

National Conference of European Statistical Data Users,
June 5th, National Institute of Statistics, Romania

Modern solutions for data collection

Ana-Maria Ciuhu

Diana Ioana Popa

Experts – Romanian NIS, General Directorate of Demography and Social
Statistics



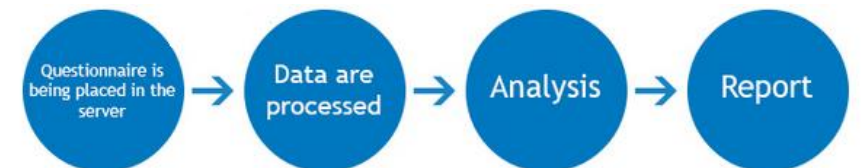
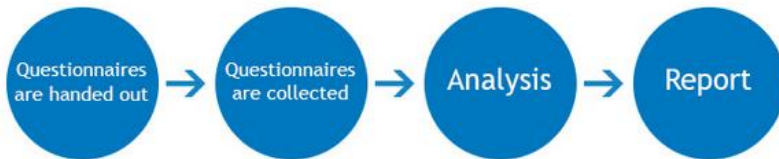
Survey Solutions

Switching from PAPI to modern data collection methods



- the most commonly used method of collecting data
- the interviewer has a printed questionnaire, interviews the respondents and fills in the questionnaire responses.

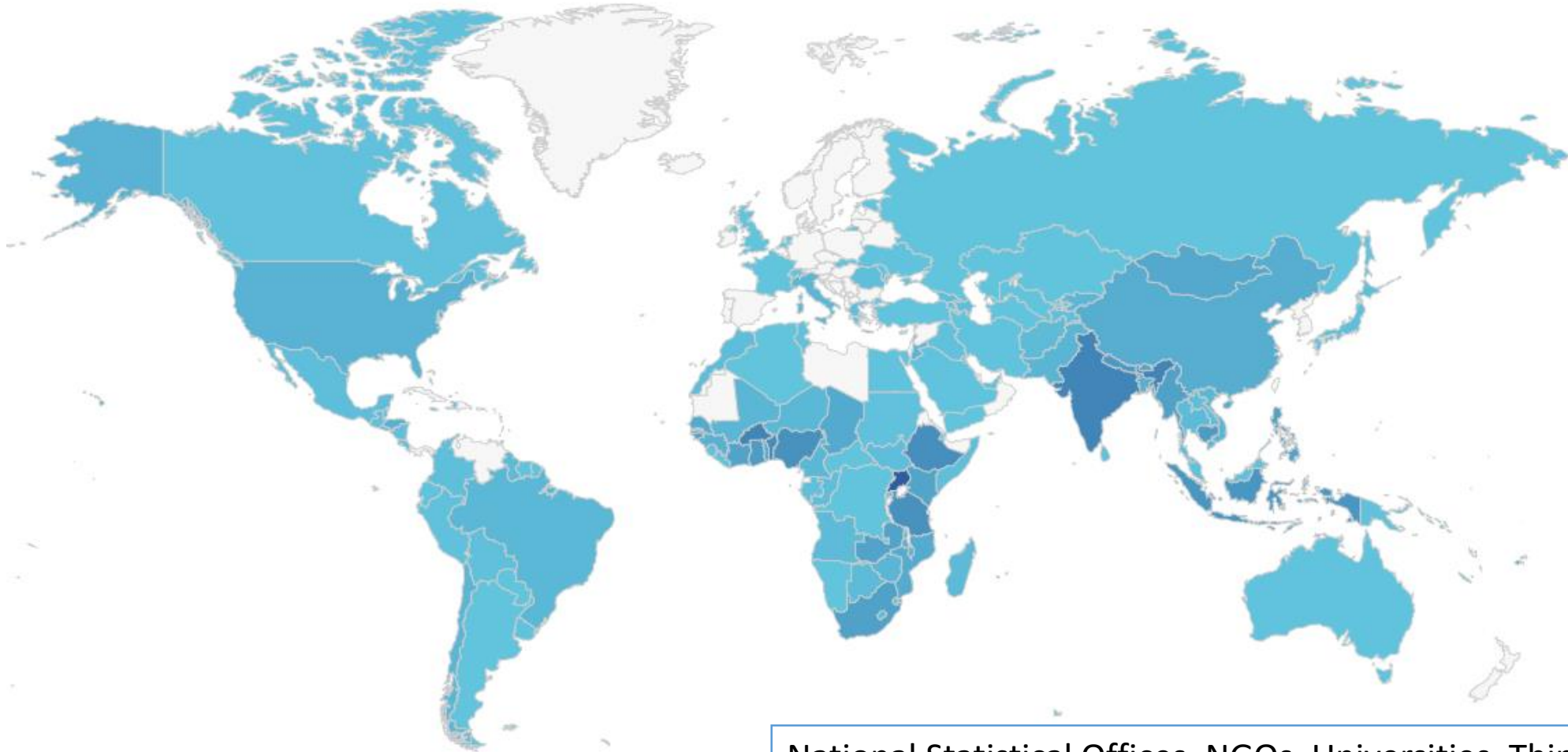
- a survey carried out in direct communication with the respondent (it is also called face to face), with the data being recorded on a tablet PC.





**Survey
Solutions**

A CAPI/CAWI Solution (not only) for
Romanian NIS

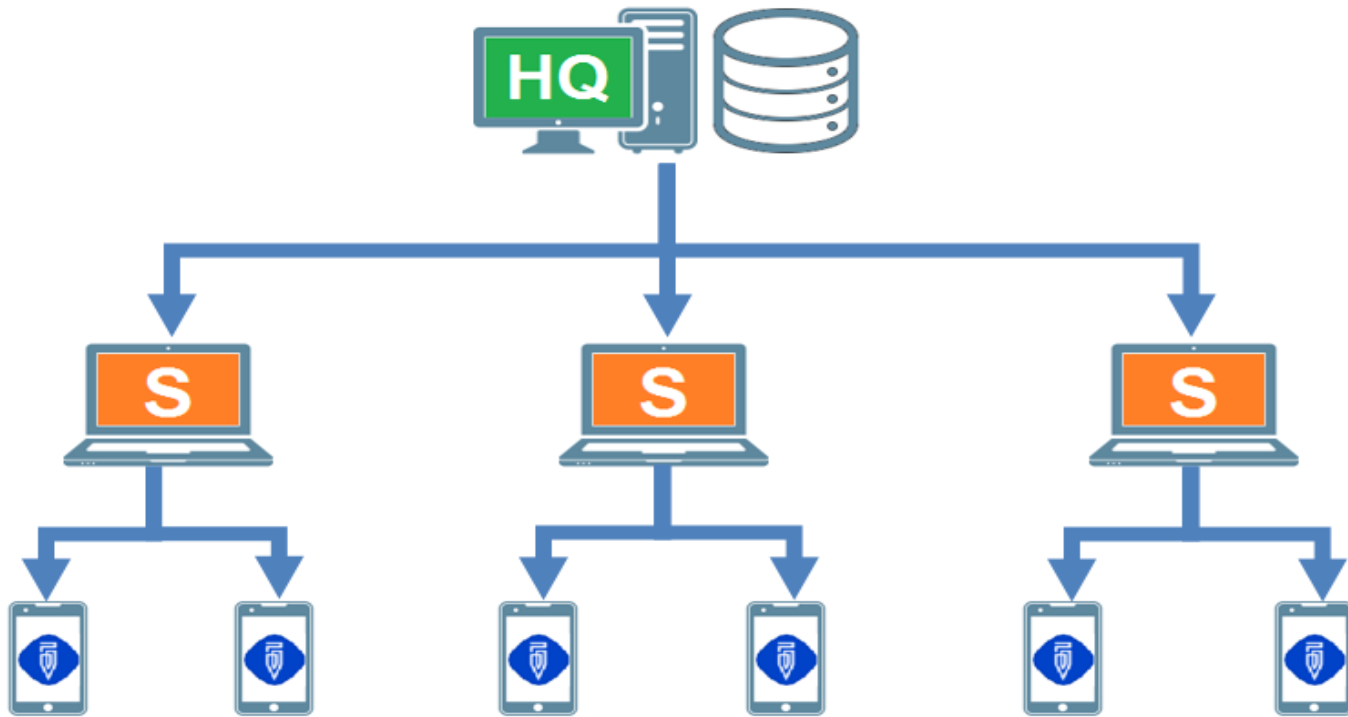


Source: <https://mysurvey.solutions/>

National Statistical Offices, NGOs, Universities, Think Tanks,
Private Survey Firms



General overview of CAPI



The assignments are distributed to the interviewers



Survey Solutions

Main characteristics (1)

Capture any type of data with ease

- **Design surveys** with a full range of standard questions, use nested rosters, cascading and linked questions.
- Programming language: **C#**
- **Modern data captures:** barcodes, pictures and audio and record information from external sensors.

Control quality of your data

- Validate the answers by using enclosed conditions; use macros, calculated variables and lookup tables to **construct sophisticated data validation algorithms.**
- **Monitor survey progress in real time** by analyzing rich paradata.



**Survey
Solutions**

Main characteristics (2)

CAPI/CAWI/CATI and mixed modes

- Collect the data offline on tablets (CAPI), online using web-interface (CAWI), capture phone interviews (CATI), and conduct cost efficient **mixed mode surveys**.

Secure and scalable

- Run surveys on highly secure, scalable and free World Bank Cloud or deploy Survey Solutions on the **own servers** to fully control who and how could access the data.



**Survey
Solutions**

Main characteristics (3)

Ultimate flexibility and customization

- Develop systems of automated quality controls, connect Survey Solutions with external databases, design custom dashboards and reports using APIs.

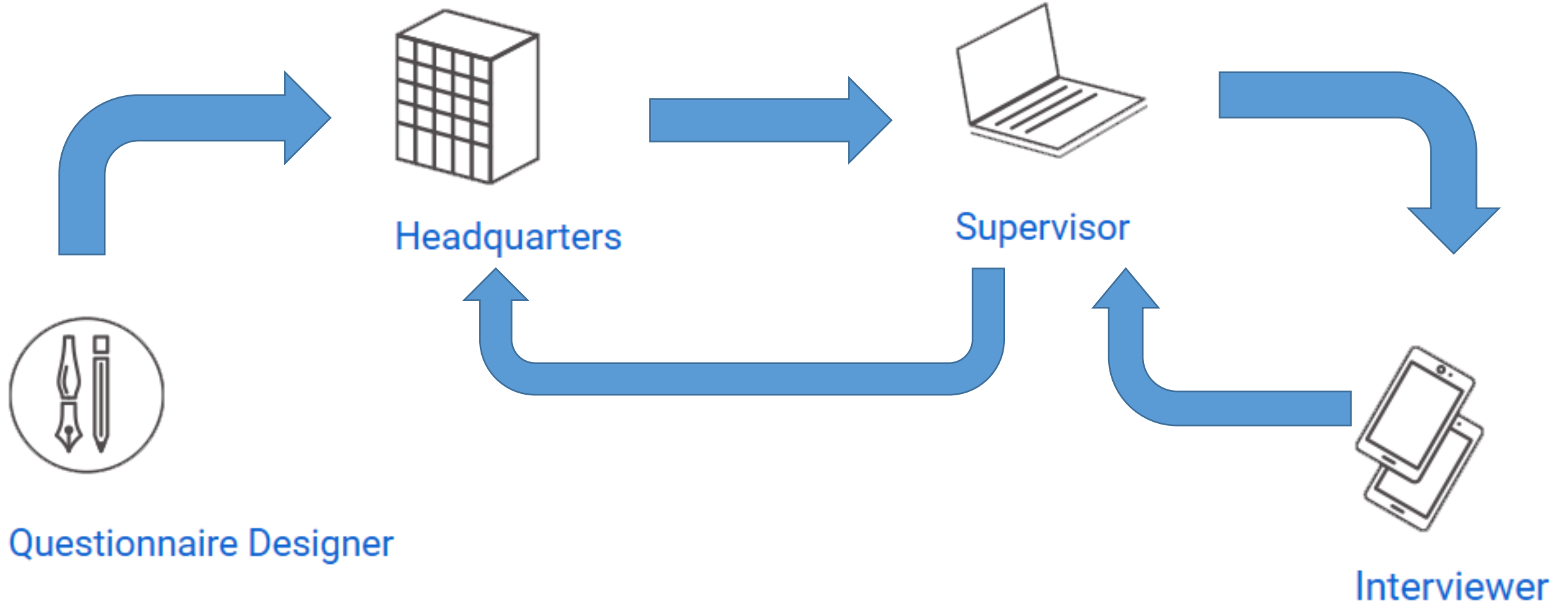
GIS

- Collect detailed GIS information on locations, distances, and areas, apply geofencing and guide interviewers to the point of interview offline using high resolution satellite images and built-in GPS receivers.



**Survey
Solutions**

Survey Flow for CAPI with Survey Solutions





**Survey
Solutions**

Questionnaire Designer

- Develop complex questionnaires in several languages
- Collaborate with colleagues on refining your instrument
- Quickly identify problems and get guidance from a powerful compiler
- Validate and enable questions by programming rules directly in the questionnaire
- Test questionnaires online and on tablets
- Produce richly formatted PDF documents for documentation and quality assurance review



**Survey
Solutions**

Headquarters, Supervisor and Interviewer

HQ

- Loads the questionnaire from the designer to the server
- Sends the sample for the survey to the Supervisor
- Final approval of the completed interviews

SV

- Assigns the sample to the interviewers
- First approval of the completed interviews

INT

- Accesses and completes the assigned interviews in the Interviewer App on the tablet
- Sends the completed interviews to SV for approval



**Survey
Solutions**

Romanian NIS case: 2017 – present

- Starting 2017: training of NIS employees by WB representative
- April 2018: Testing the CAPI method on the 2018 **ICT** household survey (160 tablets)
- April 2019: CAPI method on the **ICT** survey extended to 496 tablets
- QIV 2018: Testing the CAPI method on the **LFS** household survey: 160 tablets – 5760 households (20% of the LFS sample)
- Q1 2019: Following the success of the CAPI testing, NIS continued to use the 160 tablets for the **LFS**
- April 2019: CAPI method on the **LFS** extended to 496 tablets – 496 (60% of the LFS sample)



**Survey
Solutions**

Romanian NIS case: future challenges

- Extend the use of CAPI to the entire LFS and ICT sample
- Introduce CAPI for other household surveys carried out in the Romanian NIS
- Census 2021: use of a mixed mode data collection method, introducing both CAPI and CAWI for the census

**Thank you for your
attention!**