HOW EVERYONE IN BC IS BEING RANKED

THE MEANING AND IMPACT OF K-12 TO RESEARCH RANKINGS EXPLAINED

BCCIE Summer Conference

The Illuminate Consulting Group

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About the Session

Country and Regional Rankings

K-12 Schooling Quality Assessments: PISA and TIMSS

International University Rankings

Implications for BC

Discussion

ICG Contact Information

The world of International Education operates with few commonly agreed on performance measurement models or definitive hierarchies.

Two major exceptions exist, however: For one, the PISA and TIMSS test batteries operated by the OECD launched as far back as the year 1995. PISA and TIMSS have become a key element of national comparison of K-12 school systems, and impacted domestic policy-makers and parents of prospective international students alike.

The second exception consist of the 19 international PSE institution rankings which cover a wide range of topics. Some of these rankings have become critical arbiters of student and resource movement trends, and often directly or indirectly shape debates about International Education issues.

This session shares highlights of BC performances across all sectors, and discuss the impact of these tests / rankings on BC's provincial and institutional brand.



About the Session

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International University Rankings

Implications for BC

Discussion

ICG Contact Information

COUNTRY AND REGIONAL RANKINGS Overview

Overview

- Rankings of countries
- Rankings of social and humanitarian factors
- Economic factor based rankings
- Education-based rankings

Anholt-GfK Nation Brands Index (2016)			nal
Rank	Country	Score	
1	USA (pre-election)	n/a	
2	Germany	n/a	
3	United Kingdom	n/a	
4	Canada	n/a	
5	France	n/a	
6	Italy	n/a	
7	Japan	n/a	
8	Switzerland	n/a	
9	Australia	n/a	
10	Sweden	n/a	

COUNTRY AND REGIONAL RANKINGS United Nations Human Development Index (2014)

United Natio	ons Human Development	Index (2014)	Social
Rank	Country	Score	
1	Norway	0.944	
2	Australia	0.935	
3	Switzerland	0.930	
4	Denmark	0.923	
5	Netherlands	0.922	
6	Germany	0.916	
7	Ireland	0.916	
8	United States	0.915	
9	Canada	0.913	
10	New Zealand	0.913	
11	Singapore	0.912	
12	Hong Kong	0.910	
13	Liechtenstein	0.908	
14	Sweden	0.907	
15	United Kingdom	0.907	

Source: United Nations. ICG © 2017

COUNTRY AND REGIONAL RANKINGS Cato Institute Human Freedom Index (2014)

CATO Institute Human Freedom Index (2014)			Social
Rank	Country	Score	
1	Hong Kong	9.06	
2	Switzerland	8.83	
3	New Zealand	8.67	
4	Ireland	8.64	
5	Denmark	8.62	
T=6	Canada	8.61	
T=6	United Kingdom	8.61	
T=6	Australia	8.61	
9	Finland	8.55	
10	Netherlands	8.54	
11	Luxembourg	8.53	
12	Austria	8.53	
13	Germany	8.49	
14	Norway	8.49	
15	Sweden	8.42	

Source: Cato Institute. ICG © 2017

COUNTRY AND REGIONAL RANKINGS Vision of Humanity Global Peace Index (2017)

Vision of I	Humanity Global Peace In	dex (2017)	Social
Rank	Country	Score	
1	Iceland	1.111	
2	New Zealand	1.241	
3	Portugal	1.258	
4	Austria	1.265	
5	Denmark	1.337	
6	Czech Republic	1.360	
7	Slovenia	1.364	
8	Canada	1.371	
9	Switzerland	1.373	
10	Ireland	1.408	
11	Japan	1.408	
12	Australia	1.425	
13	Bhutan	1.474	
14	Norway	1.486	
15	Hungary	1.494	

Source: Vision of Humanity. ICG © 2017

COUNTRY AND REGIONAL RANKINGS United Nations World Happiness Report (2017)

United Nat	ions World Happiness Re	port (2017)	Social
Rank	Country	Score	
1	Norway	7.537	
2	Denmark	7.522	
3	Iceland	7.504	
4	Switzerland	7.494	
5	Finland	7.469	
6	Netherlands	7.377	
7	Canada	7.316	
8	New Zealand	7.314	
9	Australia	7.284	
10	Sweden	7.284	
11	Israel	7.213	
12	Costa Rica	7.079	
13	Austria	7.006	
14	United States	6.993	
15	Ireland	6.977	

Source: United Nations. ICG © 2017

COUNTRY AND REGIONAL RANKINGS Social Progress Index (2016)

Social Progress Index (2016)			Social
Rank	Country	Score	
1	Finland	90.09	
2	Canada	89.49	
3	Denmark	89.39	
4	Australia	89.13	
5	Switzerland	88.87	
6	Sweden	88.8	
7	Norway	88.7	
8	Netherlands	88.65	
9	United Kingdom	8858	
10	Iceland	88.45	
11	New Zealand	88.45	
12	Ireland	87.94	
13	Austria	86.6	
14	Japan	86.54	
15	Germany	86.42	

Source: Social Progress Imperative ICG © 2017

COUNTRY AND REGIONAL RANKINGS Dual Citizen Global Green Economy Index (2016)

Dual Citizer	n Global Green Economy	Index (2016)	Economic
Rank	Country	Score	
1	Sweden	77.61	
2	Norway	69.11	
3	Finland	67.83	
4	Switzerland	67.63	
5	Germany	66.01	
6	Austria	65.23	
7	Iceland	63.68	
8	Zambia	62.00	
9	Denmark	61.84	
10	Brazil	60.29	
11	Costa Rica	58.69	
12	Canada	58.00	
13	France	57.76	
14	Ethiopia	56.46	
15	Italy	56.21	

COUNTRY AND REGIONAL RANKINGS The Economist Democracy Index (2016)

The Economist Democracy Index (2016)			Social
Rank	Country	Score	
1	Norway	9.93	
2	Iceland	9.5	
3	Sweden	9.39	
4	New Zealand	9.26	
5	Denmark	9.2	
6	Canada	9.15	
7	Ireland	9.15	
8	Switzerland	9.09	
9	Finland	9.03	
10	Australia	9.01	
11	Luxembourg	8.81	
12	Netherlands	8.80	
13	Germany	8.63	
14	Austria	8.41	
15	Malta	8.39	

COUNTRY AND REGIONAL RANKINGS Mercer Quality of Living Rankings (2017)

Mercer Quality of Living Rankings (2017)			Social
Rank	City	Score	
1	Vienna	n/a	
2	Zurich	n/a	
3	Auckland	n/a	
4	Munich	n/a	
5	Vancouver	n/a	
6	Düsseldorf	n/a	
7	Frankfurt	n/a	
8	Geneva	n/a	
9	Copenhagen	n/a	
T=10	Sydney	n/a	
T=10	Basel	n/a	
12	Amsterdam	n/a	
13	Berlin	n/a	
14	Bern	n/a	
15	Wellington	n/a	

COUNTRY AND REGIONAL RANKINGS Heritage Foundation Economic Freedom Index (2016)

Heritage Foun	dation Economic Freedo	m Index (2016) Economic
Rank	Country	Score
1	Hong Kong	89.8
2	Singapore	88.6
3	New Zealand	83.7
4	Switzerland	81.5
5	Australia	81.0
6	Estonia	79.1
7	Canada	78.5
8	U.A.E	76.9
9	Ireland	76.7
10	Chile	76.5
11	Taiwan	76.5
12	United Kingdom	76.4
13	Georgia	76.0
14	Luxembourg	75.9
15	Netherlands	75.8

Source: The Heritage Foundation ICG © 2017

COUNTRY AND REGIONAL RANKINGS Global Innovation Index (2016)

Global Innovation Index (2016)		
Rank	Country	Score
1	Switzerland	66.28
2	Sweden	63.57
3	United Kingdom	61.93
4	United States	61.40
5	Finland	59.90
6	Singapore	59.16
7	Ireland	59.03
8	Denmark	58.45
9	Netherlands	58.29
10	Germany	57.94
11	South Korea	57.15
12	Luxembourg	57.11
13	Iceland	55.99
14	Hong Kong	55.69
15	Canada	54.71

Source: The Global Innovation Index ICG © 2017

COUNTRY AND REGIONAL RANKINGS CBoC Economic Report Card (2014)

CBoC Economic Report Card (2014)			Economic
Rank	Country/Province	Score	
1	Alberta	A+	
2	Saskatchewan	A+	
3	Newfoundland & Labrador	A+	
4	Australia	Α	
5	Ireland	Α	
6	United States	Α	
7	Norway	Α	
8	Canada	В	
9	Switzerland	В	
10	Ontario	В	
11	United Kingdom	В	
12	British Columbia	В	
13	Sweden	В	
14	Germany	В	
15	Prince Edward Island	В	

Source: Conference Board of Canada ICG © 2017

COUNTRY AND REGIONAL RANKINGS CBoC Environmental Report Card (2014)

CBoC F	Environmental Report Car	d (2014)	Economic
Rank	Country/Province	Score	
	•		
1	Switzerland	Α	
2	France	Α	
3	United Kingdom	Α	
4	Sweden	Α	
5	Germany	Α	
6	Netherlands	Α	
7	Denmark	Α	
8	Ireland	Α	
9	Austria	В	
10	Belgium	В	
11	Ontario	В	
12	Norway	В	
13	Japan	В	
16	British Columbia	C	

Source: Conference Board of Canada ICG © 2017

COUNTRY AND REGIONAL RANKINGS CBoC Innovation Report Card (2014)

CBoC	Innovation Report Card	(2014)	Economic
Rank	Country/Province	Score	
1	Sweden	Α	
2	Denmark	Α	
3	Finland	Α	
4	United States	В	
5	Ontario	В	
6	Switzerland	В	
7	Netherlands	В	
8	Quebec	В	
9	Austria	В	
10	British Columbia	В	
11	Norway	В	
12	Canada	С	
13	Germany	С	
14	Japan	С	
15	Alberta	С	

Source: Conference Board of Canada ICG © 2017

COUNTRY AND REGIONAL RANKINGS CBoC Education & Skills Report Card (2014)

CBoC Education & Skills Report Card (2014)		Education	
Rank	Country/Province	Score	
1	Japan	Α	
2	Finland	Α	
3	British Columbia	В	
4	Ontario	В	
5	Alberta	В	
6	Canada	В	
7	Australia	В	
8	Switzerland	В	
9	Netherlands	С	
10	Quebec	С	
11	Germany	С	
12	Nova Scotia	С	
13	United Kingdom	С	
14	Belgium	С	
15	Sweden	C	

Source: Conference Board of Canada ICG © 2017

COUNTRY AND REGIONAL RANKINGS Universitas U21 Rankings (2017)

Uni	versitas U21 Rankings (20	017) Education
Rank	Country	Score
1	United States	100
2	Switzerland	86.9
3	United Kingdom	85.5
4	Denmark	83.5
5	Sweden	83.4
6	Singapore	80.8
7	Canada	80.2
8	Netherlands	80.0
9	Finland	79.9
10	Australia	79.6
11	Austria	75.0
12	Belgium	74.2
13	Norway	73.9
14	Hong Kong	73.7
15	New Zealand	72.1

Perspectives

- Canada is typically ranked in the Top 10 in the world with regards to social, humanitarian, economic, and education factors.
- Few other countries rival Canada for its consistency in high placements across different factors
- British Columbia typically does well on intra-Canadian rankings of economic and education factors.



About the Session

Country and Regional Rankings

K-12 Schooling Quality Assessments: PISA and TIMSS

International University Rankings

Implications for BC

Discussion

ICG Contact Information

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS TIMSS Mathematics

TIMSS Mathematics Score – 8 th Grade (2015)		
Rank	Country	Score
1	Singapore	621
2	South Korea	606
3	Chinese Taipei	599
4	Hong Kong	594
5	Japan	586
6	Russia	538
7	Kazakhstan	528
8	Canada	527
9	Ireland	523
T=10	United States	518
T=10	England	518
12	Slovenia	516
13	Hungary	514
14	Norway	512
15	Lithuania	511

Source: TIMSS. ICG © 2017

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS TIMSS Science

TIMSS Science Score – 8 th Grade (2015)		
Rank	Country	Score
1	Singapore	597
2	Japan	571
3	Chinese Taipei	569
4	South Korea	556
5	Slovenia	551
6	Hong Kong	546
7	Russia	544
8	England	537
9	Kazakhstan	533
T=10	Ireland	530
T=10	United States	530
12	Hungary	527
13	Canada	526
14	Sweden	522
15	Lithuania	519

Source: TIMSS. ICG © 2017

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS PISA Mathematics

PISA Mathematics Performance Score (2015)		
Rank	Country	Score
1	Singapore	564
2	Hong Kong (China)	548
3	Macao (China)	544
4	Chinese Taipei	542
5	Japan	532
6	B-S-J-G (China)	531
7	South Korea	524
8	Switzerland	521
9	Estonia	520
10	Canada	516
11	Netherlands	512
12	Denmark	511
13	Finland	511
14	Slovenia	510
15	Belgium	507

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS PISA Science

PISA Science Performance Score (2015)		
Rank	Country	Score
1	Singapore	556
2	Japan	538
3	Estonia	534
4	Chinese Taipei	532
5	Finland	531
6	Macao (China)	529
7	Canada	528
8	Viet Nam	525
9	Hong Kong (China)	523
10	B-S-J-G (China)	518
11	South Korea	516
12	New Zealand	513
13	Slovenia	513
14	Australia	510
15	United Kingdom	509

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS PISA Reading

PISA Reading Performance Score (2015)		
Rank	Country	Score
1	Singapore	535
2	Hong Kong (China)	527
3	Canada	527
4	Finland	526
5	Ireland	521
6	Estonia	519
7	Korea	517
8	Japan	516
9	Norway	513
10	New Zealand	509
11	Germany	509
12	Macao (China)	509
13	Poland	506
14	Slovenia	505
15	Netherlands	503

Source: PISA. ICG © 2017

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS PISA Mathematics by Region

PISA Mathematics Performance Score (2015)			
Rank	Province/Region	Score	
1	Quebec	544	
2	British Columbia	522	
3	Flemish community	521	
4	Bolzano	518	
5	Navarre	518	
6	Trento	516	
7	Alberta	511	
8	Ontario	509	
9	Lombardia	508	
17	Prince Edward Island	499	
18	Nova Scotia	497	
23	New Brunswick	493	
28	Manitoba	489	
30	Newfoundland & Labrador	486	
32	Saskatchewan	484	

Source: PISA. ICG © 2017

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS PISA Science by Region

PISA Science Performance Score (2015)		
Rank	Province/Region	Score
1	Alberta	541
2	British Columbia	539
3	Quebec	537
4	Massachusetts	529
5	Ontario	524
6	Castile and Leon	519
7	Nova Scotia	517
8	Madrid	516
T=9	Flemish community	515
T=9	Bolzano	515
11	Prince Edward Island	515
17	New Brunswick	506
18	Newfoundland & Labrador	506
25	Manitoba	499
29	Saskatchewan	496

Source: PISA. ICG © 2017

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS PISA Reading by Region

PISA Reading Performance Score (2015)		
Rank	Province/Region	Score
1	British Columbia	536
2	Alberta	533
3	Quebec	532
4	Ontario	527
5	Massachusetts	527
6	Castile and Leon	522
7	Madrid	520
8	Nova Scotia	517
9	Prince Edward Island	515
10	Navarre	514
11	Trento	512
15	New Brunswick	505
17	Newfoundland & Labrador	505
26	Manitoba	498
29	Saskatchewan	496

Source: PISA. ICG © 2017

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS Perspectives

Perspectives

- Canada typically performs in the Top 10 in mathematics and science assessments.
- Canada performs exceptionally well on reading assessments.
- British Columbia performs in the global Top 5 across PISA (by region).



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Discussion

ICG Contact Information

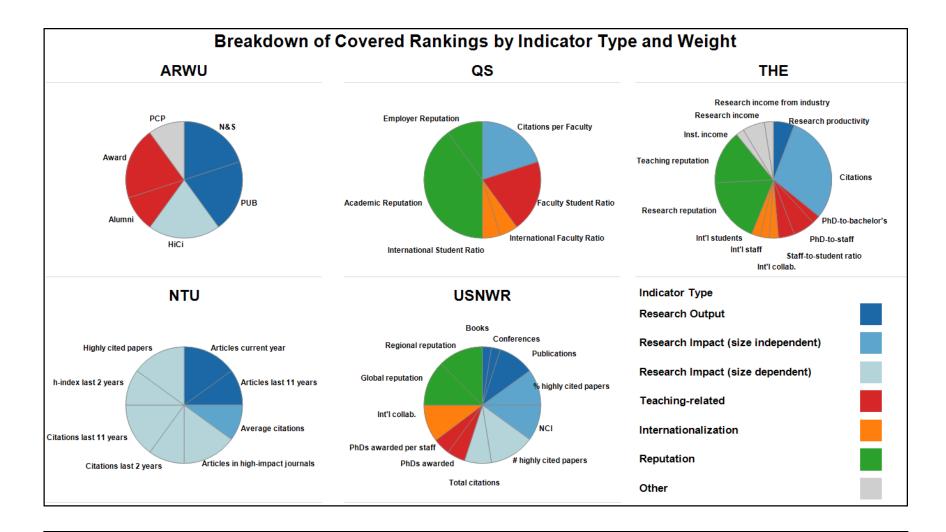
19 ACTIVE INTERNATIONAL UNIVERSITY RANKINGS BY RELEASE YEAR AND TYPE

	,03	'04	'05	'06	'07	'08	[,] 09	'10	'11	'12	'13	'14	'15	'16
Academic Ranking of World Universities (ARWU, aka Shanghai Ranking)														
Ranking Web of Universities (Webometrics Ranking)														
World University Rankings (Quacquarelli Symonds (QS))														
University Web Rankings & Reviews (4 International Colleges & Universities (4ICU))														
Performance Ranking of Scientific Papers for World Universities (NTU (formerly HEEACT))														
CWTS Leiden Ranking														
University Ranking by Academic Performance (URAP)														
SCImago Institutions Rankings (new version)							R	R	R	R	R	R	R	
World University Rankings (Times Higher Education)														
Global Employability Rankings (Emerging/ Trendence)														
Round University Rankings (RUR)								R	R	R				
U-Multirank (Universities Compared. Your Way)														
UI GreenMetric World University Ranking										Е	E	Е	E	E
Center for World University Rankings (CWUR)														
Global University Ranking (Youth Inc. / Education Times of India)														
nature INDEX														
Worldwide Professional University Rankings (RankPro)														
Best Global Universities Rankings (U.S. News & World Report)														
Reuters Top 100 Most Innovative Universities													1	I
Acad. performance w/ league table		Acade	mic pe	rforma	nce w/	o leagi	ue table	e	В	road-b	ased le	eague	able	
Multi-indicator ranking		Employability-based league table Web presence league table												

Notes: This overview does not list all world university rankings. Instead, it aims to highlight the variety of rankings that are being actively published, with a focus on key rankings tracked by ICG. "R" denotes retroactive. "E" denotes environmental focus. "I" denotes innovation. Source: Rankings agencies, ICG.

ICG © 2017

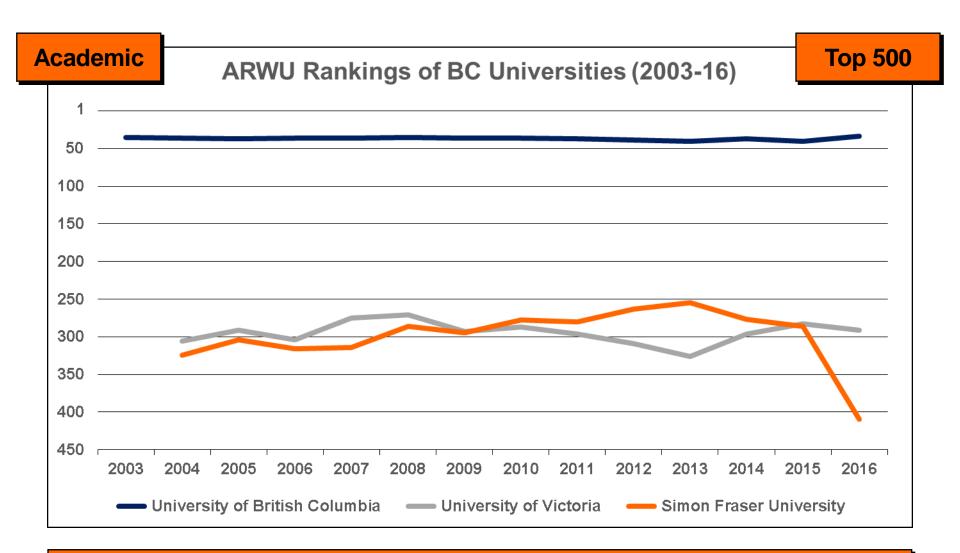
KEY INTERNATIONAL RANKINGS' METHODOLOGIES Rankings by Indicator Type and Weight (I)



Notable differences between five key rankings

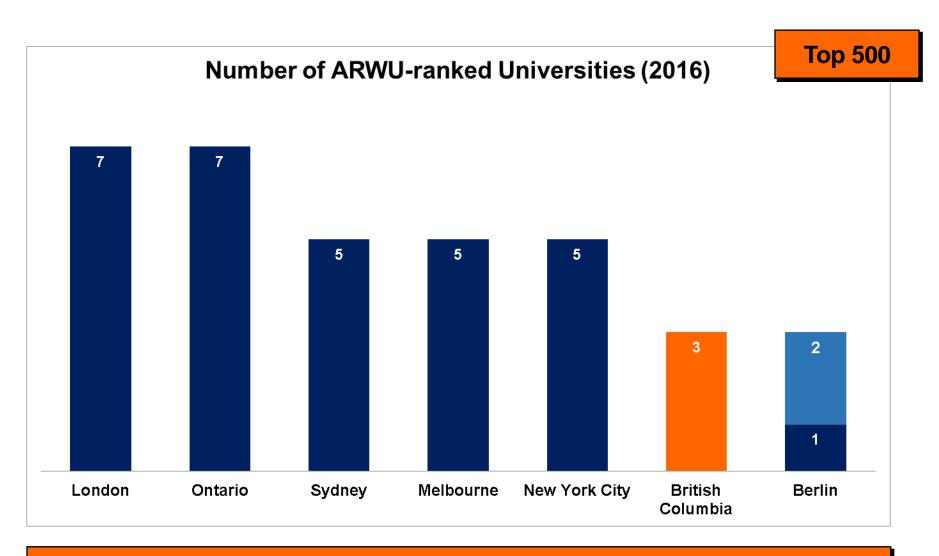
Global	Field/Faculty/ Subject	Regional	Reputation	Systems	Employability
 ARWU (Shanghai) QS THE NTU (HEEACT) CWTS Leiden URAP SCImago RUR CWUR U.S. News 	 QS by Faculty (5 faculties) QS by Subject (36 subjects) THE by Subject (6 subjects) NTU by Field (6 fields) NTU by Subject (14 subjects) URAP Field Based Ranking (23 fields) U.S. News Subject Rankings (22 subjects) 	 Ranking of Top Universities in Greater China (Shanghai) QS Rankings: Asia QS Rankings: Arab Region QS Rankings: Latin America QS Rankings: BRICs QS: Emerging Europe & Central Asia THE Asia University Rankings THE BRICs and Emerging Economies THE Top 30 African Universities THE Best Universities in the United States Reuters Top 75 Innovative Asia 	 THE Reputation Rankings International THE Most International Universities 	 QS Systems Strength Rankings U21 Ranking of National Higher Education Systems 	 Graduate Employability Ranking of Universities (QS) The Global University Employability Ranking (E/T)
 <i>RankPro</i> U-Multirank Webometrics <i>4ICU</i> Emerging LinkedIn UI GreenMetric Reuters Top 100 			Age-Based • QS Top 50 Under 50 • THE 150 Under 50 Rankings Cities • QS Best Student Cities	Business Schools • The Financial Times • The Economist • Bloomberg/ BusinessWeek • QS Global 200 Business Schools Report • Forbes • U.S. News (U.S. only)	 Profiles and "Badges" Global Research University Profiles (Shanghai) Global Institutional Profiles Project (GIPP, Thomson Reuters) QS STARS

INTERNATIONAL UNIVERSITY RANKINGS ARWU (Shanghai) Ranking



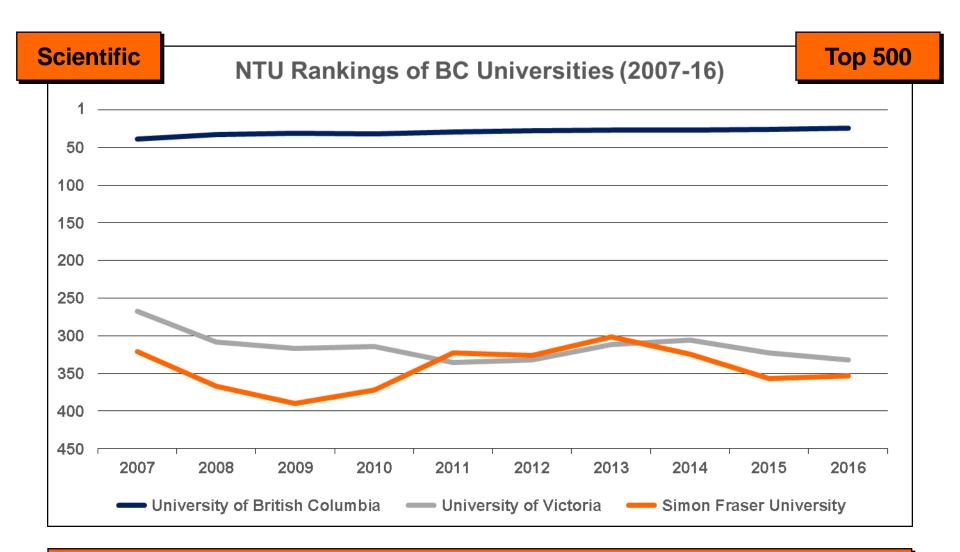
BC places three universities in ARWU – UBC inside of Top 50

Sources: ARWU. ICG © 2017



Notable rankings gap leads to significantly less quality student choice

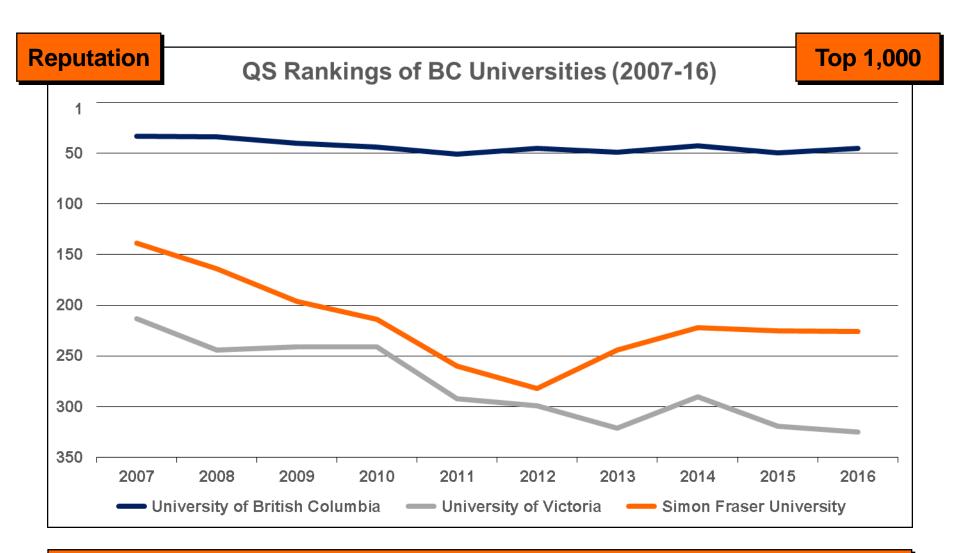
INTERNATIONAL UNIVERSITY RANKINGS NTU Ranking



BC places three universities in NTU – UBC moving up, SFU & UVic at 350-ish

Sources: NTU. ICG © 2017

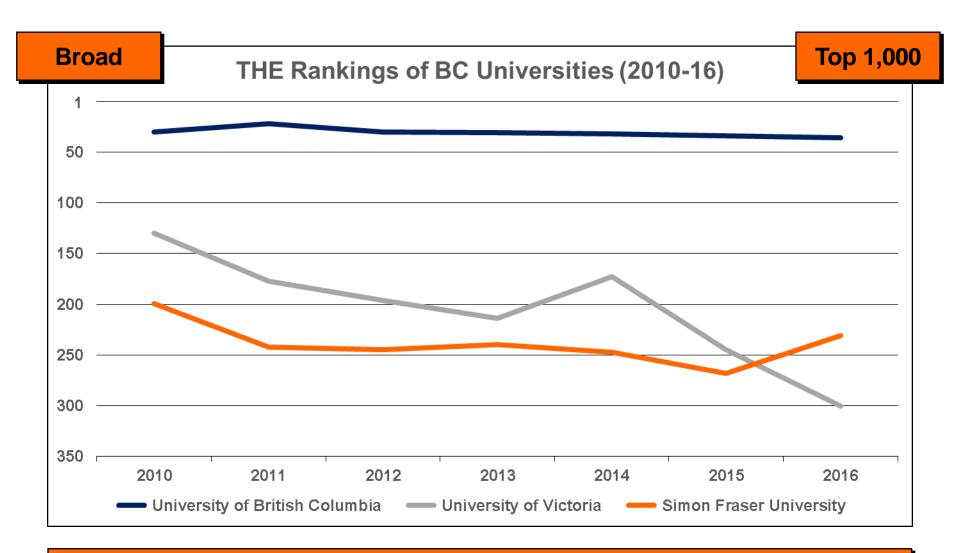
INTERNATIONAL UNIVERSITY RANKINGS QS Ranking



Declining across the board performance in key reputation-driven ranking

Sources: QS. **ICG** © **2017**

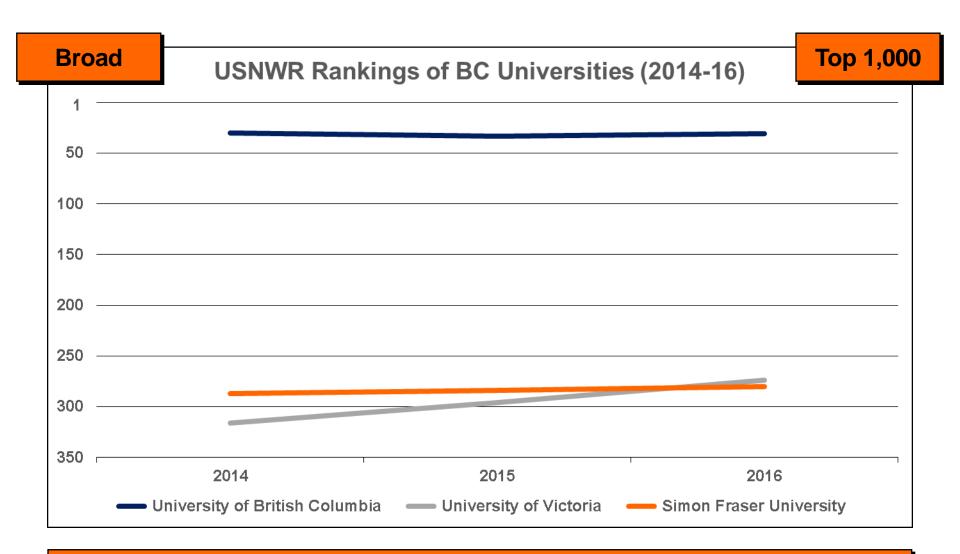
INTERNATIONAL UNIVERSITY RANKINGS THE Ranking



UBC broadly stable, SFU down a bit, UVic strongly declining

Sources: THE. ICG © 2017

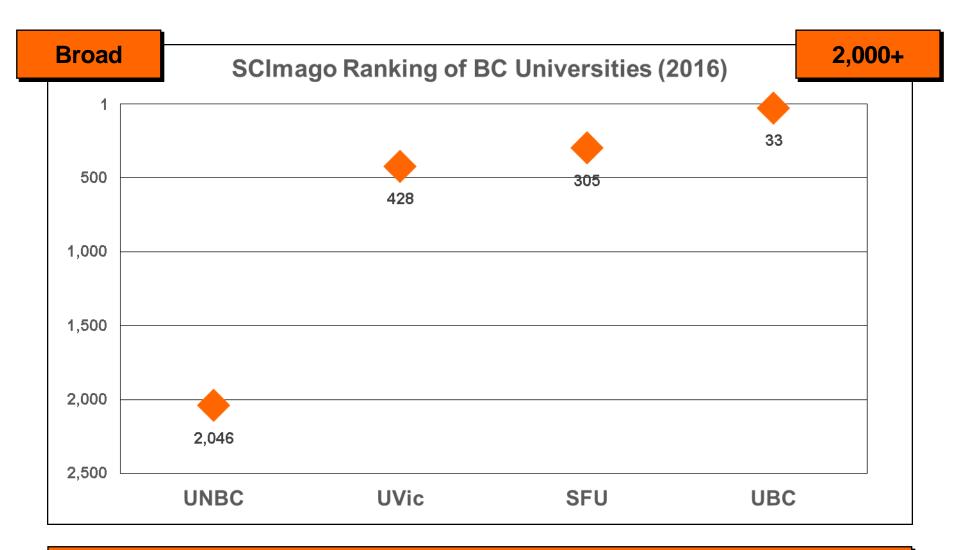
INTERNATIONAL UNIVERSITY RANKINGS USNWR Ranking



Relatively stable across the board performance

Sources: USNWR. ICG © 2017

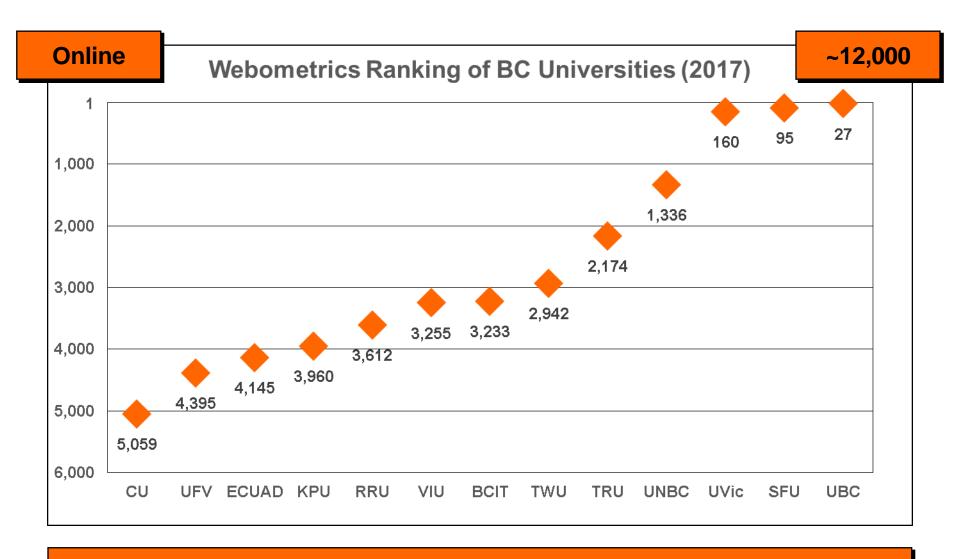
INTERNATIONAL UNIVERSITY RANKINGS SCImago Ranking



BC places four universities in SCImago

Sources: SCImago. ICG © 2017

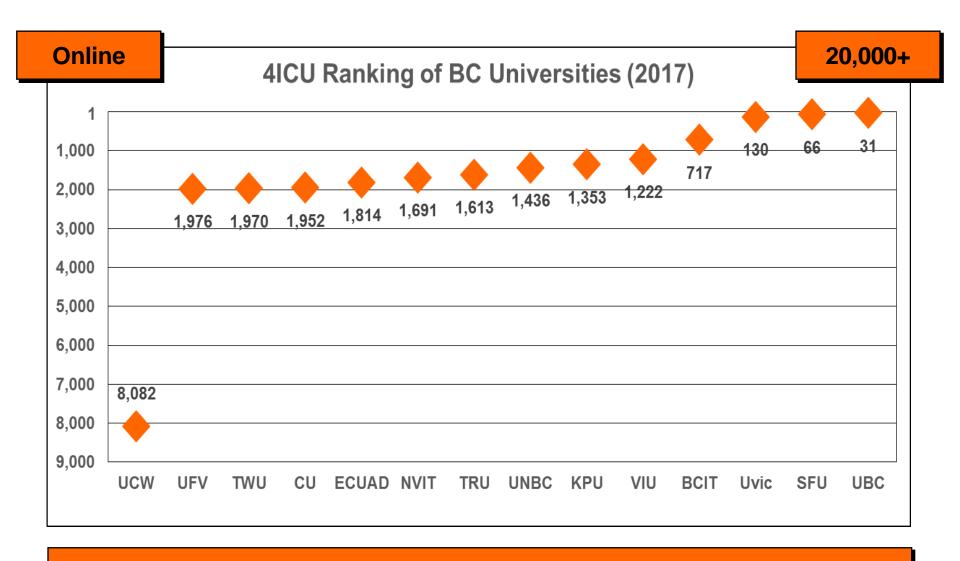
INTERNATIONAL UNIVERSITY RANKINGS Webometrics Ranking



BC places 13 universities in Webometrics

Sources: Webometrics. ICG © 2017

INTERNATIONAL UNIVERSITY RANKINGS 4ICU Ranking



BC places 14 universities in 4ICU

Sources: 4ICU. **ICG © 2017**

K-12 SCHOOLING QUALITY ASSESSMENTS: PISA AND TIMSS Perspectives

Perspectives

- BC is home to one global flagship (UBC) and two well-ranked research universities (SFU, UVic).
- The lack of other universities that would also be ranked in Shanghai, QS, THE, NTU, or USNWR constitutes a major "gap" in BC's PSE institution portfolio.
- UNBC is the only other university that makes a sound ranking, SCImago, at 2,000 plus.
- Colleges are not reflected in these rankings, unfairly or not.



About the Session

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International University Rankings

Implications for BC

Discussion

ICG Contact Information

Implications for BC

- Canada is one of the most well-respected, well-liked countries in the world
- Canada scores highly on many national rankings.
- BC does so as well (though few regional rankings exist).
- BC does score exceptionally well on K-12 performance assessments.
- BC is home to one global flagship, and two ranked universities.
- BC suffers from a notable lack of additional ranked universities, putting it at a disadvantage to other regions such as Berlin, GTA, London, Sydney/NSW, or Melbourne/Victoria.



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Country and Regional Rankings

K-12 Schooling Quality Assessments: PISA and TIMSS

International University Rankings

Implications for BC

Discussion

ICG Contact Information



Discussion

- What do you think about the rankings' views on BC and its education landscape?
- Does your institution use rankings to drive strategy setting? Are they used for benchmarking?
- How can these rankings be used to promote BC?
- What is missing from these rankings?
- Any other comments?



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Country and Regional Rankings

K-12 Schooling Quality Assessments: PISA and TIMSS

International University Rankings

Implications for BC

Discussion

ICG Contact Information

Dr. Daniel J. Guhr Managing Director

Illuminate Consulting Group P.O. Box 262 San Carlos, CA 94070 USA

- Phone +1 619 295 9600
- Fax +1 650 860 6109
- E-mail guhr@illuminategroup.com Web www.illuminategroup.com