

**The Choices They Make:
Post-Secondary Destinations of
BC Grade 12 Graduates Enrolling in
BC Public, BC Private and Non-BC Institutions**

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**An STP Presentation for
BCCAT's
Joint Annual Meeting (JAM)**

**By
Joanne Heslop, Manager, STP
Devron Gaber, Associate Director, BCCAT**

**November 5, 2010
Richmond, BC**

AGENDA

2

STP BACKGROUND

10 STP RESEARCH QUESTIONS & ANSWERS ...

Post-Secondary Destinations of BC Grade 12 Graduates:

- BC Public
- BC Private
- Non-BC

STP BACKGROUND

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HISTORY

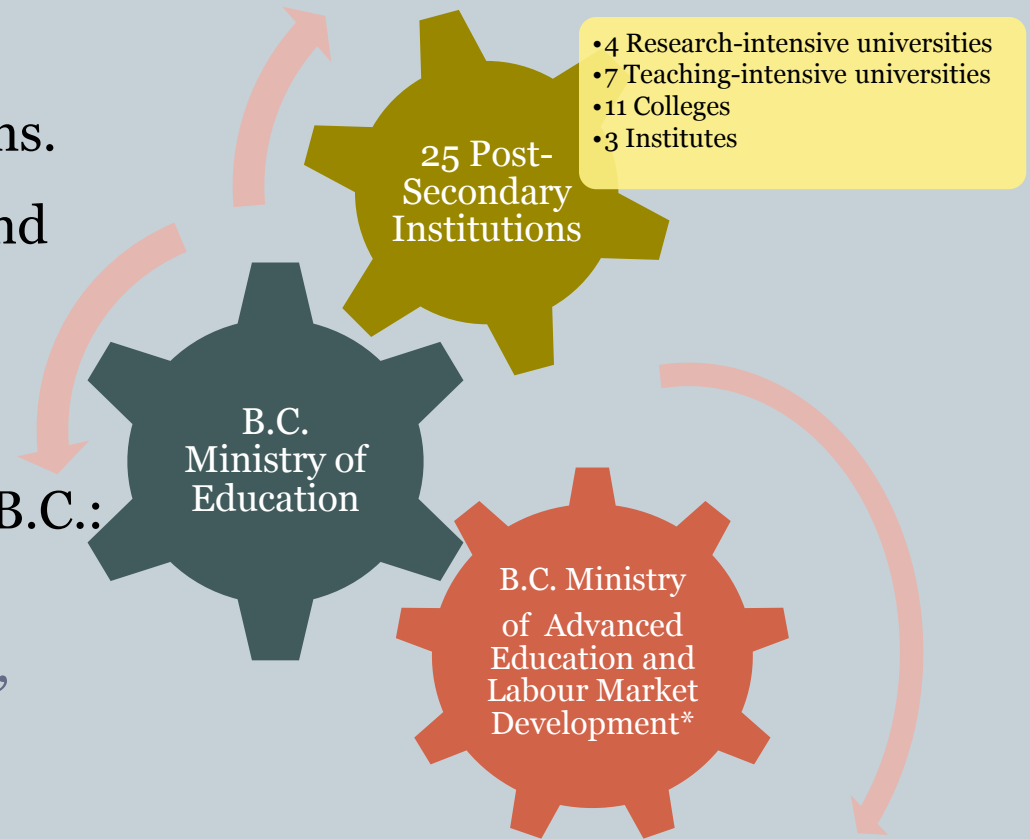
PURPOSE

METHODOLOGY

Student Transitions Project (STP)

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- STP began in 2005.
- Collaborative research effort across B.C.'s Education systems.
- B.C. Council on Admissions and Transfer (BCCAT) is also a partner in STP research.
- Used for strategic planning at various levels of education in B.C.:
 - school districts,
 - post-secondary institutions,
 - government.



STP Purpose, Goal and Outputs

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Purpose

Collect, analyze, report on **student mobility** using **K-12** and **post-secondary** education data.

Outputs

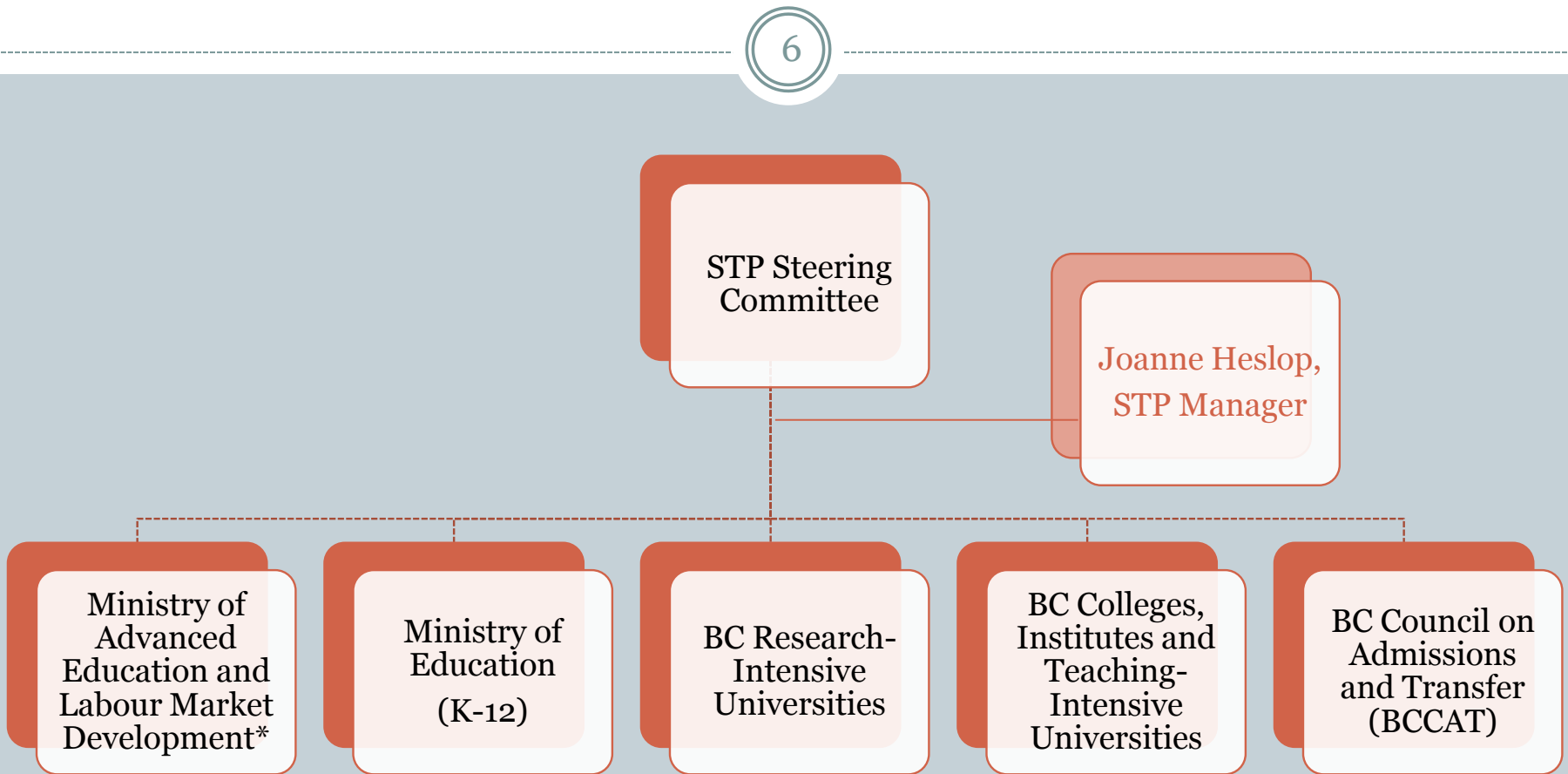
Reports, newsletters, Excel PivotTables and interactive tools on a variety of topics.

Goal

Provide **reliable information** at **predictable times** in a **timely manner** to support institutions and government with planning.

STP Governance

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* Two ministries, the Ministry of Regional Economic & Skills Development and Ministry of Science & Universities, are responsible for post-secondary education in BC effective October 26, 2010.

STP Sub-committees

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STP

Data
Management
Subcommittee

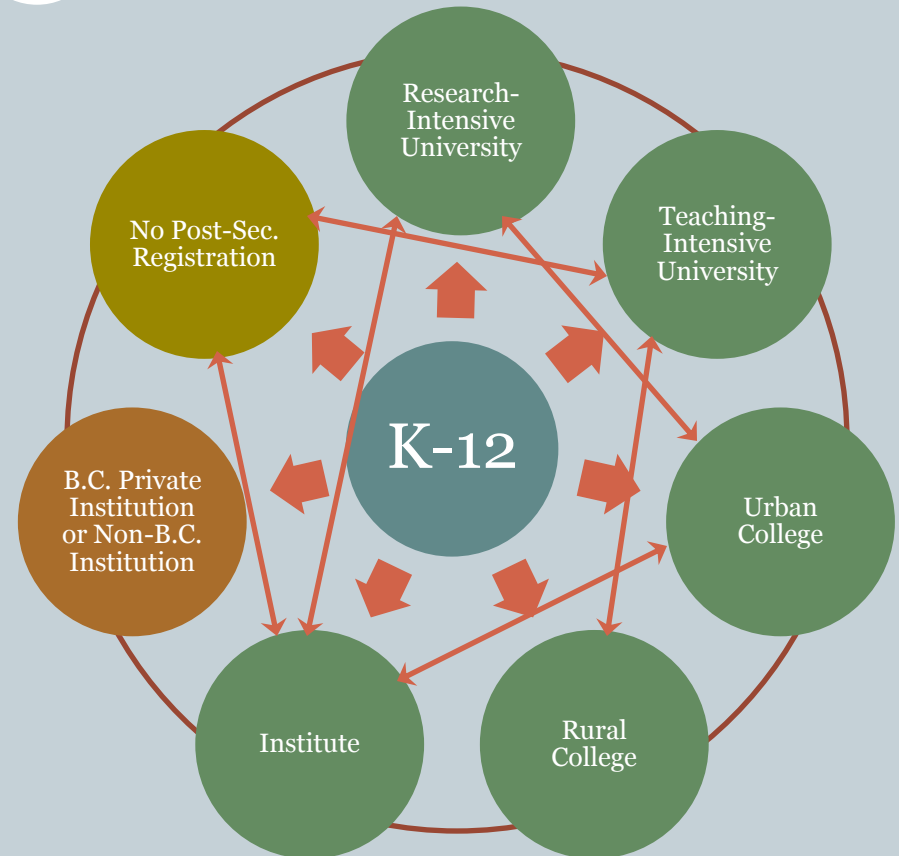
Applicant
Research
Subcommittee

Mobility of
Transfer
Students
Subcommittee

Student Transitions and Mobility

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- STP tracks education transitions and pathways of students:
 - From K-12 to post-secondary,
- AND
- Within the post-secondary system.

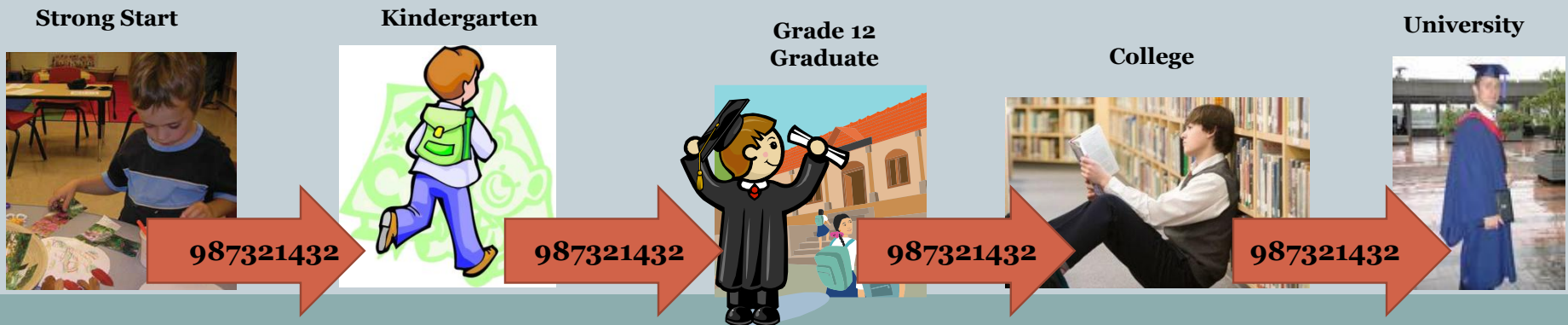


Using 2009-10 institution types

Student Transitions – How?

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- Personal Education Number (PEN).
- Without the PEN, there would be no STP.
- All students entering K-12 in B.C. are assigned a nine-digit number.
- This unique identifier follows students throughout their education in B.C.
- STP links the PEN between the education systems to track student transitions while protecting personal privacy.
- This is key to our ability to track student movement over time.



STP Outputs and Information

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- **Annual Reports/Updates:**
 - Transitions of High School Graduates into B.C. Public Post-Sec
 - Movement of Students Between Institutions
 - Mobility of Transfer Students
 - STP Fast Facts
 - Regional Transition Rate Matrices
- **Special Reports & Studies**
 - Transitions Beyond the B.C. Public System (B.C. Privates & Non-B.C.)
 - Aboriginal Student Transitions
 - Credential Completion
 - Cohort/Retention Study of a Grade 12 Graduation Cohort
 - Program evaluations



Future Projects and Work in Progress

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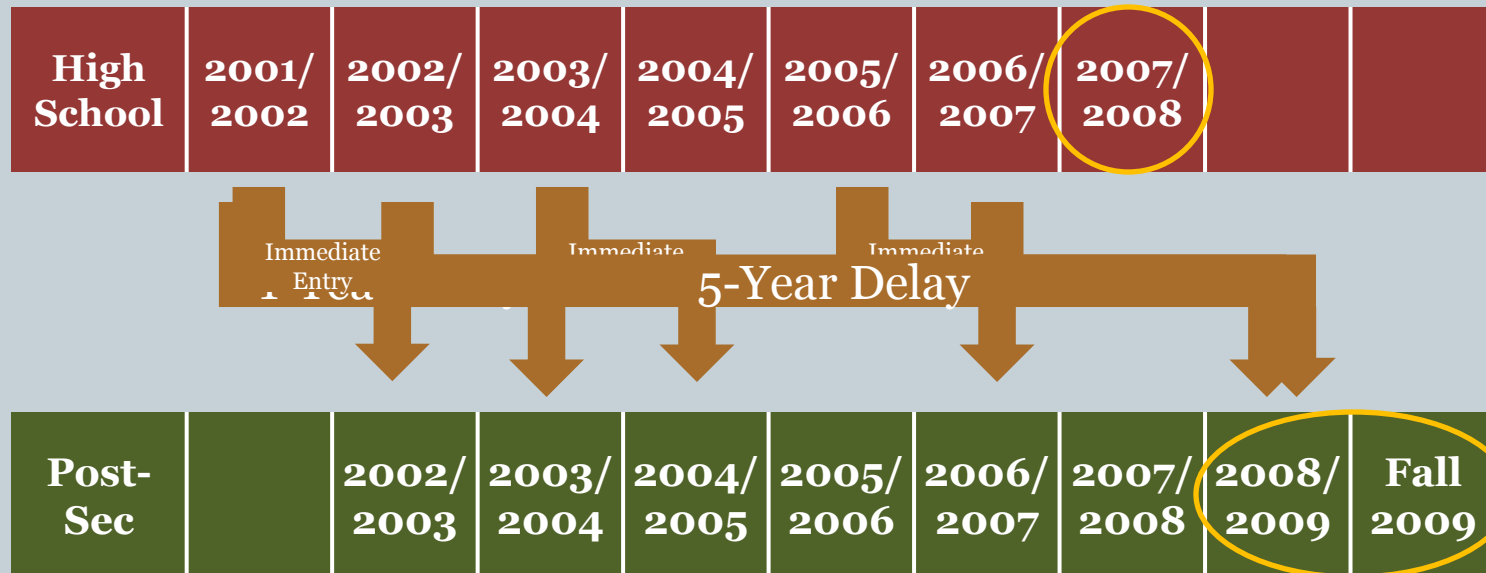
- Transitions of non-graduates
- Applicant Research
- PENning of Private Institutions
- Link STP to student outcomes - employment and education satisfaction
- Impact of high school courses and grades on student transition rates.
- International students – transition rates and mobility
- Longitudinal student mobility



Which Students are Included?

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- High School Graduates of 2001/02 – 2007/08



- First transitions to B.C. public post-secondary education: 2002/03 – 2008/09

STP RESEARCH FINDINGS

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Research Question #1

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**What proportion of B.C. Grade 12
Graduates enrol in B.C. public
post-secondary education
after graduation?**

When do they enrol?

Student Transitions – When?



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The majority enroll
in Fall (44%)

K-12

**Immediate
Entry
(51%-52%)**

**1-Year
Delay
(11%)**

**2-Year
Delay
(5%)**

**3-Year
Delay
(3%)**

4-Year Delay (2%)

5-Year Delay

6-Year

**7-Yr Cumulative
Transition Rate = 75%**

Research Question #2

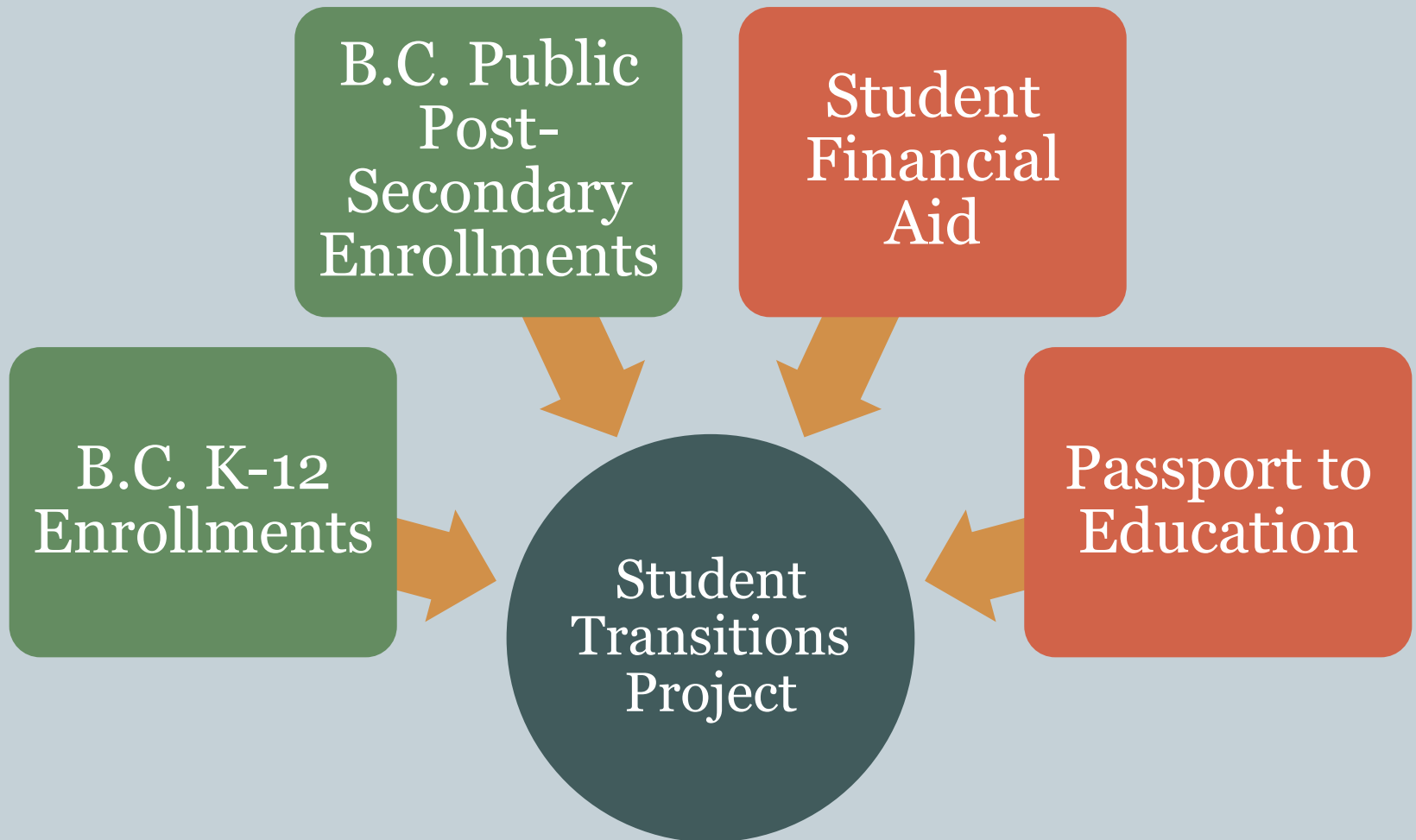
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Among those who do not transition to B.C. public post-secondary education, are they enrolling elsewhere?

- **B.C. Private Institutions?**
- **Non-B.C. Institutions?**

STP Links to Other Sources to Identify Student Enrollments Beyond the B.C. Public System

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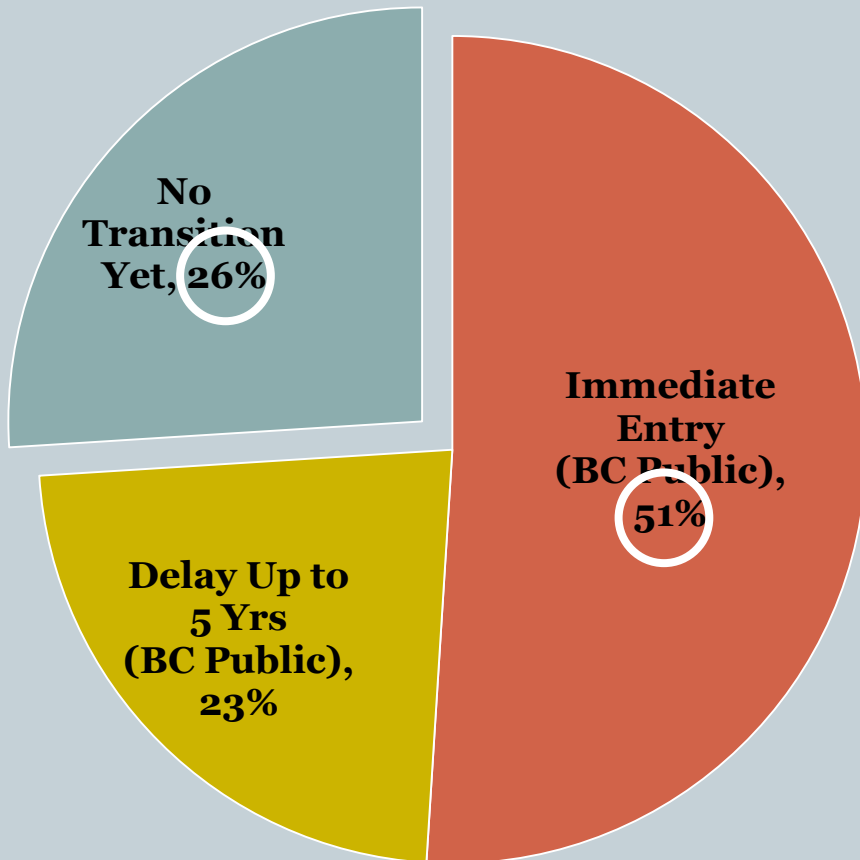
The PEN makes the data linkage possible.

Student Transition Rates Over Six Years (2001/02 Grads): **Two Perspectives**

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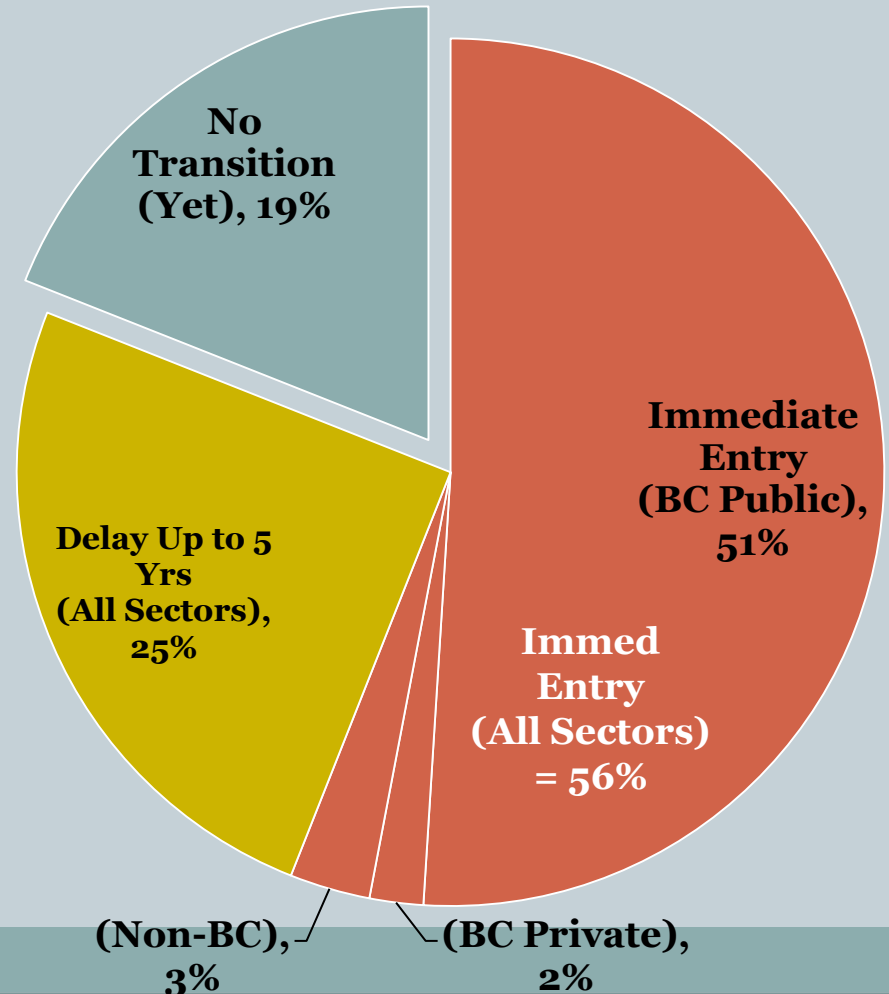
(1) BC Public System Perspective:

Cum. 6-Year Transition Rate = 74%



(2) All Sectors Perspective:

Cum. 6-Year Transition Rate = 81%



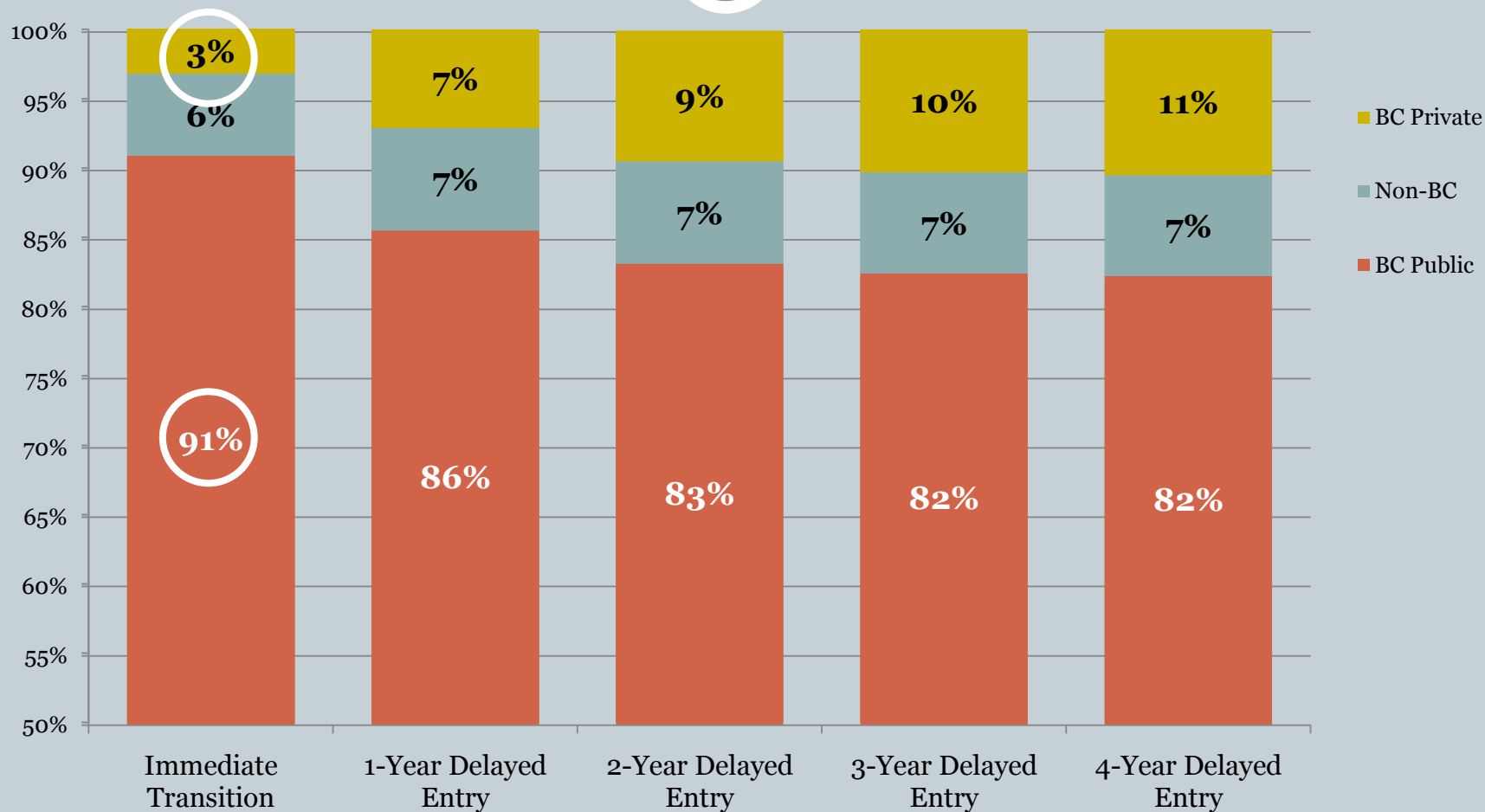
Research Question #3

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**Does time of entry
(Immediate vs. Delayed entry)
have any influence on post-secondary
sector destination?**

% Distribution of Post-Secondary Registrants, by Sector Destination and Time of Entry

20



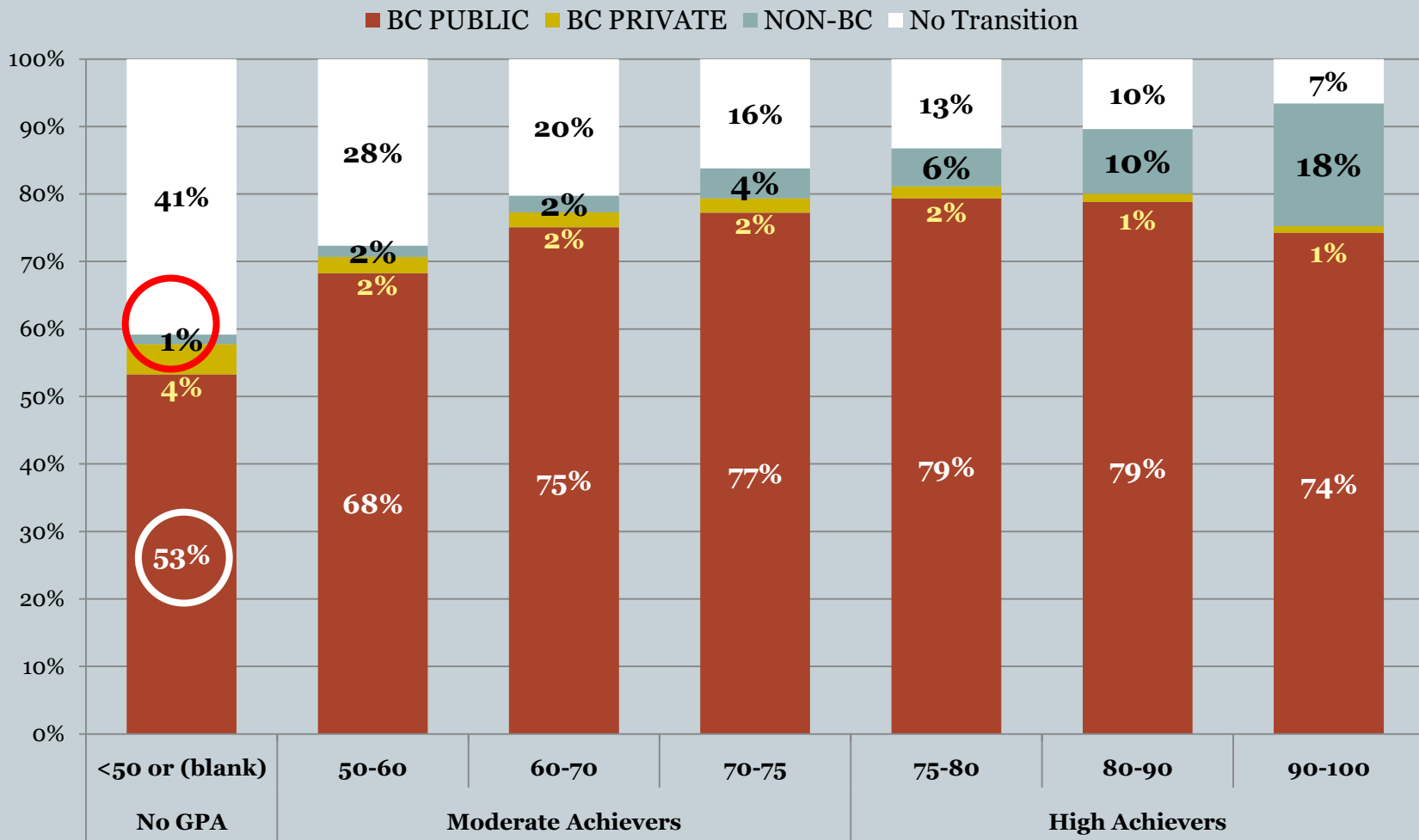
High School Graduation Cohorts of 2001/02 to 2006/07

Research Question #4

21

Do academic qualifications from high school affect students' post-secondary sector destinations?

% Distribution of Post-Secondary Registrants, by Sector Destination and Academic GPA at Gr12 Graduation



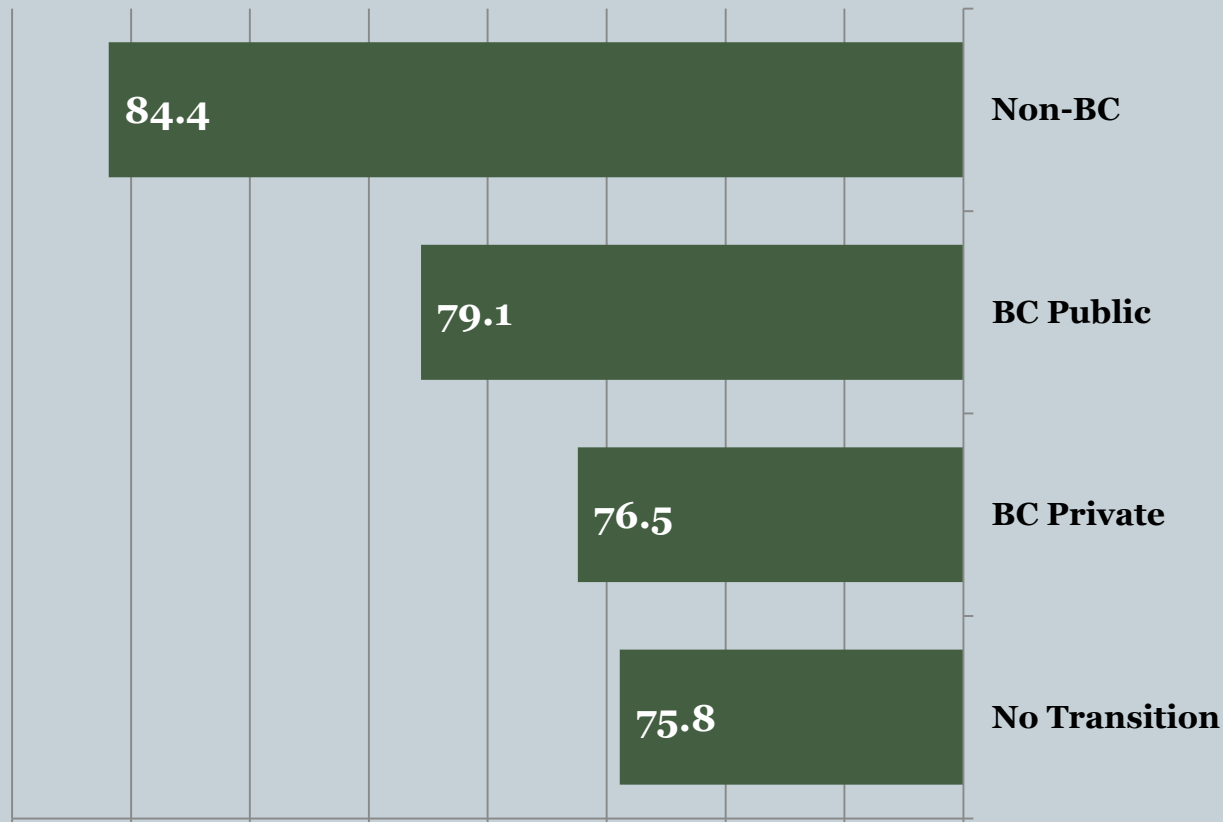
High School Graduation Cohorts of 2001/02 to 2006/07. On average, 5% enrol outside of BC.

Sector Destination and Academic Qualifications: (BC Grade 12 Graduates of 2001/02 to 2006/07, by 2007/08)



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Average Academic GPA



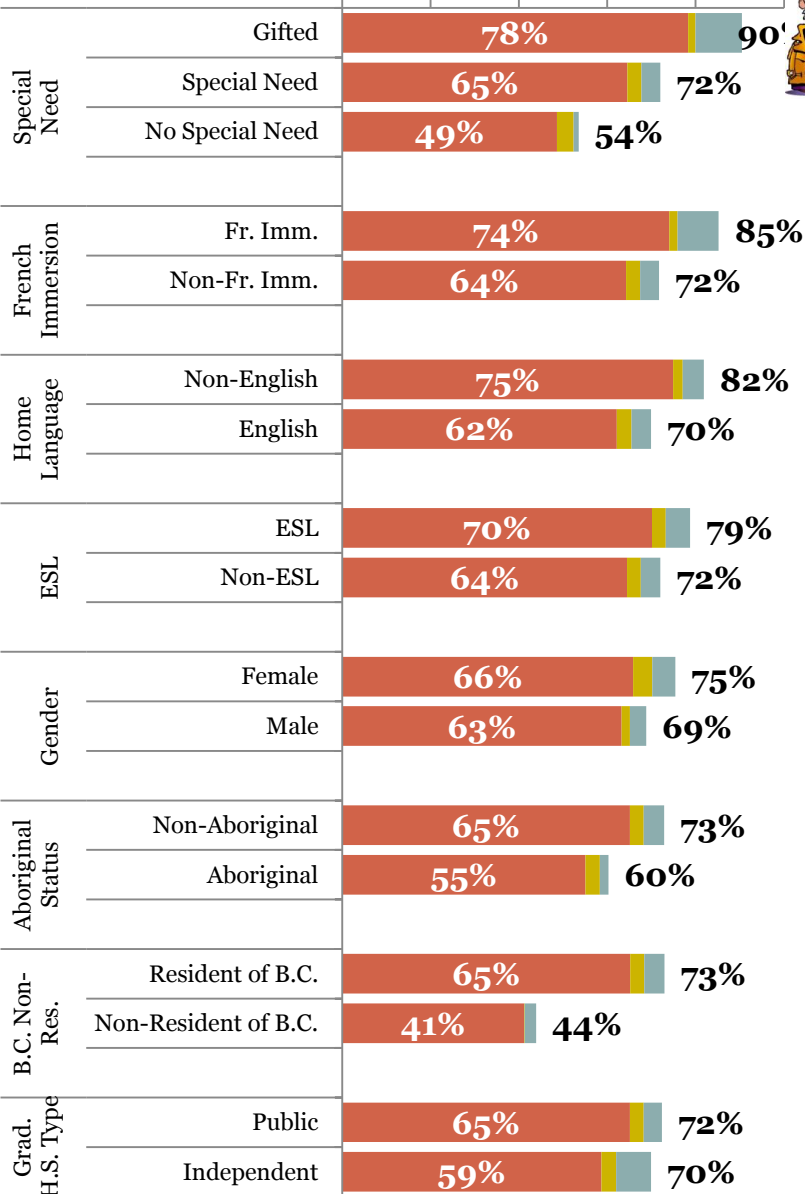
Research Question #5

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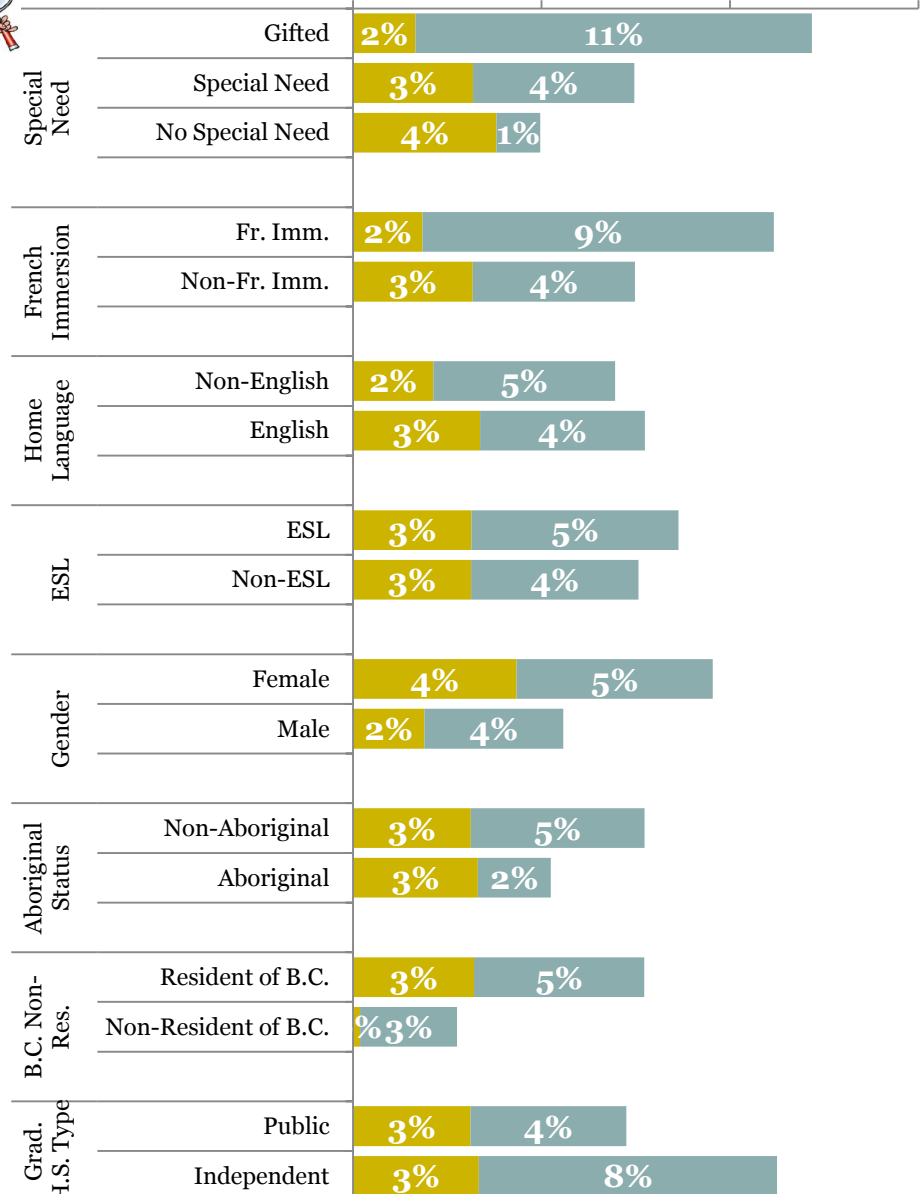
**Do student sector destinations
vary by student demographic
characteristics?**

Student Transitions into Post-Secondary Sectors, by Demographic Characteristics

BC Public BC Private Non-BC All Sectors



BC Private Non-BC



Research Question #6

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**What are the regional differences in
student sector destinations?**

College Regions and Geographic Areas

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Vancouver Island:

- 1 - Camosun
- 8 - Malaspina
- 11 - North Island

Lower Mainland:

- 2 - Capilano
- 15 - Vancouver/Langara

Boundary-Fraser Valley:

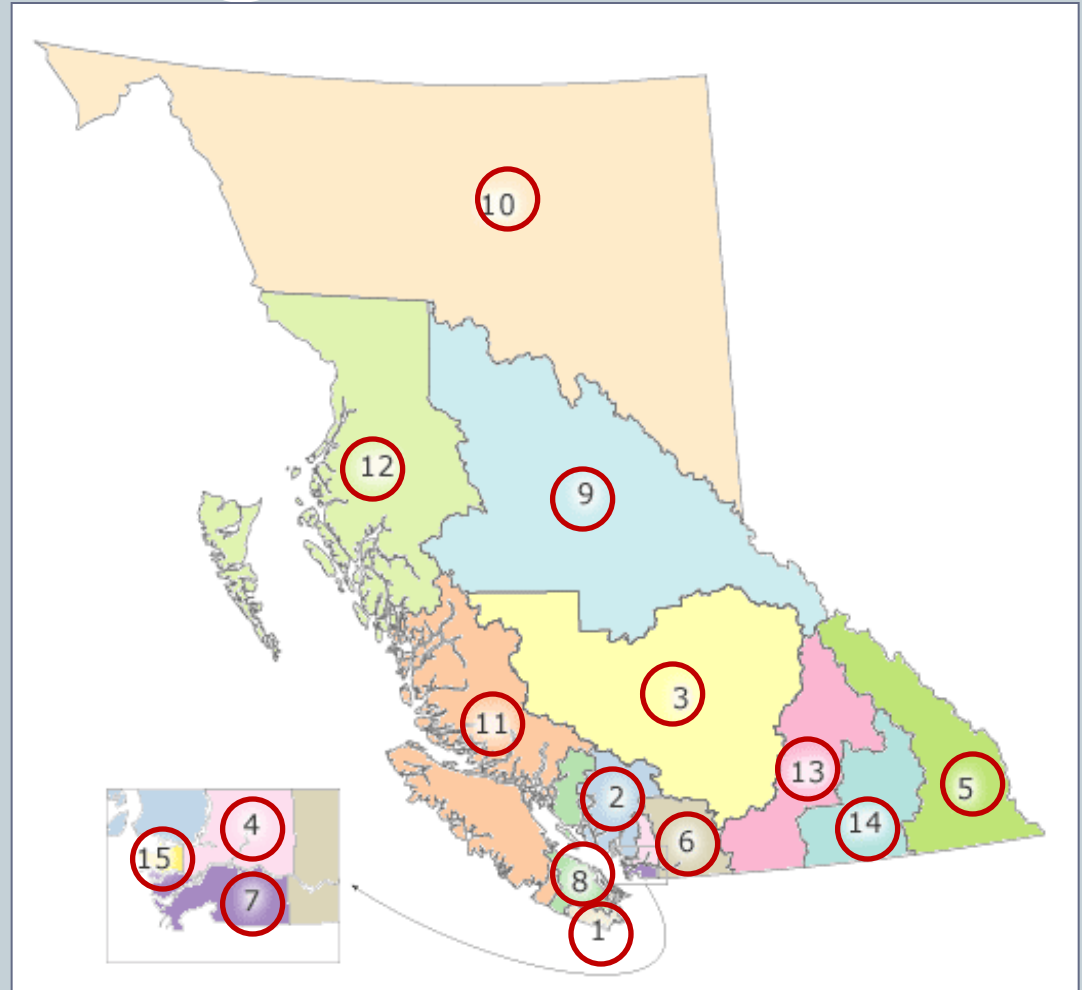
- 4 - Douglas
- 6 - Fraser Valley
- 7 - Kwantlen

Interior:

- 3 - Thompson Rivers
- 5 - Rockies
- 13 - Okanagan
- 14 - Selkirk

Northern BC:

- 9 - New Caledonia
- 10 - Northern Lights
- 12 - Northwest



Regional Transition Rates into B.C. Public and B.C. Private Post-Sec

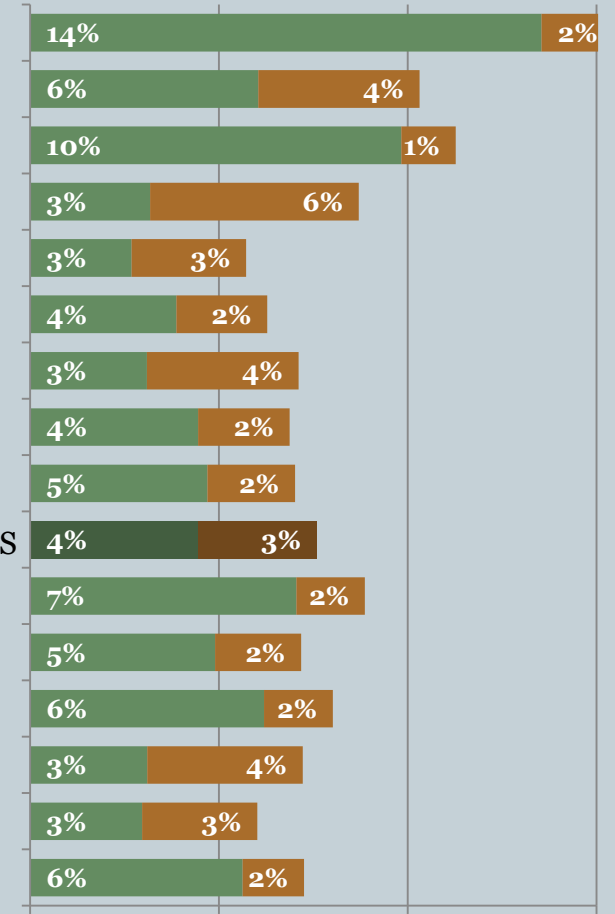
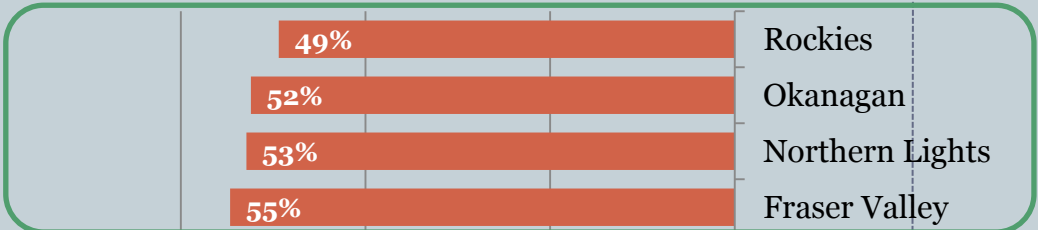


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BC PUBLIC

NON-BC

BC PRIVATE



80% 60% 40% 20% 0% 0% 5% 10% 15%

Transition rates (by 2007/08) for high school graduation cohorts, 2001/02 to 2006/07.

College Regions and Geographic Areas

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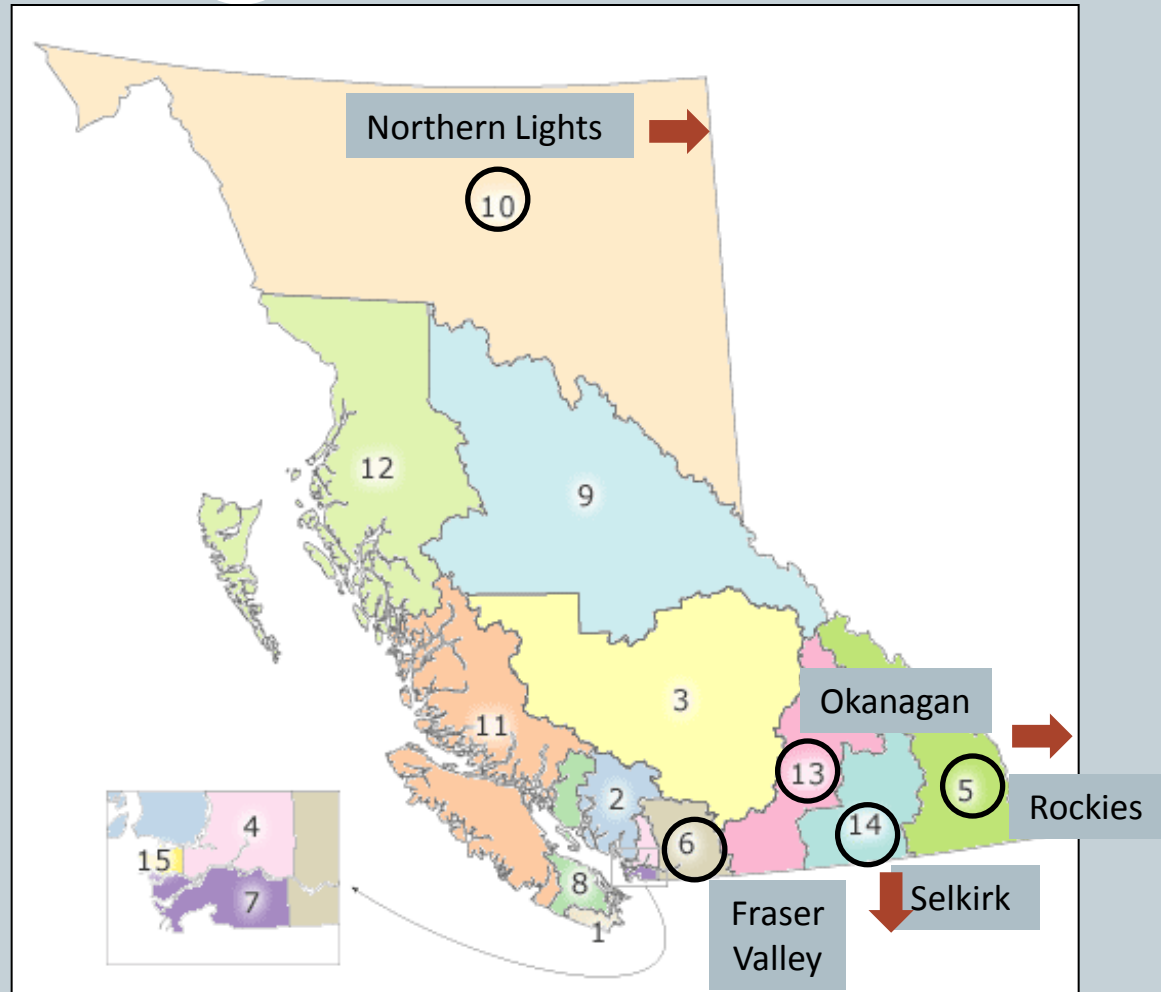
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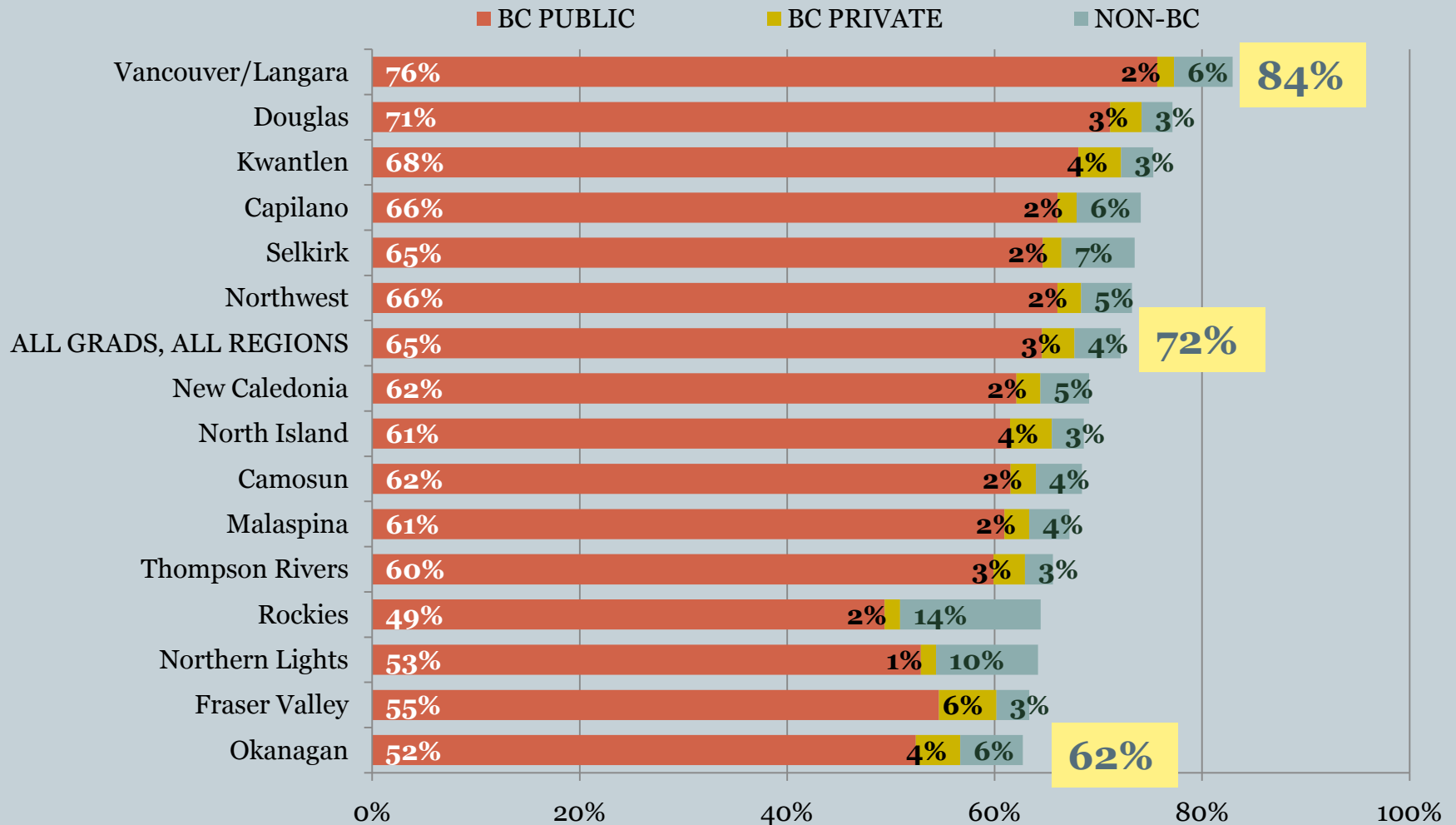
Northern B.C.:

- 9 - New Caledonia
- 10 - Northern Lights
- 12 - Northwest



Regional Variations in Student Transition Rates (Across All Sectors)

30



Transition rates (by 2007/08) for high school graduation cohorts, 2001/02 to 2006/07.

Research Question #7

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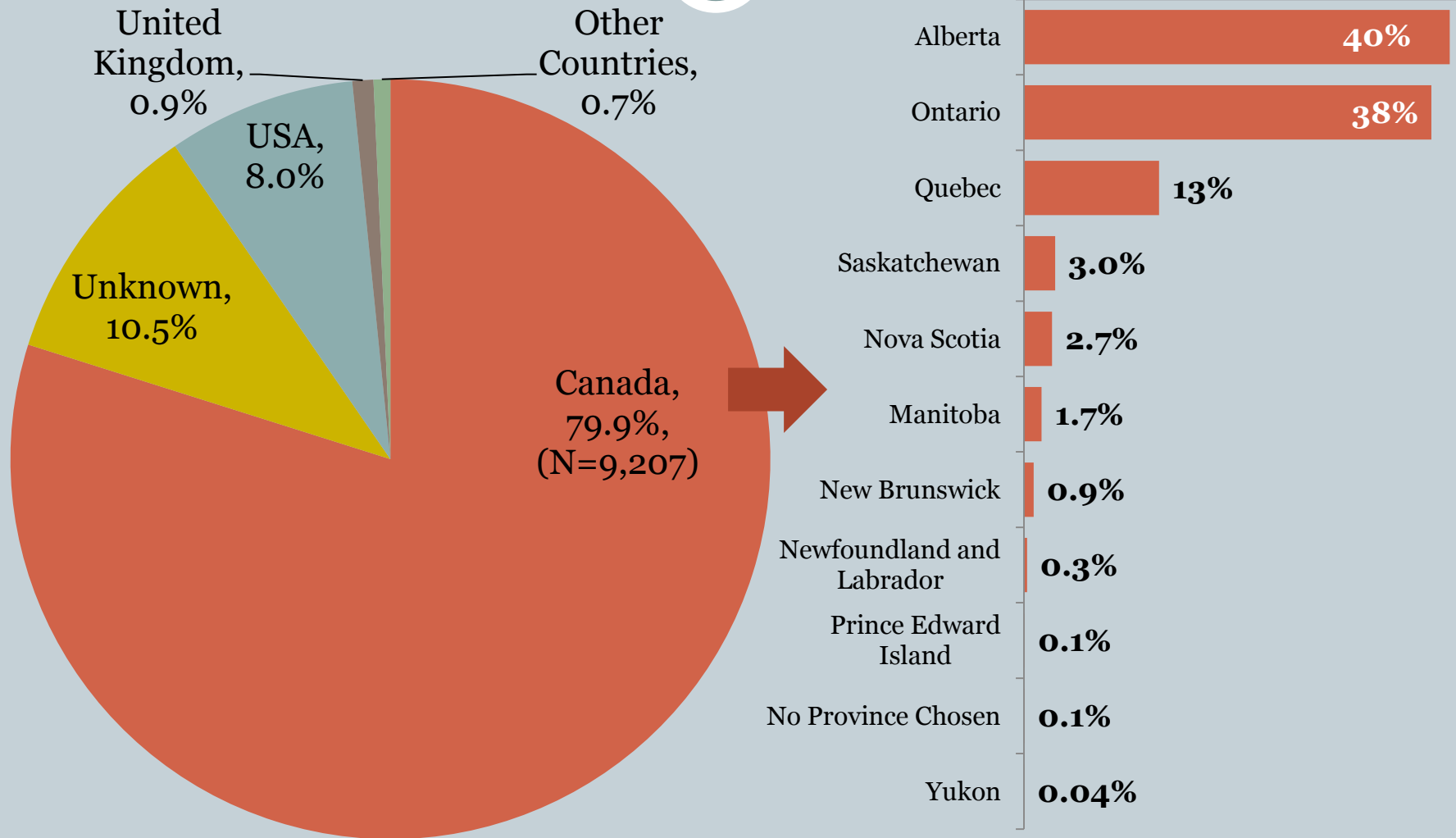
**Among those Grade 12 Graduates
(5%) who enrolled outside of the
B.C. Public Post-Secondary System,
where did they enrol?**

- **Which Countries?**
- **Which Provinces?**

Country Destinations of Gr12 Grads Who Enrolled Outside of the B.C. Public Post-Secondary System



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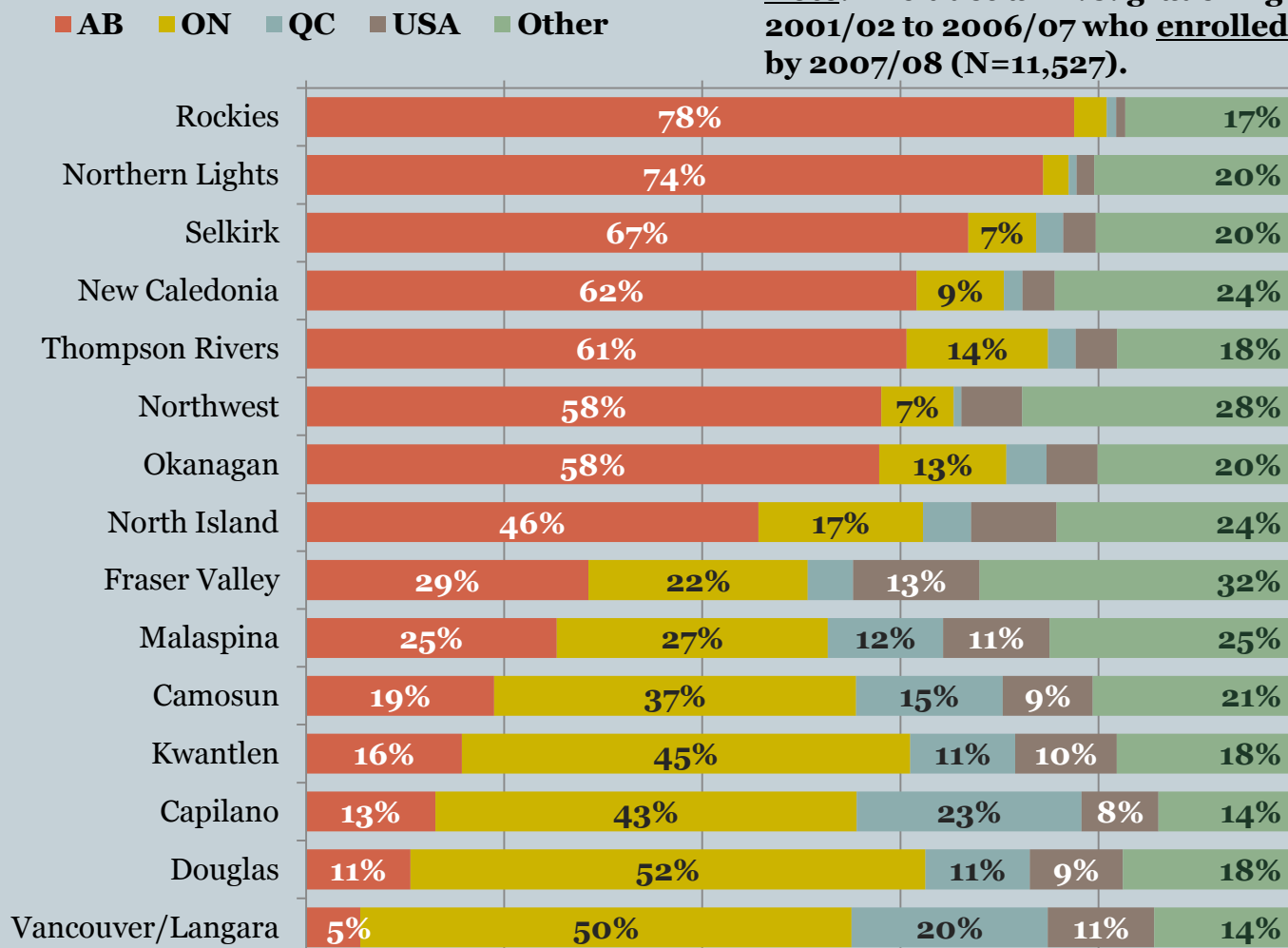


Country destinations of high school graduates of 2001/02 to 2006/07 (by 2007/08) who enrolled outside of the B.C. Public Post-Secondary System (11,500 of 258,000 grads left B.C.)

Non-B.C. Post-Secondary Destinations, by Region of High School Graduation

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Note: Includes all B.C. grade 12 graduates of 2001/02 to 2006/07 who enrolled outside of B.C. by 2007/08 (N=11,527).



Research Question #8

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**What are the most popular
B.C. Private
post-secondary institution
destinations?**

**What about non-B.C.
institutions?**

Top 20 B.C. Private PSI Destinations of Grade 12 Graduates of 2001/02 to 2006/07, by 2007/08



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Rank	B.C. Private Institution	Count	% of Total
1)	Art Institute of Vancouver	932	12%
2)	Trinity Western University	859	11%
3)	Sprott-Shaw Community College	843	10%
4)	Blanche Macdonald Centre	446	6%
5)	Vancouver Career College	346	4%
6)	Columbia Bible College	299	4%
7)	CDI Coll Of Bus,Tech &Healthcare	276	3%
8)	Vancouver Film School	240	3%
9)	Centre For Arts And Technology	202	2%
10)	John Casablancas Inst Of Applied Arts	179	2%
11)	Stenberg College	163	2%
12)	Marvel College	152	2%
13)	Summit Pacific College	143	2%
14)	Academy Of Learning	142	2%
15)	Discovery Comm Coll	138	2%
16)	Tourism Training Institute	131	2%
17)	Canadian Tourism College	118	1%
18)	MTI Community College	113	1%
19)	West Coast College/Massage Therapy	104	1%
20)	The International Culinary School AIV	87	1%
	<i>Other B.C. Private Institutions</i>	2,178	27%
	Grand Total	8,091	100%

Top 20 Non-B.C. Post-Secondary Destinations of Grade 12 Graduates of 2001/02 to 2006/07, by 2007/08



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Rank	Non-B.C. Post-Secondary Institution	City	Prov	Count	% of Total
1)	University of Toronto	Toronto	ON	1,050	9.1%
2)	McGill University - Montreal	Montreal	PQ	997	8.6%
3)	University of Calgary	Calgary	AB	789	6.8%
4)	University of Alberta	Edmonton	AB	774	6.7%
5)	Queen's University	Kingston	ON	674	5.8%
6)	University of Waterloo	Waterloo	ON	483	4.2%
7)	Southern Alberta Institute of Technology	Calgary	AB	294	2.6%
8)	University of Western Ontario	London	ON	252	2.2%
9)	Mount Royal University	Calgary	AB	244	2.1%
10)	University of Lethbridge	Lethbridge	AB	196	1.7%
11)	Carleton University	Ottawa	ON	193	1.7%
12)	Lethbridge Community College	Lethbridge	AB	182	1.6%
13)	University of Ottawa	Ottawa	ON	143	1.2%
14)	York University	Toronto	ON	137	1.2%
15)	Northern Alberta Institute of Technology	Edmonton	AB	136	1.2%
16)	Grant MacEwan University	Edmonton	AB	130	1.1%
17)	Briercrest College and Seminary	Caronport	SK	129	1.1%
18)	Grande Prairie Regional College	Grande Prairie	AB	107	0.9%
19)	Ryerson University	Toronto	ON	100	0.9%
20)	Dalhousie University	Halifax	NS	98	0.9%
	Unknown	----	----	1,212	10.5%
	Other Non-B.C. Post-Secondary Institutions	----	----	3,207	27.8%
	Grand Total			11,527	100.0%

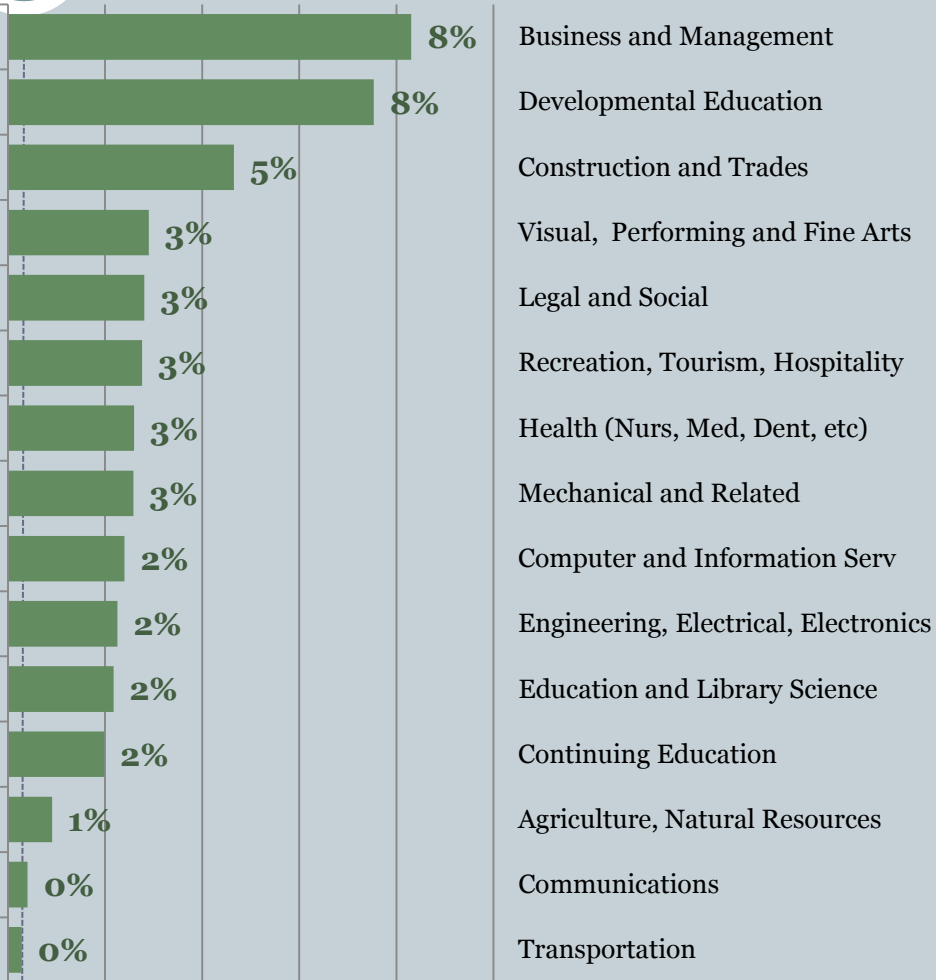
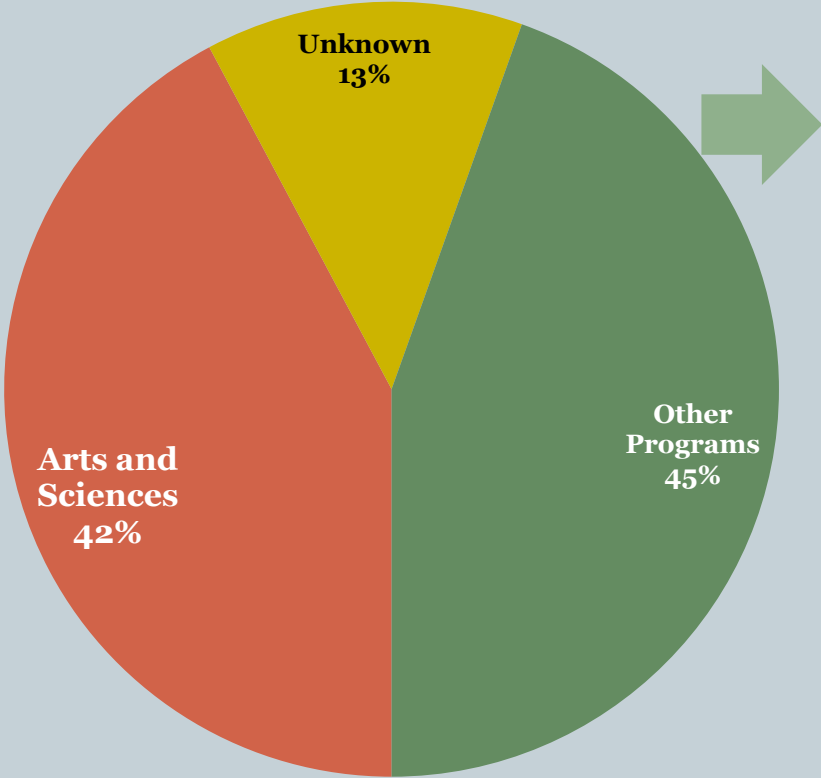
Research Question #9

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**What are the program destinations
of students who enrol in
B.C. public, B.C. private and non-B.C.
institutions?**

Program Destinations – All Sectors

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Program Destinations

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- Program information is incomplete across all sectors.
- Some program patterns are evident, despite missing data.

	Program Unknown	
Sector	(%)	(N)

Program Destinations & Caveats

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- Program information is incomplete across all sectors.
- Some program patterns are evident, despite missing data.

	Program Unknown		Popular Program Destinations	
Sector	(%)	(N)	Program Area	Examples
B.C. Public	7%	12,374	Academic	Arts, Sciences
B.C. Private	39%	3,125	Applied, Vocational	Hairdressing, Esthetics, Make-up Artistry
Non-B.C.	80%	9,214	Academic	Arts, Sciences, Engineering
All Sectors	13%	24,713		



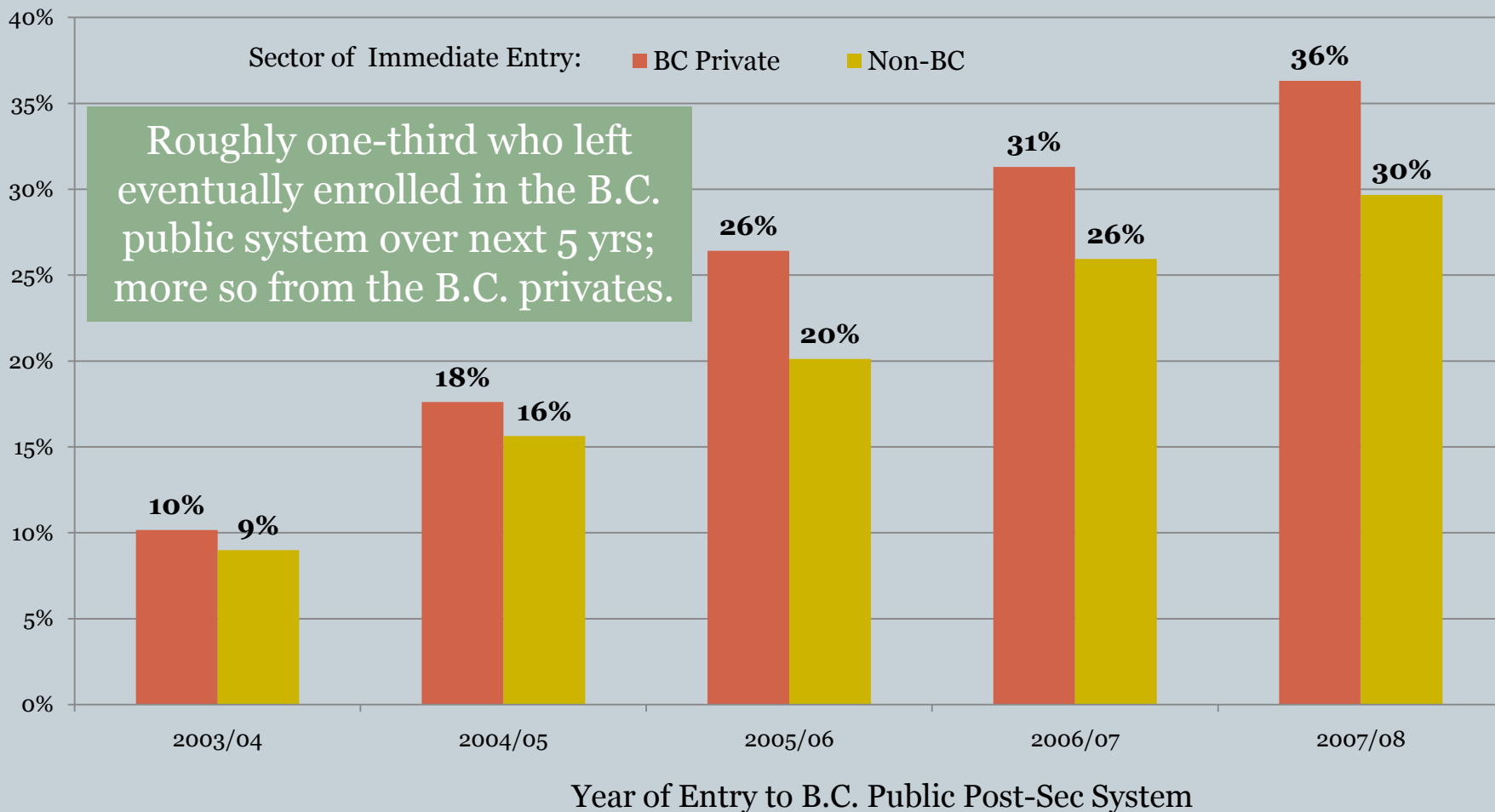
Research Question #10

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**Among high school graduates
who first enrolled in
B.C. Private or Non-B.C. institutions,
what proportion eventually enrolled in the
B.C. public system over the next five
years?**

Cumulative % of 2001/02 Immediate-Entry Students who Attended Institutions Outside of the B.C. Public Post-Secondary System and Later Enrolled in the B.C. Public Post-secondary System Over the Next Five Years

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Conclusion

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Summary of Key Findings



Key Findings – Student Transitions



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- More than half (**51% to 52%**) of B.C.'s grade 12 graduates enrol directly in B.C. public post-secondary education.
- When transitions into **all sectors** are accounted for (B.C. public, private and non-B.C.), the student transition rate increases to **81%** within **six years** of graduation.
- Patterns by **sector and program** are evident:
 - B.C. Privates – more non-academic programs.
 - B.C. Public and Non-B.C. – more academic programs.



Key Findings – Most Stay in B.C.



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- The B.C. public post-secondary system **serves the vast majority** of B.C.'s educational needs.
- On average, only **10%** of grade 12 graduates who pursued post-secondary education within five years of graduation, enrolled in **B.C. private or non-B.C. institutions**.
- Among those who attended **non-B.C. institutions**, the majority (80%) stayed in Canada.
- **Do they come back?** Roughly one-third of those who enrolled in B.C. private or non-B.C. institutions eventually enrolled in the B.C. public system over the next 5 years.



Key Findings – Collaboration is Key



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- B.C.'s **Personal Education Number** enables data linkages across education systems.
- Extensive **co-operation** and **collaboration** across education ministries and post-secondary institutions makes this STP research possible.

Secrets of Our Success

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- **Start small**
 - Small steering committee
 - Achievable research agenda
 - Collect minimum dataset to answer research questions
- **Expand incrementally**
 - Add 1 year of data at a time
 - Minimize new data elements
 - Evolving research questions
- **Manage the Data and Information**
 - Collect data annually
 - Data sharing agreement
 - Data use policy
 - Data linkage policy
- **Stability and continuity**
 - Steering committee membership remains stable
 - Consultants replaced by permanent STP Manager
 - Sufficient/ongoing resources are allocated to the project.

Future Directions

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Future Directions for Mobility Research

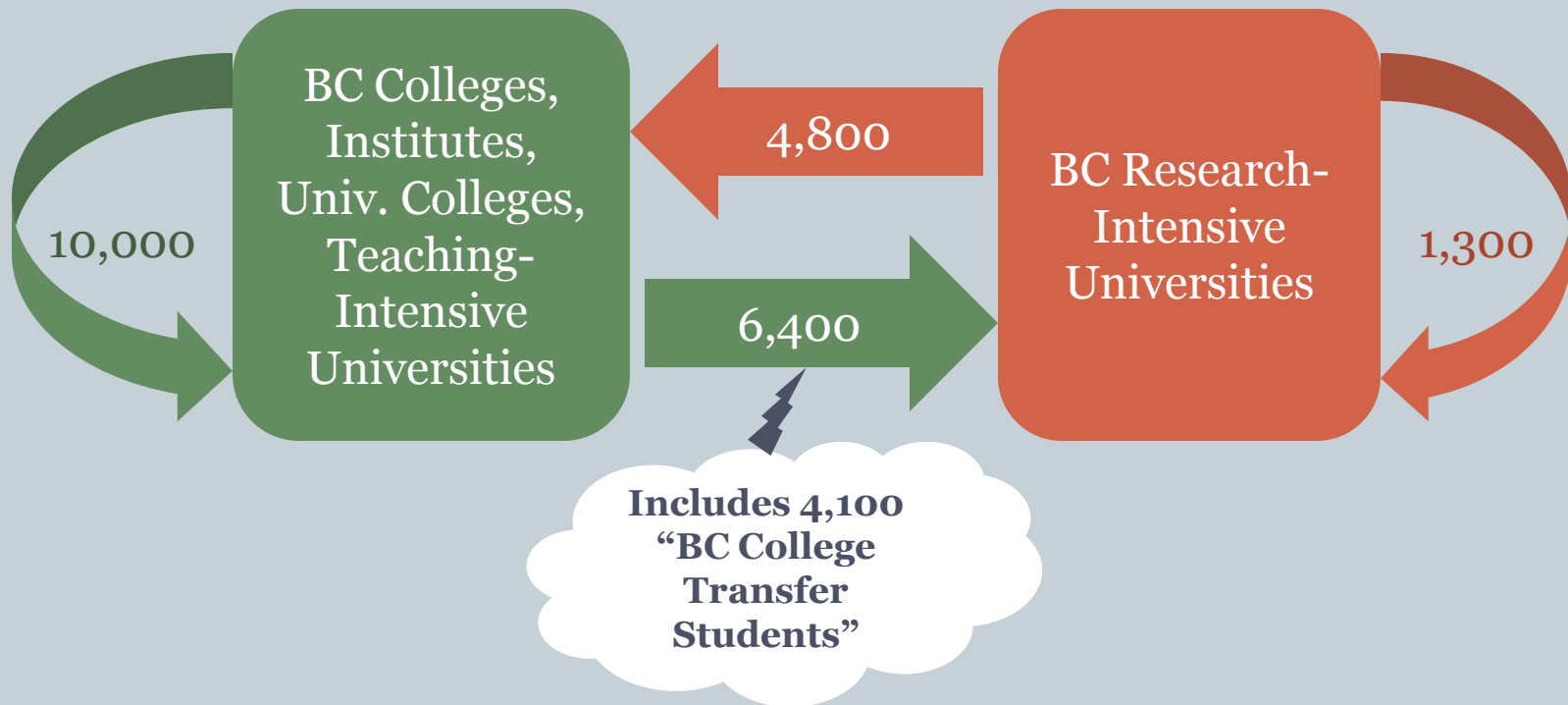
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- PENs for students in private institutions
- Private institution data in STP
- Refinement of “movement of all students” model
 - Meld with research on traditional transfer students
 - Focus on movement in all directions
 - Focus on movement from research universities

A New Look at Student Mobility in the BC Public Post-Secondary Education System

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- **22,500** active credit course registrants (ACCR's) moved between BC public post-secondary institutions, from 2007/08 to 2008/09.



*Institutional designations are those that were in place in Fall 2008.

Future Directions for Mobility Research, cont.

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- **Addressing missing data; filling the gaps**
 - Transfer info for students in Central Data Warehouse institutions
 - Credits awarded and GPA for students in research universities
- **Survey of all movers**
 - Why students attend more than one institution
 - Experiences of those students

Questions & Comments

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Looking for More Information?

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- **STP Web Site:**
 - http://www.aved.gov.bc.ca/student_transitions/
 - STP Fast Facts
 - Regional Transition Matrices
 - STP Highlights Newsletters
 - STP Research Reports