Longitudinal Administrative Databank (LAD)

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LAD

- Primarily income tax returns from the CRA
 - □ Spans 1982 through 2016

- A superset of administrative files
 - □ CRA: T1FF with T4 file, CCTB file and SIN files
 - Statistics Canada: Postal Code Conversion File
 - Provincial birth files
- Linkages
 - An extract from the IMDB (key characteristics)

Sample

- 20% Bernoulli sample of the T1FF
 - □ Filing a T1 tax-return or received CCTB
 - Topped up each year
- Longitudinal design
 - SIN number creates a longitudinal profile
 - Once selected, remain in LAD
- Individual level
 - Spousal information available

Coverage

- T1FF covers about 95% of Canadians
- Increased incentives to file
 - 20% sample: from 3,227,485 in 1982 to 5,579,280 in 2016 (73% increase)
 - Other than population increase: FST in 1986 & GST in 1989
- \sim < $\frac{1}{4}$ of the sample consists of non-filers
 - Imputed information based on deductions & tax-credits
 - Presence of a spouse
 - □ Information retrieved from T4 file

Attrition and related issues

- Emigration
 - Income Tax Act: severing social & economic ties in Canada

- Delayed tax-filing
 - 8 month cut-off date to file
 - □ ~ 3.5% to 4.8% delay

Detailed income information

- Total income
 - Market income
 - Government transfers received
- Income taxes
 - Federal income taxes & credits
 - Payroll taxes on (self) employment
 - Provincial income taxes & credits
- TFSA post 2009

Additional information

- Detailed geography
 - Constructed via Statistics Canada's Postal Code Conversion File (PCCF)
 - CMA/CA's, CD's and CT's --- use PCCF to get Economic/Fed region

- Landing record linkage
 - □ Post-1980 arrivals

- LAD register file
 - Year-of-death, filing flag and other important non-income variables

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Selected LAD papers

- LaRochelle-Côté, S., Myles, J., & Picot, G. (2012). Income Replacement Rates among Canadian Seniors: The Effect of Widowhood and Divorce. *Canadian Public Policy / Analyse De Politiques*, 38(4), 471-495. Retrieved from http://www.jstor.org/stable/41756765
- Messacar, D. (2017). Intra-household Labour Income Responses to Changes in Tax Rates Among Older Workers. Analytical Studies Branch Research Paper Series, Statistics Canada, Issue no. 2017400
- Ostrovsky, Y. (2012). The dynamics of immigrant participation in entitlement programs: Evidence from Canada, 1993-2007. The Canadian Journal of Economics / Revue Canadienne D'Economique, 45(1), 107-136.

Confidentiality

- Anonymity of individual tax-filers
 - Perturbation weight is applied to computations
 - Does not affect calculation of aggregates, averages, ratios, etc..
- Minimum cell counts

- Rounded income values
 - Removal of atypical observations

Summary

- Representative sample of Canadian tax-filers
- Lends itself nicely to the analysis of (socio) economic trends
- Economic behaviour over the life-cycle
- Policy analysis
- Demography