

UNECE Expert Meeting on Statistical Data Collection

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Experience on multimode data collection in the NSI Spain: challenges and opportunities.

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Objective: Efficiency in the multimode data collection process

- Based on a real survey, deepening in some matters related to multimode data collection:
 - Efficiency
 - Information quality:
 - Questionnaire: Conceptual difficulty and completion time.
 - Remember:
 - Monitoring of the data collection process.

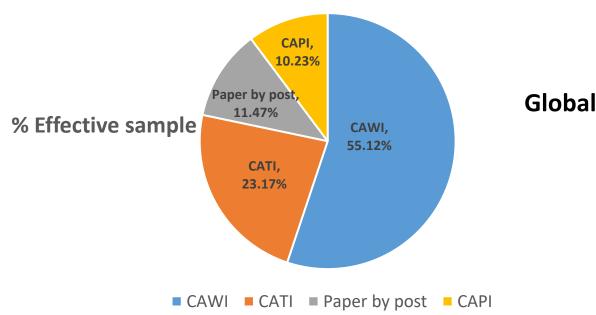




ECEPOV: Efficiency

Data referred to ECEPOV: Supplementary survey to the Census of Population. This census was exclusively based on administrative sources.

- Sporadic survey. Sample: 300.000 households.
 - Don't forget the quality



Global Response Rate: 56.36%



Keep deepening in multimode method

- Some key points for multimode data collection:
 - Availability of telephone numbers of respondents.
 - Data collection platform used.
- Some consideration on the use of multimode data collection in ECEPOV
 - Modes: CAWI, CATI, CAPI and Paper questionnaire by post.
- Lessons learned and next steps



Availability of telephone numbers of respondents

- What if telephone numbers are not available for the institution?
 - Different situations: Rotating panel vs One-time survey



- Situation of INE Spain:
 - Agreement: Telephone numbers were available for the sample units (near by 90% of sampled households).
 - Not available for all the units in the sampling frame.
 - Land lines and mobile phones.
 - E-mail addresses are not available for household surveys.



Data collection platform: IRIA

- The data collection plan is conditioned by the platform that will be used.



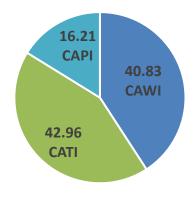
- All collection modes are integrated in a flexible way.
- Storing the information in centralised data bases.
 - When outsourcing the data collection, NSI Spain provides the platform, including communications.
 - Good practice: Staff in the data collection unit deeply knows the tool and can programme the questionnaire.
- IRIA: One platform for economic and household surveys



ECEPOV: Strategy of data collection

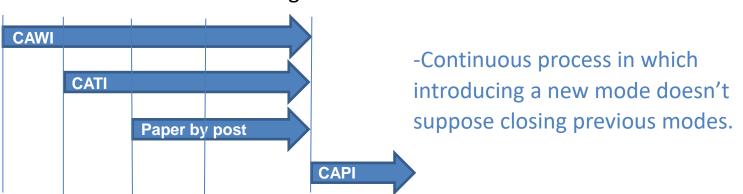
% EFFECTIVE SAMPLE

Experience in EU-SILC: CAWI, CATI and CAPI



■ CAWI ■ CATI ■ CAPI

- ECEPOV: Strategy of data collection
- 2 stages:
 - Office stage: CAWI, CATI, Paper questionnaire via post.
 - Face-to-face stage: CAPI





- Good practice: Pushing the CAWI response via telephone.

Percentage of questionnaires collected by CAWI between tasks in the data collection process:

	Before calling	Pushing		Paper by post
CAWI	54%	21%	19%	6%

Good practice: Daily and **detailed** monitoring of the data collection with all the calendar stages and meetings for quick decision making.

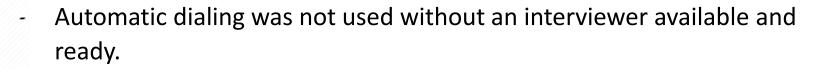






- Data collection staff knew that algorithm and this allows to make the data collection more efficient by adjusting some parameters.
- Recording of the telephone calls: Chance for a quick and very efficient monitoring for taking measures related to quality.

Total calls made: 889.818 calls (31% successful).





Strategy for improving the protocol

• Strategy:

- a) Identify where most of the frequent problems appear and make minor changes in the questionnaire.
- b) Focus on re-contacting the 50% with a more advanced questionnaire completion.
- c) Questionnaire completion time:
 - CAWI: 1-person household: 34 minutes, 3-people: 58 m;
 - CATI: 1-person household: 27 m; 3-people: 41 m
- d) From the start, feedback from the unit in charge of the survey in order to back the decisions.

Accesses needed to complete a questionnaire

Acceses	CAWI %	CATI %
1	56,47%	69,89%
2	25,65%	20,31%
3	10,49%	6,26%
4 or more	7,39%	3,55%



Face-to-face stage: CAPI

- IRIA includes CAPI data collection.
- The interviewers used iPad-type tablets, lighter than the ones normally used in other surveys.
- A sub-sample of unit without response after stage 1 was selected based on:
 - Response rate in each territory.
 - Outcome of the contacts with the household (identify weak negatives).
- Monitoring of the interviewers: frequent charges and discharges of information to/from the tablet.
- This data collection mode was conditioned by the pandemic:
 - A new COVID wave arrived half-way the CAPI data collection process.





Lessons learned

- Don't forget to measure the questionnaire completion times, especially for one-time surveys.
- If using paper questionnaires by post, be more selective.
- Society has rapidly evolved and **CAWI** is better accepted than we expected.
- Don't forget to test the **communication systems**.



- Schedule and deadlines: basic for organising the work batches.
- Don't underuse the flexibility granted by the platform.



Next steps

- Smartphones should be made generally available as a usable devise in household surveys:
 - It should be part of IRIA or develop an app.
- Use of SMS for questionnaire claiming.
- Paradata: Used for strategic planning to more efficiently mix the different modes.
- Take advantage of the better connectivity in CAPI data collection:
 - Work directly connected to the centralised data bases.
- Introduce the recording of **CAPI** interviews, at least partially.



Thank you!!

