

IMDB INTERACTIVE WORKSHOP

September 26 2022

Goals & Focus

Goals: At the end of the session, we will:

- I. Understand the basic structure and contents of the IMDB dataset
- II. Develop ideas on how the IMDB data can be used in the planning/evaluation of service provision
- III. Become able to generate tables/charts based on publicly available data
- IV. Learn availability and limitation of other data relevant for settlement service planning

Focus:

Instruction will be based on practical examples relating to services for refugees; however, they can be applied to generate data on outcomes for other immigrants.

I: IMDB background

IMDB - What is it?

The Longitudinal Immigration Database (IMDB) is produced and managed by Statistics Canada on behalf of a consortium led by IRCC and the Provincial partners.

The IMDB links administrative immigrant data from IRCC with annual tax records from CRA.

Updated annually, the 2020 IMDB includes:

- **Integrated Permanent & Non-Permanent Resident File (PNRF): 1952-1979/1980-2020**
- Non-Permanent Resident File:
1980-2020
- Express Entry File: 2015-2020
- PNRF_CHILD_1980-2019
- **T1FF Tax files: 1982-2019**
- T4 Supplemental Tax file: 1997-2020
- Settlement services module (ICARE data): 2013 -

For more information, see the IMDB Technical Report (2020)

- <https://www150.statcan.gc.ca/n1/pub/11-633-x/11-633-x2021008-eng.htm> (English)
- <https://www150.statcan.gc.ca/n1/pub/11-633-x/11-633-x2021008-fra.htm> (French)

IMDB linkages

Permanent & Non-Permanent Resident File (PNRF)

- Landing Year
- Landing Month
- Immigration category
- Landing Age
- Marital status
- Destination Province
- Country of Citizenship
- Knowledge of official language
- Education at admission

T1FF Tax File

Tax File 1982

- Employment income in 1982
- Self-employment in 1982
- Government Transfers in 1982
- Place of residence in 1982
- ...

Tax File 1983

- Employment income in 1983
- Self-employment in 1983
- Government Transfers in 1983
- Place of residence in 1983
- ...

Tax File 2020

- Employment income in 2020
- Self-employment in 2020
- Government Transfers in 2020
- Place of residence in 2020
- ...

II: How can we use the data?

1. As baseline information

- How do your clients' characteristics (e.g., sex, socioeconomic and linguistic background, age, and family composition) compare to the overall Province?
- How does the rate of GARs and PSRs who receive employment income in one jurisdiction compare to the Provincial level outcomes?
- How does it compare to the economic outcomes of their counterparts in other jurisdictions or previous cohorts?

2. Follow the trends over time

- Are refugees moving in/out of the initial province over time?
- RAP Dashboard offers outcomes of RAP clients after 12 months. But how are they doing after that period?

3. Compare before and after

- **In late 2015 and early 2016, a cohort of Syrian Refugees arrived in Canada. There were various changes in the resettlement practices. What could be an impact of those changes?**
- **E.g. Are they more likely to stay in the initial province of resettlement?**

III: Exploring the IMDB Interactive APP

IMDB Interactive APP - Mobility

Data products (Statistics Canada)

www.statcan.gc.ca/immigration-e

(English)

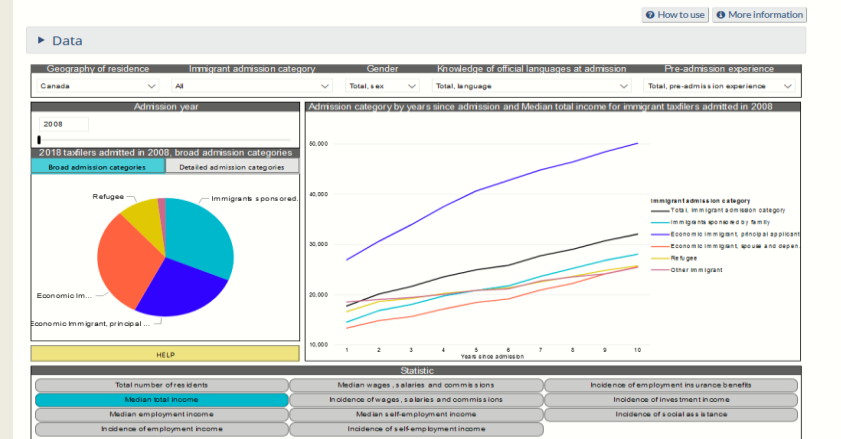
www.statcan.gc.ca/immigration-f (French)

→ Data visualization products: Interactive Application

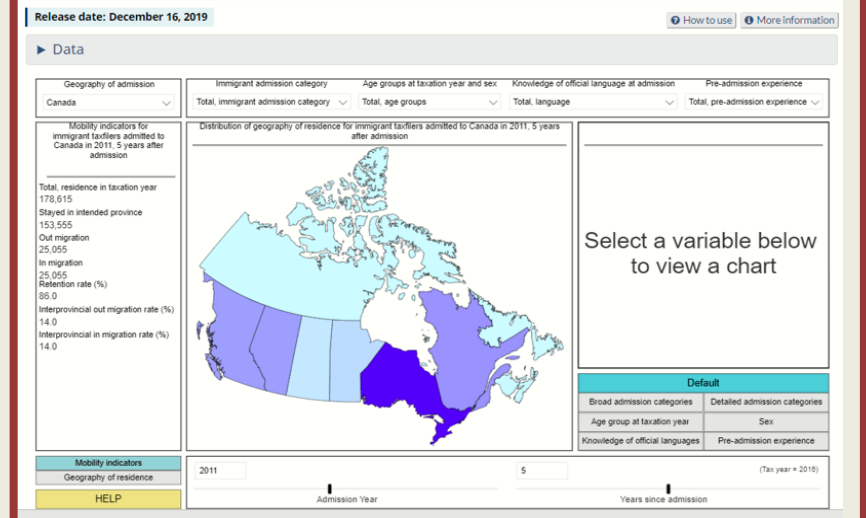
- Economic Outcomes

- Mobility

Longitudinal Immigration Database (IMDB) Interactive Application: Economic Outcomes



Longitudinal Immigration Database (IMDB) Interactive Application: Mobility



Retention rate – How is it calculated?

Retention rates:

- % of newcomer tax filers continuing to file their taxes in their province of destination.

Key information needed for the calculation of the retention rates:

1. Year of admission --- YYYY
2. Year since admission ---t
3. Place of Destination admitted (P)
4. Select specific group of newcomers

How to generate retention rates on the APP?

The screenshot shows the APP interface with the following elements:

- 3** (Red circle): Retention rate (%) 78.1 in the Mobility indicators table.
- 4** (Blue circle): Government-assisted refugee in the Immigrant admission category dropdown.
- 1** (Blue circle): A map of Canada with New Brunswick highlighted in blue.
- 2** (Purple circle): The 'Years since admission' slider set to 3.

Default	
Broad admission categories	Detailed admission categories
Age group at taxation year	Sex
Knowledge of official languages	Pre-admission experience

Mobility indicators for immigrant taxfilers admitted to New Brunswick in 2016, 3 years after admission	
Total, residence in taxation year	610
Stayed in intended province	570
Out migration	160
In migration	10
Retention rate (%)	78.1
Interprovincial out migration rate (%)	21.9
Interprovincial in migration rate (%)	5.5

Key information needed for the calculation of the retention rates:

1. Year of admission --- YYYY
2. Year since admission ---t
3. Place of Destination admitted (P)
4. Select specific group of newcomers

Example: 3 year retention of GARs who were admitted in NB in 2016

Retention rate – Analyzing data

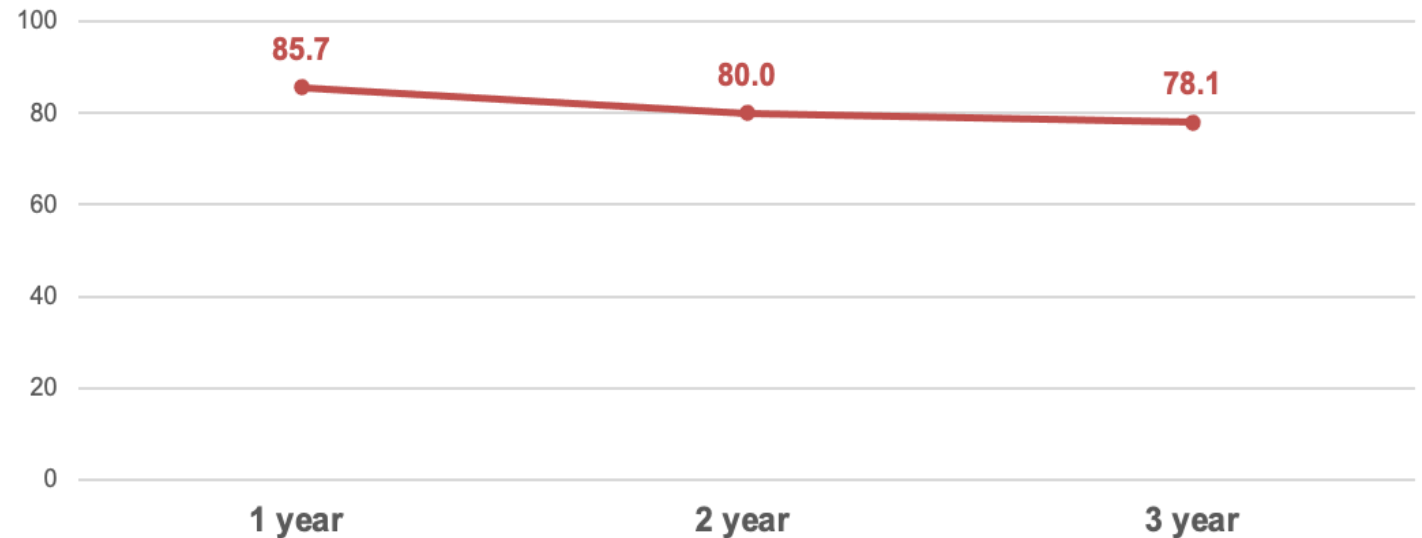
Data analysis involves the combination and presentation of relevant data

Example: What are the 1, 2, and 3-year retention rates of GARs who were admitted to NB in 2016?

Retention Rates of GARs who were admitted to NB in 2016

	1 year	2 year	3 year
GARs	85.7	80.0	78.1

Retention rates for GARs admitted to NB in 2016



Retention rate – Analyzing Data

Data analysis involves the combination and presentation of relevant data

Find out the 1, 2, and 3-year retention rates for GARs & PSRs who were admitted in 2016 to NB, NL, NS, and PEI

Retention Rates of GARs and PSRs who were admitted to the Atlantic Provinces in 2016

	NB			NL			NS			PEI		
	1 year	2 year	3 year	1 year	2 year	3 year	1 year	2 year	3 year	1 year	2 year	3 year
GARs												
PSRs												

Also, find out which provinces refugees admitted to the Atlantic Provinces move?

IMDB Interactive APP - Economic Outcomes

Data products (Statistics Canada)

www.statcan.gc.ca/immigration-e

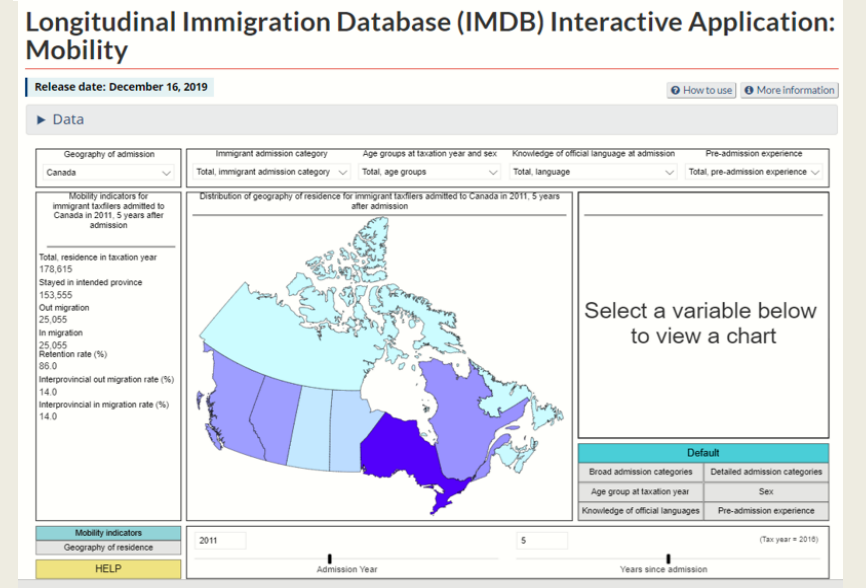
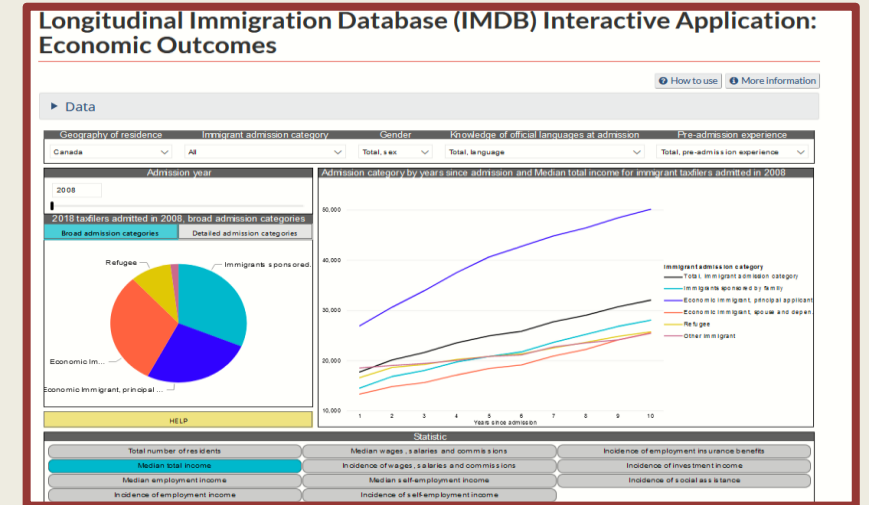
(English)

www.statcan.gc.ca/immigration-f (French)

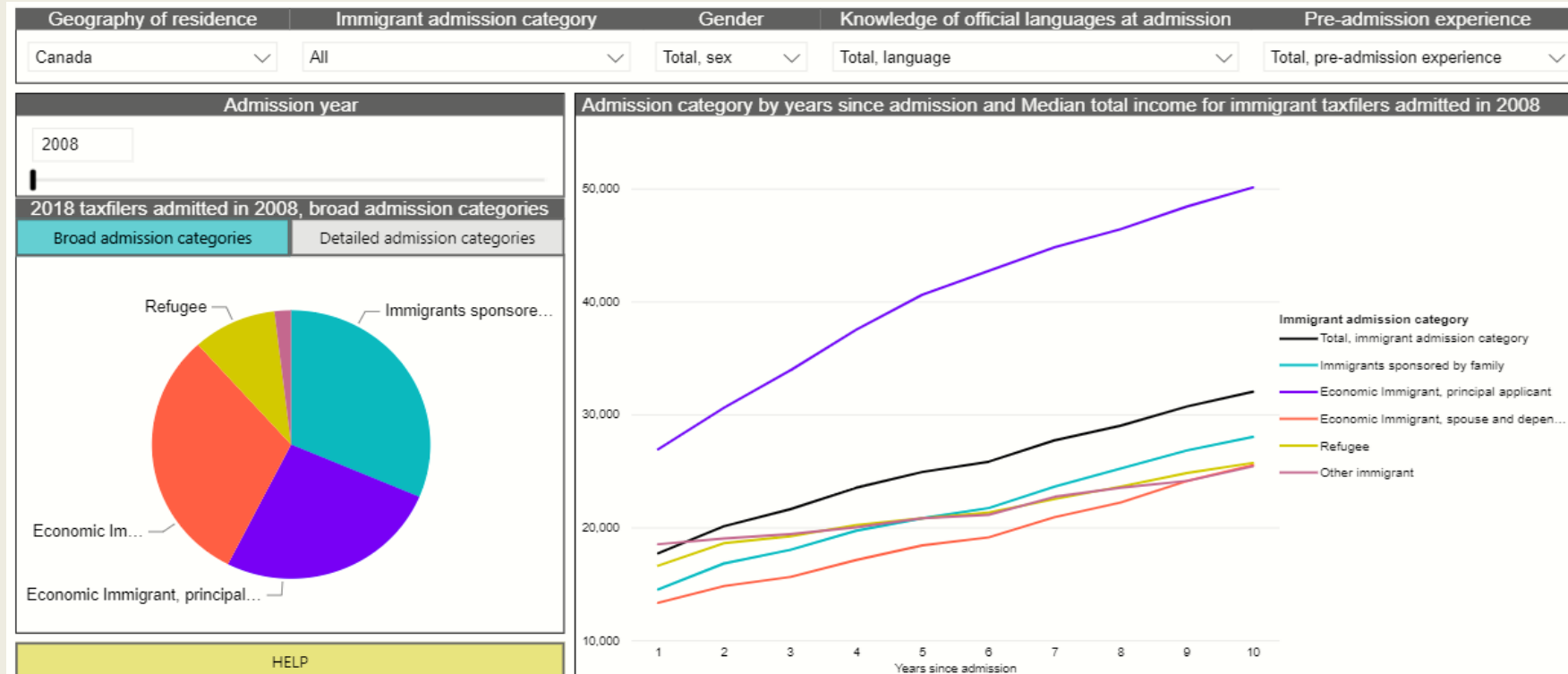
→ Data visualization products: Interactive Application

Economic Outcomes

Mobility



Interactive App: Economic Outcomes



Statistic		
Total number of residents	Median wages, salaries and commissions	Incidence of employment insurance benefits
Median total income	Incidence of wages, salaries and commissions	Incidence of investment income
Median employment income	Median self-employment income	Incidence of social assistance
Incidence of employment income	Incidence of self-employment income	

Measures of economic outcomes

Which outcomes to examine, when...?

Total Income:

Median/Incidence

Employment Income:

Median/Incidence

Wages, salaries and commissions:

Median/Incidence

Self-employment income:

Median/Incidence

EI/Social Assistance:

Incidence

..., when we want to know % of refugees who have reported earnings by working for an employer?

..., when we want to know the financial conditions of refugees?

..., when we want to know if employment income is increasing for refugees over time?

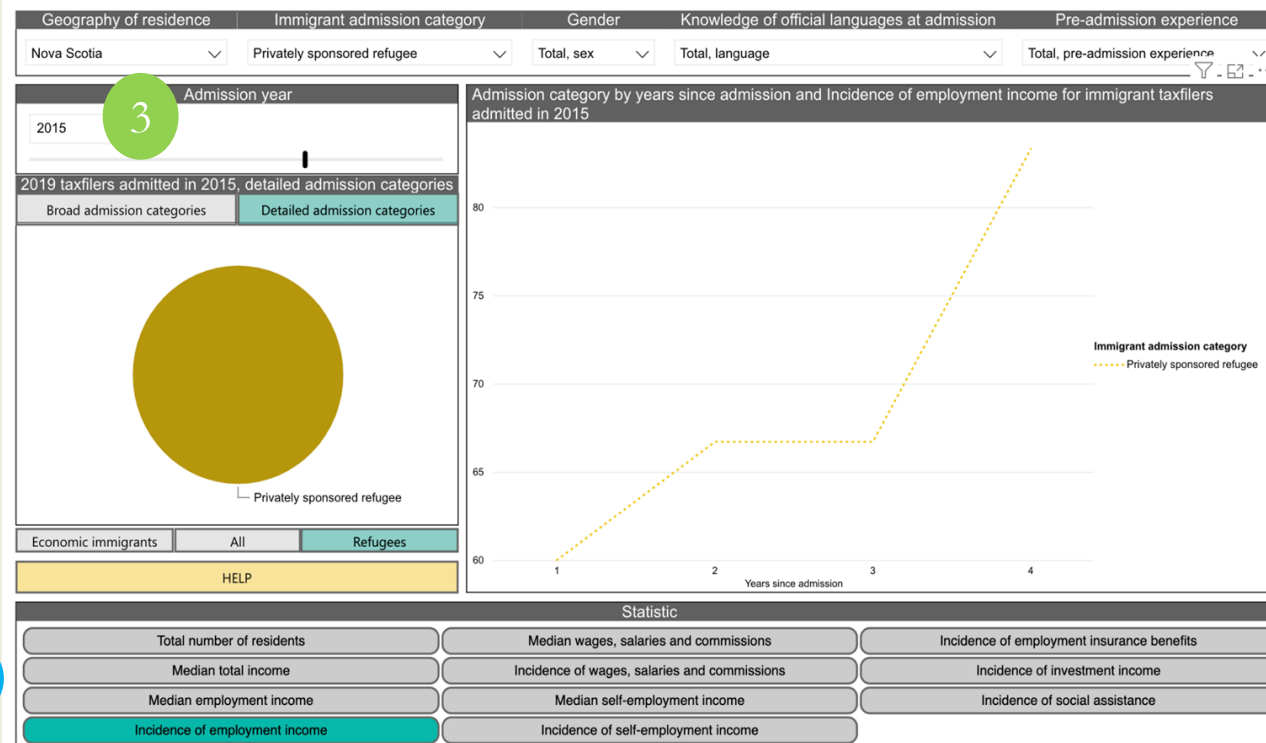
Caution: Not reporting earnings does not mean “unemployed”

How to generate economic outcomes?

Example: Incidence of Employment Income (%) among PSRs who were admitted in 2015 to NS.

2

1



1. Select **specific group of newcomers**

Select “**Detailed admission categories**” then select **specific groups**

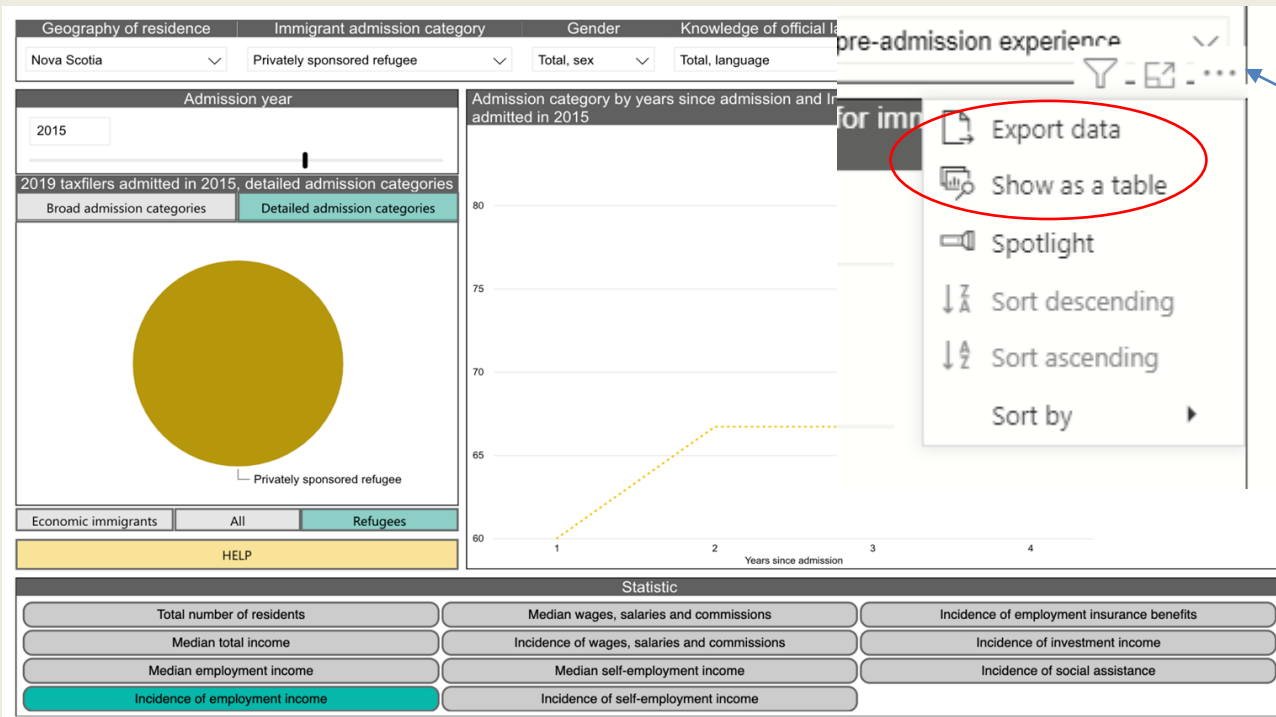
2. Geography of residence: **Province (or Canada)**

3. Year of admission: **YYYY**

4. Select the **outcome measure**

How to generate economic outcomes?

Example: Incidence of Employment Income (%) among PSRs who were admitted in 2015 to NS.



Specific values can be obtained by pointing the cursor on the line, or select “**Show as a table**” option under “**more option**”

Also, you can download the information included in the chart by selecting “**Export data**”

How to generate economic outcomes?


Example: What is the **Incidence of Employment Income (%)** among PSRs who were admitted in **2015** to **NS**? Are their rates different from other refugee groups?



IV: Other data sources

Themes of interest from the Survey

Q: Please select your top 3 interests for using the IMDB and other data.

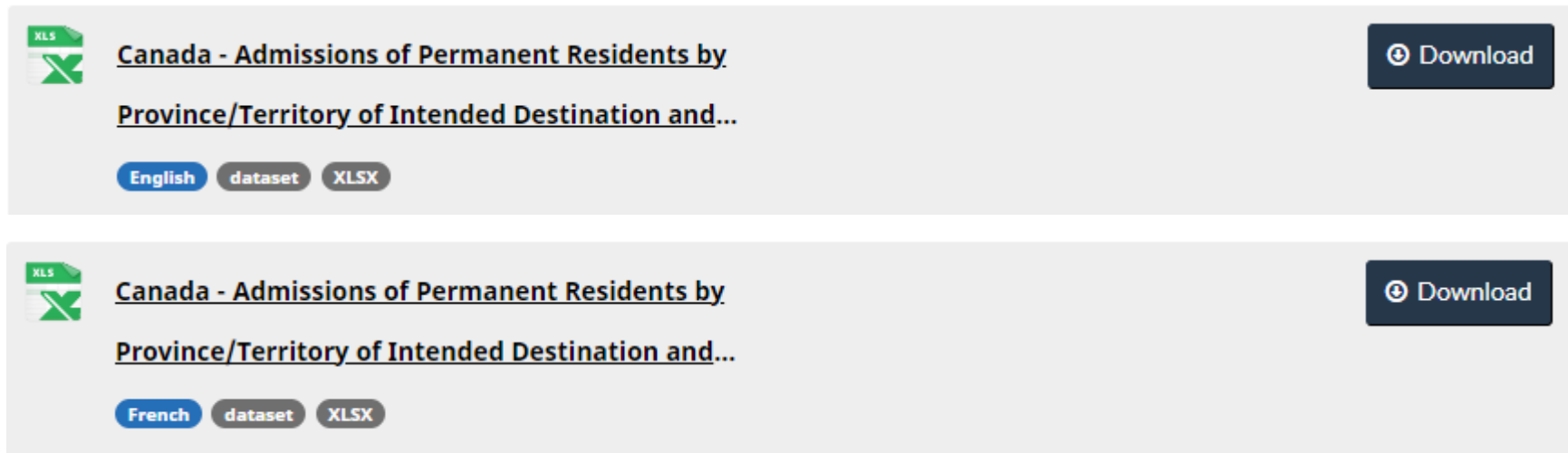
- 1. How many refugees or newcomers are coming to our region and where are they from? (78% of registrants selected this response)**
- 2. What is the level of newcomer retention in the region? (71%)** 
- 3. What are immigrants' skill levels or knowledge of official languages? (60%)**
- 4. What kind of services are refugees receiving? (59%)**
5. Is our community becoming more diverse? (33%)
6. Is the number of Francophone immigrants changing? (22%)
7. What languages do they speak? (21%)
8. Other (3%):
 - What are the three most influential retention factors in the region?
 - Data about international students

1. How many refugees or newcomers are coming to our region and where are they from?

[Open Government Portal:](#)

➔ [“Permanent Residents – Monthly IRCC Updates”](#)

Admissions of Permanent Residents by Province/Territory of Intended Destination and Immigration Category (2015-2022)



The screenshot displays two identical download options for the dataset. Each option includes an XLS icon, the dataset title, a 'Download' button, and language/format tags.

Language	Format	Download Button
English	XLSX	Download
French	XLSX	Download

1. How many refugees or newcomers are coming to our region and where are they from?

Open Government Portal:

➔ “Permanent Residents – Monthly IRCC Updates”

Admissions of Permanent Residents by Province/Territory and Census Metropolitan Area (CMA) of Intended Destination (2015-2022)



Canada - Admissions of Permanent Residents by Province/Territory and Census Metropolitan Area (CMA...

Download

English dataset XLSX



Canada - Admissions of Permanent Residents by Province/Territory and Census Metropolitan Area (CMA...

Download

French dataset XLSX

Other sources:

Statistics Canada: “[Immigrants and non-permanent resident statistics](#)”

Immigrants and non-permanent residents statistics



Bringing together data, tools and reports to provide you with the latest information on immigrants and non-permanent residents in Canada.

Follow:      

Sign up to [My StatCan](#) to get updates in real-time.

Find data on



[Education, training and skills](#)



[Health and well-being of immigrants](#)



[Labour and income](#)



[Language of immigrants](#)

[More related subjects: Immigrants and non-permanent residents](#)

Features



[Retention of government-assisted refugees in designated destinations: Recent trends and the role of destination characteristics](#)

Key indicators | [★ All](#)

indicators

Canada 

[Quarterly population estimate](#)

(April 1, 2022)

38,654,738

0.3% ↑

(quarterly change)

[Immigrants \(%\)](#)

21.9

(2016 Census of Population)

[Number of recent immigrants](#)

(landed between 2011 and 2016)

1. How many refugees or newcomers are coming to our region and where are they from?

Statistics Canada “[Immigrants and non-permanent residents](#)”

→ Search for “Country of citizenship”

→ Type = “Tables”

→ Geography = “Province or territory”

and

“Census Metropolitan area”

The screenshot shows the search results for 'country of citizenship' on the Statistics Canada website. The search filters are: Type = Tables (2), Geography = Province or territory (2) and Census metropolitan area (2), and Survey or statistical program = Census of Population (1) and National Household Survey (1). The results are sorted by relevance and show 10 entries. The first result is '1. Countries of Citizenship (184), Single and Multiple Citizenship Responses (3), Immigrant Status (4) and Sex (3) for the Population in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 Census - 25% Sample Data'. The second result is '2. Countries of Citizenship (178), Single and Multiple Responses for Citizenship (3), Immigrant Status (4), and Sex (3) for Total Population Living in Private Households, Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2011 National Household Survey'.

Filter results by ⓘ

Sort by relevance ▼ Apply ⓘ Show 10 entries Apply

All (2) Data (2) Analysis (0) Reference (0)

1. [Countries of Citizenship \(184\), Single and Multiple Citizenship Responses \(3\), Immigrant Status \(4\) and Sex \(3\) for the Population in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 Census - 25% Sample Data](#)

Table: 98-400-X2016215

Geography: Province or territory, Census metropolitan area, Census agglomeration, Census metropolitan area part, Census agglomeration part

Description: This table presents countries of citizenship, single and multiple citizenship responses, immigrant status and sex for the population in private households of Canada, provinces and...

[More](#)

Release date: 2018-03-28

2. [Countries of Citizenship \(178\), Single and Multiple Responses for Citizenship \(3\), Immigrant Status \(4\), and Sex \(3\) for Total Population Living in Private Households, Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2011 National Household Survey](#) Archived

Table: 99-010-X2011035

Geography: Province or territory, Census metropolitan area, Census agglomeration, Census metropolitan area part, Census agglomeration part

Description: This table presents a cross-tabulation of data from the National Household Survey using selected characteristics of the following variables: Immigration, Citizenship, Place of birth...

1. How many refugees or newcomers are coming to our region and where are they from?

- [Data tables, 2016 Census: Countries of Citizenship \(184\), Single and Multiple Citizenship Responses \(3\), Immigrant Status \(4\), and Sex \(3\) for the Population in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 Census - 25% Sample Data](#)

Caution:

They are residents in the selected geography in Census 2016

There is no information about year of landing

Data tables, 2016 Census

Countries of Citizenship (184), Single and Multiple Citizenship Responses (3), Immigrant Status (4), and Sex (3) for the Population in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 Census - 25% Sample Data

About | Data table | Map | Download | Related data

Data table

Select data categories for this table

Geography → Geographic index | Immigrant status (4) 1

Newfoundland and Labrador / Terre-Neuve-et-Labrador | Immigrants

Sex (3)

Total - Sex | Submit

Newfoundland and Labrador / Terre-Neuve-et-Labrador
Data quality

Countries of citizenship (184)	Single and multiple citizenship responses (3)		
	Total - Single and multiple citizenship responses 2	Single citizenship responses 3	Multiple citizenship responses 4
Total - Countries of citizenship 5	12,080	10,225	1,850
Canada	6,750	4,980	1,775
China, People's Republic of 6	340	335	10
India	175	165	15
United States 7	1,110	745	365
Philippines	630	585	45
United Kingdom - British citizen 8	1,260	670	585

3. What are immigrants' skill levels or knowledge of official languages?

Statistics Canada: “[Immigrants and non-permanent resident statistics](#)”

Immigrants and non-permanent residents statistics



Bringing together data, tools and reports to provide you with the latest information on immigrants and non-permanent residents in Canada.

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Find data on

- [Education, training and skills](#)
- [Health and well-being of immigrants](#)
- [Labour and income](#)
- [Language of immigrants](#)

[More related subjects: Immigrants and non-permanent residents](#)

Features

A decorative graphic consisting of several overlapping, colorful loops in shades of blue, green, yellow, and red, resembling a stylized atom or a network diagram.

[Retention of government-assisted refugees in designated destinations: Recent trends and the role of destination characteristics](#)

Key indicators | [★ All indicators](#)

Canada

[Quarterly population estimate](#)
(April 1, 2022)

38,654,738
0.3% ↑
(quarterly change)

[Immigrants \(%\)](#) **21.9**
(2016 Census of Population)

[Number of recent immigrants](#)
(landed between 2011 and 2016)

3. What are immigrants' skill levels or knowledge of official languages?

Statistics Canada “[Education, Training, and Skills](#)”

→ Type = “Tables”

→ Geography = “Census Metropolitan area”

→ Survey or statistical program
= Census of Population

The screenshot shows the Statistics Canada website interface. At the top, there is a search bar and navigation tabs for Subjects, Data, Analysis, Reference, Geography, Census, Surveys and statistical programs, About StatCan, and Canada.ca. The breadcrumb trail indicates the path: Home > Subjects > Immigration and ethnocultural diversity > Immigrants and non-permanent residents. The main heading is 'Education, training and skills'. Below this, there are filters for 'Filter results by' (All (82), Data (35), Analysis (47), Reference (0)), 'Sort by' (date), and 'Show' (10 entries). A search box for 'Keyword(s)' is also present. The left sidebar lists categories: Type (Data: Tables (34), Public use microdata (1); Analysis: Stats in brief (10), Articles and reports (37); Geography: Province or territory (30), Census metropolitan area (21), Census metropolitan area part (21), Canada (19), Census agglomeration (17); Survey or statistical program: Adult Education and Training Survey (1), Canadian Employer-Employee Dynamics Database (1), Census of Population (22), Labour Force Survey (1), Longitudinal Immigration Database (2)). The main content area displays three search results, each with a title, description, and release date. The first result is 'International students as a source of labour supply: Pre-immigration study in Canada and post-immigration earnings' (Release date: 2022-02-23). The second is 'Transition to permanent residency by lower- and higher-skilled temporary foreign workers' (Release date: 2022-01-26). The third is 'Postsecondary enrolments, by status of student in Canada, country of citizenship and Classification of Instructional Programs, STEM and BHASE groupings' (Table: 37-10-0184-01, Geography: Canada, Geographical region of Canada, Province or territory).

3. What are immigrants' skill levels or knowledge of official languages?

- [Data tables, 2016 Census: First Official Language Spoken \(7\), Occupation - National Occupational Classification \(NOC\) 2016 \(691\), Highest Certificate, Diploma or Degree \(15\) and Immigrant Status and Period of Immigration \(11\) for the Population Aged 15 Years and Over Who Worked Since 2015, in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 Census - 25% Sample Data](#)

Select:

- Geography
- Immigrant status & period of immigration

Data tables, 2016 Census

First Official Language Spoken (7), Occupation - National Occupational Classification (NOC) 2016 (691), Highest Certificate, Diploma or Degree (15) and Immigrant Status and Period of Immigration (11) for the Population Aged 15 Years and Over Who Worked Since 2015, in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 Census - 25% Sample Data

[About](#) | [Data table](#) | [Map](#) | [Download](#) | [Related data](#)

Data table

Select data categories for this table

Geography → [Geographic index](#) | Highest certificate, diploma or degree (15) [1](#)

Newfoundland and Labrador / Terre-Neuve-et-Labrador | Total - Highest certificate, diploma or degree

Immigrant status and period of immigration (11) [2](#)

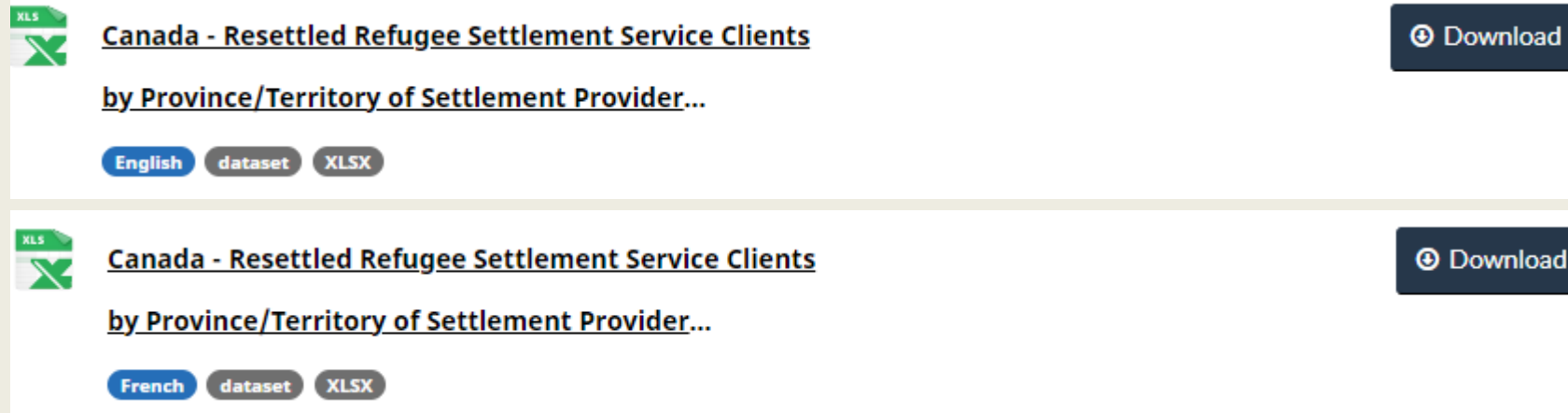
2011 to 2016 | [Submit](#)

Newfoundland and Labrador / Terre-Neuve-et-Labrador								
Data quality								
	First official language spoken (7)						Official language minority (number) 3	Official language minority (percentage) 4
	Total - First official language spoken	English	French	English and French	Neither English nor French			
Occupation - National Occupational Classification (NOC) 2016 (691)								
Total - Occupation - National Occupational Classification (NOC) 2016 5	2,100	1,965	55	45	35	75	3.6	
0 Management occupations	110	100	0	0	10	0	0.0	
00 Senior management occupations	0	0	0	0	0	0	...	
001 Legislators and senior management	0	0	0	0	0	0	...	
0011 Legislators	0	0	0	0	0	0	...	
0012 Senior government managers and officials	0	0	0	0	0	0	...	
0013 Senior managers - financial,								

4. What kind of services are refugees receiving?

[Open Government Portal:](#)

→ [“Resettled Refugees – Monthly IRCC Updates”](#)



The screenshot displays two search results for the dataset 'Canada - Resettled Refugee Settlement Service Clients'. Each result includes an XLS icon, the dataset title, a subtitle 'by Province/Territory of Settlement Provider...', and a 'Download' button. The first result is in English and the second is in French. Both are identified as 'dataset' files in 'XLSX' format.

Language	Dataset Name	Format	Action
English	Canada - Resettled Refugee Settlement Service Clients by Province/Territory of Settlement Provider...	XLSX	Download
French	Canada - Resettled Refugee Settlement Service Clients by Province/Territory of Settlement Provider...	XLSX	Download

V: Summary

Summary

The Interactive App provides information on retention rates and economic outcome measures

- Retention rates are based on admission year, year since admission, place of initial admission and place of residence in tax file
- Various income measures (Total, Employment, Self-Employment, Investment)

The App allows users to generate these outcomes for specific groups based on:

- Admission year
- Admission category
- Sex
- Knowledge of official languages at admission
- Pre-landing experience
- Provinces/Territories and Canada

Summary (Cont'd)

Potential Use of IMDB data

- **Baseline information (as proxy)** to situate an outcome of specific client base
- **Long-term records** allow use to track the specific cohort/groups of refugee clients' economic outcomes over time.
- **Comparing the retention rates and economic outcomes from different backgrounds** (i.e. language skills) can offer information about the importance of services
- **Comparing the specific cohorts of refugees** can signal the impact of events (i.e. changes in practices, policies) that occurred in a specific year.

Summary (Cont'd)

Other sources of data

- [Open Government Portal](#) (IRCC data)
- Statistics Canada: [“Immigrants and non-permanent resident statistics”](#)
- Different sources of data have different ways of counting “immigrants”. Pay attention to:
 - “Admission” and “Intended destination” in administrative records
 - “Skills” reported in Census is based on the status at the time of the Census

Questions?

Contacts

For clarification about the contents of this workshop, contact the instructors

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About the CYRRC, visit <https://cyrrc.org/>