





Setting up a mixed-mode probability-based panel over the COVID-19 pandemic

Ricardo González

Director Laboratory of Surveys and Social Analysis School of Communications and Journalism Universidad Adolfo Ibáñez

3rd Current Innovations in Probability-based Household Internet Panel Research (CIPHER) Conference





Datavoz

Medium-sized company working in the sampling design with LEAS and in charge of fielding the CATI and CAWI surveys and managing the panel for LEAS.

Motivation 1





UNIVERSIDAD ADOLFO IBÁÑEZ

18 October 2019 - Social crisis in Chile

Massive protests against inequalities of all sorts and a widespread perception of a lack of fairness.

An explosive escalation of violence ensued, leading to chaos on the streets of Santiago and major cities across the country for several months.

More info: González and Le Foulon (2020). "The 2019–2020 Chilean protests: A first look at their causes and participants" *International Journal of Sociology*, 50:3, 227-235, DOI: <u>https://www.tandfonline.com/doi/full/10.1080/00207659.2020.17</u> 52499

Impossible to field F2F surveys when the information to understand the ongoing events was critical!

Motivation 2









COVID-19 in Chile

First positive case in March 3rd.

School closures and stay-at-home orders since mid-March.

Night-time curfews and targeted dynamic lockdowns applied at the municipality (comuna) level. Some municipalities had very long lockdowns (> 150 days).

In July 2020, roughly 60% of the population was on lockdown. In January 2021, roughly a third!

In August 2020, Chile was top 5 in terms of COVID-19 cases per million across the globe.

Again, impossible to field F2F surveys when the information to understand the ongoing events was critical!

Initial plan



Presented at the RISCAPE workshop "Mapping the global on-line probability-based panel landscape" that took place in Amsterdam 11-12 December 2019.

5-year project

- One big recruitment stage in year 1 (on the back of a F2F survey). 2500 households initially selected by a
 multi-stage probability sampling. Recruit all household members older than 15 years (N ≈ 4000 or 6000).
- 4 mixed-mode waves per year (incentives for responding each survey: CLP 4,000 ≈ USD 5,5 gift card; the cheapest gift card available). 1000 individuals per wave.
- Web surveys for on-liners. CATI surveys for off-liners.
- One refreshment sample per year (500 households, F2F interviews). Oversampling hard-to-reach groups.

New plan



ESCUELA DE COMUNICACIONES Y PERIODISMO



Changes after COVID-19

- Impossible to field F2F surveys in 2020.
- Less resources for this project.
- 5-year project
- One big recruitment stage in year 1 (on the back of a F2F survey). 2500 households initially selected by a
 multi-stage probability sampling. Recruit all household members older than 15 years (N ≈ 4000 or 6000).
- Respondents are selected through probability sampling by random-digit dialing (RDD) of cellphone numbers
 across all regions and are asked to join the panel at the end of the interview.
- 4 mixed-mode waves per year (incentives for responding each survey: CLP 4,000 ≈ USD 5,5 gift card; the cheapest gift card available). 1000 individuals per wave.
- Experiment on incentives
 - 1600 individuals were asked to join the panel at the end of the interview and promised to receive a gift card of CLP 4,000 after responding each survey
 - 1600 individuals were asked to join the panel and promised to receive 2000 points that can be redeemed for a gift card.
- Web surveys for on-liners. CATI surveys for off-liners.

- One refreshment sample per year (500 households, F2F interviews). Oversampling hard-to-reach groups.

New plan



5-year project

- One big recruitment stage in year 1 (on the back of a F2F survey). 2500 households initially selected by a multi-stage probability sampling. Recruit all household members older than 15 years (N ≈ 4000 or 6000).
- Respondents are selected through probability sampling by random-digit dialing (RDD) of cellphone numbers
 across all regions and are asked to join the panel at the end of the interview.
- 4 mixed-mode waves per year (incentives for responding each survey: CLP 4,000 ≈ USD 5,5 gift card). 1000 individuals per wave.
- Experiment on incentives
 - 1600 individuals were asked to join the panel at the end of the interview and promised to receive a gift card of CLP 4,000 after responding each survey
 - 1600 individuals were asked to join the panel and promised to receive 2000 points that can be redeemed for a gift card.

	Gift card	Loyalty points			
Coverage rate	92 percent of adult population				
AAPOR's RR 1	11.1	9.3			
Agreement to join	71.3	50.0			

Panel composition: two incentive schemes



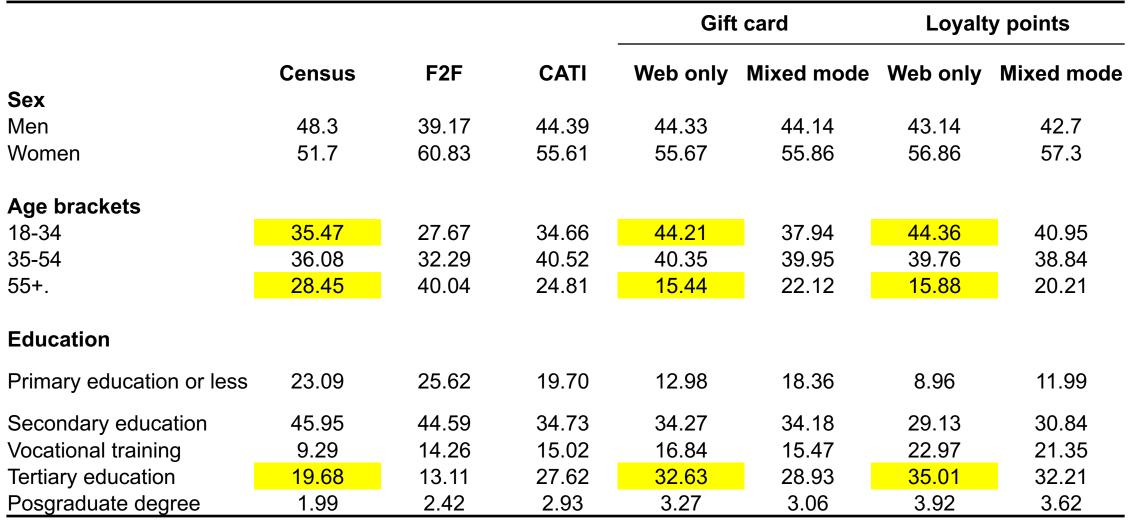




				Gift Card	Loyalty Points	
	Census	F2F	CATI	Mixed mode Mixed mo		
Sex						
Men	48.3	39.17	44.39	44.14	42.7	
Women	51.7	60.83	55.61	55.86	57.3	
Age brackets						
18-34	35.47	27.67	34.66	37.94	40.95	
35-54	36.08	32.29	40.52	39.95	38.84	
55+.	28.45	40.04	24.81	22.12	20.21	
Education						
Primary education or less	23.09	25.62	19.70	18.36	11.99	
Secondary education	45.95	44.59	34.73	34.18	30.84	
Vocational training	9.29	14.26	15.02	15.47	21.35	
Tertiary education	19.68	13.11	27.62	28.93	32.21	
Posgraduate degree	1.99	2.42	2.93	3.06	3.62	

* Unweighted figures. Census: Population Census (2017); F2F: CEP survey (December 2019); CATI: Recruiting stage (August 2020)

Panel composition: the relevance of mixed-modes



* Unweighted figures. Census: Population Census (2017); F2F: CEP survey (December 2019); CATI: Recruiting stage (August 2020)





Some points for developing countries



Online or mixed-mode probability-based panels are not useful in developing countries because...

(1) respondents in developing countries lack literacy skills for self-completion mode.

• Possible, but consider that panelists tend to be more educated than the general population.

(2) incentives reduce the cost effectiveness of fielding cross-sectional studies.

• Yes, they might as the Chilean case illustrate.

			Gift card		Loyalty points	
0 (()) (500)	F2F	CATI	Web only	Mixed mode	Web only	Mixed mode
Costs (N = 1500) (as a fraction of F2F cost)	100	19.91	16.20	20.13	10.20	14.13

What next?



ESCUELA DE COMUNICACIONES Y PERIODISMO



Wave-level response rates?

• Ongoing studies

More recruitment

- We are aiming to get 4000 participants
 - More recruitment on the back of a survey?
 - Profiling surveys using IVR? Ongoing pilot.

Passive data collection

- We are developing an app collecting GPS locations to study the lives of platform workers (e.g. the number of trips, miles traveled, time required).
- Also, collecting data from pop-up questions sent at random times to know how they feel over the day.
- Integrate the app and the panel at the end of 2021.



ESCUELA DE COMUNICACIONES Y PERIODISMO



Thank you!

Ricardo González *ricardo.gonzalez.t@uai.cl*