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Data collection strategy on an elusive population: technique, process design and monitoring indicators

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ISTAT-UNAR project "Labour discrimination against LGBT+ people and diversity policies in enterprises"

- Mixed method (quantitative-qualitative) and multiperspective approach (stakeholders, enterprises, LGBT+ people)
- Different surveys and different target groups of LGBT+ people based on respondents' self-identification

Experimentation of the Respondent Driven Sampling Technique (RDS)

- Survey Design: Sampling Technique and Web-questionnaire
- **Process design** (2 step) and privacy concern
- Monitoring indicators
- Lessons learnt



Surveys targeted at LGBT+ people: the challenges

- Provide insights on labour discrimination against LGBT+ people
- Hard to reach an invisible population: reticence of some people and underreporting of discriminatory phenomena
- **Generalizability of results and sampling challenges**: representative surveys on the LGBT+ population are difficult to carry out mainly due to the **absence of lists** of people whose sexual orientation and/or gender identity are known

Different data collection strategy for different targets within the LGBT+ population

Survey on individuals who are/have been in a Civil Union (same-sex couples, over 21,000 people)

2020-2021

Survey on LGB people who have never been in a civil union, through the Web Respondent Driven Sampling and convenience sample

(more than a thousand of LGB respondents)

January-May 2022



Survey on trans and non-binary people, through a nonprobabilistic sample in progress



RDS strategy is helpful to reach the hidden population

1. The sampling strategy has a probabilistic approach

It combines the <u>snowball technique</u> with a <u>mathematical model</u> (probabilistic) (Salganik e Heckathorn, 2004; Volz e Heckathorn, 2008)

2. The sample is based on social network of individuals of target population

It starts with a sample of convenience

It is *respondent-driven*: at each wave, respondents are used to select or drive the next sampling wave by selecting other individuals from the target population

Through many sampling waves the dependence of the final sample on the initial sample is reduced The RDS sample inclusion probabilities are estimated assuming that the sampling process is a Markov chain

3. The RDS permits to make inference

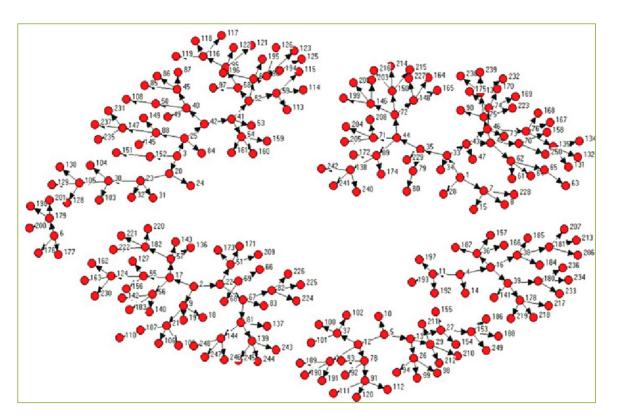
It allows to make inference about the network structure and estimation on the target population



Respondent Driven Sampling (RDS) | survey design

Web-based-Respondent Driven Sampling Survey

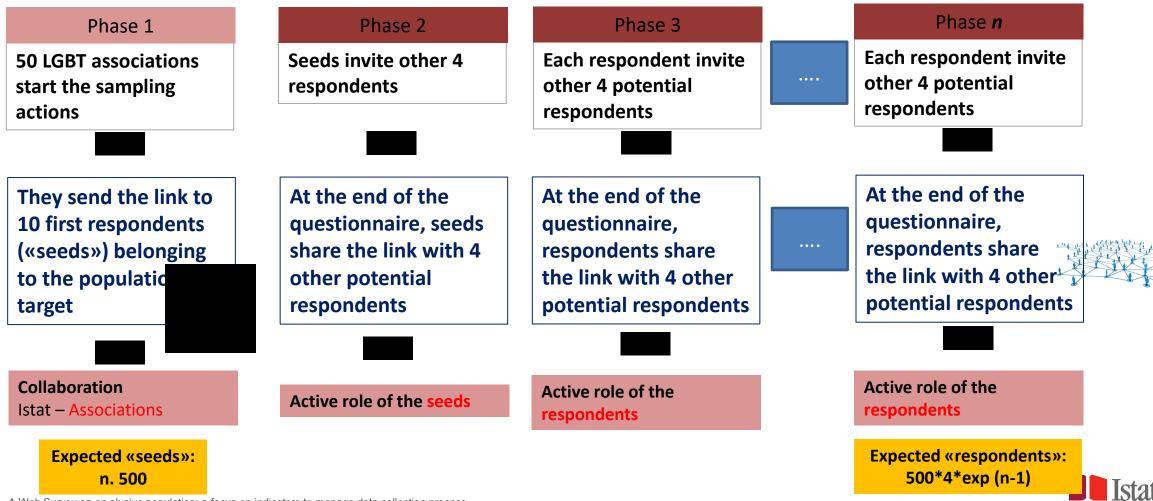
- Formative study
- Fifty LGBT+ association throughout the national territory identified first respondents ("seeds") belonging to the population target
- Seeds must have some characteristics defined by Istat' researchers (sex, age, sexual orientation, geographical area)
- Respondents play an active role in recruiting new respondents who belong to the target population and to their network of relationships
- A convenience sample as an exit strategy





Respondent Driven Sampling (RDS) | on the field

First OS national survey adopting RDS



A Web Survey on an elusive population: a focus on indicators to manage data collection process M. Perez, L. Porciani, F. De Cicco, A. Vitalini

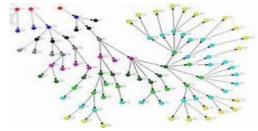
Process Indicators *the key role in a RDS survey*

The effectiveness of the method and the duration of the survey depend on the **propagation capacity of the network**

If for any reason a participant decides not to "propagate" because he/she becomes discouraged , loses confidence, loses referrals, etc. that node does not produce offspring and the network reduces its propagation effectiveness by limiting the achievement of a satisfactory sample

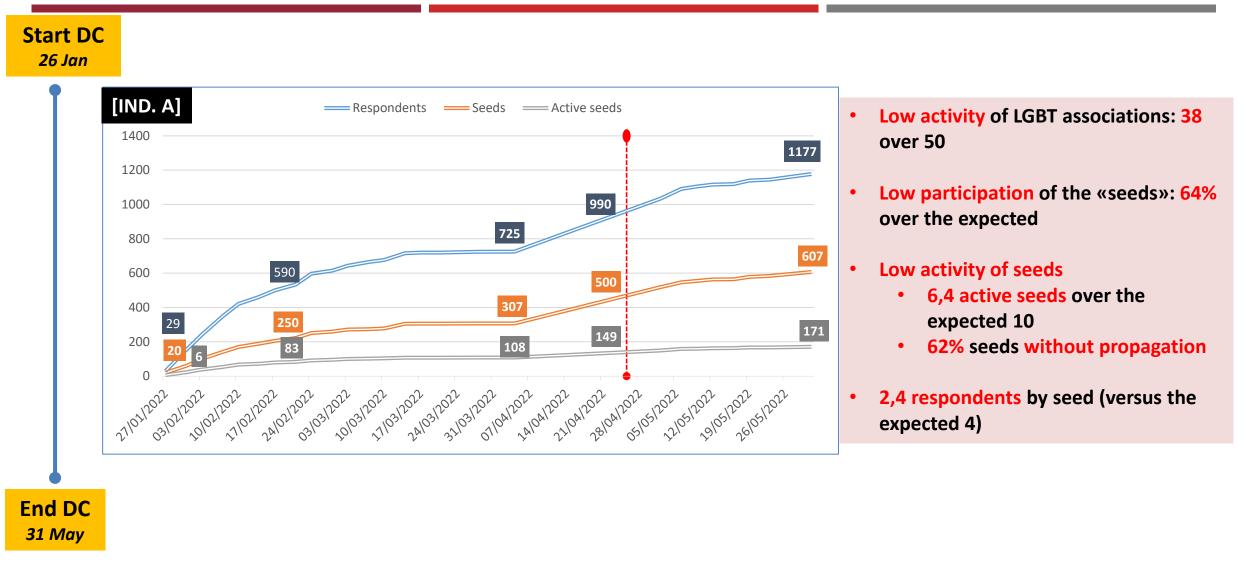
A system of indicators ables to monitor

- the strength of «seed» and network propagation [IND. A]
 - No. Seeds active/ non active
 - No. Respondents active/ non active
 - No. Created chain
- the typology of the respondents [IND. B]
 - Sex
 - Sexual orientation
 - Age group
 - Participation in Association



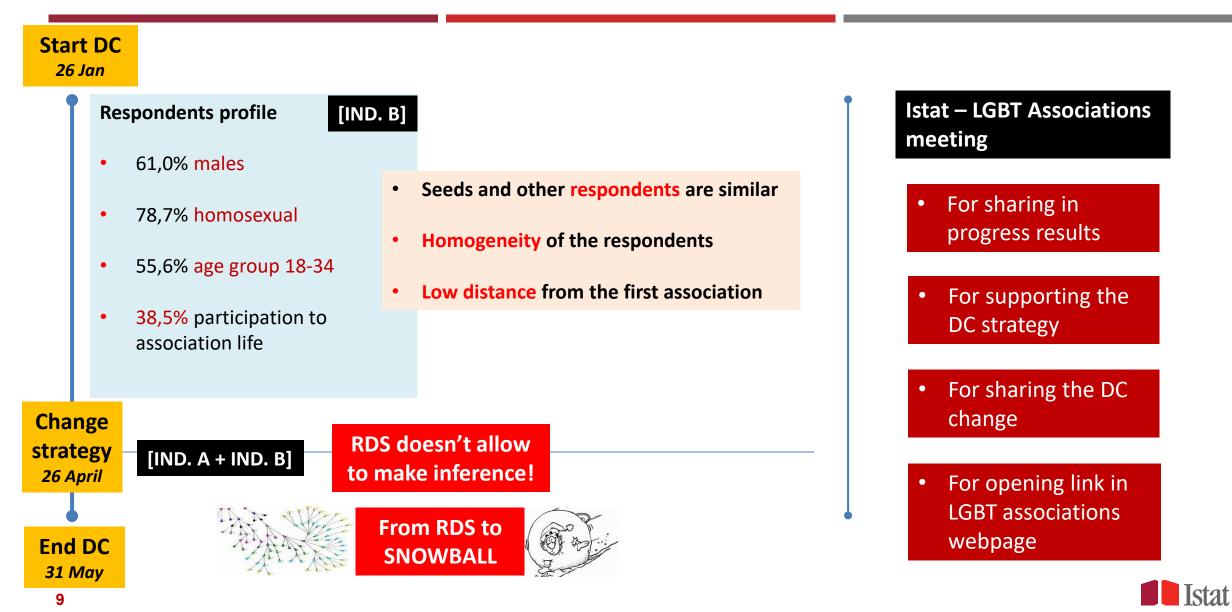


Process Indicators | *the findings*





Process Indicators | *the findings*



LESSON LEARNED

- Experimental procedures to manage privacy issues: two-step model; request of the respondent's email address ------ improving procedures and data collection tools to engage distrustful people
- The **recruitment of possible LGB respondents: is an indelicate operation**?
- The LGB networks are too limited or fragmented, even at a territorial level?

------ improving the monitor indicators regarding network propagation

• Other survey based on RDS

------ studying the possibilities to apply RDS to other population (foreigners?)



Thank you!

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