# A Safe and Inclusive Approach to Disseminating Statistical Information about the Non-binary Population in Canada

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Federal Committee on Statistical Methodology Research and Policy Conference - October 2024 Hyattsville, Maryland



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#### **Overview**

- Canadian context ⇒ Methodological aspects of gender dissemination
- 2021 Census of Population: sex gender and sex at birth questions, dissemination strategy based on a new 2-category gender variable (Men+, Women+) and some findings
- Recommendations for social surveys on collecting and disseminating gender information
- Supporting documentation benefits... gender expertise group as well as partners and users

Disclaimer: The views expressed here are those of the authors and do not necessarily reflect those of Statistics Canada







#### **Canadian Context**

- Recently in Canada:
  - Public awareness and sensitivity towards 2SLGBTQI+ populations have grown substantially
  - Legal changes were made with respect to gender e.g., Canadian Human Rights Act and Criminal Code were amended in 2017 to protect gender identity and expression
  - Gender data gaps were identified
- 2018 Government-wide policy direction: collection of accurate **gender** data should be the **default for all federal organizations** ⇒ Sex *at birth* only when necessary (previous survey interpretations of 'sex' were conflating the two, sex at birth and gender)



#### **Canadian Context**

- 2018 Survey of Safety in Public and Private Spaces: first large-scale survey conducted by StatCan to collect information about gender and sex at birth
  - ✓ 1 in 400 people (0.24%) aged 15+ were transgender or non-binary: Very small populations
  - ✓ Important differences in victimization, discrimination and mental health by the gender diversity status of respondents: Enhanced sensitivity



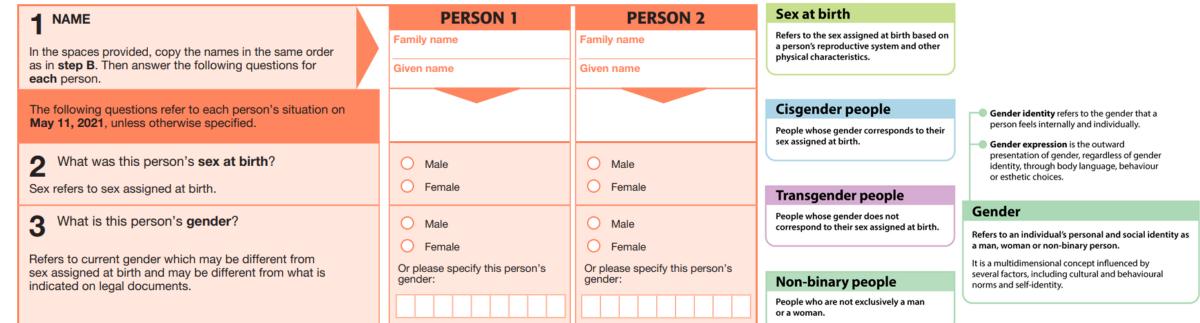






#### **Canadian Census**

- Census of Population: conducted every 5 years and was last held in 2021
- Census 2021: new gender and sex at birth questions, after engaging with experts in the field of gender identity, conducting qualitative tests with non-binary, transgender and cisgender populations as well as a national census test



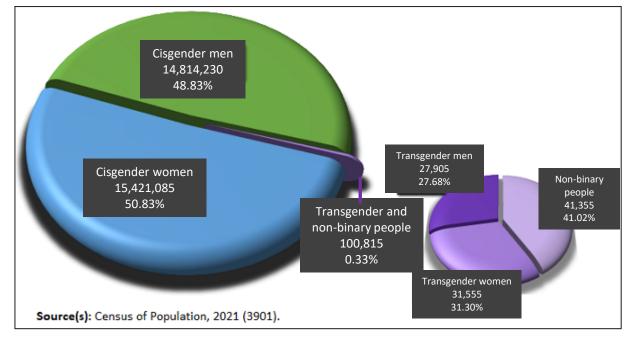


#### **Canadian Census**

• 2021 Census: 1 in 300 (0.33%) people in Canada 15+ living in a private household are transgender (0.19%) or non-binary persons (0.14%)

 Almost 33% of non-binary people describe their gender using terms other than 'non-binary'







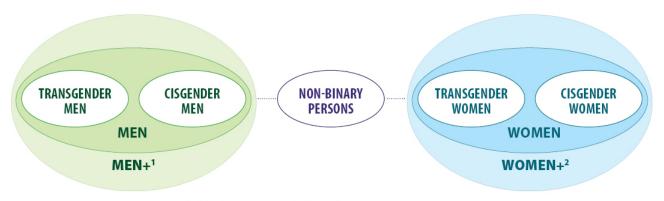




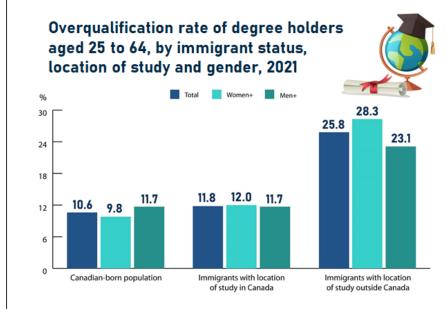


#### **Canadian Census**

• New 2-cat. gender variable (Men+, Women+) derived from collected data (Men, Women, Non-binary persons) and used at the lower dissemination levels: safe and more inclusive



- This category includes men (and/or boys), as well as some non-binary persons.
- This category includes women (and/or girls), as well as some non-binary persons.



Note(s): Given that the non-binary population is small, data aggregation to a two-category gender variable is sometimes necessary to protect the confidentiality of responses provided. In these cases, individuals in the category "non-binary persons" are distributed into the other two gender categories and are denoted by the "+" symbol. The category "Men+" includes men, as well as some non-binary persons. The category "Women+" includes women, as well as some non-binary persons.

Source(s): Census of Population, 2021 (3901).

• In releases: Men+/Women+ in charts, figures and infographics, but Men/Women in text body

Among immigrants with a foreign degree, overqualification was higher among women (28.3%) than among men (23.1%)

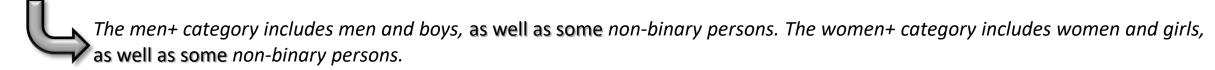
## **Recommendations for Social Surveys**

- In line with policy direction and Census, gender sex at birth at the forefront of social surveys
  - Collecting detailed gender info. (Men, Women, Non-binary persons) by default ethical and methodologically sound, allowing respondents to better identify with options proposed
  - Disseminating statistical gender info. using the **new 2-cat. gender variable (Men+, Women+)** at all geo levels except perhaps highest ones e.g., country <del>province/territory</del>
  - Disseminating based on sex at birth only when warranted: insufficient justifications include comparability over time (sex at birth  $\neq$  sex, as previously collected) and the mere presence of biological factors (as gender may be playing a major role too)
  - Additional statistical disclosure control measures may be required



## **Recommendations for Social Surveys**

- Implementation: 2-cat. gender is derived by survey team from collected gender data as
  - Transgender and cisgender men: Men+
  - Transgender and cisgender women: Women+
  - Non-binary persons: each record is deterministically randomly recoded to Men+ or Women+



- Random recoding can be carried out using the imputation methods and systems available
- Recoding ≠ Imputing, as it is performed on valid answers for confidentiality reasons rather than on missing answers to enhance quality



## **Recommendations for Social Surveys**

 Random recoding can be based on Men/Women data distribution at predetermined level (and conveniently carried out using donor imputation)...

Fictitious numerical example

	Gender (3)	Region 1	Region 2	Total
	Men	30 (30 / 80 = 37.5%)	40 (40 / 115 = 34.8%)	70
] دِ	Women	50 (50 / 80 = 62.5%)	75 (75 / 115 = 65.2%)	125
	Non-binary Persons	2	3	5
	Total	82	118	200



Gender (2)	Region 1	Region 2	Total
Men+	30+2 (32 / 82 = 39.0%)	40+2 (42 / 118 = 35.6%)	74
Women+	50+ <mark>0</mark> (50 / 82 = 61.0%)	75+1 (76 / 118 = 64.4%)	126
Total	82	118	200

• ...or on modeling *but* without using strongly correlated auxiliary variables e.g., sex at birth (more prudent and respectful)





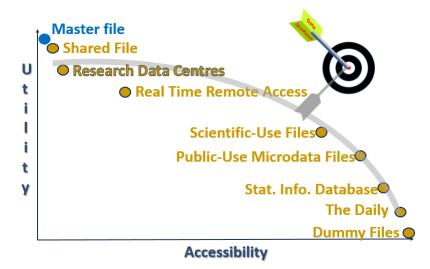


- Survey team routinely documents standard statistical outputs, but may not fully appreciate the role played by documentation in implementing policy-shaping recommendations
- While documenting is hardly exciting, it was crucial in securing us the support and cooperation
  of stakeholders as initiative unfolded
- Documentation released alongside the recommendations include
  - A 17-pager, comprehensive document: transparency and accountability
  - Growing list of FAQs, to swiftly address implementation issues
  - Visual aid: applying recommendations to garden-variety situations





•17-pager is transparent about driving forces underlying the recommendations and promotes accountability e.g., how 5-Safes helps stakeholders better understand how confidential gender info is handled across the Agency's various data access platforms



A Research Data Center (RDC) is a secure location containing microdata from a master file subject to anonymization which are under the responsibility and control of the agency. Accredited users are deemed to be employees and can only perform pre-authorized analyses; the results obtained are subject to strict disclosure control rules.



CCT: StatCan's Confid Classification Tool is a simple, lean and self-administered assessment tool raising awareness to the confid nature of its data holdings



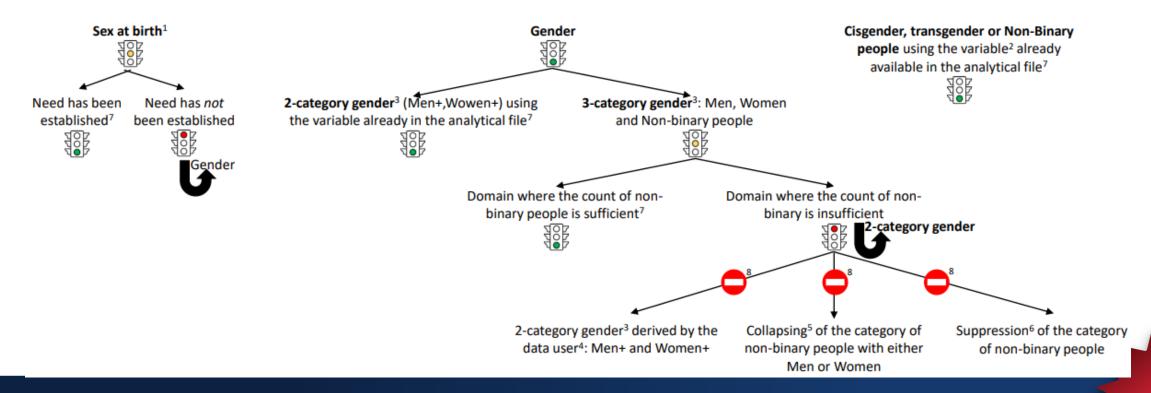
- •Growing FAQ suggests outreach activities are successful (with feedback, issues and concerns channeled back to us), and swift updates convey our commitment in addressing users' issues
  - 1) Interpreting statistical information related to gender and sex at birth
  - 2) <u>Dissemination of statistical information related to transgender persons</u>
  - 3) Interpreting the 2-category gender variable for individuals under 18 years of age
  - 4) <u>Creating the new 2-category gender variable (Men+/Women+) when missing data with respect to gender are present</u>
  - 5) About person-level gender information obtained from administrative sources
  - 6) About the role gender may play in the dissemination of statistical information involving biological processes
  - 7) On the simultaneous presence of proxy data and data collected directly from individuals about their
- Example: (4) Creating new 2-category gender variable in the presence of partial nonresponse:
  - Step 1: impute (Men, Women, Non-binary persons, Missing) ⇒ (Men, Women, Non-binary persons)
  - Step2: randomly recode reported/imputed answers (Men, Women, Non-binary persons) ⇒ (Men+, Women+)





 While 17-pager is comprehensive, it lacks the details to handle some garden-variety situations: quick visual guide outlining dissemination options

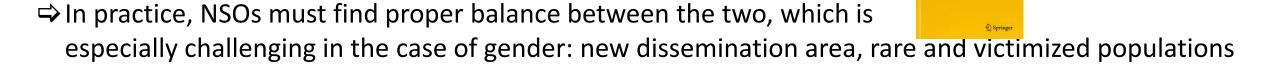
The Road to Disseminating Gender-Related Statistical Information, using either Gender OR Sex at Birth OR Gender Diversity



## **Concluding Remarks**

Duncan et al. (2021) nicely convey the dual mission of National Statistical Organizations (NSOs)

[A NSO] is serving two masters [providing high quality information and protecting confidentiality], each with conflicting interests and concerns.



- Recommendations centered on new 2-gender category variable are quite strict, but will be reviewed as further dissemination experience is gained and society's views on gender evolve
- Supporting documentation plays a crucial role in building and maintaining stakeholders' confidence and expertise







#### Thank you! Merci!

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#### **Questions?**

Related to Gender: <a href="mailto:statcan@statcan@statcan.gc.ca">statcan.demography-demographie.statcan@statcan.gc.ca</a>

General enquiries: infostats@statcan.gc.ca