

# The Student Transitions Project (STP):

Collaborating Across Education Ministries and Institutions  
to Track Grade 12 Graduates Enrolling in  
B.C. Public, B.C. Private and Non-B.C.  
Post-Secondary Institutions

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Presentation for the  
**CIRPA 2010 CONFERENCE**

By  
Joanne Heslop, Manager  
Student Transitions Project (STP)

October 26, 2010  
Ottawa, ON

# AGENDA

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**STP BACKGROUND**

**STUDENT TRANSITIONS**

**STUDENT MOBILITY**

**STUDENT SUCCESS**

# STP BACKGROUND

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**HISTORY**

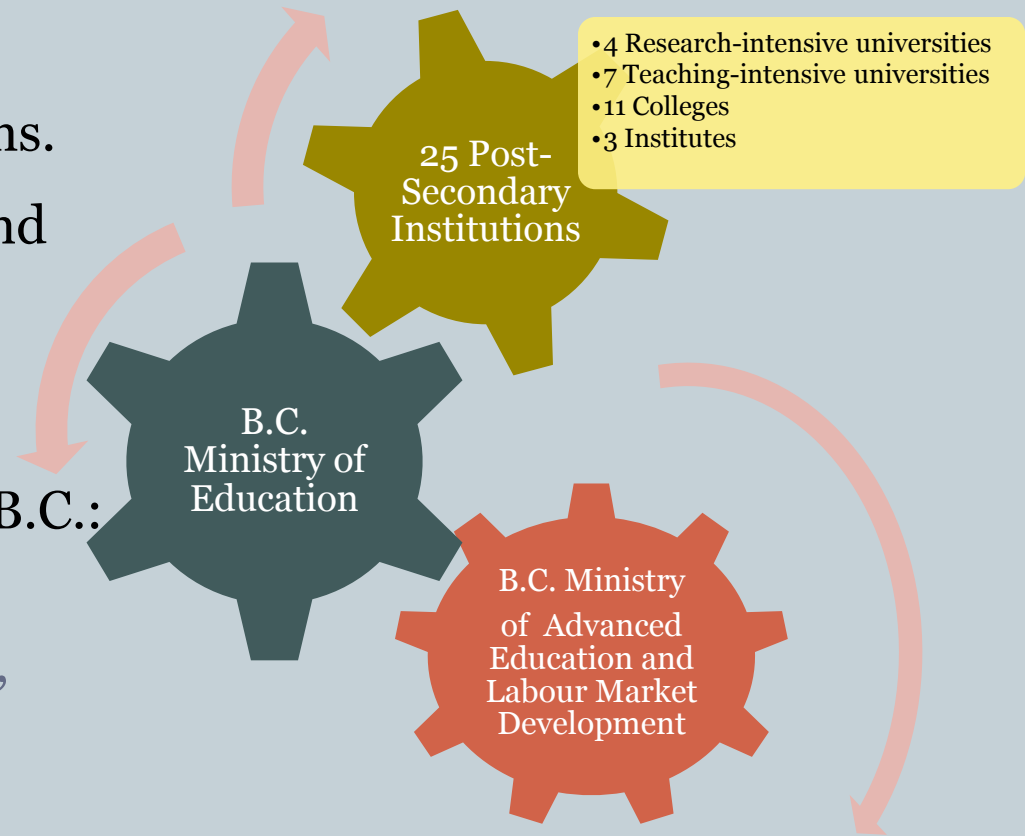
**PURPOSE**

**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

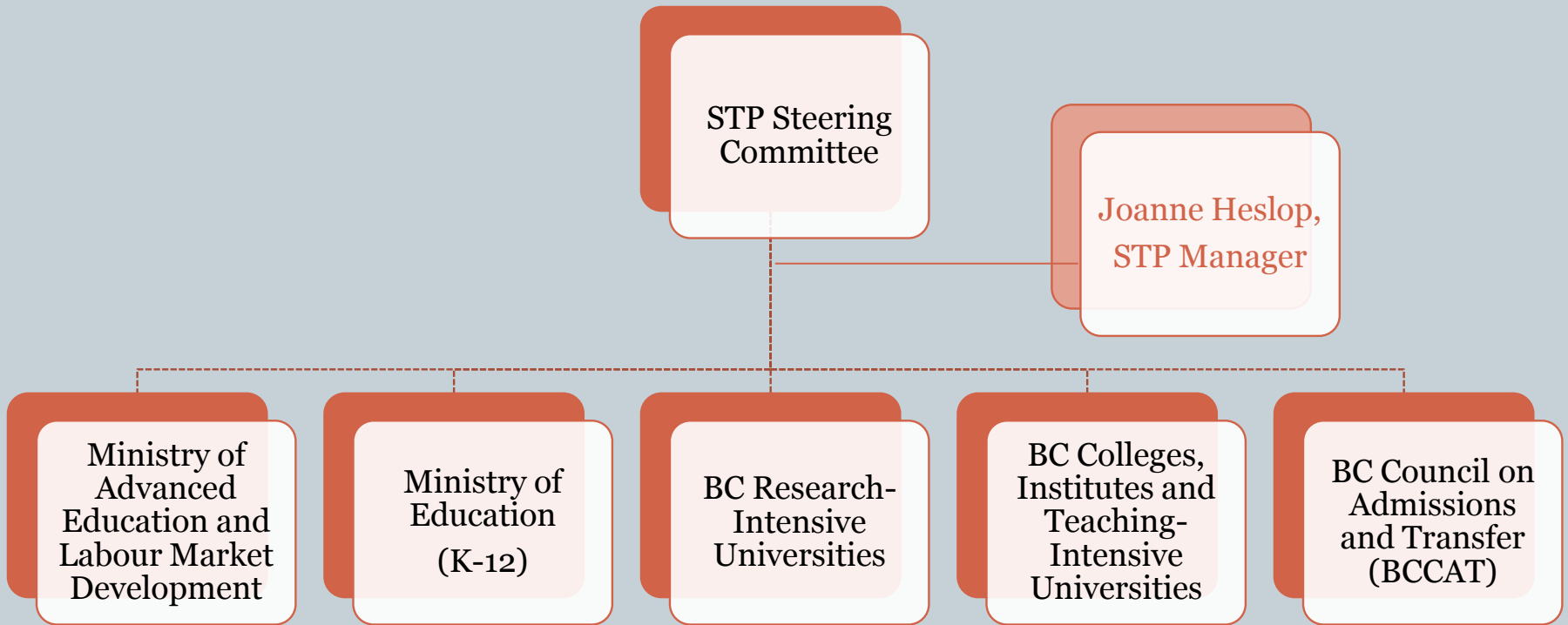
Reports, newsletters, Excel PivotTables and interactive tools on a variety of topics.

## Goal

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

# STP Governance

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# STP Sub-committees

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STP

Data  
Management  
Subcommittee

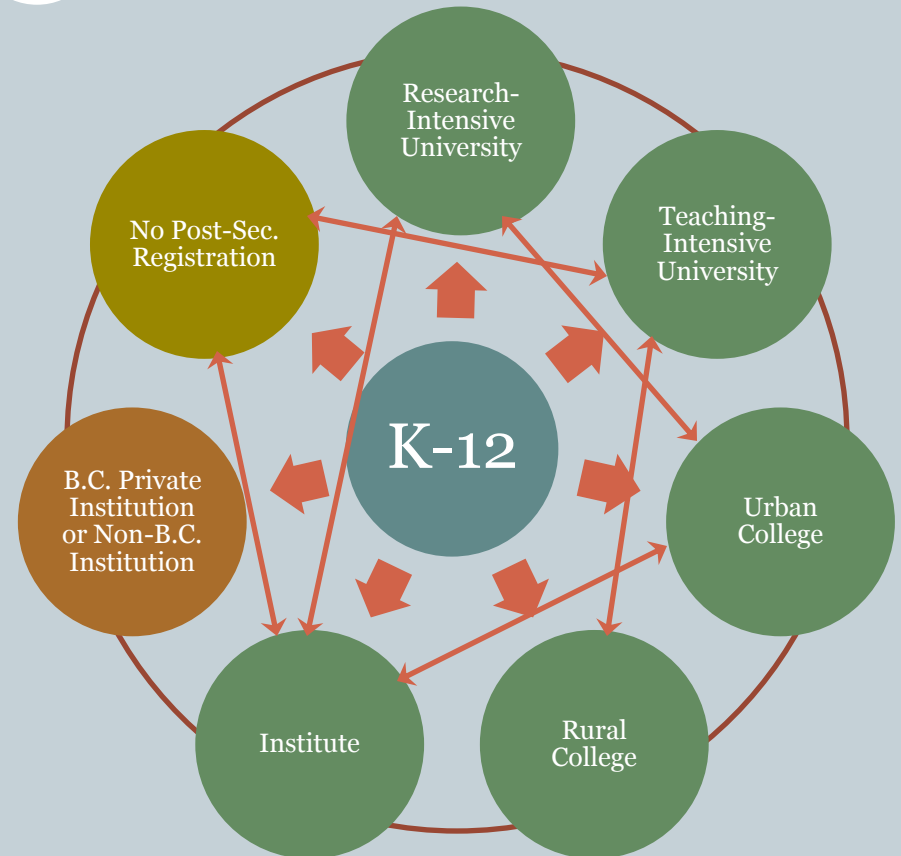
Applicant  
Research  
Subcommittee

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.

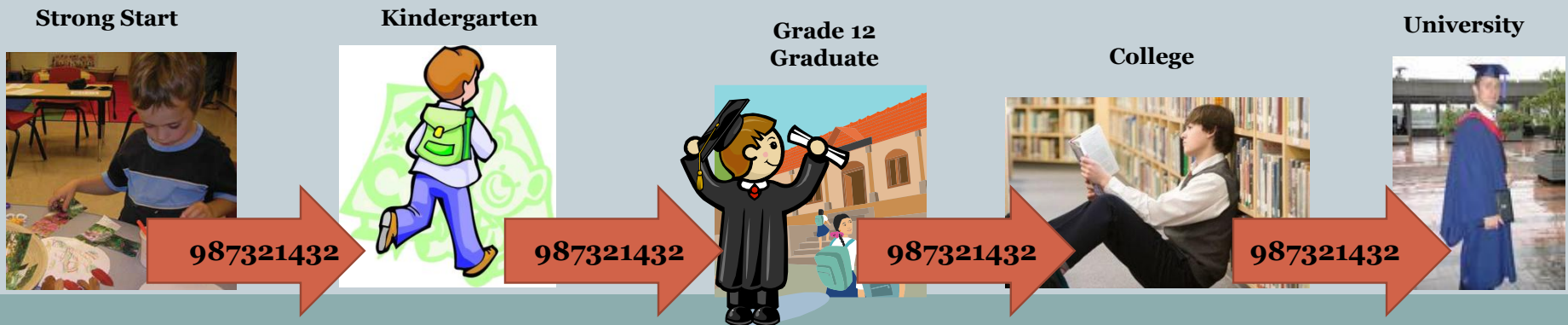


Using 2009-10 institution types

# 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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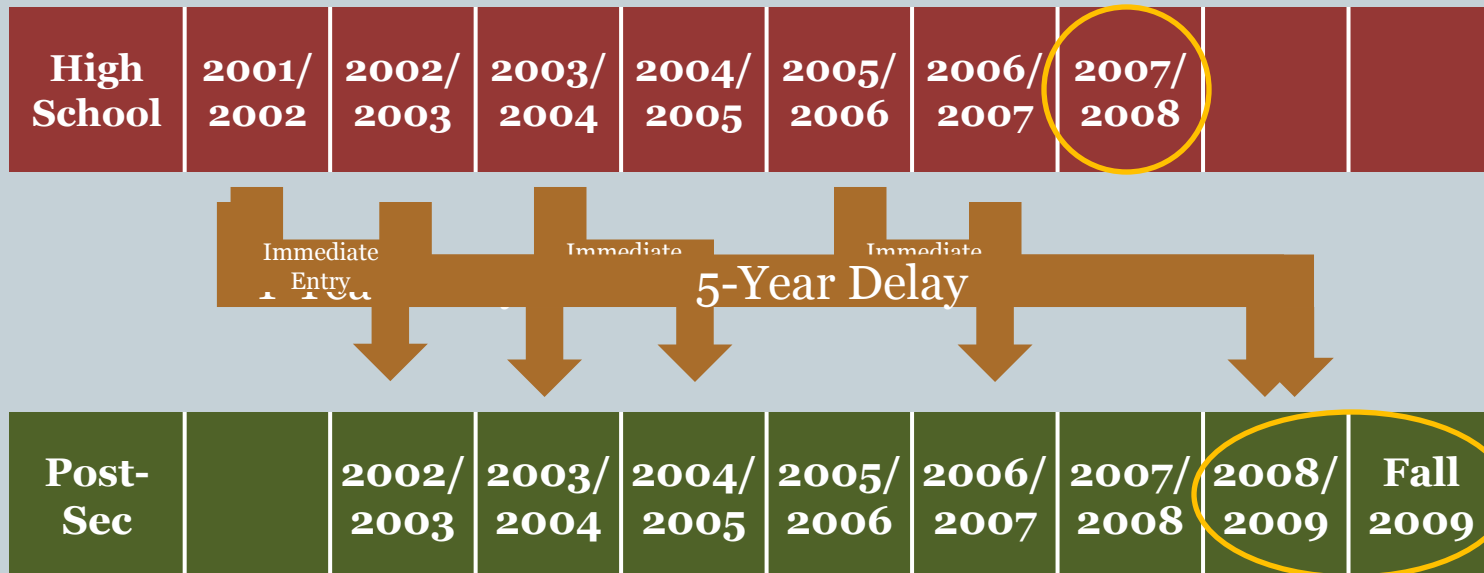
- Transitions of non-graduates
- Applicant Research
- PENning of Private Institutions
- Link STP to student outcomes - employment and education satisfaction
- Impact of high school courses and grades on student transition rates.
- International students – transition rates and mobility
- Longitudinal 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 (2%)**

**6-Year**

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



# Research Question #2

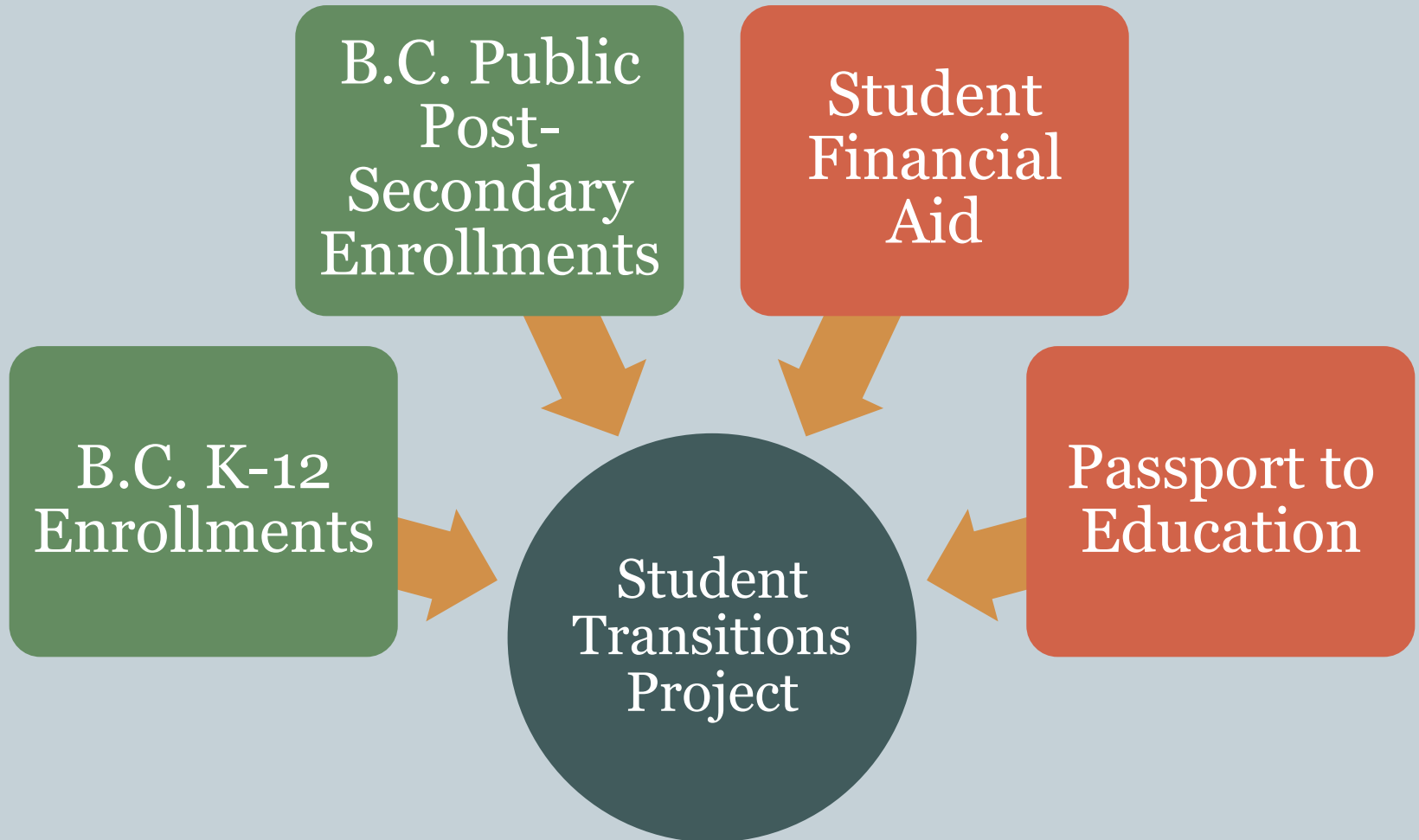
16

**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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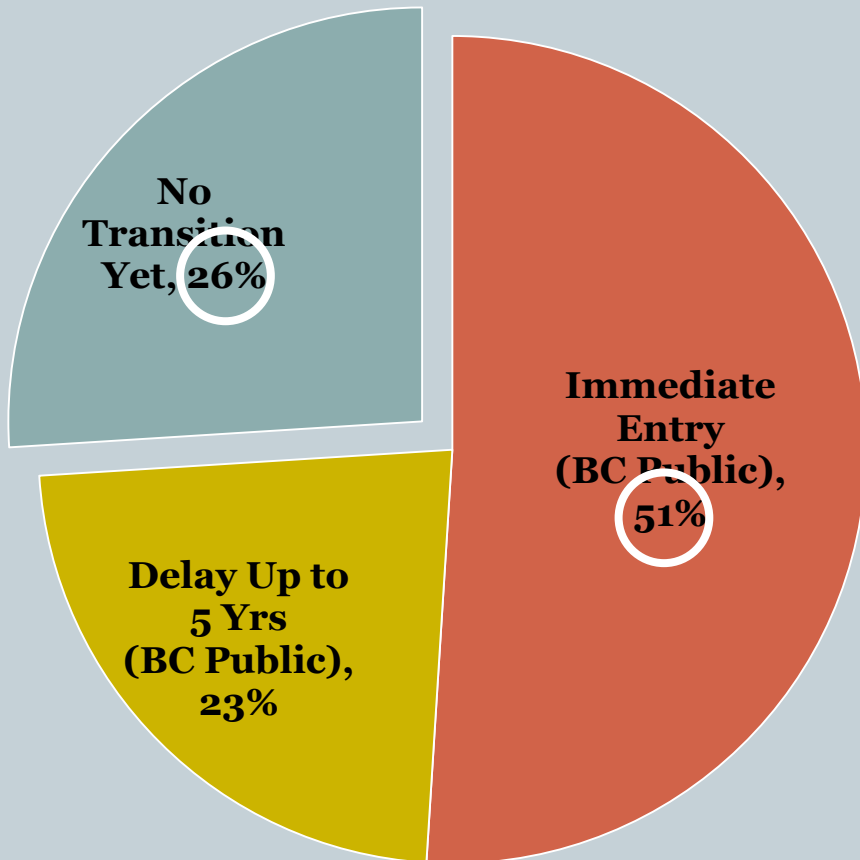
The PEN makes the data linkage possible.

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

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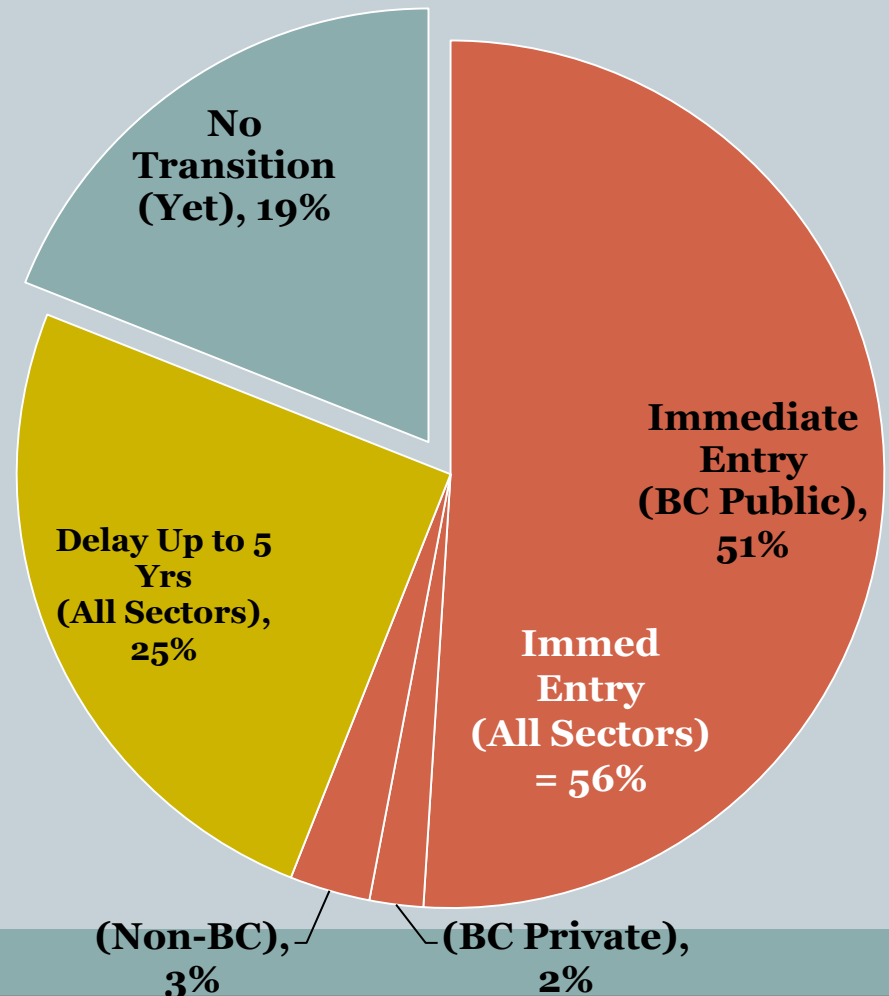
## (1) BC Public System Perspective:

**Cum. 6-Year Transition Rate = 74%**



## (2) All Sectors Perspective:

**Cum. 6-Year Transition Rate = 81%**



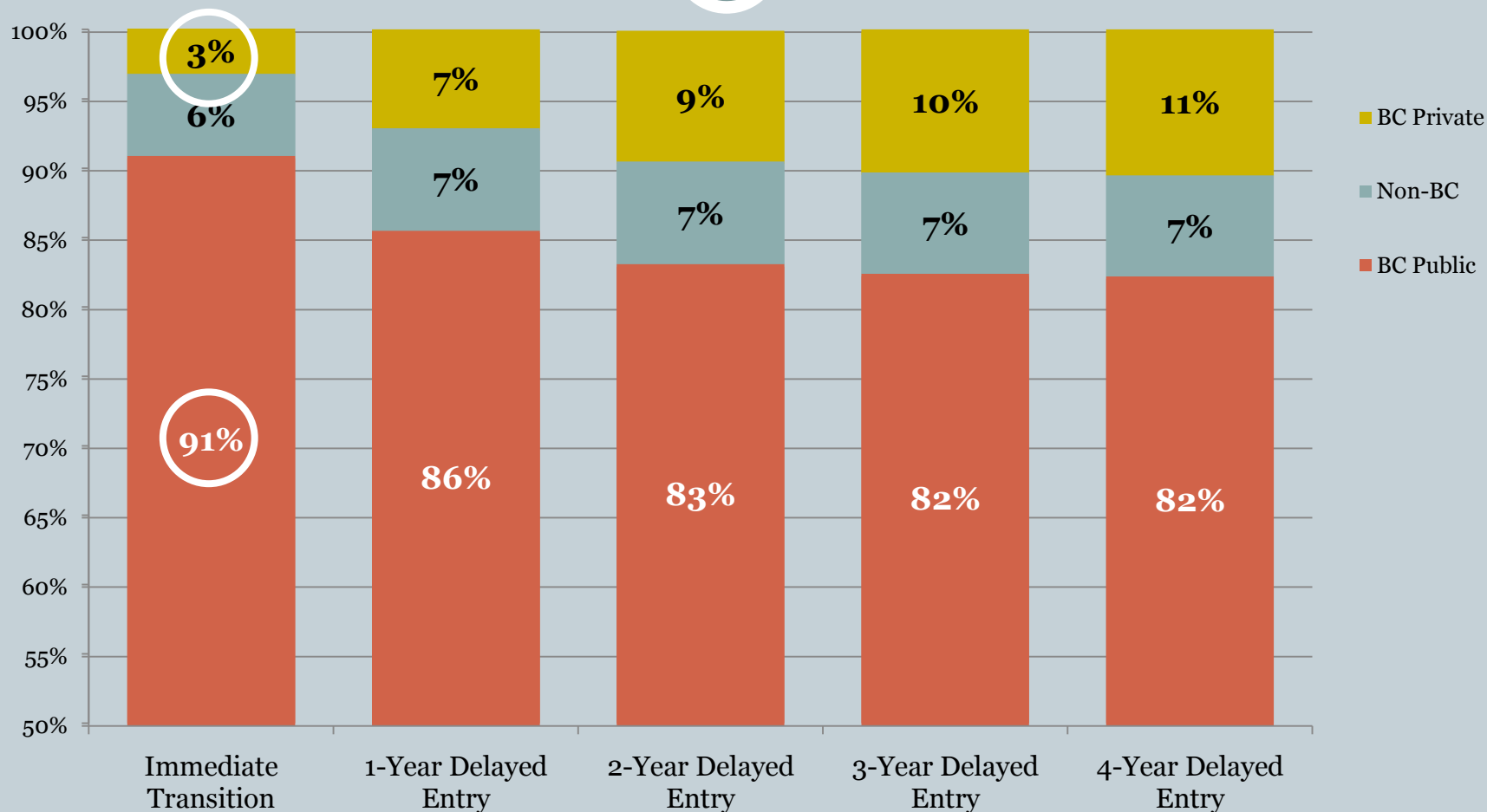
# Research Question #3

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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

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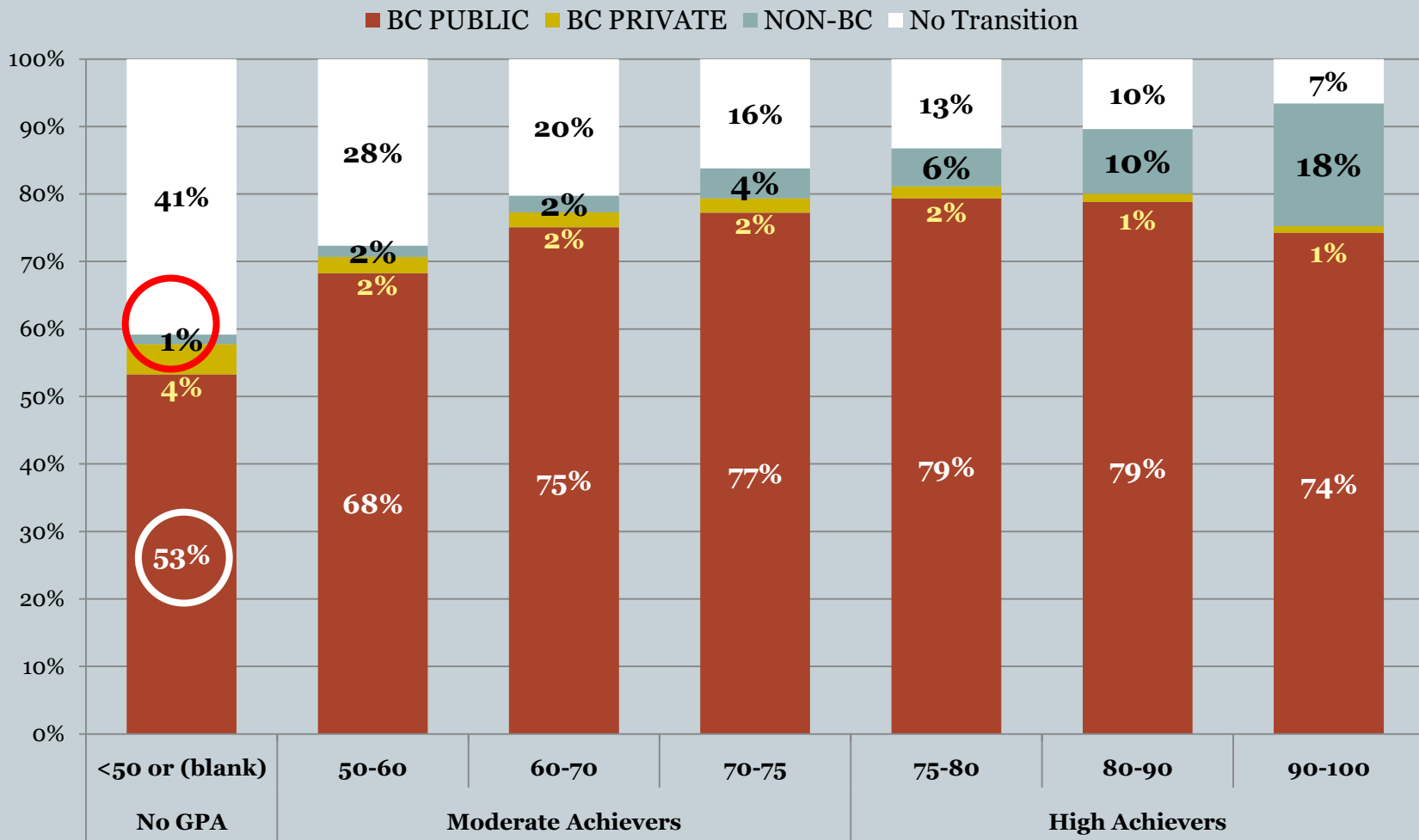
High School Graduation Cohorts of 2001/02 to 2006/07

# Research Question #4

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**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



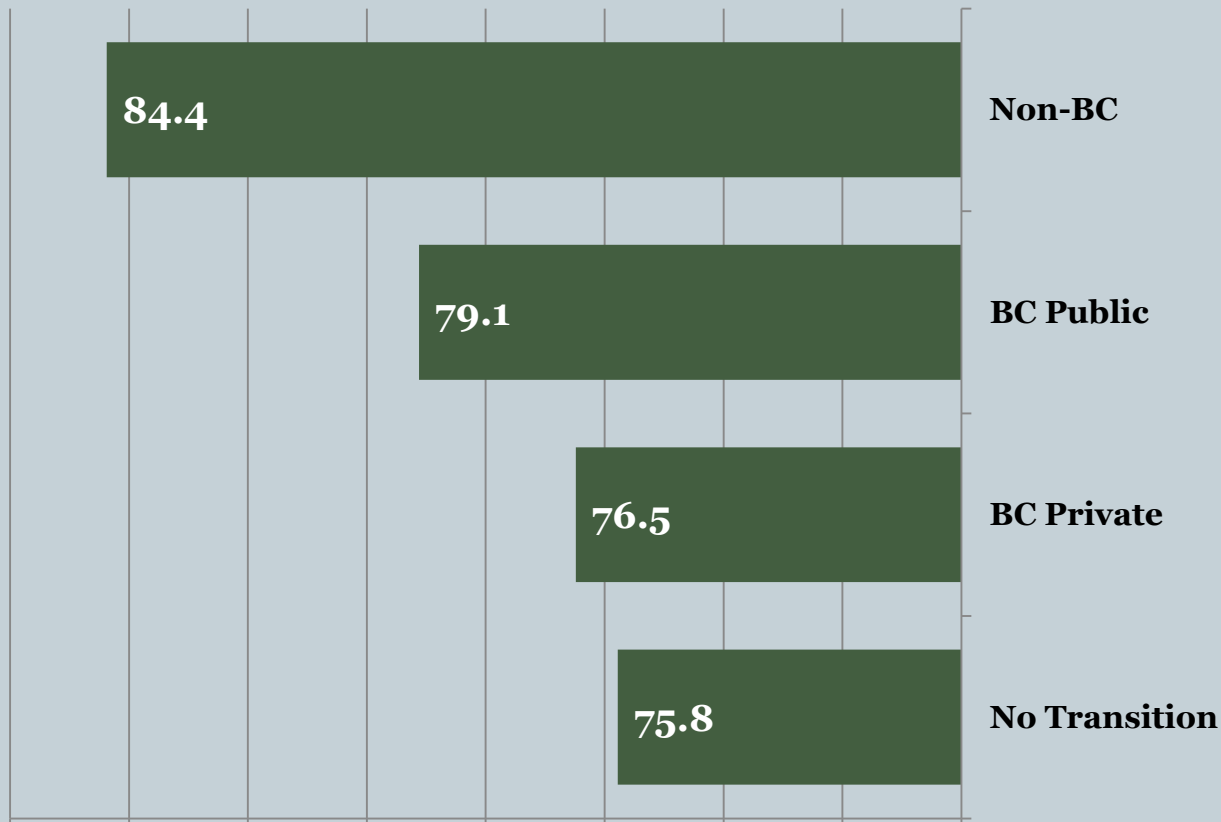
High School Graduation Cohorts of 2001/02 to 2006/07. On average, 5% enrol outside of BC.

# 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



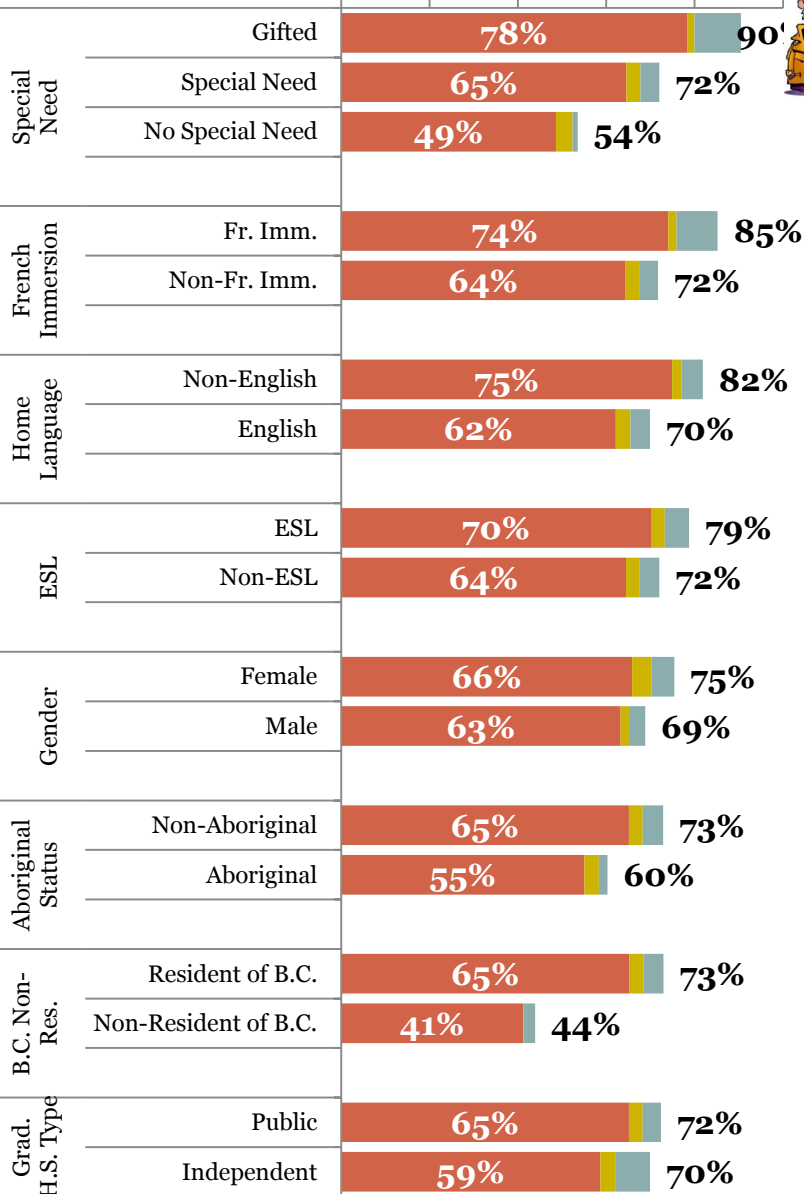
# Research Question #5

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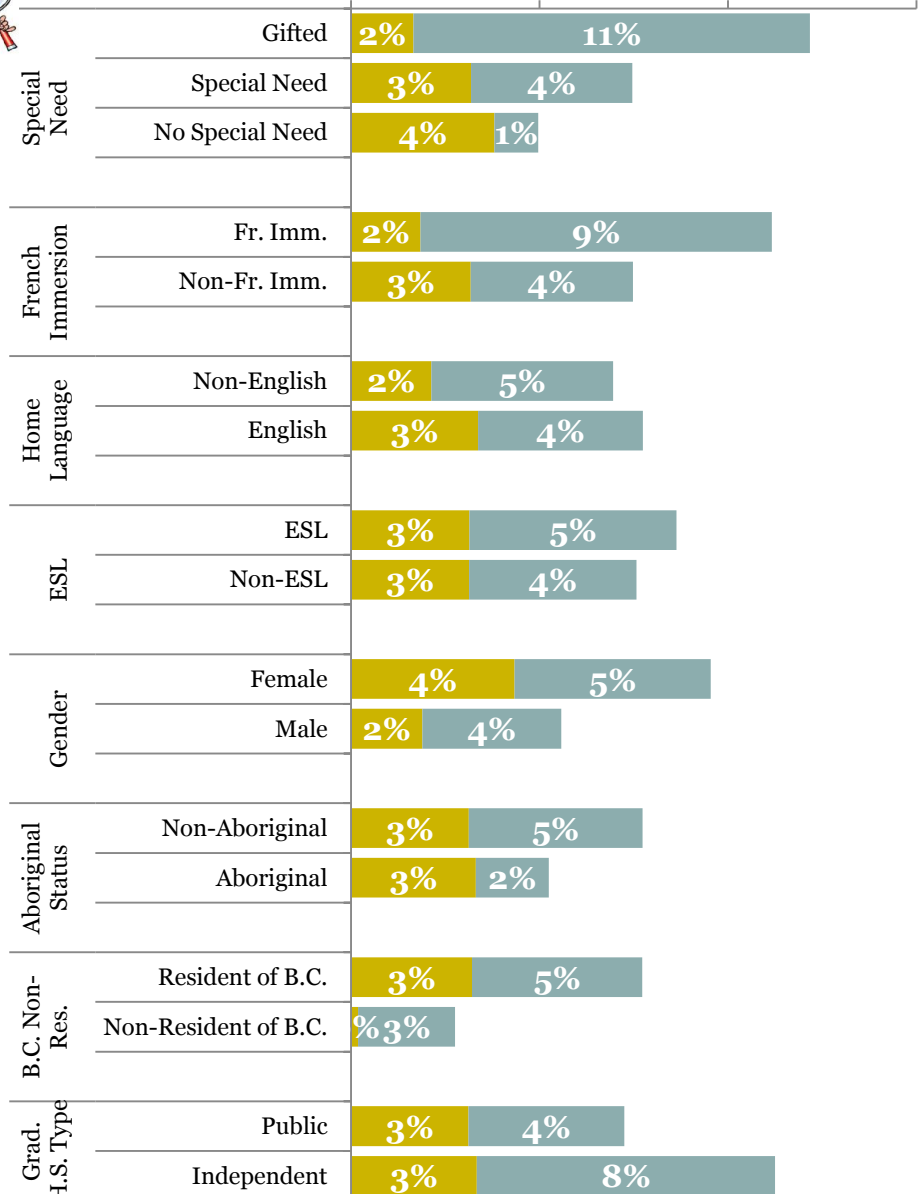
**Do student sector destinations  
vary by student demographic  
characteristics?**

# Student Transitions into Post-Secondary Sectors, by Demographic Characteristics

BC Public BC Private Non-BC All Sectors



BC Private Non-BC



# Research Question #6

26

**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:

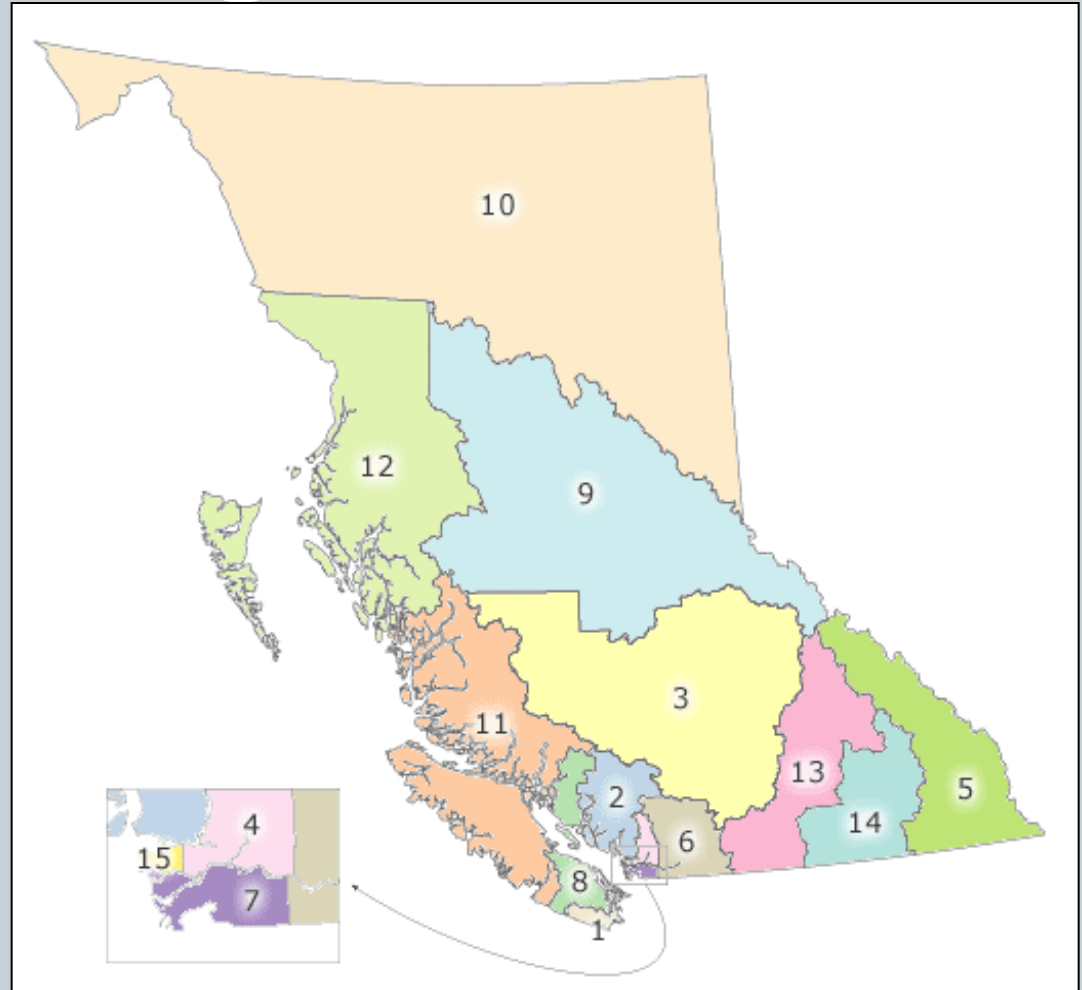
- 4 - Douglas
- 6 - Fraser Valley
- 7 - Kwantlen

## Interior:

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

## Northern B.C.:

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



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

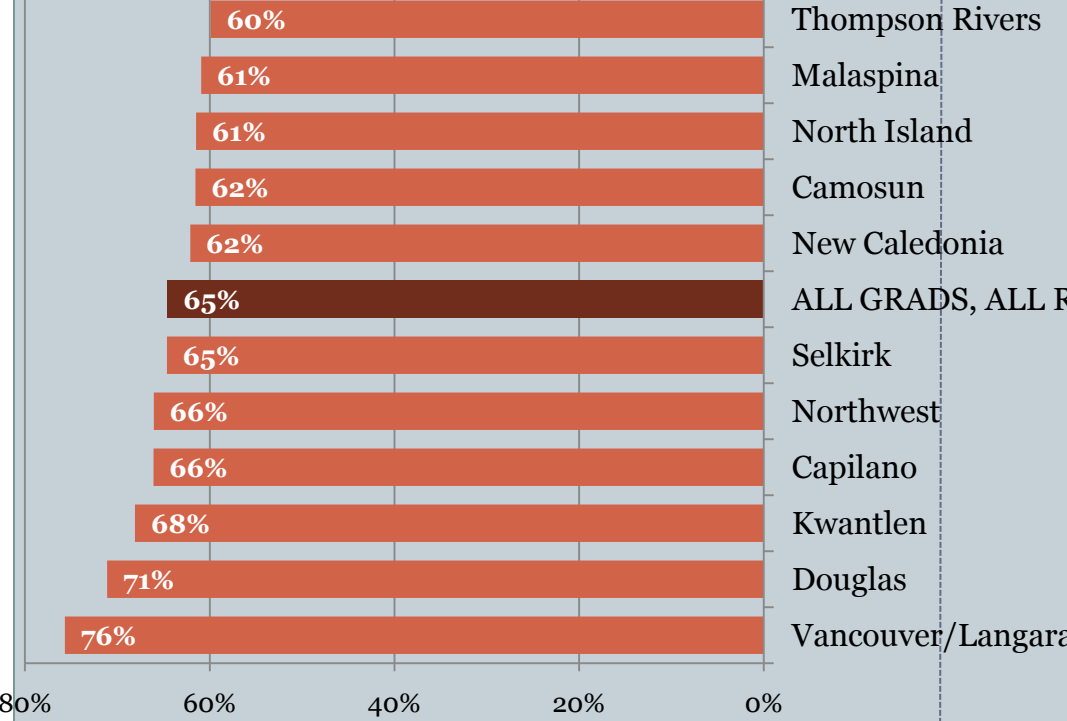
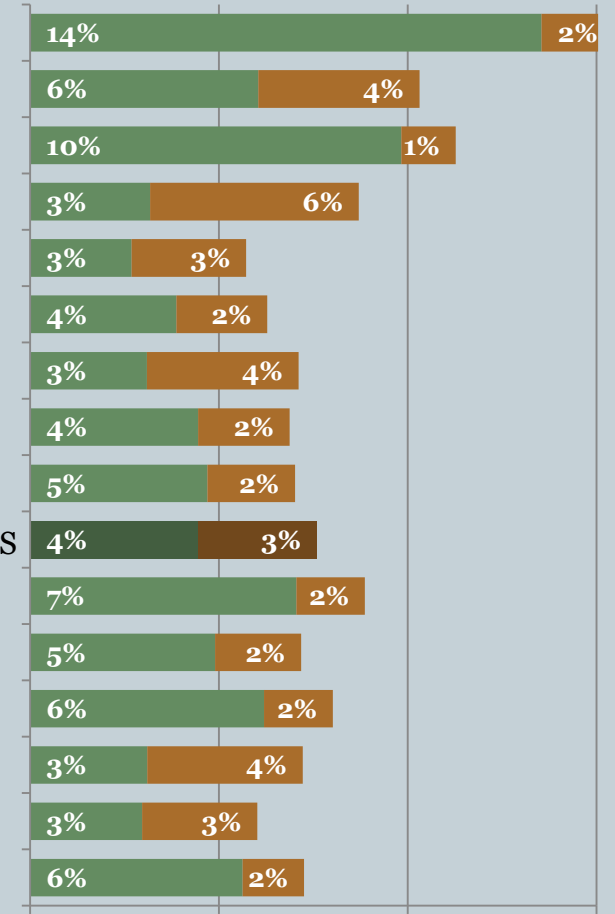
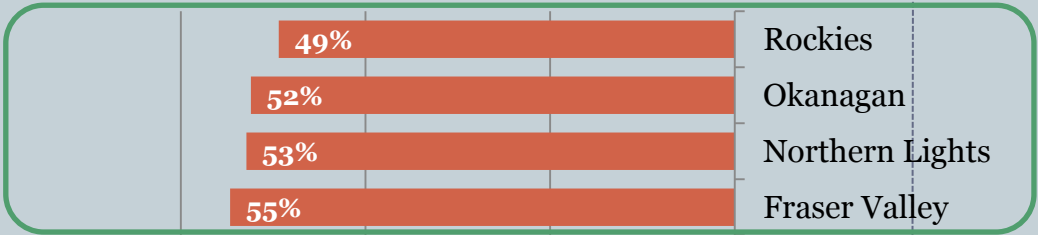


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BC PUBLIC

NON-BC

BC PRIVATE



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

# College Regions and Geographic Areas

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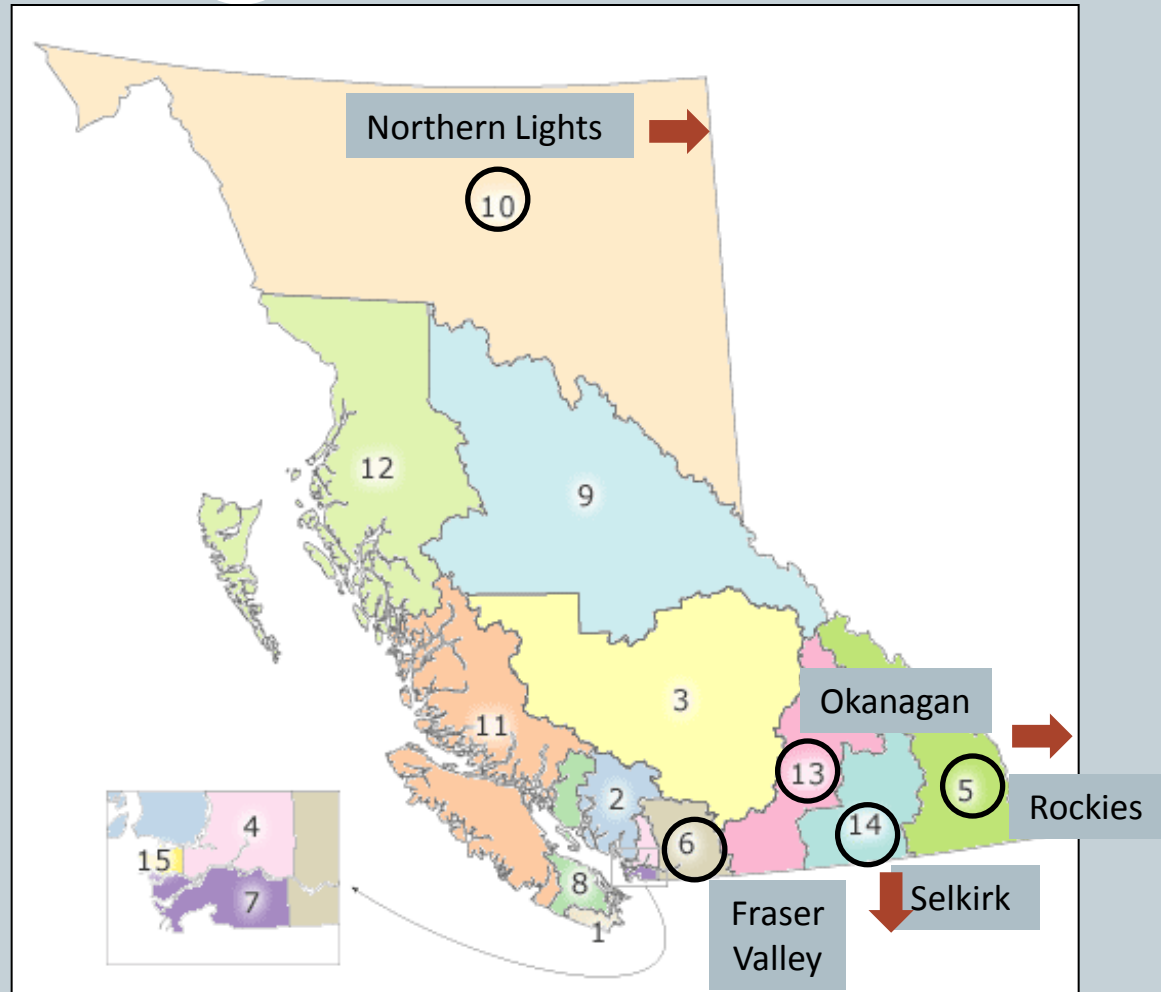
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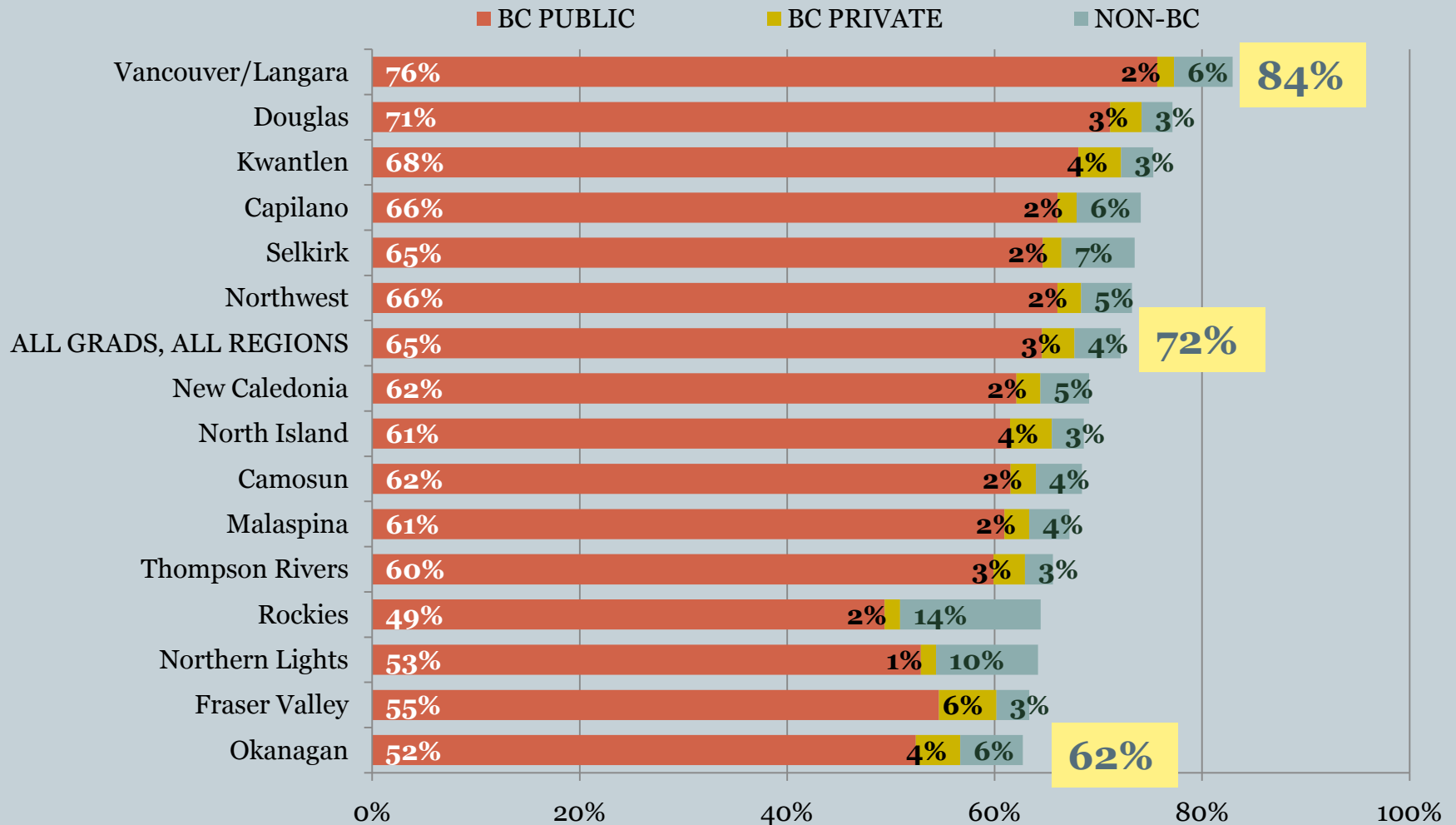
## Northern B.C.:

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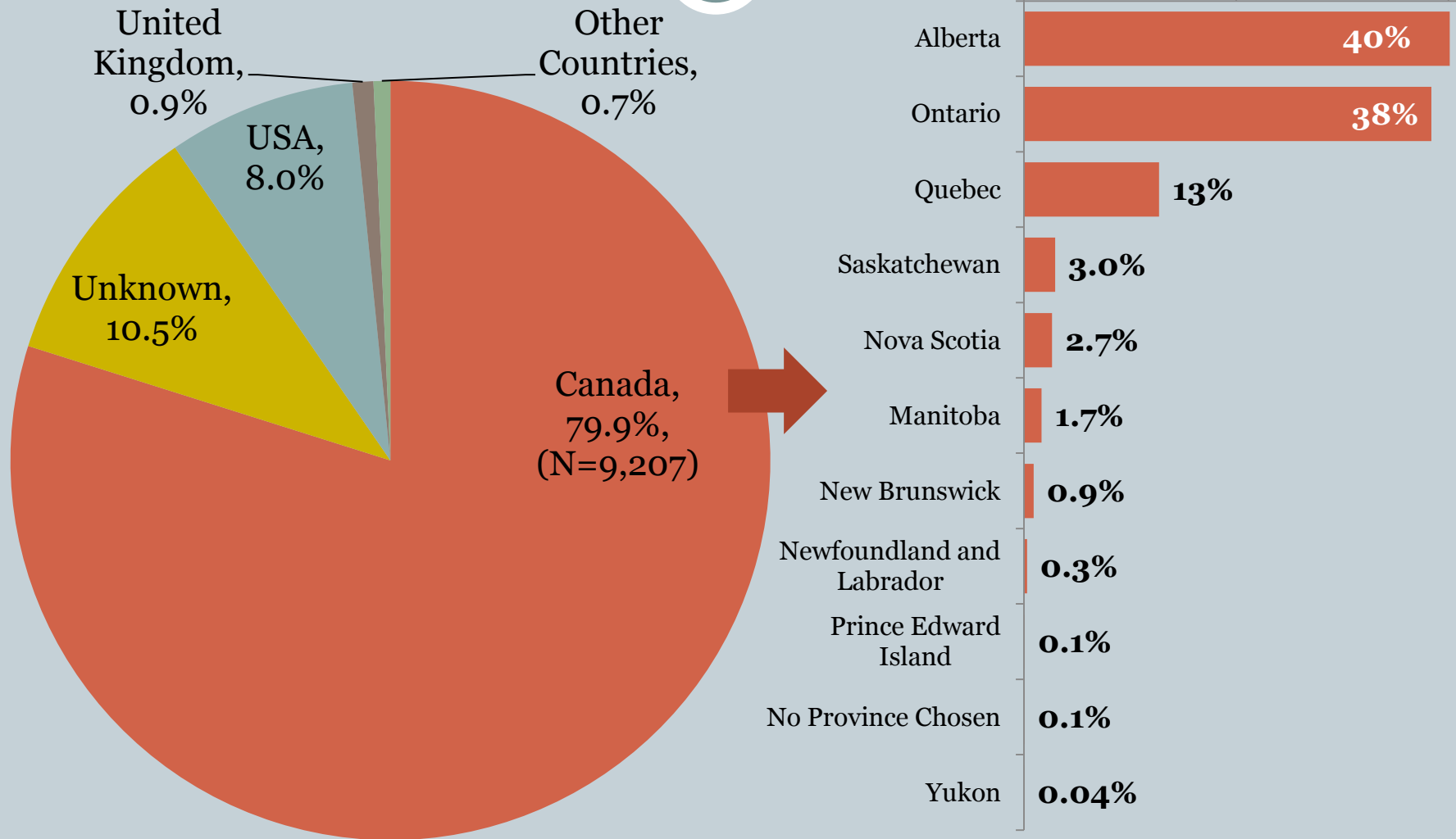
**Among those Grade 12 Graduates  
(5%) who enrolled outside of the  
B.C. Public Post-Secondary System,  
where did they enrol?**

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

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



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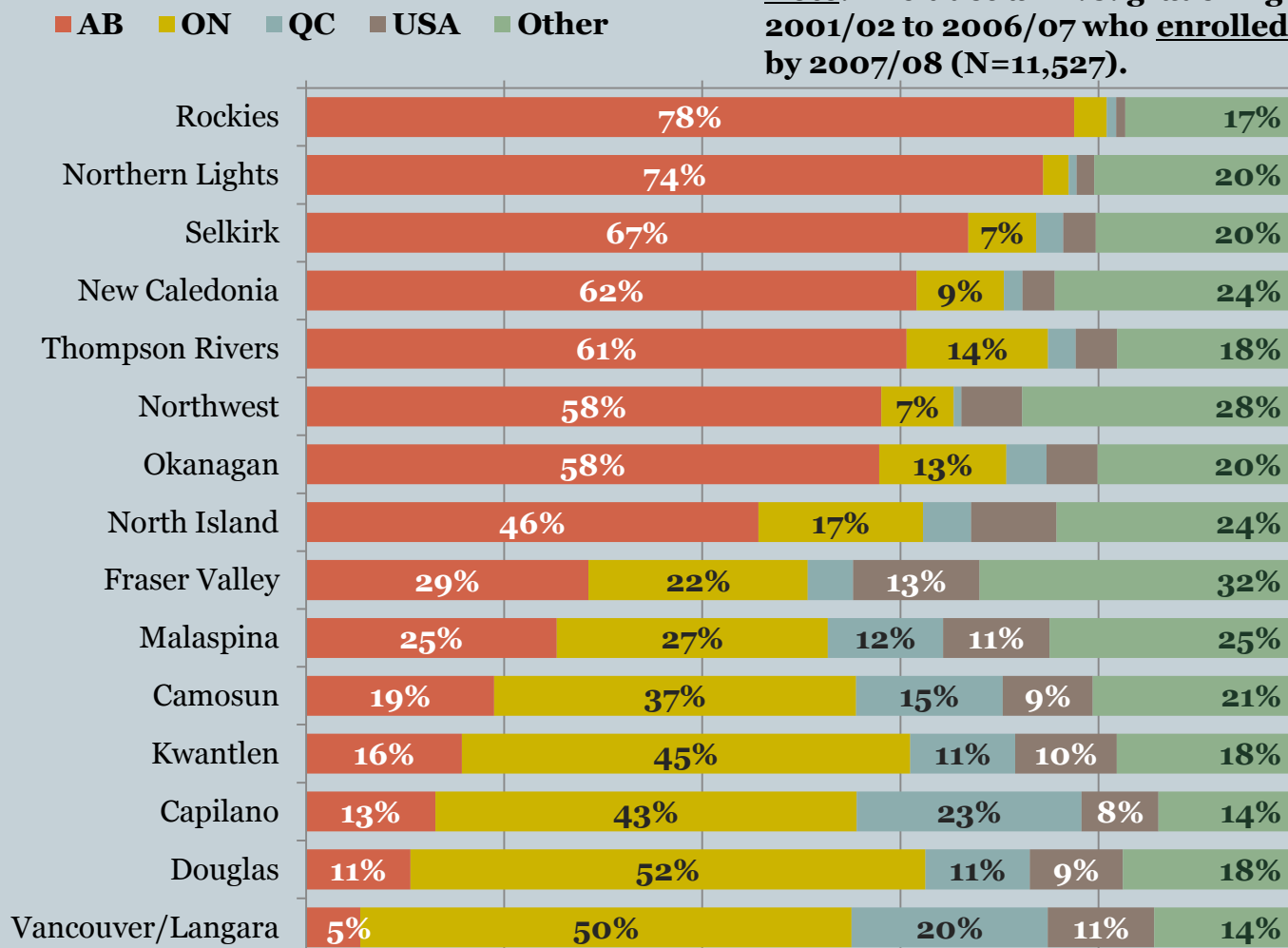


Country destinations of high school graduates of 2001/02 to 2006/07 (by 2007/08) who enrolled outside of the B.C. Public Post-Secondary System (11,500 of 258,000 grads left B.C.)

# 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%
	<b>Grand Total</b>	<b>8,091</b>	<b>100%</b>

# 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%
	<b>Grand Total</b>			<b>11,527</b>	<b>100.0%</b>

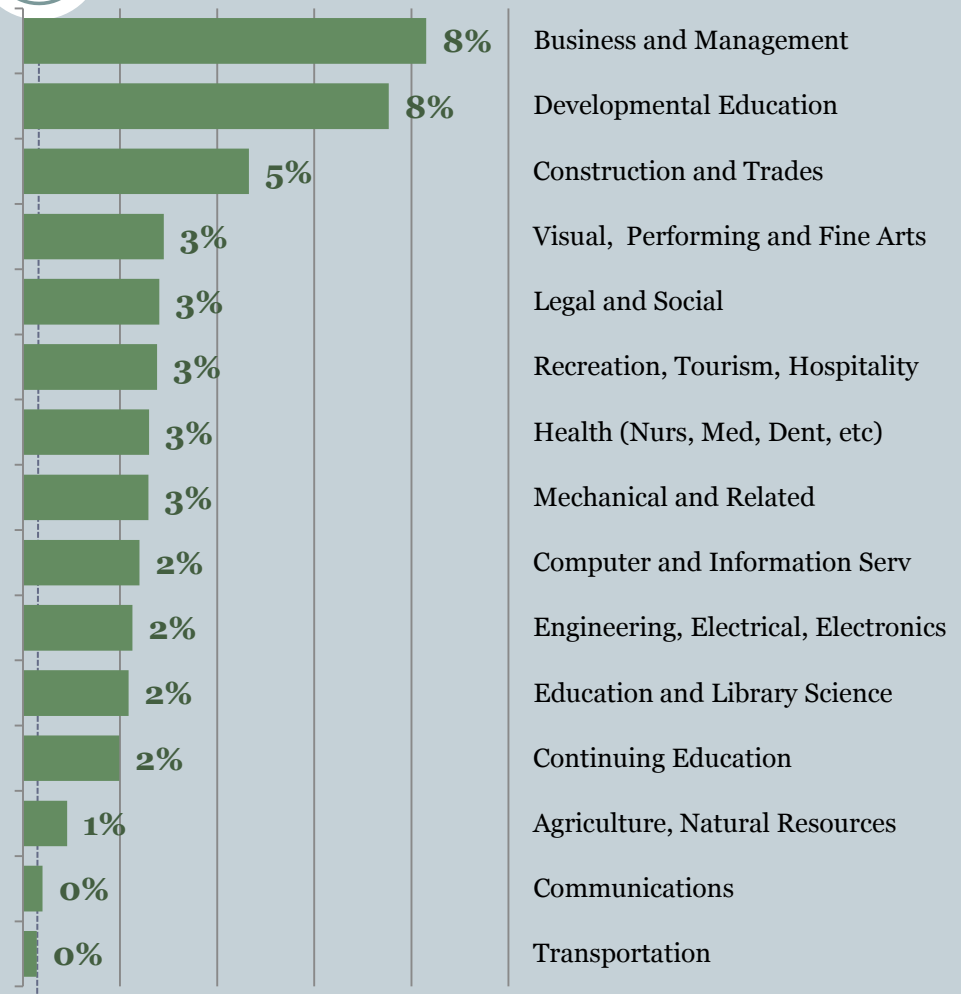
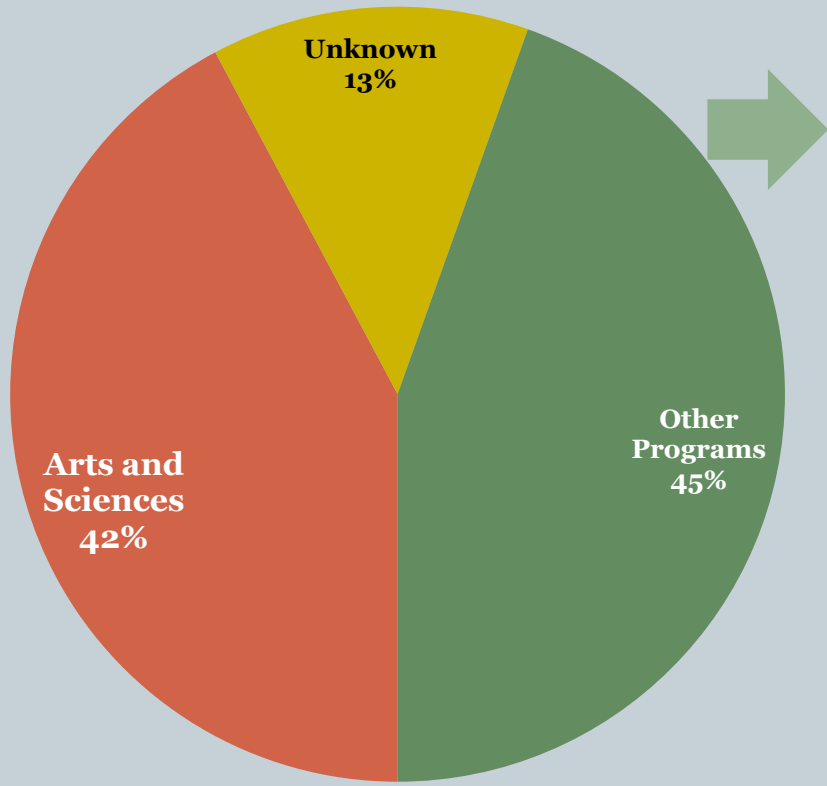
# Research Question #9

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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

40

- 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
<b>All Sectors</b>	<b>13%</b>	<b>24,713</b>		



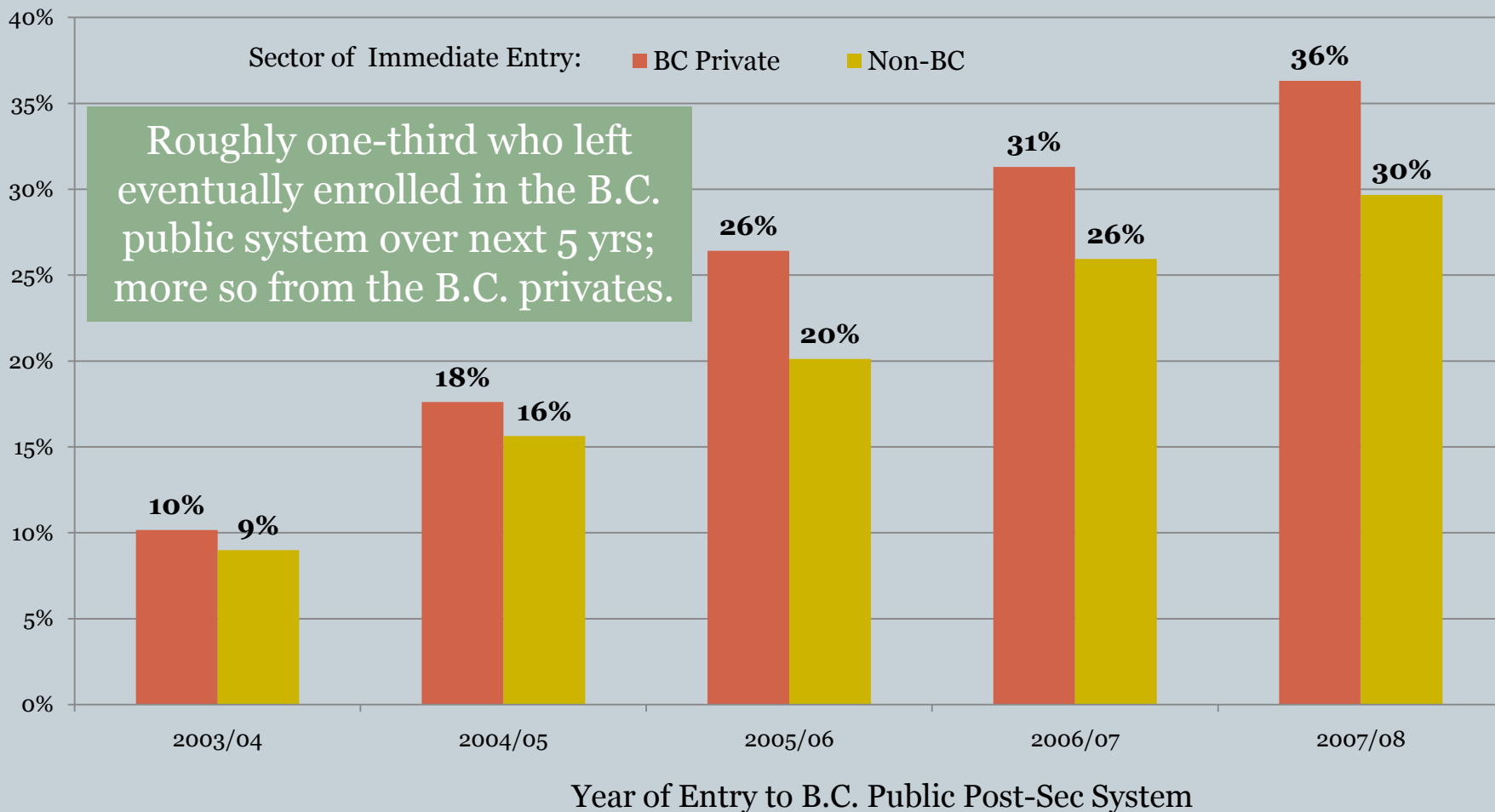
# Research Question #10

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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.

# 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/](http://www.aved.gov.bc.ca/student_transitions/)
  - STP Fast Facts
  - Regional Transition Matrices
  - STP Highlights Newsletters
  - STP Research Reports