



R-indicators for Assessing Representativeness for Surveys, Administrative Data and Non-probability Samples

PROGRAMMA

In this presentation, we focus on the use of Representativity (R-) Indicators to assess representativeness in survey and non-survey data. We start with the initial purpose of developing R-indicators for use in adaptive survey designs in probability-based surveys. Through the analysis of R-indicators, we can build profiles (characteristics) of the data units where more or less attention is required in the data collection. We present an application of an adaptive survey design for the Dutch Crime Victimization Survey. R-indicators have been extended to allow for assessing representativeness in survey data when information about nonrespondents is not available. For this purpose, we can use population marginal and cross-tabulations to use as 'plug-ins' under a linear regression for estimating response propensities and R-indicators. We demonstrate with an application where R-indicators were successfully applied to assess representativeness in the 2011 EU-SILC datasets using 2011 European census counts as population benchmarks. More recently, R-indicators have been developed to assess representativeness in non-survey data sources, namely administrative data and non-probability samples. We show applications on assessing representativeness in non-survey data, making use of high-quality survey data collections to produce the population benchmarks.

DATA

06 June 2025

FINALITÀ

Researchers learning about R-indicators can assess representativeness in survey data and other forms of non-survey data.

DESTINATARI

Experts on statistical methodology and Survey Managers.

DOCENTI

Natalie Shlomo. Full Professor of Social Statistics at the University of Manchester. She publishes widely in survey statistics and survey methodology. She is an elected member of the International Statistical Institute (ISI), a fellow of the Royal Statistical Society, a fellow of the Academy of Social Sciences and President 2023-2025 of the International Association of Survey Statisticians. She also serves on international Methodology Advisory Boards at National Statistical Institutes. Homepage:

<https://www.research.manchester.ac.uk/portal/natalie.shlomo.html>

Master class is promoted by the Advisory Committee for Statistical Methodologies in collaboration with DCRU/CRS

Program

9:30 – 9:35

Orietta Luzi: Greetings and introductions to the Master class

9:35 - 10:35

Natalie Shlomo: R-indicators for Assessing Representativeness for Surveys, Administrative Data and Non-probability Samples

10:35 – 11:00

Discussion

METODOLOGIA DIDATTICA

Lezioni teoriche ed applicazioni.

LUOGO

Aula Magna, Via Cesare Balbo
16 – Roma

Teams

INFO

Angela Rosa – Lucia Mazzucco
webinar@istat.it

