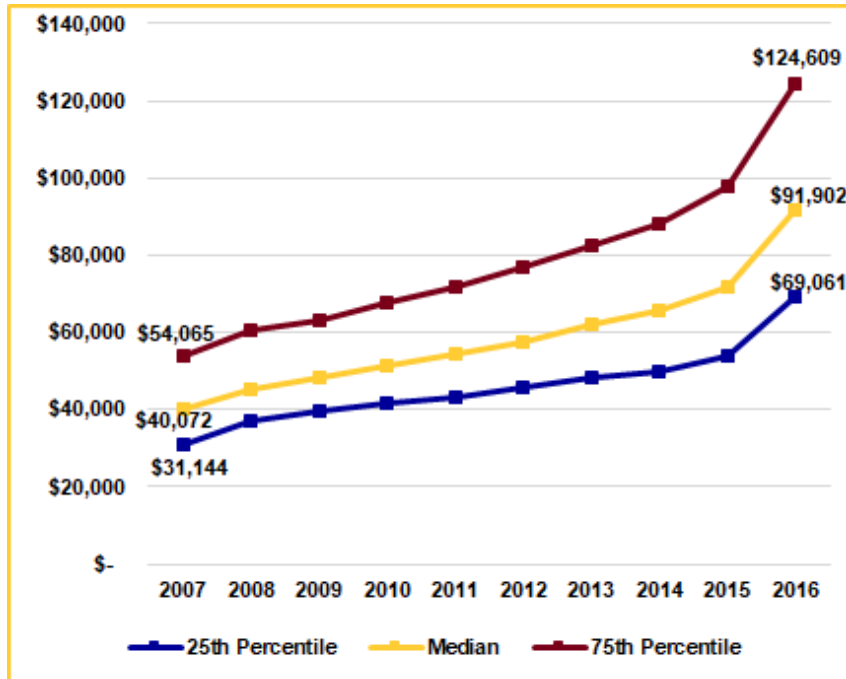
Note: UMN Rochester: Baccalaureate, 2013, N = 53



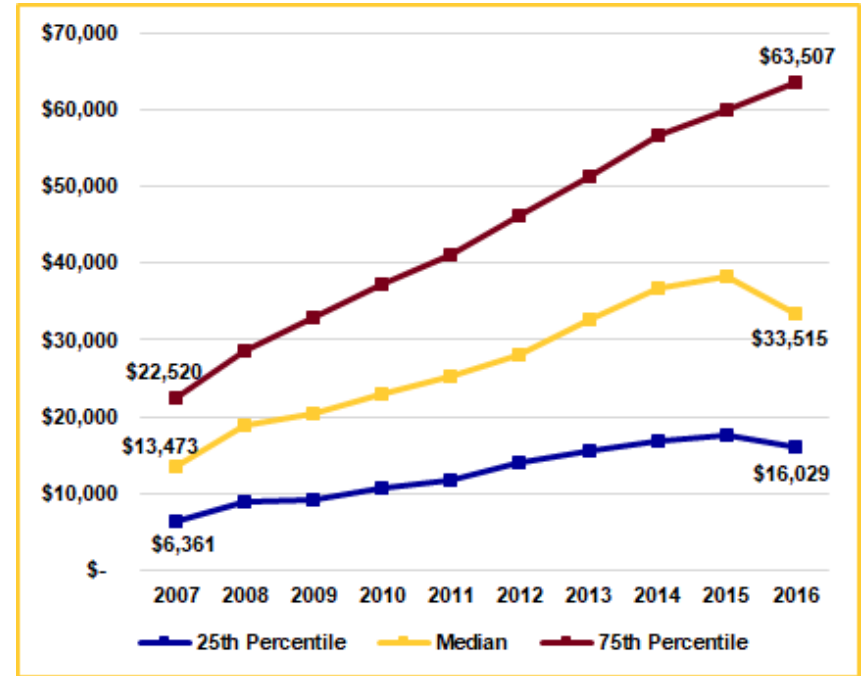
SLEDS: UMN Alumni Earnings Over Time (2007-2016)

Cohort of Students Tracked Over Time Systemwide: Baccalaureate, 2007, N = 8,341

Full-Time



Part-Time



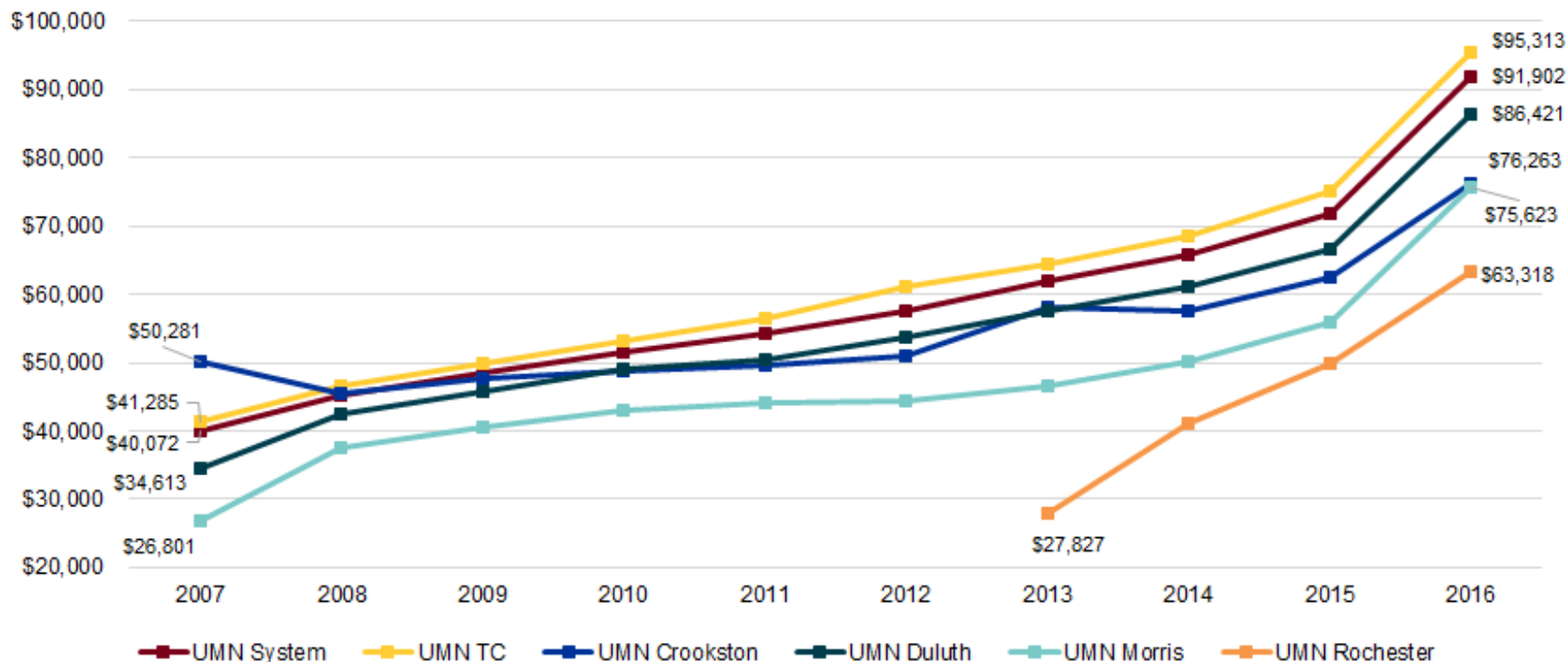
Note. UMN Rochester is not included.

Earnings are based on a calendar year and are inflation-adjusted to reflect 2020 dollars.



SLEDS: UMN Alumni Full-Time Median Earnings Over Time (2007-2016)

Cohort of Students Tracked Over Time (2007-2016): Baccalaureate, 2007



Note: UMN Rochester: Baccalaureate, 2013, N = 53

Earnings are based on a calendar year and are inflation-adjusted to reflect 2020 dollars.



Data Overview: National Student Clearinghouse

- National look at further enrollments of UMN enrollees (both transfer and graduate/professional study)

Submitted to NSC:

- enrolled at UMN (Fall 2004-Fall 2017): **343,110**

Received from NSC:

- 4,039,240 records (multiple rows per person, UMN+non-UMN) of which:
 - 1,798,332 records (multiple rows per person, non-UMN) of which:
 - unique headcount graduated (non-UMN): 115,423



Example Clearinghouse: Further Education: UMN System

Degree Received: Baccalaureate, 2007, $N = 8,341$

31% received postbaccalaureate degrees/certificates between **2007-2016**
(counted highest degrees/certificates earned)

Degree/Certificate	UMN	Non-UMN Institution
Postbaccalaureate Certificate	12	44
Master's Degree	683	1,171
Postmaster's Certificate	1	6
Doctoral-Research Degree	39	114
Doctoral-Professional Degree	214	305
Overall	949	1,640

Note. UMN Rochester is not included.



Example Clearinghouse: Further Education: UMN System

Degree Received: Baccalaureate, 2007, $N = 8,341$

UMN Campus	% received postbaccalaureate degrees/certificates between 2007-2016 (counted highest degrees/certificates earned)
UMN System	31%
UMN Twin Cities	33%
UMN Crookston	16%
UMN Duluth	25%
UMN Morris	36%
UMN Rochester	11%

Note: UMN Rochester: Baccalaureate, 2013, $N = 53$





Data Overview: Emsi

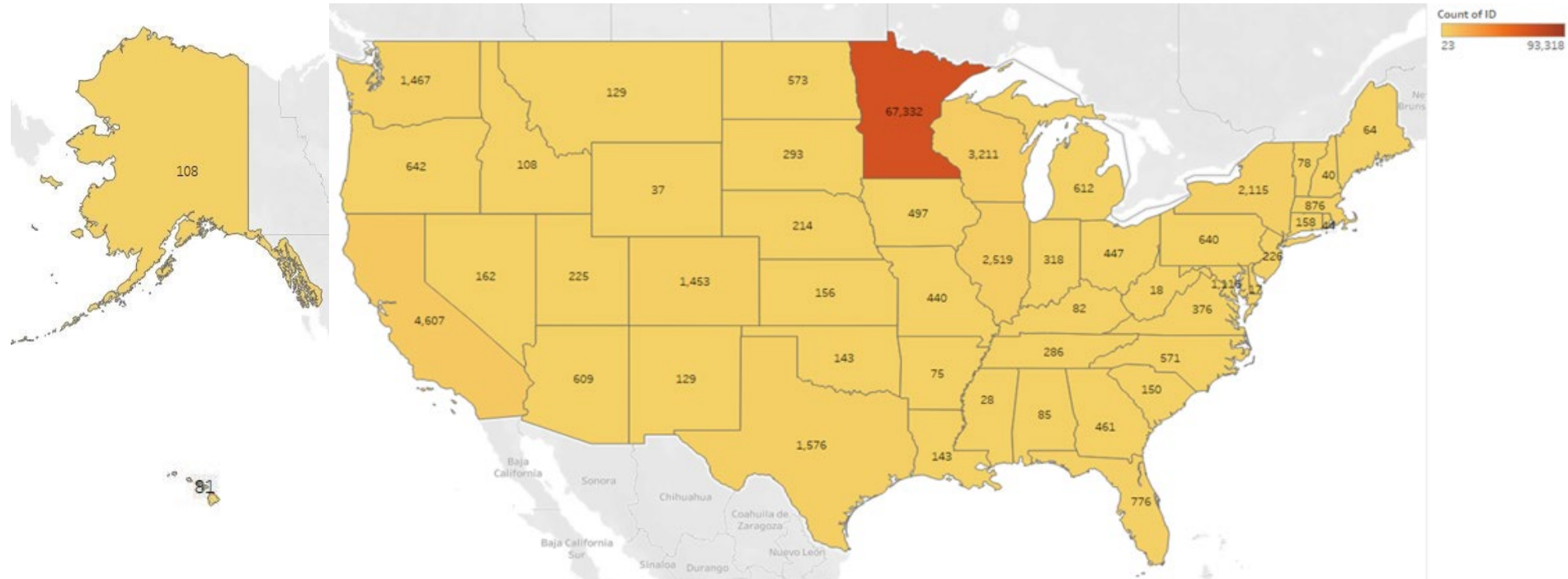
- Emsi matches an institution's past student records to its database of over 106 million professional profiles from web scraping to get detailed alumni outcome data at the program level.
- Normal match rate is approximately 40% for universities.
- University of Minnesota's alumni 2003-2018 match rate:
 - System-wide (n=134,649 out of 215,426 or **62.5%**)
 - Twin Cities (n=112,452 out of 175,096 or **64.2%**)
 - Duluth (n=17,745 out of 30,388 or **58.4%**)
 - Crookston (n=1,479 out of 4,399 or **33.6%**)
 - Morris (n=2,703 out of 5,005 or **54.0%**)
 - Rochester (n=270 out of 538 or **50.2%**; graduation years: 2013-2018)

Deliverables:

- **individual-level** alumni data:
- employment data (job title, employer, location)
- skills



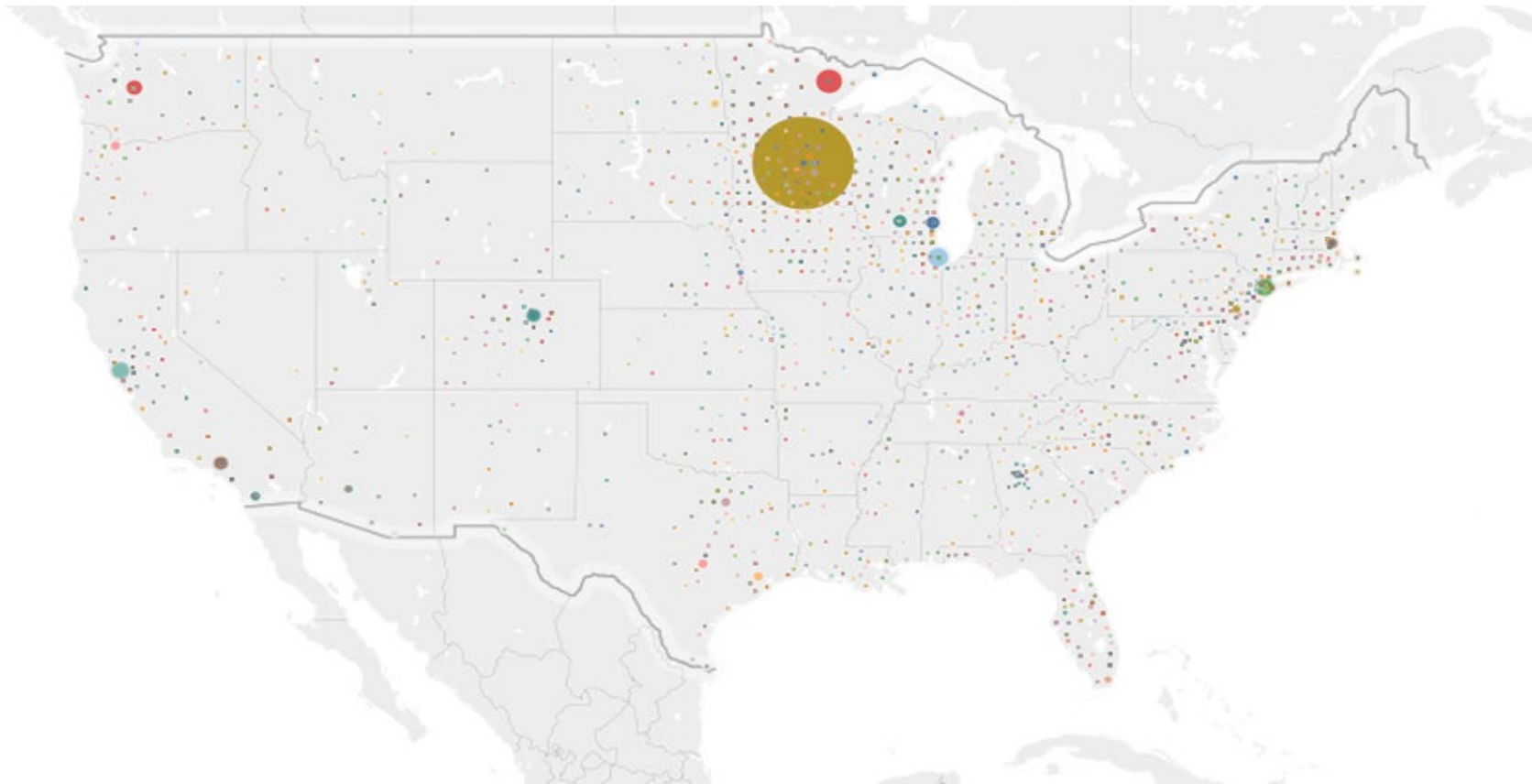
Emsi Example: Location of Employment UMN Alumni from 2003-2018





Emsi Example: Location of Employment (U.S. Cities)

UMN Alumni from 2003-2018



Post-Collegiate Outcomes Next Steps....

- Socialize Project
 - Senior leadership, units across campus
- Data Governance
 - Access, level of aggregation
- Usability of results
 - Working with campus groups
- Update data sources
 - SLEDS (2017 UI records), Emsi (add 2019 graduates), 2020 NACM (add graduate alumni survey?)
- Census/OHE
 - Provide national view



Questions?

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Crookston Duluth Morris Rochester Twin Cities

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