The Education and Labour Market Longitudinal Platform (ELMLP) and Community Data

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Canadian Centre for Education Statistics

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Canada

What we'll cover

1. Overview of the Education and Labour Market Longitudinal Platform (ELMLP)
2. Possibilities for community level data
3. Questions

What is the Education and Labour Market Longitudinal Platform (ELMLP)?

- An environment that allows the integration of anonymized variables from core education-related administrative sources with those from other selected datasets.

- Access to longitudinal cohort analysis for a better understanding of student pathways through the postsecondary education system and the impact of education and training on career prospects in term of earnings.

- Does not contain any personal identifiers. Anonymous linkage keys are created using the Social Data Linkage Environment (SDLE).

- Is not a large integrated dataset, but rather a relational data environment.

Commitment to data security

- As part of our mandate, guaranteeing the security of sensitive statistical information within Statistics Canada is a top priority.

- We deploy state-of-the-art tools and processes that prevent disclosure and ensure the confidentiality and privacy of individual data.

- Only aggregate non-confidential data are released outside of Statistics Canada.

Core Files of the ELMLP

The core files (the "body") of the ELMLP are the "Postsecondary Student Information System" (PSIS), the "Registered Apprenticeship Information System " (RAIS) and the "T1 Family File" (T1FF).

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Core Files- PSIS (2009/10 onwards)

Postsecondary Student Information System

- PSIS is a national administrative survey on enrolments and graduates of Canadian public postsecondary institutions

- PSIS collects information pertaining to the programs and courses offered at an institution, as well as information regarding the students themselves

- This information is available from the PSIS cross-sectional files. With the ELMLP these files can be linked longitudinally.

Core Files- RAIS (2008 onwards)

Registered Apprenticeship Information System

- The RAIS compiles data on the number of registered apprentices taking in-class and/or on-the-job training in trades that are either Red Seal or non-Red Seal and where apprenticeship training is either compulsory or voluntary.

- It also compiles data on the number of provincial and interprovincial certificates granted to apprentices or trade qualifiers (challengers).

Core Files- T1FF (1992 onwards)

T1 Family File

- The T1FF is a source of data on income, tax credits, and deductions for individuals who have completed a T1 tax return and their dependants.

- The T1FF that is part of the ELMLP "core files" is a T1FF limited to the population of PSIS and RAIS. Thus, to be found in the T1FF of the core files, an individual must be in the PSIS or RAIS database for at least one reference year.
  - The ELMLP contains other T1FF files that represent other populations (for example, a T1FF representing elementary and secondary students in British Columbia).

- The number of tax records is not limited to the number of years an individual was in school. All their available tax records from 1992 onward will be included in the PSIS-RAIS-T1FF file as long as they are found in PSIS or RAIS for at least one year.

ELMLP

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Canada

ELMLP

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1
(PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
- National Apprenticeship Survey 2015 (NAS; RAIS only)†
- Emergency and Recovery Benefits (ERB)
- Employment Insurance Status Vector (EISV)
- Survey of Approaches to Educational Planning 2020 (SAEP)†

Supplementary files – Type 2 (microdata)

- National Graduates Survey 2023 (NGS; PSIS only)†
- Canada Apprentice Loans (CAL)
- Apprenticeship Grants (AG)
- Canada Student Financial Assistance Program (CSFA)
- Canada Education Savings Program (CESP)
- BC Kindergarten to Grade 12 (BC K-12)
- Parental income variant for PSIS-RAIS-T1FF
- Specialized T1FF outcome files
- Ontario Grade 9-12 (ON 9-12)
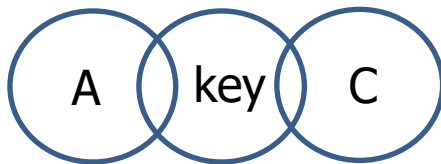
†sampled

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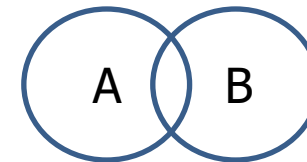# Integrating data files within the ELMLP: Two ways

Type 1: Integrate File A with File C using a concordance key file that contains matched anonymized ID variables from each of the two files.

For example, PSIS and Census 2016 use different ID variables. The PSIS-RAIS-Census 2016 concordance key file allows the two files to be integrated.

Type 2: Integrate File A with File B using an anonymized ID variable that is present on both files (Register_Group_ID).

For example, PSIS and PSIS-RAIS-T1FF files both have the ID variable Register_Group_ID. It is possible to integrate these two files without a separate concordance key file.

A | key | C

A | B

The three Core Files do not need a concordance key file to be integrated.

Supplementary files: Type 1 (PSIS-RAIS concordance key files)

- Used for integrating PSIS and RAIS with other Statistics Canada data files
- Population covers individuals found in PSIS, RAIS or both
- Data users must request the microdata files, plus the concordance key. For example: PSIS, the 2016 Census microdata, and the PSIS-RAIS-Census 2016 key

Census of Population (2016, 2021)

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

**Supplementary files – Type 1
(PSIS-RAIS concordance keys)**

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- Census of Population 2021 (long-form) †
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Bonus files!
- Alternative weights for Census 2016 and Census 2021

†sampled

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Longitudinal Administrative Databank (1982 to 2022)

Core files

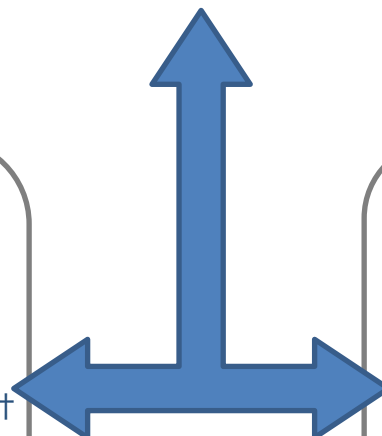| Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

*Supplementary files – Type 1
(PSIS-RAIS concordance keys)*

Supplementary files – Type 2 (microdata)

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- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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Note: the LAD is useful for creating control groups of people not in PSIS or RAIS!

†sampled

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Longitudinal Immigration Database (1980 to 2023)

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

Supplementary files – Type 2 (microdata)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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†sampled

National Graduates Survey (2018 and 2023)

Core files

| Postsecondary Student Information System (PSIS) | Registered Apprenticeship Information System (RAIS) | T1 Family File tax data |

Supplementary files – Type 1
(PSIS-RAIS concordance keys)

Supplementary files – Type 2 (microdata)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
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Note: the 2018 NGS data require a separate concordance key file to merge, but the 2023 NGS data do not

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National Apprenticeship Survey (2015)

Core files

| Postsecondary Student Information System (PSIS) | Registered Apprenticeship Information System (RAIS) | T1 Family File tax data |

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
- National Apprenticeship Survey 2015 (NAS; RAIS only)†
- Emergency and Recovery Benefits (ERB)
- Employment Insurance Status Vector (EISV)
- Survey of Approaches to Educational Planning 2020 (SAEP)†

Supplementary files – Type 2 (microdata)

- National Graduates Survey 2023 (NGS; PSIS only)†
- Canada Apprentice Loans (CAL)
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- Parental income variant for PSIS-RAIS-T1FF
- Specialized T1FF outcome files
- Ontario Grade 9-12 (ON 9-12)

†sampled

Emergency and Recovery Benefits (March to September 2020; CERB only)

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
- National Apprenticeship Survey 2015 (NAS; RAIS only)†
- Emergency and Recovery Benefits (ERB)
- Employment Insurance Status Vector (EISV)
- Survey of Approaches to Educational Planning 2020 (SAEP)†

Supplementary files – Type 2 (microdata)

- National Graduates Survey 2023 (NGS; PSIS only)†
- Canada Apprentice Loans (CAL)
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- BC Kindergarten to Grade 12 (BC K-12)
- Parental income variant for PSIS-RAIS-T1FF
- Specialized T1FF outcome files
- Ontario Grade 9-12 (ON 9-12)

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Employment Insurance Status Vector (2007 to 2022)

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
- National Apprenticeship Survey 2015 (NAS; RAIS only)†
- Emergency and Recovery Benefits (ERB)
- Employment Insurance Status Vector (EISV)
- Survey of Approaches to Educational Planning 2020 (SAEP)†

Supplementary files – Type 2 (microdata)

- National Graduates Survey 2023 (NGS; PSIS only)†
- Canada Apprentice Loans (CAL)
- Apprenticeship Grants (AG)
- Canada Student Financial Assistance Program (CSFA)
- Canada Education Savings Program (CESP)
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- Specialized T1FF outcome files
- Ontario Grade 9-12 (ON 9-12)

†sampled

Survey of Approaches to Educational Planning (2020)

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

*Supplementary files – Type 1
(PSIS-RAIS concordance keys)*

Supplementary files – Type 2 (microdata)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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- Apprenticeship Grants (AG)
- Canada Student Financial Assistance Program (CSFA)
- Canada Education Savings Program (CESP)
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- Specialized T1FF outcome files
- Ontario Grade 9-12 (ON 9-12)

Note: children were between 0 and 17 years old at the time of the survey, so integration with PSIS-RAIS is limited at this time

†sampled

Supplementary files: Type 2 (microdata)

- Data files generally provided by external organizations (ESDC, provincial ministries)
- Anonymized key is built-in to the microdata file for integrating with PSIS, RAIS
- Many have specialized T1FF files or concordance key files that include **all persons** in the microdata file, regardless of whether they are in PSIS or RAIS

Canada Apprentice Loans (2015 to 2024)

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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- BC Kindergarten to Grade 12 (BC K-12)
- Parental income variant for PSIS-RAIS-T1FF
- Specialized T1FF outcome files
- Ontario Grade 9-12 (ON 9-12)

†sampled

Apprenticeship Grants (2007 to 2024)

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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Supplementary files – Type 2 (microdata)

- National Graduates Survey 2023 (NGS; PSIS only)†
- Canada Apprentice Loans (CAL)
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- Canada Education Savings Program (CESP)
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Canada Student Financial Assistance Program (2009/2010 to 2021/2022)

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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- Specialized T1FF outcome files
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†sampled

Canada Education Savings Program (1998 to 2023)

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
- National Apprenticeship Survey 2015 (NAS; RAIS only)†
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- Ontario Grade 9-12 (ON 9-12)

Note: the T1FF files, Census and LAD concordance keys for CESP include beneficiaries, subscribers and primary caregivers

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British Columbia Kindergarten to Grade 12 (1991/1992 to 2021/2022)

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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Bonus files!
- Select years of T1FF data for parents of BC students
- Census 2016 concordance key for parents
- Records of Employment concordance key for students and parents

†sampled

Parental income variant of PSIS-RAIS-T1FF (1992 onwards)

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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Note: derives variables from parental income information in the PSIS-RAIS-T1FF to make analysis easier. Best for use in years when students filed a tax return for themselves, at their parent(s)' residence.

†sampled

Ontario Grade 9-12 (2009/2010 to 2021/2022)

Core files

Postsecondary Student Information System (PSIS)	Registered Apprenticeship Information System (RAIS)	T1 Family File tax data

Supplementary files – Type 1 (PSIS-RAIS concordance keys)

- Census of Population 2016 (long-form) †
- Census of Population 2021 (long-form) †
- Longitudinal Administrative Databank (LAD)†
- Longitudinal Immigration Database (IMDB)
- National Graduates Survey 2018 (NGS; PSIS only)†
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†sampled

Education and Labour Market Longitudinal Platform - Recap

- The ELMLP is not a large integrated dataset, but rather a relational data environment. It uses unique, anonymized IDs to allow integration of data files while protecting confidentiality.

- There are three "core files" (PSIS, RAIS, T1FF) and 15+ supplementary files (concordance keys or other microdata) that pertain to students and registered apprentices. All supplementary files can be integrated with the three core files.

- The core files and some concordance key files (e.g. IMDB, Census, LAD) are generally updated in March of each year. Other supplementary files are updated on an ad-hoc basis.

ELMLP and your data needs

What can the ELMLP team offer?

1) Custom tabulations
2) Microdata access through the Research Data Centres (RDCs)
3) Requests to integrate new data files into the ELMLP (platform addition or custom)

For 1 & 3, contact: statcan.education-education.statcan@statcan.gc.ca

For RDC access, contact the RDC/FRDC most convenient for the client

(a full list of projects and researchers is published tri-annually in the ELMLP Newsletter!)

Custom tabulations – levels of complexity

- **Simple requests ($)**
  - Uses pre-existing methodology
  - Produces estimates like those in our annually produced tables (e.g. persistence rate, graduation rate, employment earnings – links on slide 35)
  - Can make small changes like refining to a specific subpopulation

    Examples:
  - Employment earnings of graduates from Greater Toronto Area
  - Geographic mobility of health care graduates

Custom tabulations – levels of complexity

- **Complex requests ($$)**
  - Requires extra coding or development work (e.g. using derived/modified variables, including additional data sources)
  - Needs to be completed by someone with a higher level of knowledge about the workings of our production systems and advanced coding skills

  Examples:
  - Adjusting income of a graduate based on family size
  - Employment income of new students regardless of graduation status
  - Median of the sum of employment income over 10 years
  - Count of graduates by racialized identity (Census)

Community-level data : what is possible?

- Custom tabulations are limited by confidential vetting rules

- Harder to get useful information from tables with many small cells

- Consider:
  - **Size of population of interest
  - Education levels of interest (e.g. bachelor's degree, college diploma)
  - Demographic characteristics (e.g. age, gender, Canadian or International student. Characteristics from Census have a bigger impact on sample size than those from PSIS)
  - Outcomes of interest (e.g. graduation rate, employment earnings)
  - Level of detail of field of study (e.g. CIP primary groupings or STEM and BHASE*)

- We will work with you to find a solution – prioritizing helps!

*business, humanities, health, arts, social sciences and education

Case study: Invest in Canada

- In partnership with Centre for Special Business Projects (StatCan)
- **Objective:** to determine the pool of STEM graduates available across Canada at a granular geographical level and measure mobility two years after graduation
  - When feasible, looked at the Census Metropolitan Area level, and individual STEM fields of study
- **Purpose:** to help Invest in Canada advise foreign investors on the nature and distribution of STEM talent in Canada
- Visit Invest in Canada; article

Canada

More information

[Student pathways through postsecondary education](#)

[Labour market outcomes for college and university graduates](#)

[Geographic mobility of Canadian bachelor's degree graduates](#)

[Overview of the Education and Labour Market Longitudinal Platform (ELMLP) and Associated Datasets (statcan.gc.ca)](#)

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Canadian Centre for Education Statistics

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About the Data Service Centre

The Data Service Centre (DSC) offers to data users a complete range of services. The DSC assists data users:

- With simple and free data requests, technical and methodological questions;
- With complex requests requiring research, extraction or customization of data from multiple sources;
- By producing customized reports, analyses and maps;
- By offering standard and customized workshops for data users of all levels of expertise;
- Through various outreach activities such as webinars, newsletters, presentations, information sessions and open houses.

For any questions, contact us:
- 1-800-263-1136
- infostats@statcan.gc.ca

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