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Canada

The Education and Labour Market Linkage Platform (ELMLP)

The Data Horizon

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Outline

- Recap
- Policy Context
- ESDC data activities & initiatives
- ESDC program administrative data
  - Files sent to Statistics Canada
  - Tax-linked files (potential ELMLP additions)
- ESDC's medium-term data landscape
- Possible longer-term ELMLP dataset additions
- Next Steps/Considerations

Recap . . .

What is the ELMLP? Where is it headed?

What has been done? What are the future research possibilities?

Expanding the ELMLP: A new culture of government & what can ESDC contribute

- Government of Canada (G of C) open data guidelines
- ESDC data strategy &
- New data sets: ESDC program administrative & other data

A new era of research & data development

- Renewed **focus on data & results**
  - Treasury Board Secretariat (TBS) guidelines (2014) for open data have laid the groundwork for modernizing ESDC's data governance policies & practices
  - "Open by default" philosophy – commitment to sharing data for public benefit, supporting citizen engagement & strengthening accountability

- A lot has happened since 2014 . . .
  - **Open Government Portal** launched (open.canada.ca)
  - **Directive on Open Government**
    - Requires departments and agencies to develop and publish plans for implementing Directive's requirements over five years
  - Canada hosted International **Open Data Conference** (2015)
    - Development of roadmap for enhanced global collaboration on open data

- Implications for data governance & research
  - Reinforced **data-driven policy & program decisions** for evidence-based policy-making
  - Expanded ability to **access & link data** (particularly at Statistics Canada)
    - Availability of new longitudinal data-sets & tax data linkages
  - New **opportunities for cross-pollination** (i.e. partnerships between government departments, academics, research firms, social enterprise institutions, etc.)
  - Continued commitment to world-leading data security & privacy standards

ESDC is an active player in the new data environment

ESDC's Chief Data Office is leading the implementation of a Departmental Data Strategy

- Improve ability to access & leverage data: greater use of open data; & expanded research/analysis capabilities (e.g. data management, governance & stewardship)

A strong foundation for using linked data (e.g. tax data) to assess program performance

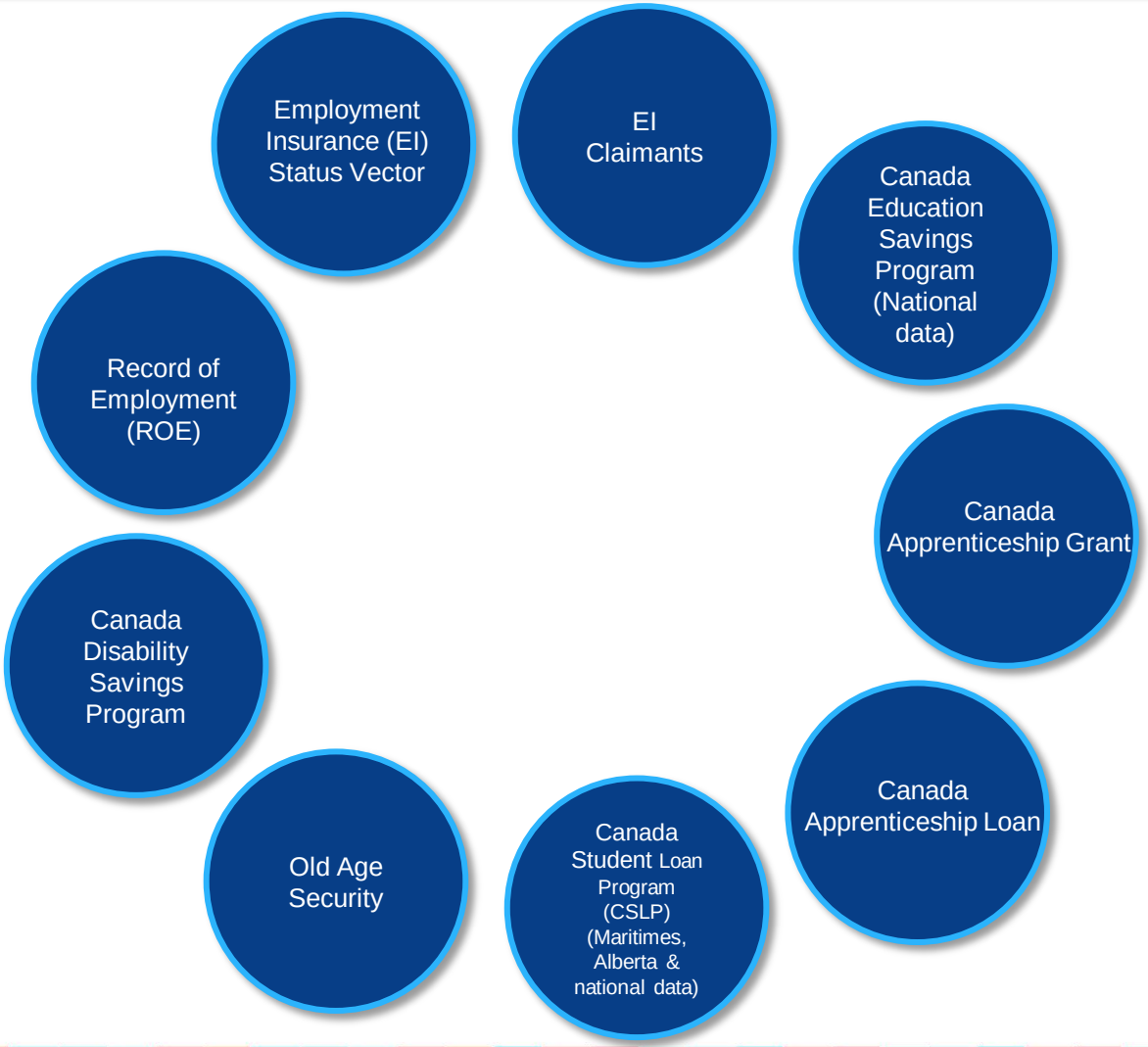
- Evaluations/impact analyses using program data linked to tax files have been conducted for several programs
  - Youth - Career Focus, Skills Link
  - Grants & Loans - Canada Student Grants (CSG) & Canada Student Loans (CSLP)
  - Indigenous - Skills and Partnership Fund (SPF) & Indigenous Skills & Employment Strategy (ISET)
  - EI Part I & II - Skills Boost & Labour Market Development Agreements (LMDAs)

SEB Data Strategy & Interactive Data Mapping Platform

- Long-term vision of integrated data ecosystem – data rich; integrated & organized; secure & accessible; properly resourced
- Public-facing LMI portal - Dynamically pulls information from publically available labour market data sources; produces interactive maps and reports by socio-economic indicators
- Internal interface and tools via a common platform – geospatial tools, administrative "data lake" & business analytics tools (i.e. SAS, STATA, COGNOS, SPSS)

ESDC is ‘data rich’ . . .

Many high value files <u>already sent</u> to Statistics Canada

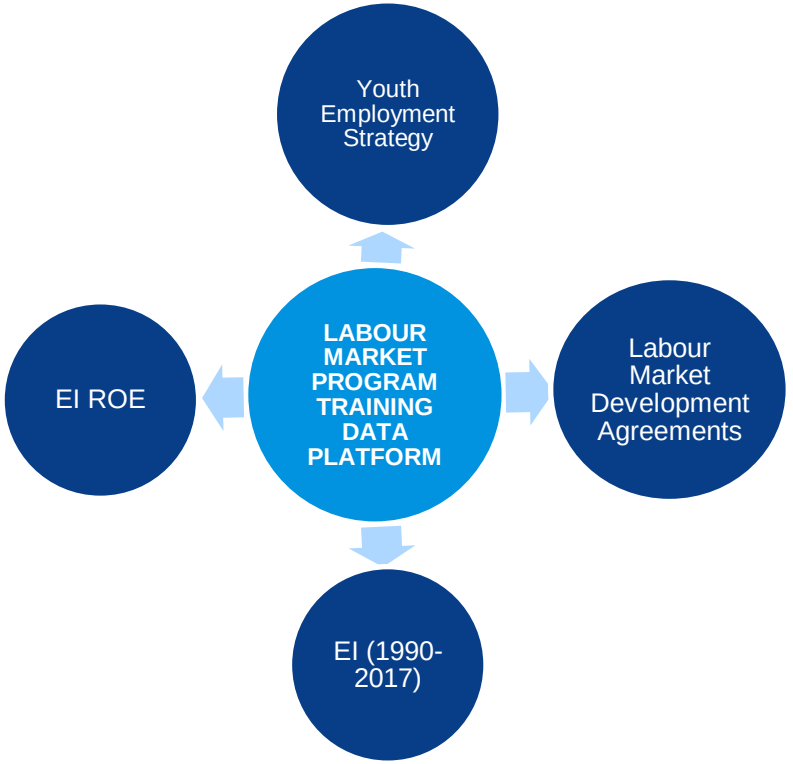


ESDC is ‘data rich’ (continued) . . .

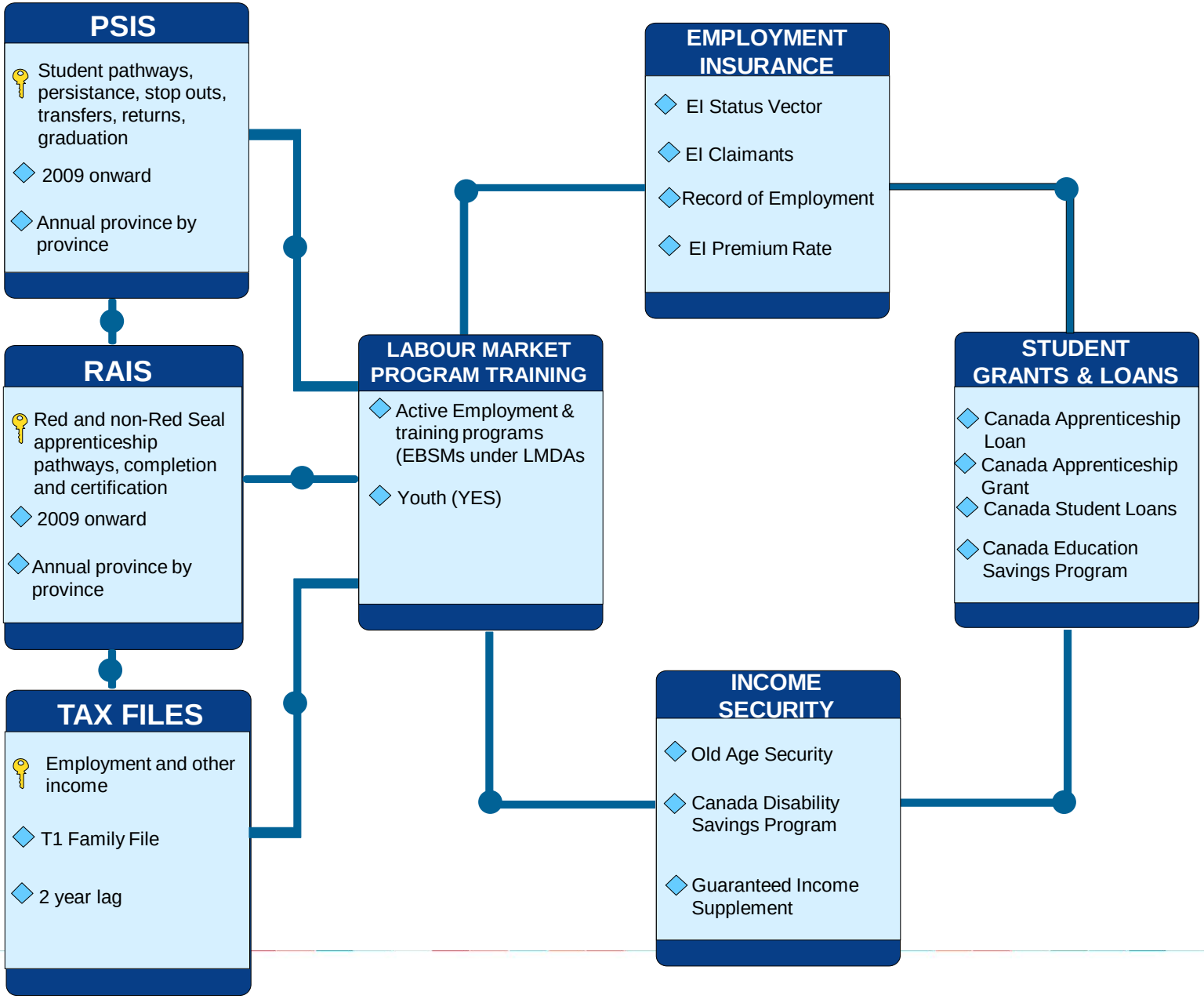
Some program data holdings are already linked to tax records

- ESDC’s Evaluation Directorate already uses tax-linked data.
  - Several tax-linked data sets from Statistics Canada & the Educational Policy Research Initiative (EPRI)

- **Labour Market Program Training Data (MTI) Platform** could be added to the existing ELMLP
  - Used to conduct impact analyses measuring program outcomes
  - Flexible – data can be linked using different keys
  - Data have been cleaned & linked to tax files
  - Population - all program participants since 1996 and a control group sample of non-participants
  - Tax records included: T1 (1996-2015); T4S (1996-2015); Canada Child Tax Benefit (2006-2015)



ESDC's medium-term data landscape . . .



ESDC is ‘data rich’ (continued) . . .

Other program data could be added in coming years, such as:

Apprenticeships

- Canada Apprentice Loans Program
- Apprenticeship Incentive Grant
- Apprenticeship Completion Grant
- Apprenticeship for Women Grant
- Pre-Apprenticeship Program

Youth

- Summer Work Experience Program
- Student Work-integrated Learning Program

Active Labour Market

- Job Bank
- Workforce Development Agreements
- Skills Boost Initiative (EI Part 1)

Next Steps/Considerations

Infrastructure is there, but *how* will data be selected and shared?

- Open input for providing ideas on priority datasets (other government departments, provinces/territories & academic researchers)

- Development of selection criteria & priority ranking to guide the data file transfer process
  - Policy priorities (ESDC & G of C *writ large*)
  - Data quality (e.g. cleaned or not, missing records, other gaps, etc.)
  - Privacy/data sensitivity issues (e.g. Indigenous peoples)

- ELMLP accessible at Statistics Canada Research Data Centres (RDCs) via a standard research proposal approval process

Questions?