


Movement of Ontario College Graduates Pursuing University Out-of-Province:

An exploration of the Graduate Satisfaction Survey

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Special thanks to Matthew Duncan for his research assistantship

 @crsm_seneca

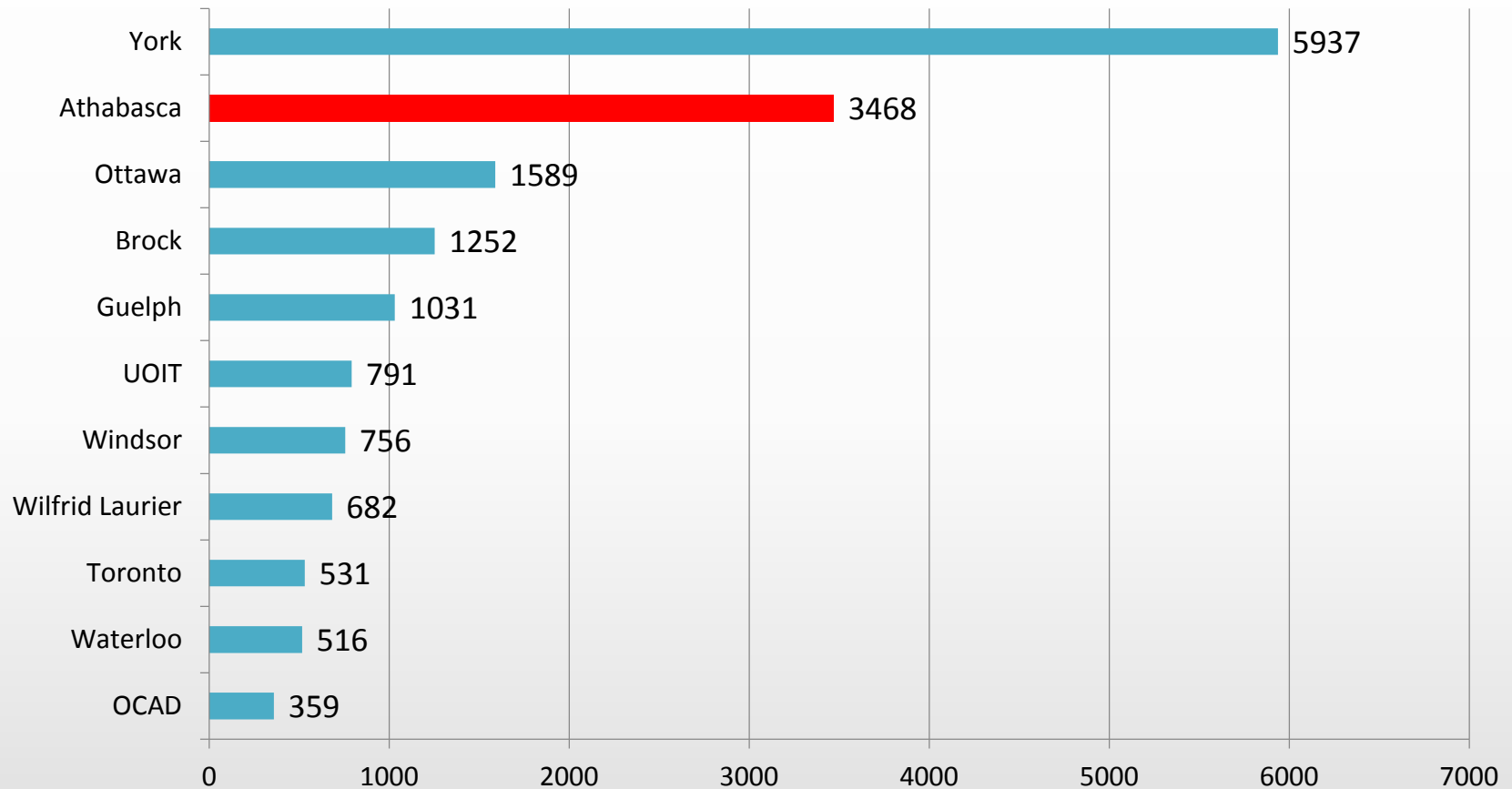
 senecacollege.ca/mobilityresearch



Study Background

- The Graduate Satisfaction Survey has been the primary source on the extent of student mobility of Ontario College graduates, 6 months after graduation.
- However, initially the survey focussed only on receiving institutions that were funded by the Ontario government. All other institutions were categorized as “other”.
 - On average this accounts for 10% for university transfer.
- In 2010, the survey was adjusted to include an open ended question on the institution name; enabling a geographical analysis of out of province movement.
 - Additionally it enabled the verification of mislabelled institutions, many of which were Ontario universities.

Previous Work Shows Athabasca University is a Major Recipient of Ontario College Transfers, 2007 - 2010



Source: Post-Secondary Student Mobility Across Canada and Within Ontario, Report on PCCAT's National Research Project, Presented by PCCAT Research Subcommittee.

Research Questions

- Which out-of-province universities receive the most Ontario college graduates?
 - Relationship to geographic proximity?
 - Relationship to transfer policies?
- What are the characteristics of graduates who transfer outside of their region, province, or country?
- How does the transfer experience differ among those who transfer outside of their region, province, or country?



Methodology

Study Design

- Analysis of the university pathways of Ontario College graduates six months after graduation using the MTCU KPI Graduate Student Satisfaction Survey.
- College graduates who transferred to university between 2010-11 to 2013-14 were compared based on region of receiving university.
- Two separate levels of analysis:
 - All Ontario graduates
 - Seneca graduates

About the Ontario KPI Graduate Satisfaction Survey



- Telephone survey administered to all Ontario college graduates six months after graduation since 1999.
- Response rates are high, typically 70%, lower in recent years.
- Consists of detailed labour market, satisfaction, and further education questions.
- Used for two of five KPIs that are public and linked to modest amounts of funding.
- The province uses the survey's numbers on graduates transferring to university to help distribution of credit transfer institution grants (CTIG) to colleges.
- Contains a case number that can be linked back to a Seneca student ID so that the survey can be attached to Seneca records within the college.

Example of Open Ended GSS Field

- In order to analyze students moving out of province, we identified:
 - Standardized institution name
 - Location
 - Institution type (university/ college)

Original Name	Original Code	Updated Name	Province	Updated Code
UOTTAWA	other univ	UNIVERSITY OF OTTAWA	ON	univ
UNVIERSITYOTTAWA	other univ	UNIVERSITY OF OTTAWA	ON	univ
UNNIVERSITE DOTTAWA	other college	UNIVERSITY OF OTTAWA	ON	univ
ALTHABASCA ALBERTA	other univ	ATHABASCA UNIVERSITY	AB	univ
APHABASCA	other univ	ATHABASCA UNIVERSITY	AB	univ
ASABASCA	other univ	ATHABASCA UNIVERSITY	AB	univ
ASABASCOS	other education	ATHABASCA UNIVERSITY	AB	univ

Defining a Sample for Study

2011-2014 Graduate Satisfaction Survey

Number of Ontario Graduates 2010-2014	343,526
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Less:

Non-respondents	121,213
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Not in school	167,035
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College and "other" education	40,574
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Final Sample for Study	14,574
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<i>Ontario</i>	13,266
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<i>Outside of Ontario</i>	1,433
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<i>Unknown Location</i>	6
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Ontario Findings

Introduction

- Between 2011 and 2014, 6.6% of surveyed Ontario College graduates transfer to any university.
 - Of those, 7.8% (1,433 graduates) reported enrolment in a non-Ontario university.

	Graduation Year			
	2011	2012	2013	2014
Total Number of Survey Respondents	53,506	53,405	50,962	49,095
Number of Transfers to University	4,195	4,057	3,505	2,944
% of Respondents at Ontario Universities	7.0%	6.8%	6.2%	5.4%
% of Respondents at Non-Ontario Funded Universities	0.9%	0.8%	0.7%	0.6%

Canadian, American, and International Destinations



	Region	# of Students	% of Sample
Ontario	Ontario (Same Region)	8,469	57.6%
	Ontario (Different Region)	4,797	32.6%
Rest of Canada	Alberta	241	1.6%
	British Columbia	172	1.2%
	Manitoba	12	0.1%
	New Brunswick	75	0.5%
	Newfoundland	25	0.2%
	Nova Scotia	88	0.6%
	PEI	2	0.0%
	Quebec	308	2.1%
	Saskatchewan	11	0.1%
	United States	MI	212
NY		80	0.5%
Other US		63	0.4%
International (non-USA)	Outside of Canada and US	120	0.8%

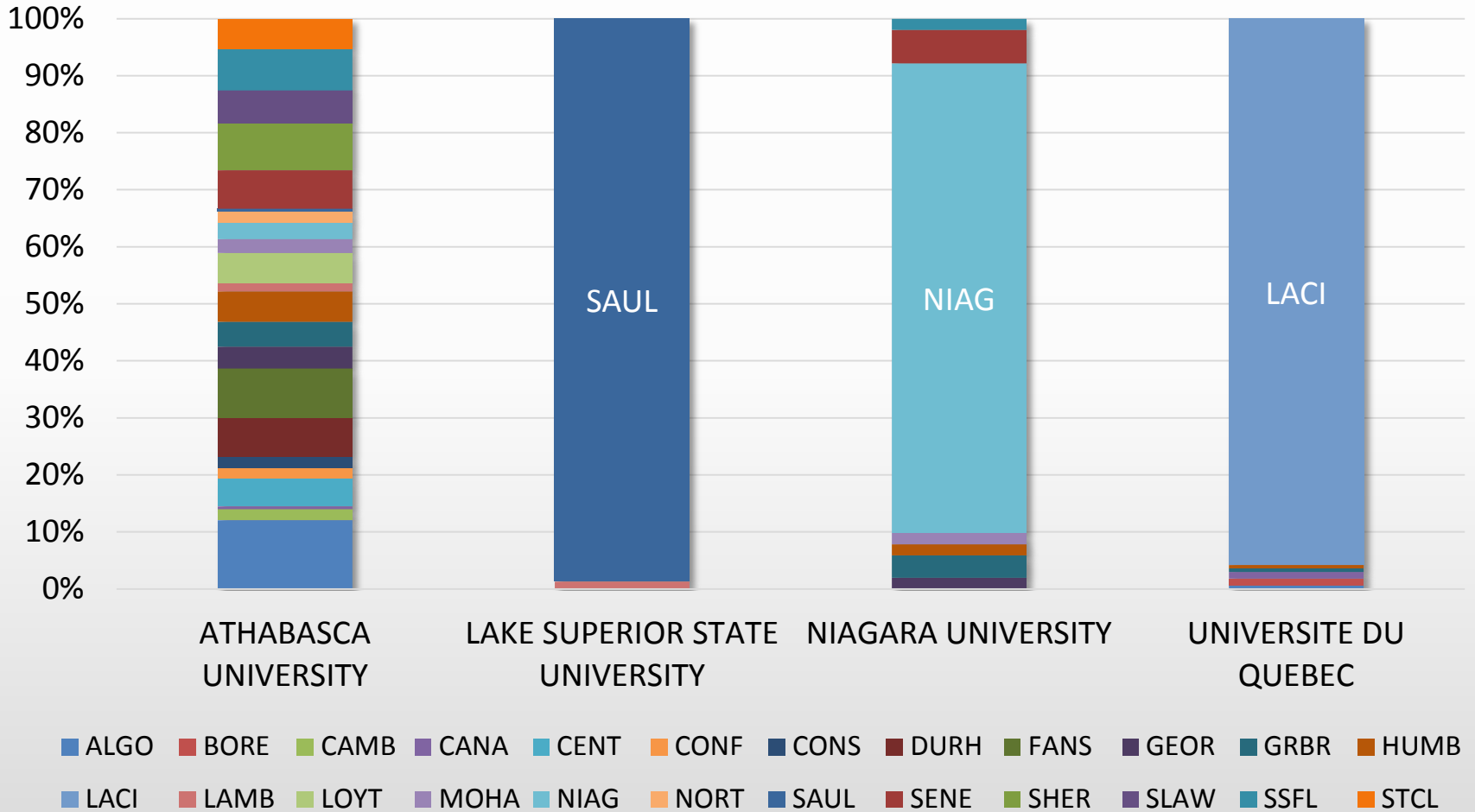
Top 11 Out of Province Universities, 2011 -2014



Number of Transfers Students

Rank	University Name	2011	2012	2013	2014	Total
1	Athabasca University, AB	66	57	48	36	207
2	Universite du Quebec (all), QC	39	39	41	47	166
3	Lake Superior State University, MI	31	17	13	15	76
4	Royal Roads University, BC	15	21	18	12	66
5	Davenport University, MI	17	24	16	6	63
6	Niagara University, NY	13	17	13	8	51
7	Bishops University, QC	12	18	8	7	45
8	Thompson Rivers University, BC	13	17	3	7	40
9	Dalhousie University, NS	8	7	8	5	28
10	Northwood University, MI	13	5	7	3	28
11	Griffith University, AUS	12	9	3	3	27

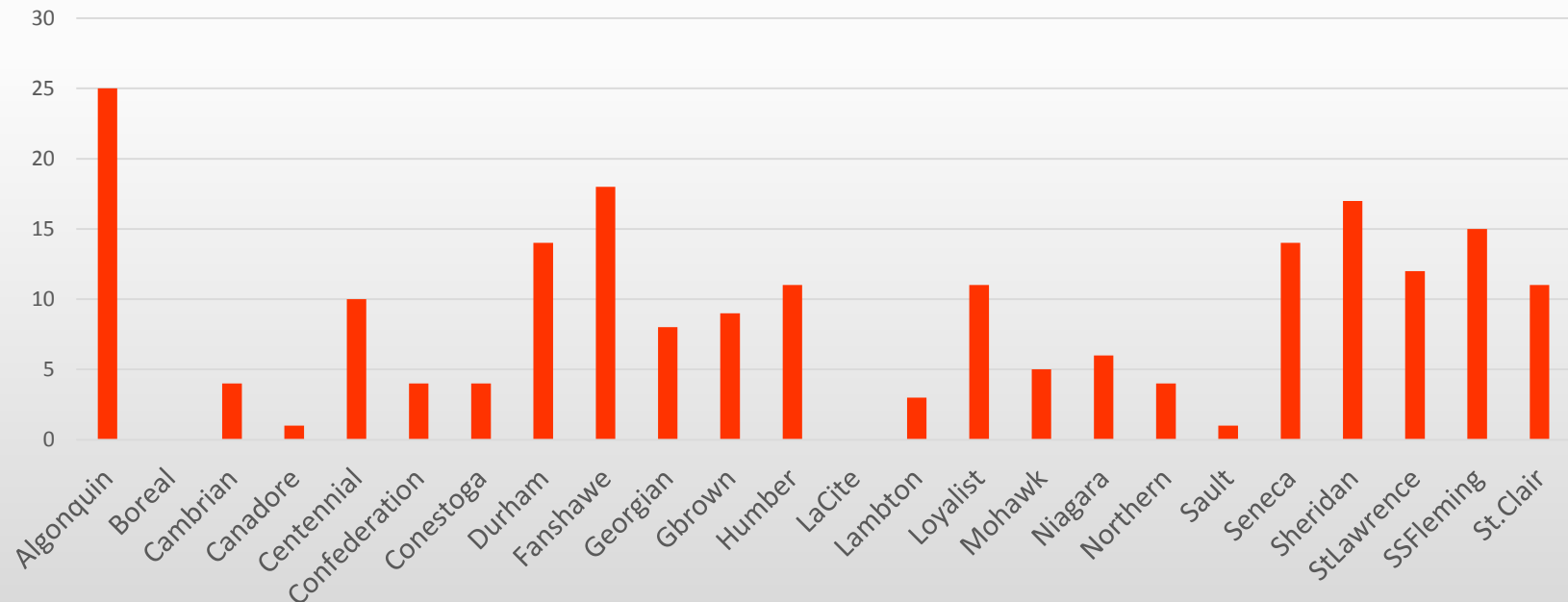
Sending Colleges and Select Receiving Universities



Online: Athabasca - “Out of Province”

- Specific appeal to college graduates: degree completion, post-diploma degrees
- Two year block credit for a wide variety of college programs
- Attracts graduates from every English language college
- Distance delivery, flexibility
- Continuous intake

Number of Transfers

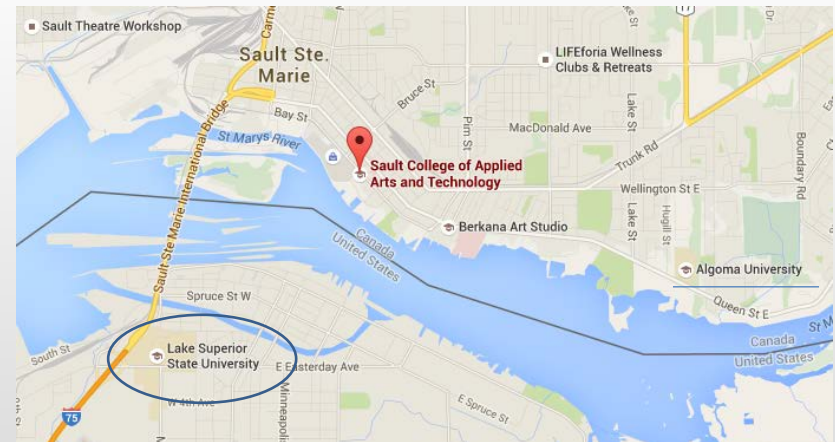


Out of Province - close: Lake Superior University



- Sault CAAT largest feeder
- Across the river – “two great institutions in two countries located only 20-minutes apart”
- Variety of programming: 45 areas of study
- “superior blend of liberal and technical studies”
- Individual agreements for specific programs
- Course-for-course transfer equivalencies for select Ontario colleges

- Total enrollment: More than 2,500 undergraduates.
- 88% Michigan residents with students from every county.
- 8.3% Ontario residents.
- 3.7% non-residents
- 45 areas of study



Out of Province - Agreements: Davenport and Royal Roads



- Graduate movement not characterized by geographic proximity
- Both institutions have signed omnibus agreements with numerous colleges
- Largely into business degrees, not necessarily from a program of affinity
- More transfer credit available (2 + 2) (3 + 1)
- Amount regardless of program – Heating, Refrigeration and Air Conditioning Technician; General Arts and Science; Police Foundations require two more years to earn a General Business Bachelor of Business Administration (2 +2)
- Other options such as on-line at Davenport University or distance learning at Royal Roads

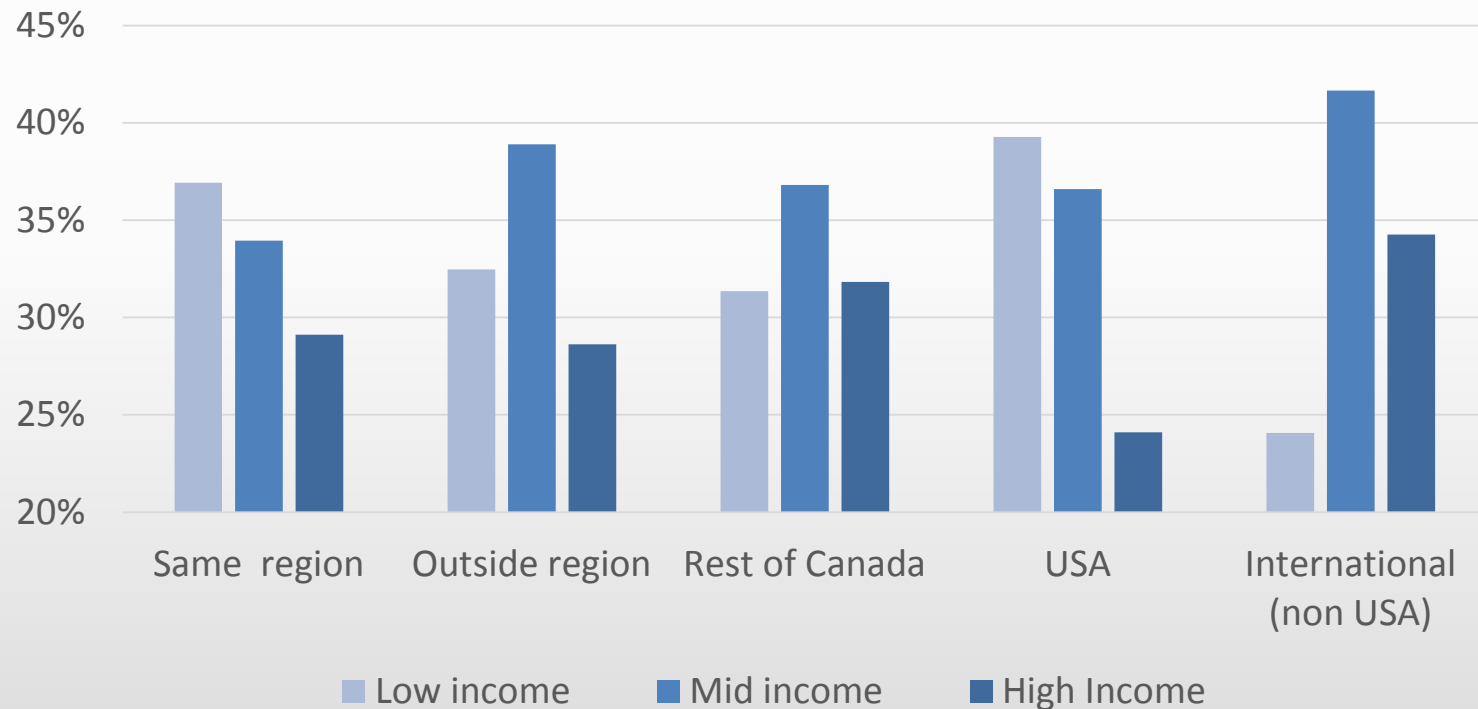
Ontario: What are the characteristics of graduates who transfer outside of their region, province, or country?

Demographics and Transfer Geography

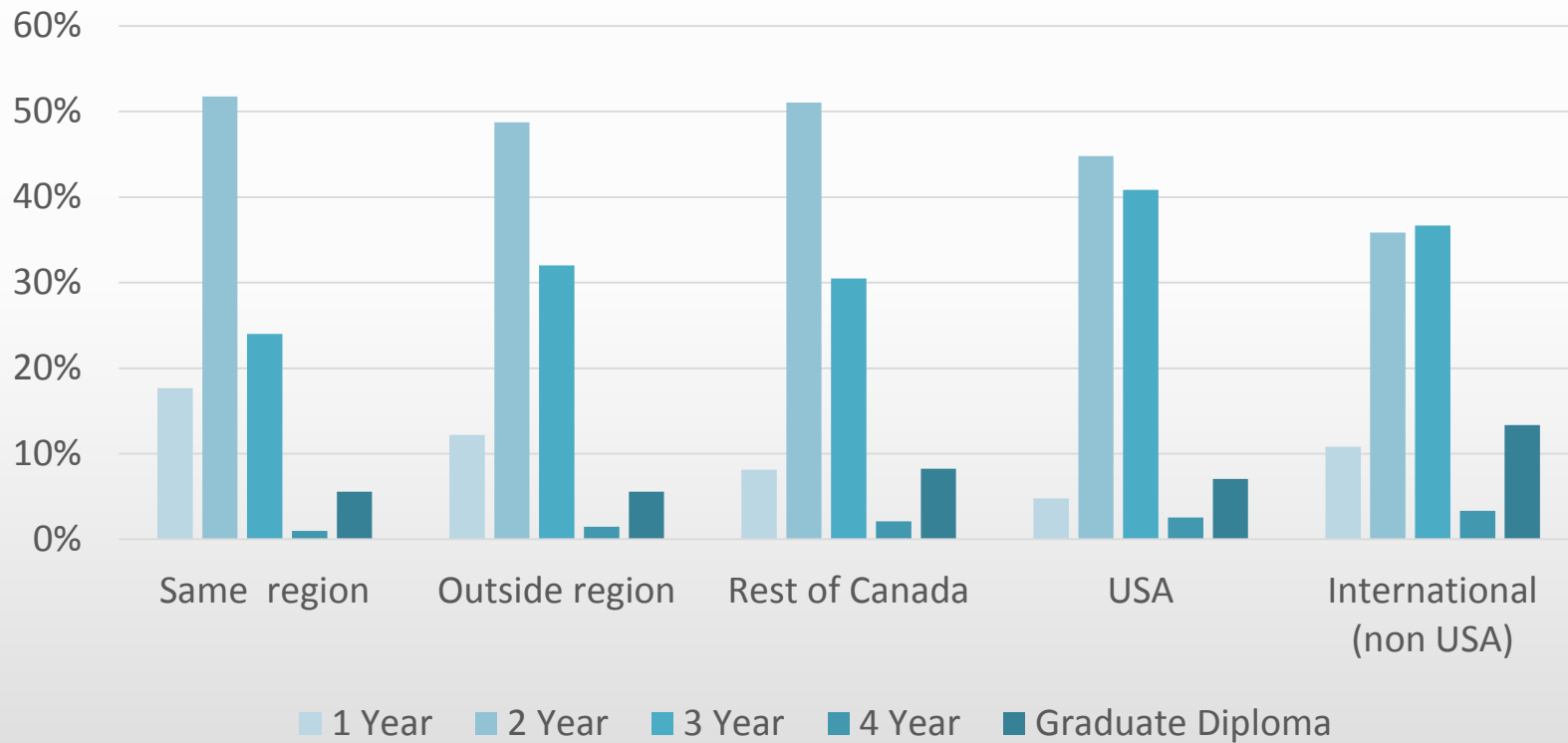
Statistic		Same region	Outside region	Rest of Canada	USA	International (non USA)	
Number of Students		-	8,469	4,797	958	355	120
Load	Full Time	87%	90%	74%	89%	88%	
	Part Time	13%	10%	26%	11%	13%	
Funding	Minsitry Funded	95%	96%	95%	95%	88%	
	International	4%	3%	4%	3%	12%	
	Other	1%	1%	1%	1%	1%	
Age	Age under 22	41%	39%	34%	32%	22%	
	Age 22-25	39%	42%	41%	46%	52%	
	Age 26+	20%	19%	25%	22%	26%	
Gender	Male	41%	44%	42%	52%	60%	
	Female	59%	56%	58%	48%	40%	

Staying in Same Region More Common Among Low Income Students

Share of University Transfers by Neighbourhood Income

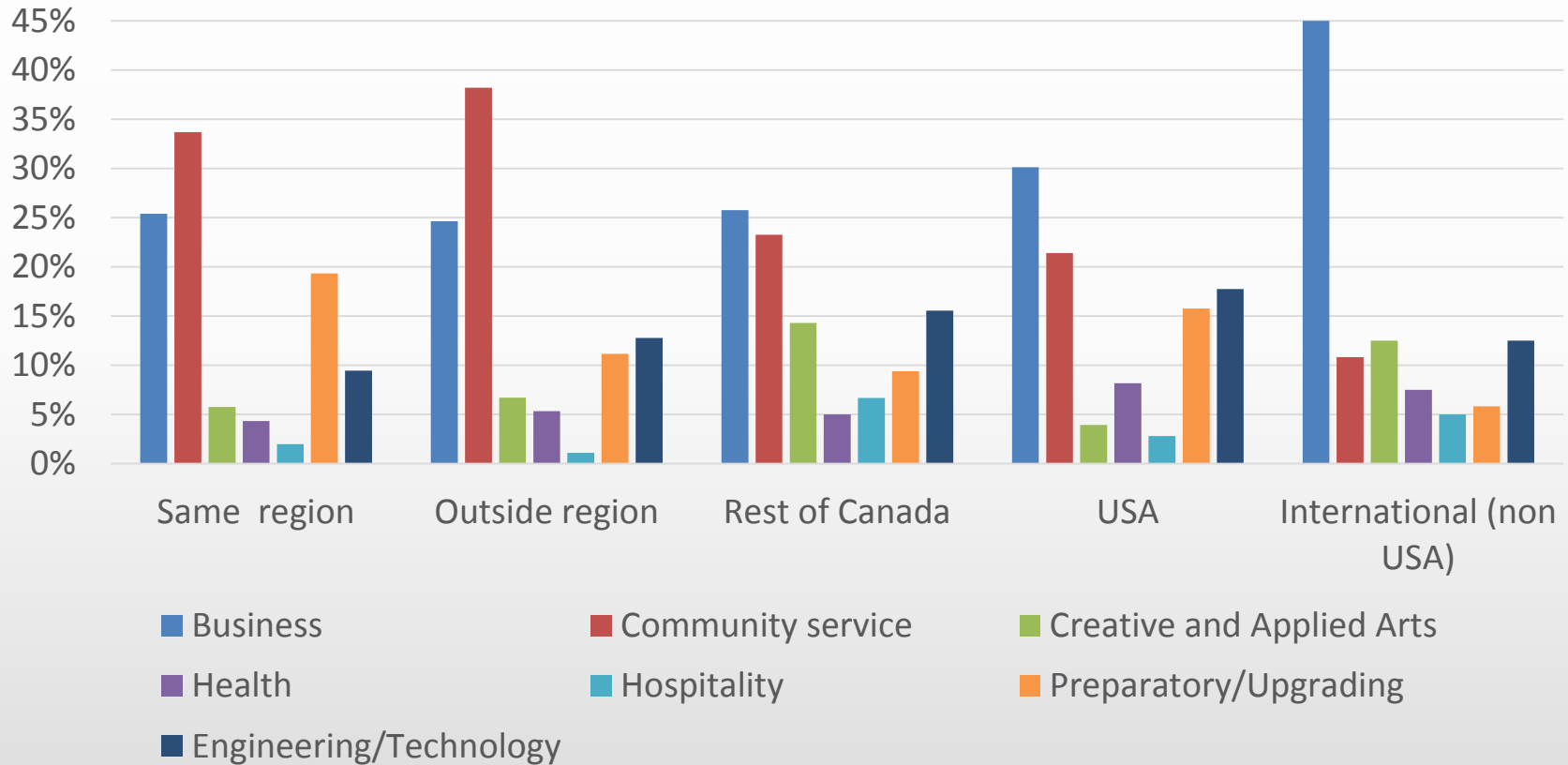


Transfer by Credential Type

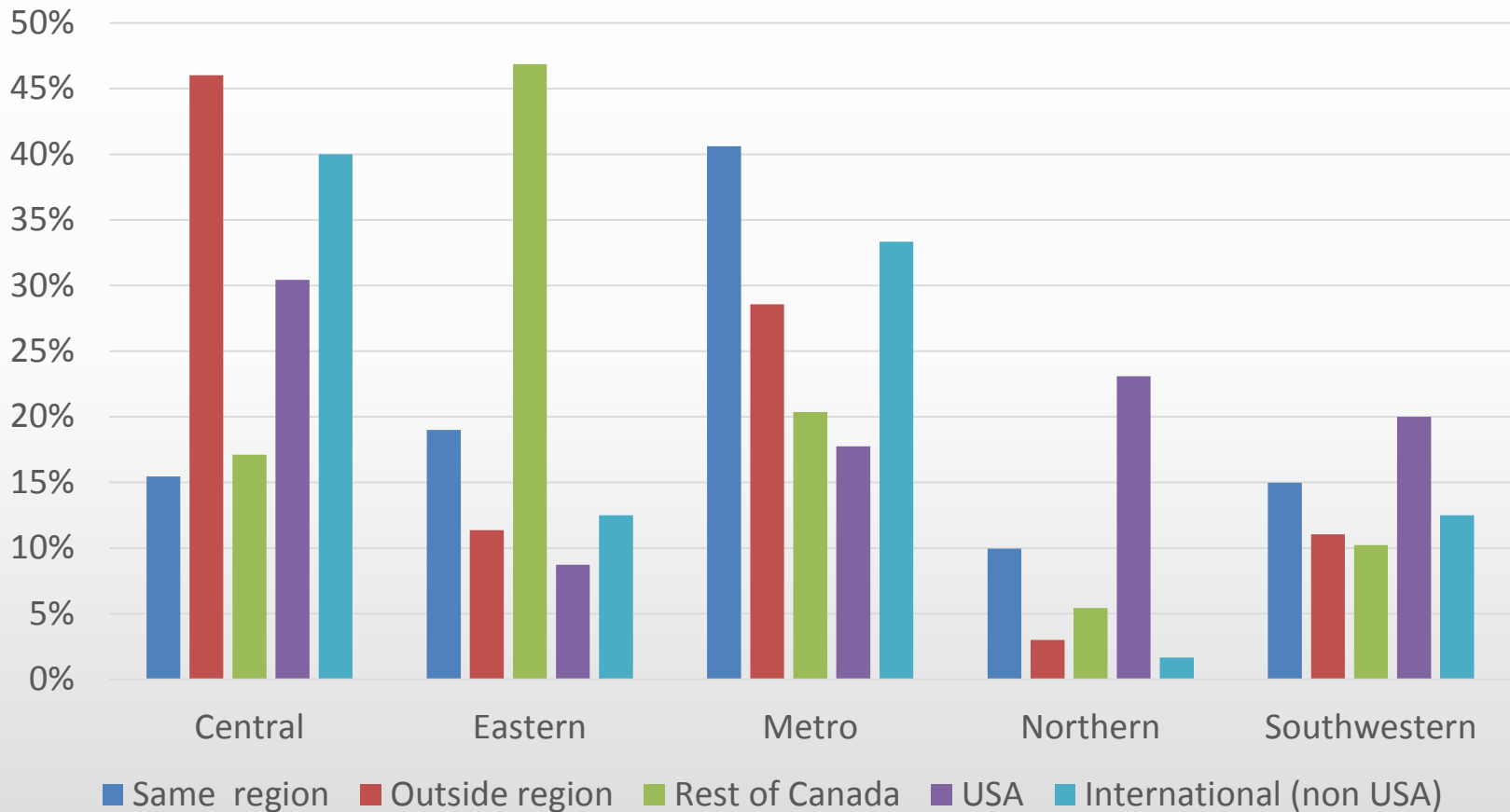


What Programs do Transfers Come From?

Percent of Students in Regions Coming from Various Program Groups



Overall Transfer Patterns by Region of Origin



Ontario: How does the transfer experience differ among those who transfer outside of their region, province, or country?

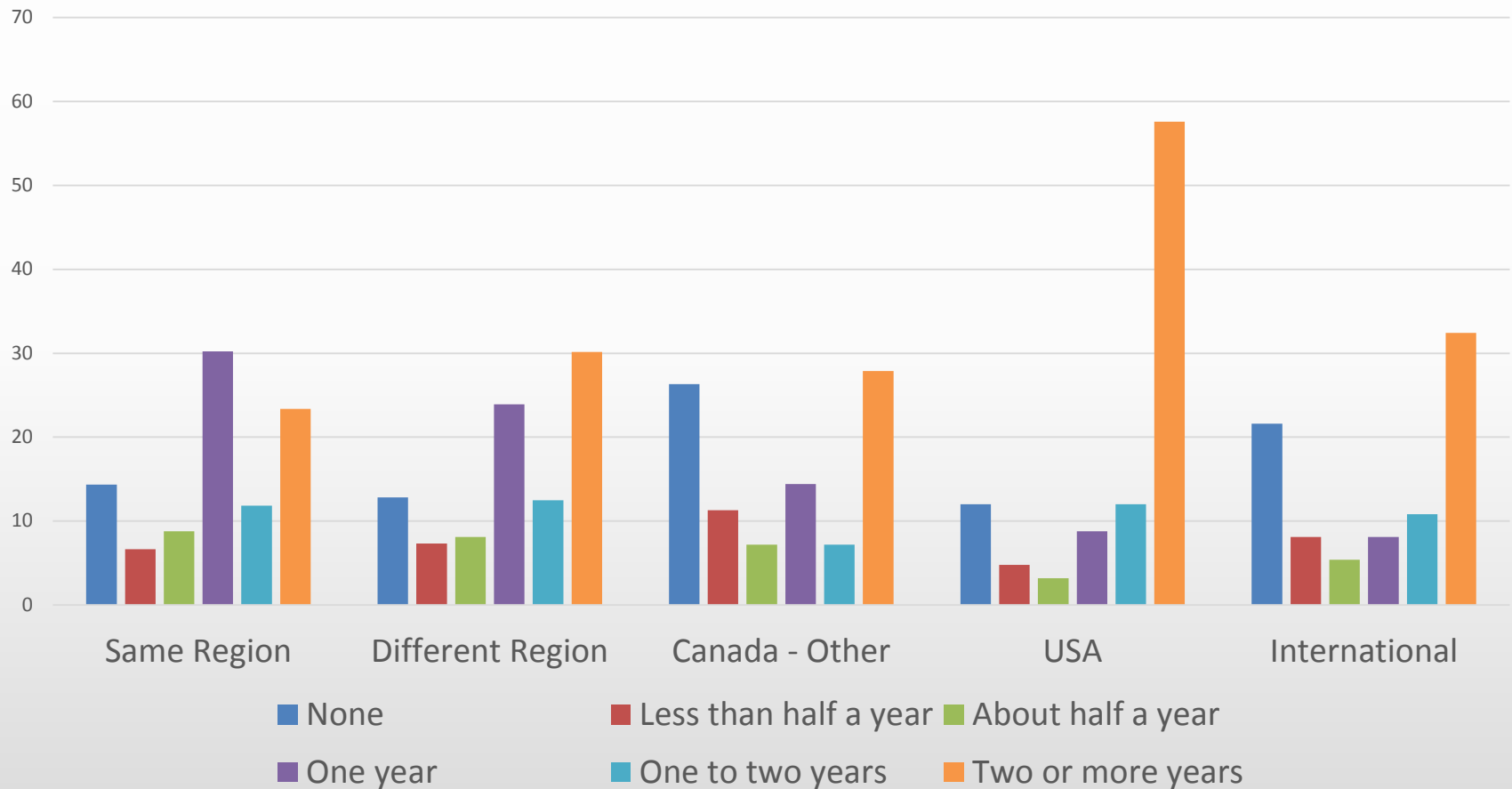
What Programs are Transfers Entering?



	Same region	Outside region	Rest of Canada	USA	International (non USA)
Number of Students	8,032	4,568	516	189	76
Education, Physical Education	5%	9%	3%	10%	1%
Fine and Applied Arts	2%	3%	6%	1%	12%
Humanities	8%	4%	8%	2%	9%
Social Sciences	39%	35%	22%	25%	18%
Agriculture and Biology	2%	2%	2%	2%	3%
Engineering and Applied Arts	5%	10%	8%	10%	3%
Health Profession	9%	9%	7%	7%	12%
Mathematics and Physics	3%	2%	3%	3%	3%
General Arts and Science	2%	1%	2%	1%	3%
Commerce/Business/Adm	21%	22%	31%	36%	32%
Other	4%	3%	6%	5%	5%

Are There Differences in the Amount of Transfer Credit Reported?

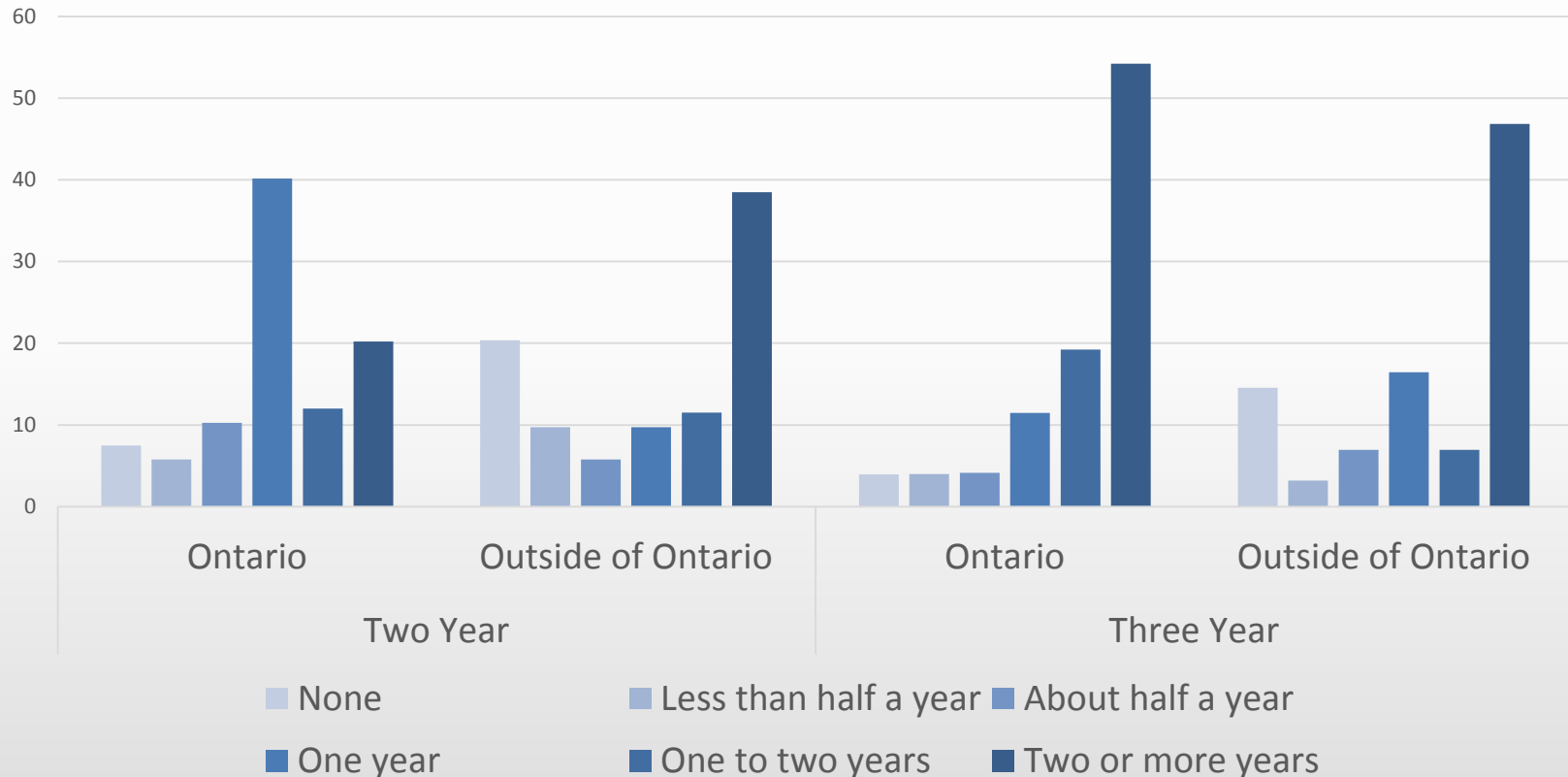
Transfer Credit by Destination Area



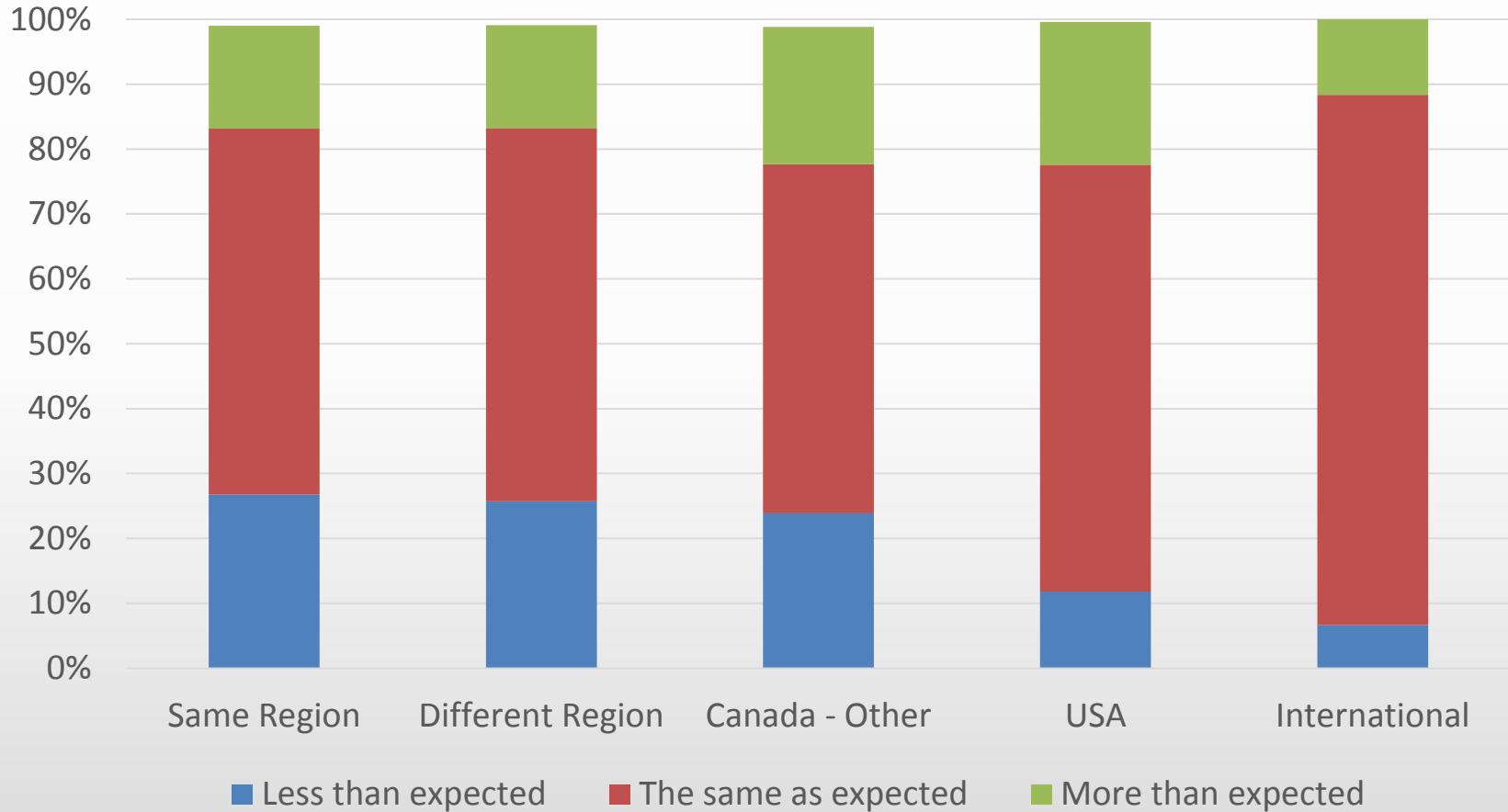
Graduates Receive More Credit for Two Year Programs Outside the Province



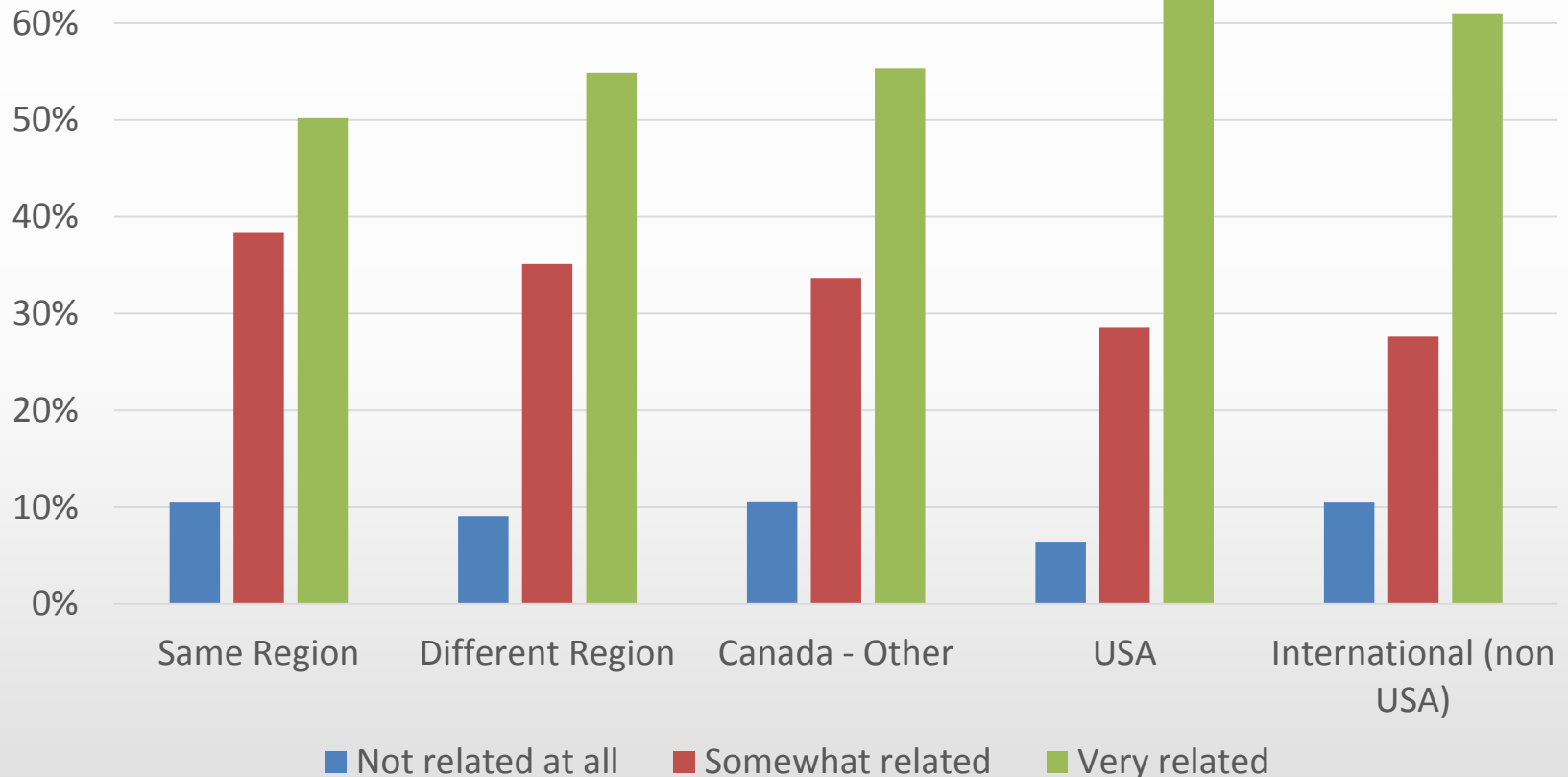
Transfer Credit Reported



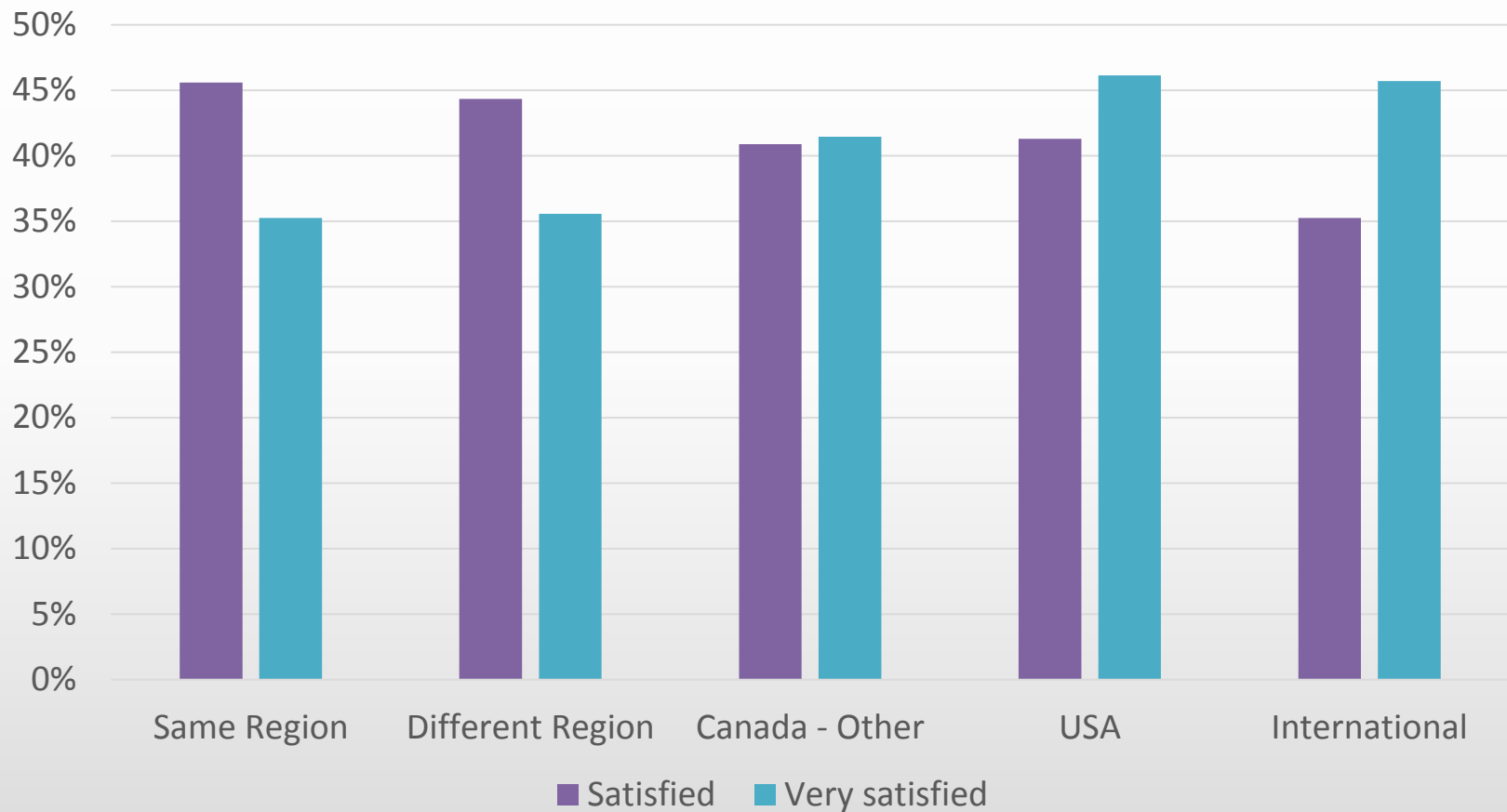
Transfer Credit Received vs. Expectations



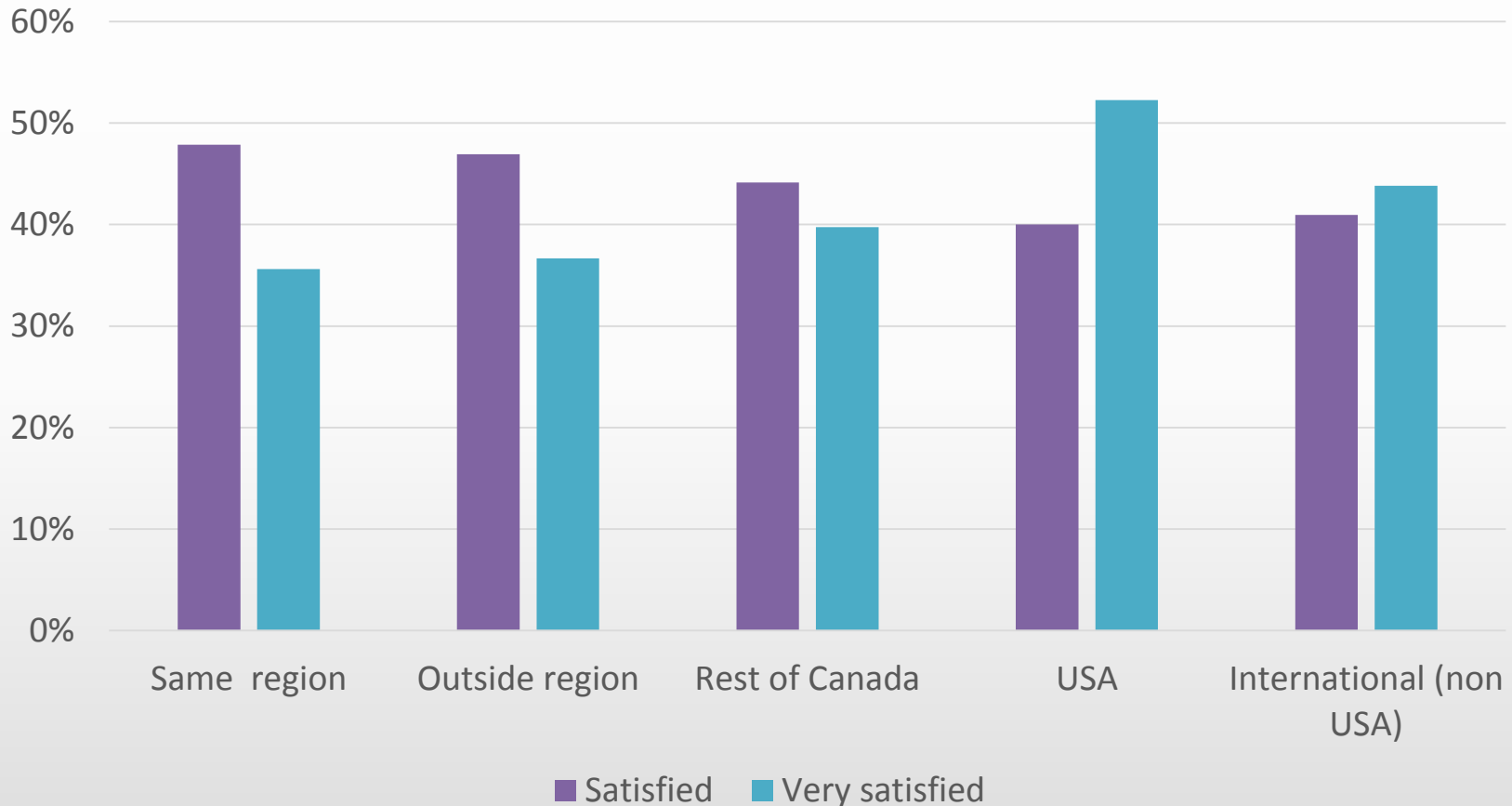
Higher Program Affinity Reported Among Those Outside of Ontario



Higher Levels of Satisfaction with Transfer Experience Outside of Ontario



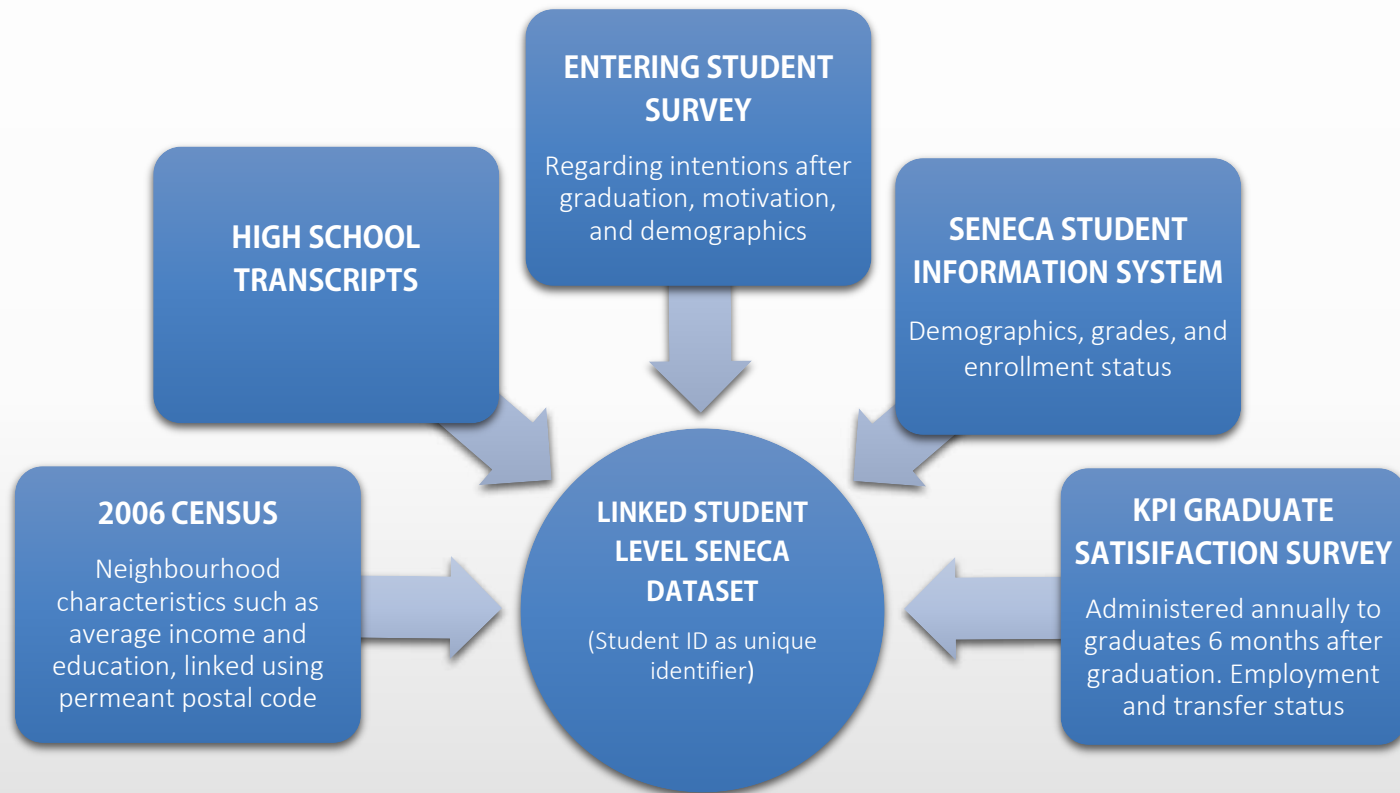
Non-Ontario Transfers Report Higher Satisfaction with Academic Preparation



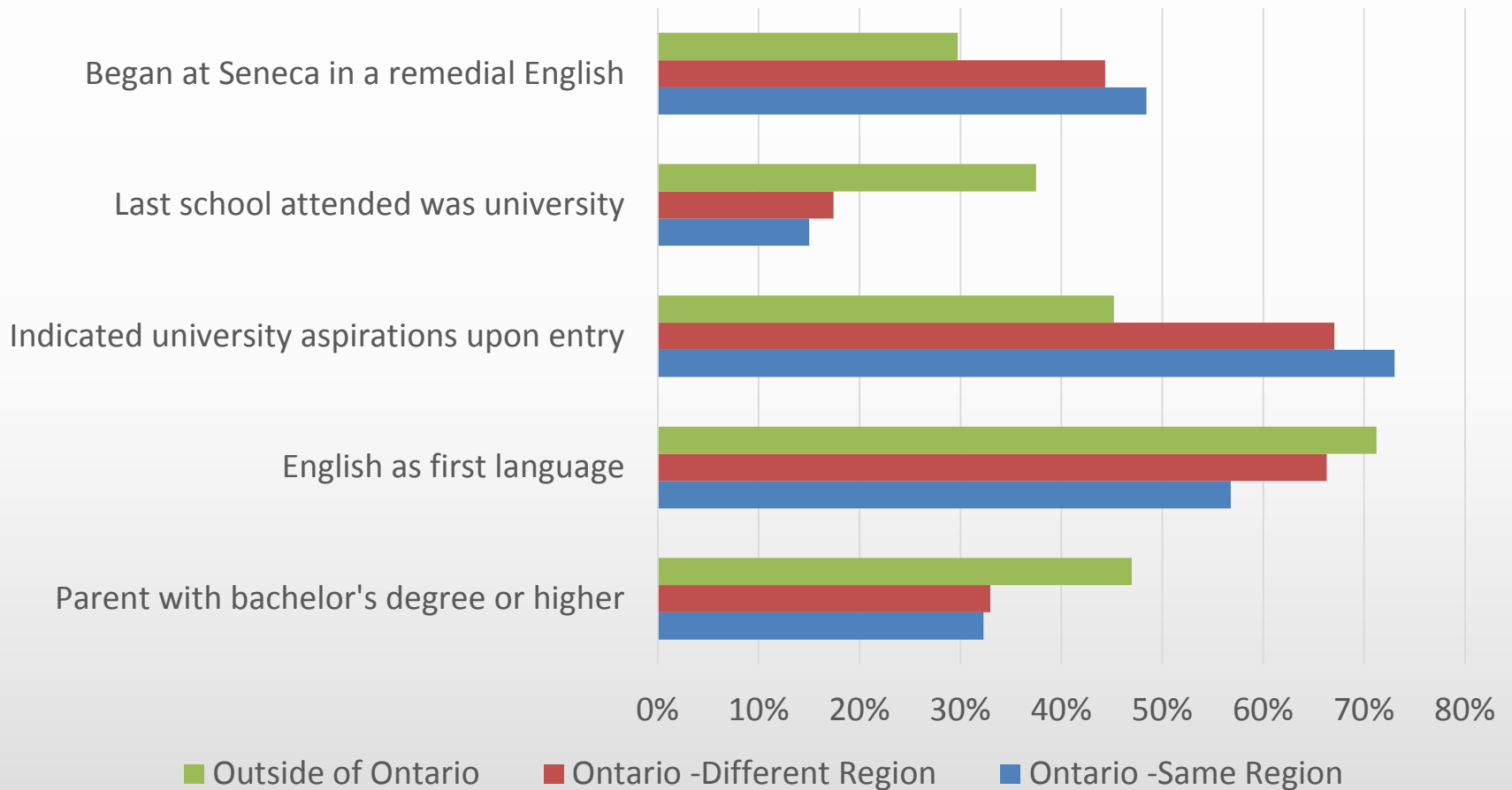


Seneca Findings

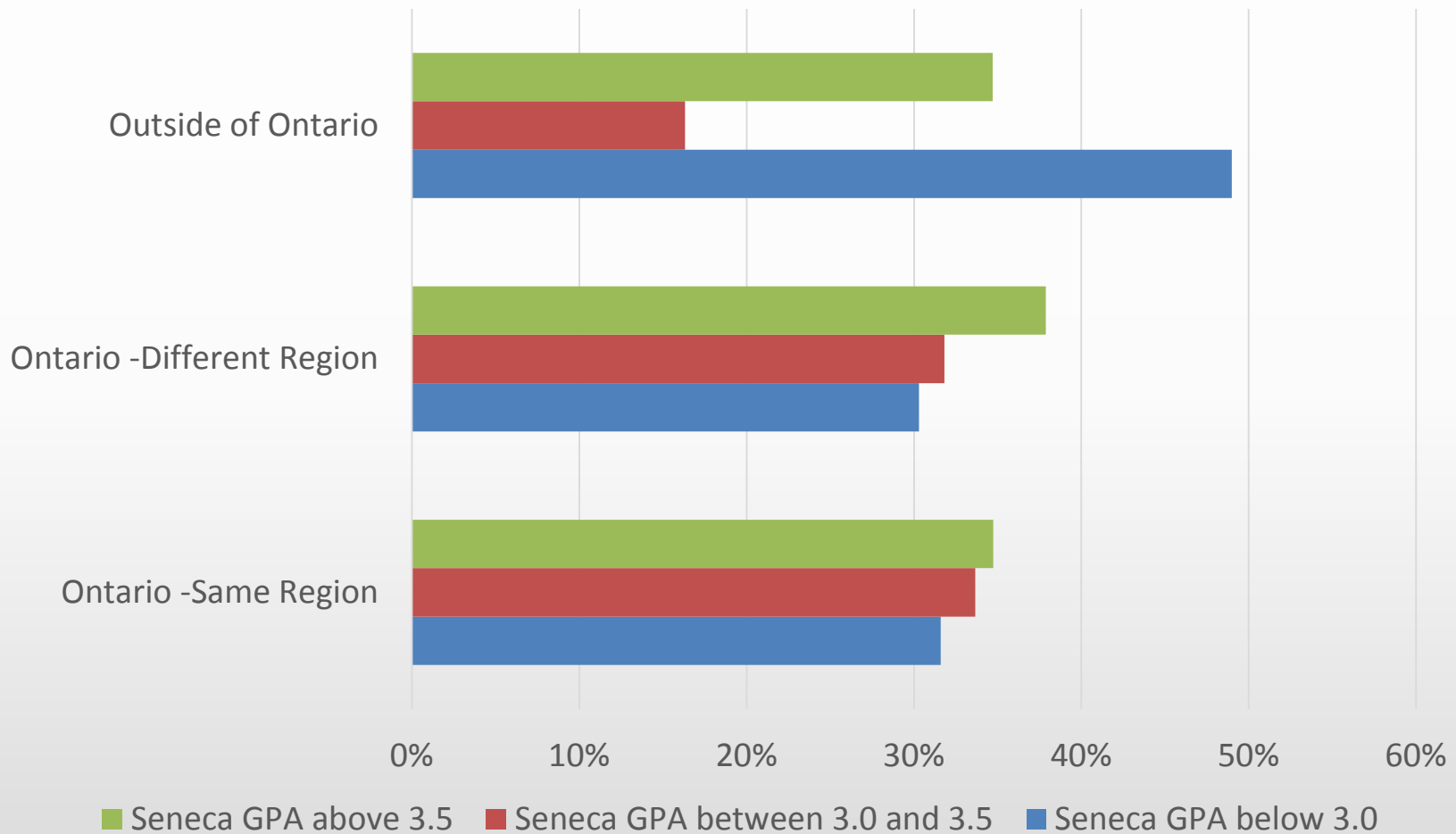
Linked Data Sources



Characteristics of Seneca's Graduates who Transfer



Student GPA by Transfer Region



Study Limitations and Conclusions

Limitations

- Students who transfer prior to graduation or those who transfer more than 6 months after graduation are not captured in this dataset.
- Our sample of Out-of-Province students is likely disproportionately small due to non-response bias (harder to contact those who move)
- Difficulty in determining those residing in Ontario but taking distance education courses.
 - Two concepts of movement (importation of education vs exportation of students) may have different implications for policy.
- GSS is self-reported, administrative data would be preferable.

Conclusions

- Students who study outside of Ontario tend to report higher program affinity as well as more transfer credit.
- Students from middle and high income neighbourhoods tend to be among those who went further for study.
- International transfer and out-of-province transfer is most often in the business field of study.
- Those studying outside of Ontario are more likely to be part time, likely indicative of distance education courses.
- One year graduates tend to stay in region. There was a disproportionately larger share of two and three year graduates enrolled out of region/ out of province.

Future Research

- Geographical proximity plays a critical role in mobility patterns, even across borders. But, we often lose track of individuals when borders are crossed.
 - This research may be useful for identifying future extra-provincial research partners for those who are major recipients of Ontario transfer students.
- Perform a cost-benefit analysis of US/international transfer.
- Address the role of distance education in university transfer.



Thank you!

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Note on Sample Size: Student Experience



According to the survey logic, any receiving institution that was not originally classified as a university was not asked the experience questions (Analyzed on the following slides).

	Same region	Outside region	Rest of Canada	USA	International (non USA)
Number of Respondents	8,469	4,797	958	355	120
Share of Respondents with Experience Questions	97%	96%	54%	54%	63%

Ethics and Privacy

- Private and confidential data is being handled with extreme care with approval from Seneca's privacy office.
- Three types of safeguards to prevent unauthorized access:
 - Technical
 - Administrative
 - Physical
- Ethics Approval was granted for the purpose of creating a multi-year, panel dataset, from five separate data sources.
- We are currently using these data to a set of transfer related questions.