# Longitudinal Immigration database (IMDB): the past, present and future

A federal and provincial partnership Rose Evra P2P, October 31 2019

Delivering insight through data for a better Canada





### Developed with the participation of federal and provincial partners

- The Longitudinal Immigration database (IMDB) is funded by Immigration, Refugees and Citizenship Canada (IRCC) and all 10 provinces
- The IMDB connects immigration and citizenship data with longitudinal socio-economic outcomes, facilitating broad and detailed analysis and research
- The results can be accessed via tables online, research publications, interactive applications, custom tabulations and microdata access in the Research Data Centres (RDC)







# **Context of immigration in Canada**

Non- permanent residents	<ul><li>Asylum seekers</li><li>Persons with a work or study permit</li></ul>	
Permanent residents	<ul> <li>Economic immigrants (60%): Contributing to Canada's economy</li> <li>Immigrants sponsored by family (27%): Reuniting with family members</li> <li>Refugees (12%): Seeking protection and escaping persecution</li> </ul>	In 2016, immigrants represented 21.9% of the Canadian population.

\*Actual percentages by admission category vary year to year. Values shown are based on averages from 2000-2016



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# **IMDB: traditional content**

Target population: All immigrants admitted to Canada since 1980 who filed taxes

Permanent resident files from Immigration Refugee Citizenship Canada, 1980-	Tax files (T1FF) from the Canadian Revenue Agency, 1982-
<ul> <li>Information at admission:</li> <li>Admission category</li> <li>Admission date</li> <li>Country of birth</li> <li>Knowledge of official language at admission</li> <li>Intended occupation</li> <li>Intended place of residence in Canada</li> <li>and much more</li> </ul>	<ul> <li>Individual and family level incomes: <ul> <li>Employment income</li> <li>Social assistance</li> <li>Industry (NAICS)</li> <li>Tax credit for post-secondary education</li> <li>Place of residence for taxation year</li> </ul> </li> <li>Family composition: <ul> <li>Family size</li> <li>Marital status</li> <li>Number of children, by age</li> <li>Number of immigrants in the family</li> <li>and much more</li> </ul> </li> </ul>



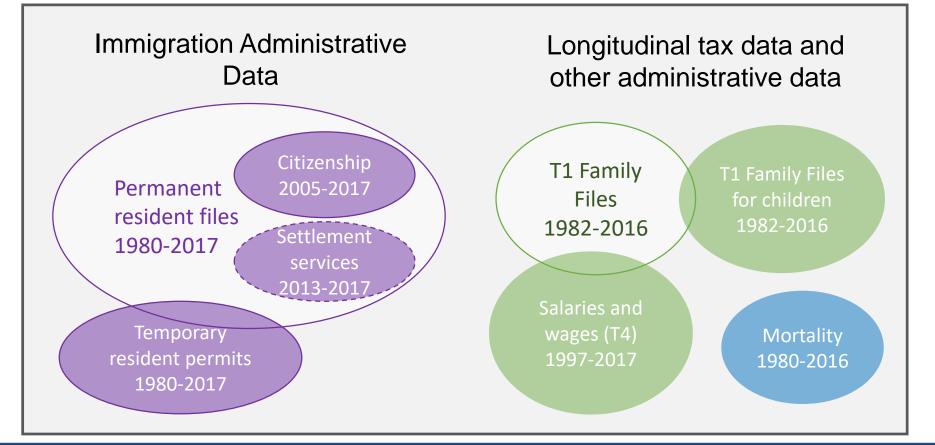
# Key developments for the IMDB

- Expanded universe to include all immigrants and non-permanent residents since 1980
  - Including longitudinal NPR permits with details
- New children module to connect outcomes of immigrant children with the outcomes of their parents
- Integrated Citizenship data since 2005
- Added salaries and wages data from Statement of remuneration (T4)
  - Outcomes available 1 year earlier
  - Better coverage of temporary foreign workers
- New data tables and data visualization tool available online



# **IMDB:** Enhancements

**Target population:** All immigrants admitted to Canada since 1980 who filed taxes and all non-permanent residents since 1980









# **Analytical capacity**

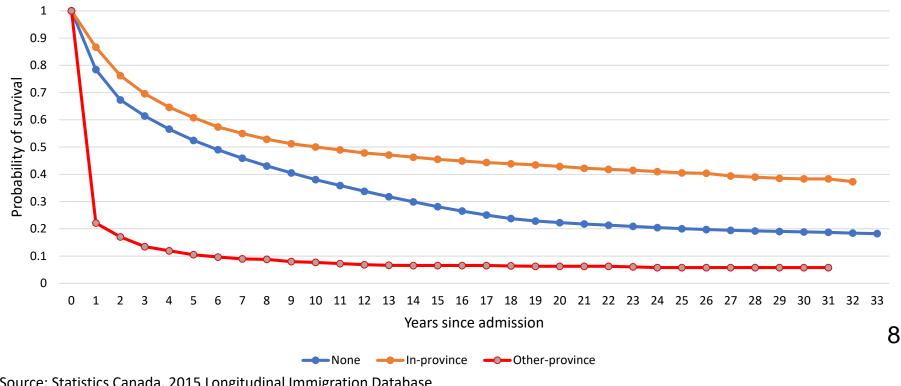






### **Connections between outcomes and pre-admission** experience

**Probability of retention of immigrants admitted to Atlantic** provinces by pre-admission experience



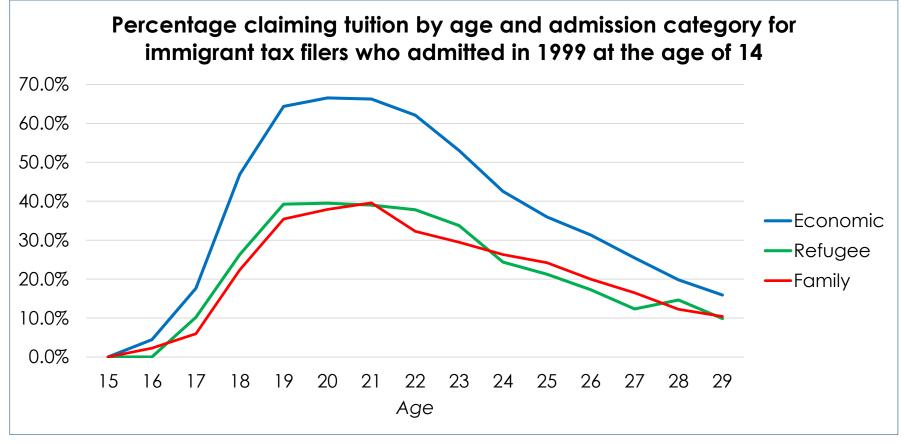




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### Analysis of outcomes for a specific subpopulation



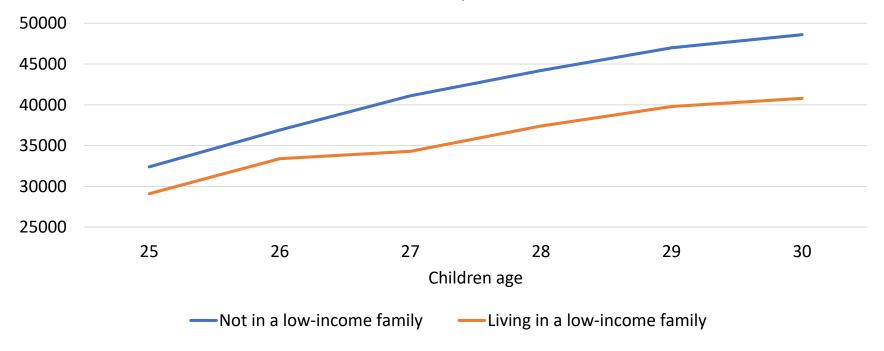
Source: Statistics Canada, Longitudinal Immigration Database, 2014.





Analysis of outcomes of immigrant children connected to the outcomes of their parents

Children admitted before 5 years old, living in low-income families two years after their admission, have lower incomes as adults than those who were not, 2016 constant \$



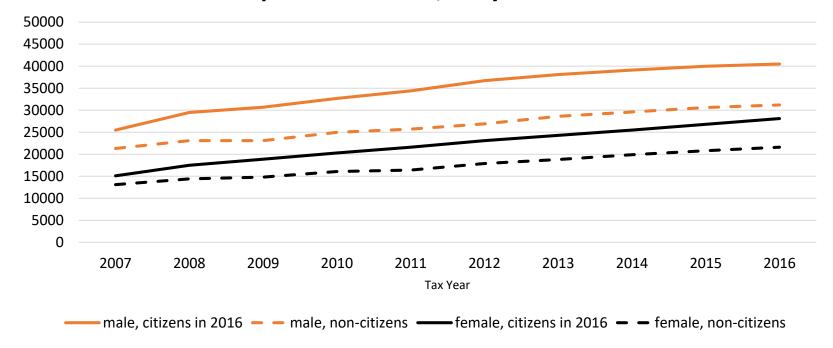
Source: Statistics Canada, Longitudinal Immigration Database, 2016.





# Analysis of citizenship acquisition and connection with outcomes in Canada

Median wages of immigrant taxfilers admitted in 2006, by citizenship status and sex, tax year 2007 to 2016



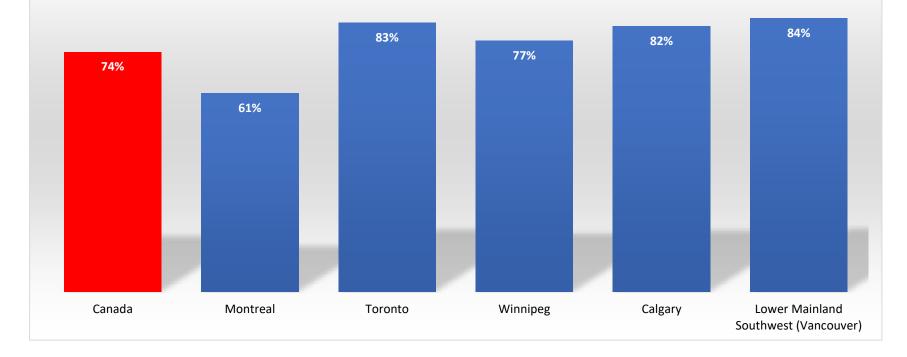
#### Source: Statistics Canada, 2016 Longitudinal Immigration Database





## Detailed geography

Five-year retention rates of selected intended economic regions for immigrants without pre-admission permits admitted in 2011



Source: Statistics Canada, 2016 Longitudinal Immigration Database, product 43-10-0013





### **Dynamic tables currently available**

Mobility and income of immigrants taxfilers by birth area and admission year

#### Table: 43-10-0015-01

Immigrant mobility and income, by sex, pre-admission experience, immigrant admission category, birth area, years since admission and admission year, for Canada, provinces and...

Immigrant Income by admission year and pre-admission experience, Canada and provinces

Table: 43-10-0011-01

Income of immigrants, by world area, sex, immigrant admission category, pre-landing experience, knowledge of official languages, and admission year for tax year 2016.

3. Immigrant Income by admission year and immigrant admission category, Canada and provinces

Table: 43-10-0010-01

Immigrant Income, by sex, pre-admission experience, immigrant admission category, years since admission and admission year, for Canada and provinces, 2016 constant dollars.

4. Immigrant Income by admission year and years since admission, Canada and provinces

Table: 43-10-0009-01

Immigrant Income, by sex, age at admission, immigrant admission category, years since admission and admission year, for Canada and provinces, 2016 constant dollars.

5. Mobility and income of Immigrant taxfilers by admission year and years since landing, Canada, provinces and economic regions

Table: 43-10-0013-01

Immigrant mobility and income, by sex, pre-admission experience, immigrant admission category, years since admission and admission year, for Canada, provinces and economic regions...

6. Mobility and income of Immigrant taxfilers by admission year and years since landing, Canada, provinces and census metropolitan areas

#### Table: 43-10-0014-01

Immigrant mobility and income, by sex, pre-admission experience, immigrant admission category, years since admission and admission year, for Canada, provinces and census metropolitan...

7. Mobility of immigrant tax filers, Canada and Provinces

Table: 43-10-0012-01

Number of immigrant tax filers, by province, admission year, sex, age at admission and immigration category for tax years 1996 to 2016.



### Table: 43-10-0012

		Both sexes Total - pre-admission experience								
			Total, in	nmigrant admission c	ategory					
		2011, admission year								
Geography	Statistics <sup>67891011</sup> 121314	2012	2013	2014	2015	2016				
				Persons						
	Total destination $\frac{6}{2}$	64,245	66,975	68,815	69,935	70,030				
	Total residence $\frac{7}{2}$	65,620	68,440	70,365	71,910	72,680				
	Stayed in province $\underline{^8}$	60,400	61,890	62,910	63,685	63,720				
	Out migration $\frac{9}{2}$	3,845	5,085	5,905	6,250	6,305				
Ontario <u>(map)</u>	In migration <sup>10</sup>	5,220	6,550	7,455	8,225	8,960				
		Percent								
	Population growth rate $\frac{11}{2}$	2.1	2.2	2.3	2.8	3.8				
	Retention rate 12	94.0	92.4	91.4	91.1	91.0				
	Out migration rate $\frac{13}{2}$	6.0	7.6	8.6	8.9	9.0				
	In migration rate $\frac{14}{2}$	8.1	9.8	10.8	11.8	12.8				





### Table: 43-10-0010

		Total - pre-admission experience										
			1 years since admission									
					Wages	s, salarie:	s and cor	nmissior	ıs <u>5</u>			
Immigrant admission category <u>4</u>	Statistics <sup>11</sup>	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
						P	ersons					
	Total count	166,660	157,620	162,255	167,905	183,490	164,085	175,265	179,210	183,650	190,740	
Total, immigrant admission category	Total with income	111,970	106,690	105,040	107,850	120,970	108,560	116,550	116,360	128,815	136,900	
							Dollars					
	Median with income	19,100	20,200	19,500	19,700	20,500	21,100	21,900	22,400	24,800	25,400	
		Persons										
Immigrants sponsored by	Total count	58,275	56,260	56,470	56,510	51,265	47,810	55,395	65,400	53,010	51,670	
	Total with income	38,180	36,985	34,825	33,790	31,465	28,900	31,580	34,685	31,690	31,695	
family						[	Dollars					
	Median with income	17,400	18,000	16,500	16,400	16,700	17,200	17,100	17,200	18,700	19,500	



## Next steps and upcoming developments

### Enhanced website presence

- Portal dedicated to immigration statistics with focus on IMDB
- New tables to better address emerging needs of provinces and other stakeholders
  - Asylum seekers, international students, and temporary foreign workers
  - Citizenship and pre-admission experience
  - More outcomes at lower levels of geography
  - Immigrant families and children
- Increased use of data visualization
- Expanded universe to cover immigrants since 1952
- Connections between the IMDB and other data sources



# **December 2019 release: Coverage**

- Immigrants admitted since 1952
  - 1952-79 limited immigration variables
- Tax files of non-permanent residents
- 2018 IMDB
  - 2018 permits of permanent and non-permanent residents
  - 2017 tax records





# **December 2019 release: Products**

- "The Daily"
  - Highlights of economic outcomes and inter-provincial migration
- Tables
  - Incomes of permanent and non-permanent residents and interprovincial migration
  - New outcomes: Knowledge of official language, incidence of sources of income (e.g: social assistance, employment...)
- Interactive applications
  - Income trajectories, inter-provincial migration
- Immigration Hub: statcan.ca/immigration-e and statcan.ca/immigration-f
  - Feedback on content are welcomed!







### Longitudinal Immigration Database (IMDB): Interactive app

Release date: April 16, 2019

More information

Data

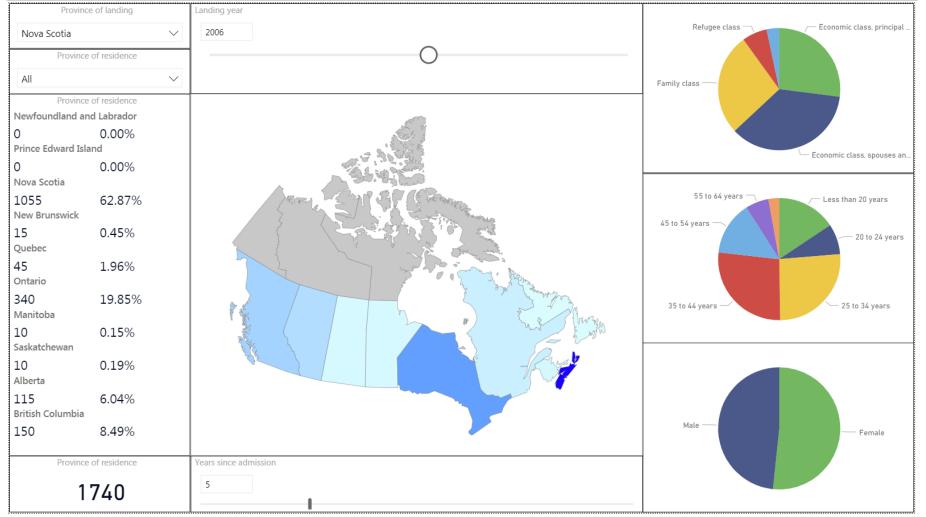


English: <u>https://www150.statcan.gc.ca/n1/pub/71-607-x/71-607-x2019003-eng.htm</u> French: https://www150.statcan.gc.ca/n1/pub/71-607-x/71-607-x2019003-fra.htm





### **Interprovincial Migration: Interactive Application**









- 2 releases are planned
  - January and March
- More interactive tools
- Sub-provincial data
- Family and children outcomes
- 2018 wages





# How to get access to the RDC?

Statistics Statistics Canada Cana			Search	website	França		
ubjects Data Analysis	Reference Geogr	aphy Census program	Surveys and statistical programs 🛩	About StatCan	Canada.c		
ome → The Research Data Centre	s Program → Applicat	ion process and guidelines					
The Research Data Centres (RDC) Program	Applica	tion process	and guidelines				
The RDC network		ss and guidelines are based at a Research Data Centre.	on the affiliation of the Principal Investig	pator and the type of	research		
The FRDC	Based on the des	criptions of the type of resea	irch project below, researchers may draf	t a proposal as part	of their		
Application process and	Research Data C	entres (RDCs) Application.					
guidelines	Applicatio	n process for ac	ademic researchers				
Data available in the RDCs							
RDC projects and publications	Type of research -	Description					
Conferences	academic						
FAQ	Faculty research (non- student)		ted by a faculty member or staff of a Ca s not funded by a federal, provincial or te				
Other Microdata Access Programs	Masters or doctoral	A research project conducted by a student of a Canadian post-secondary institution. The project forms an integral part of thesis or dissertation work that is not funded by a federal, provincial or territorial government department.					
Biobank	(students)						
Data Liberation Initiative (DLI)	Program of	A series of academic projects linked by a common theme; often funded by a large research grant for a program of research					
The Real Time Remote Access	research (academic)						
(RTRA) system	Academic course	A course designed to teach graduate level students methodology related to complex su analysis.					
Research Tools	Unaffiliated		for academic projects conducted by a re-				
How to Cite Statistics Canada	academic research	academic institution that is (CRDCN).	s not a member of the Canadian Resear	ch Data Centre Net	work		



- On average, researchers can be granted access to data already in the Research Data Centre (RDC) within 2 months.
- No fees for student research projects.
- Generally no fees for academic researchers from participating institutions.
- Access is now easier for Provincial and Territorial Government researchers.





# **IRCC-Statistics Canada collaboration**

- IRCC and Statistics Canada's collaboration led to various **enhancements** and **linkages** between the IMDB and other data sources (e.g. Census, GSS).
- In addition, IRCC and the provinces funded the access of these **datasets in the RDCs** for a broader access to the research community.
  - This collaboration aims to facilitate access and research to immigration, settlement and citizenship information
- If you wish to contact IRCC regarding your research, please e-mail: IRCC.REKMPPartnerships-PartenariatsMCPDGRE.IRCC@cic.gc.ca





For more information, please visit <u>www.statcan.gc.ca</u>

or contact: SASD Client Services / DSSEA Service à clientèle (STATCAN) <u>statcan.sasdclientservices-</u> <u>dsseaserviceaclientele.statcan@canada.ca</u>



### #StatCan100







### **External data integration to the IMDB**

- Longitudinal Survey of Immigrants to Canada (LSIC)
  - Tailored design that allows targeted analysis
  - Study of a single cohort (2000/01) of immigrants over time
  - Sample data designed with 3 waves
  - Covers up to 4 years of data
- Longitudinal Administrative Databank (LAD)
  - Same characteristics and design as the IMDB
  - Includes immigrant and Canadian-born information
  - 20% sample
- IMDB-DAD (Discharge Abstract Database)
- IMDB-CCHS (Canadian Community Health survey)
- IMDB-GSS (General Social Survey)
  - C22, Social networks 2008
  - C25, Families 2011

