

University of Ljubljana

FACULTY OF
ECONOMICS



Statistics
Netherlands

WASHINGTON STATE
UNIVERSITY



UNIVERSITY OF
Southampton



Qualitative Testing for Official Establishment Survey Questionnaires

Mojca Bavdaž – University of Ljubljana

Deirdre Giesen – Statistics Netherlands

Danna L. Moore – Washington State University

Paul A. Smith – University of Southampton

Jacqui Jones – Australian Bureau of Statistics

International Conference on Questionnaire Design,
Development, Evaluation, and Testing (QDET2)

November 10, 2016

Outline

- An international survey of NSIs
- Recommendations vs. practices of qualitative testing:
 - Design
 - Sampling
 - Data collection
 - Data capture and analysis
 - Reporting and beyond
- Conclusions

International Survey of Qualitative Testing Practice for Business and Establishment Surveys

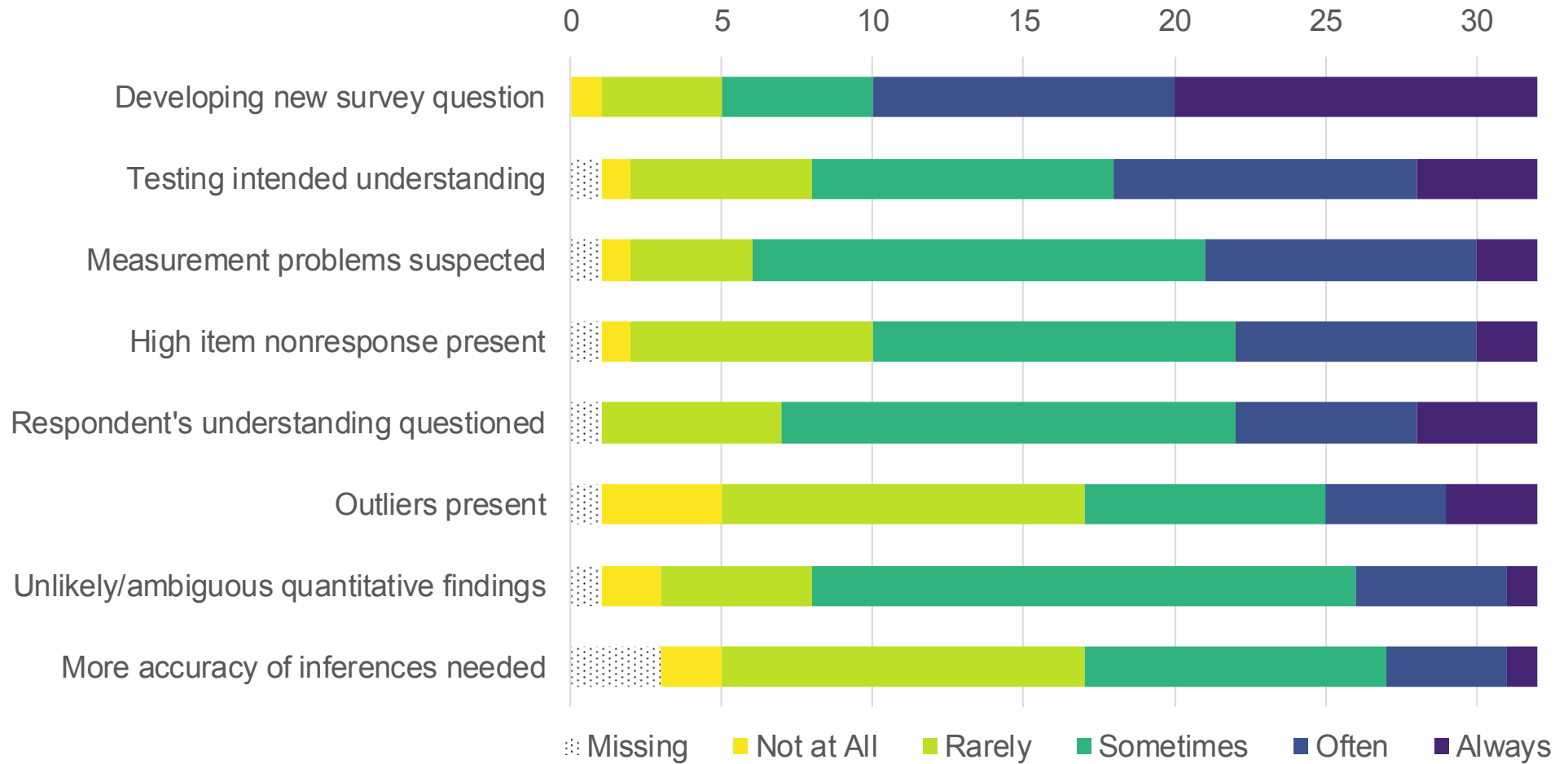
- Establishment survey about establishment surveys
- **Purpose:** Understand use of qualitative testing methods in statistical organizations for question and questionnaire evaluation in establishment and business surveys
- Web survey of National Statistical Institutes/Agencies, registered members ISI.
 - Initial N=232 from 215 countries
 - Contact established with 95 NSIs
 - 90 of these conduct establishment surveys
 - 53 of 90 report qualitative testing
 - 32 of 53 sufficiently complete responses: 3 Africa; 1 Asia; 14 Europe; 3 Latin America and the Caribbean; 9 North America ; 2 Oceania.

Use of qualitative methods in questionnaire development



- *Pre-test new components of a survey with qualitative methods*

Qualitative research conducted when...

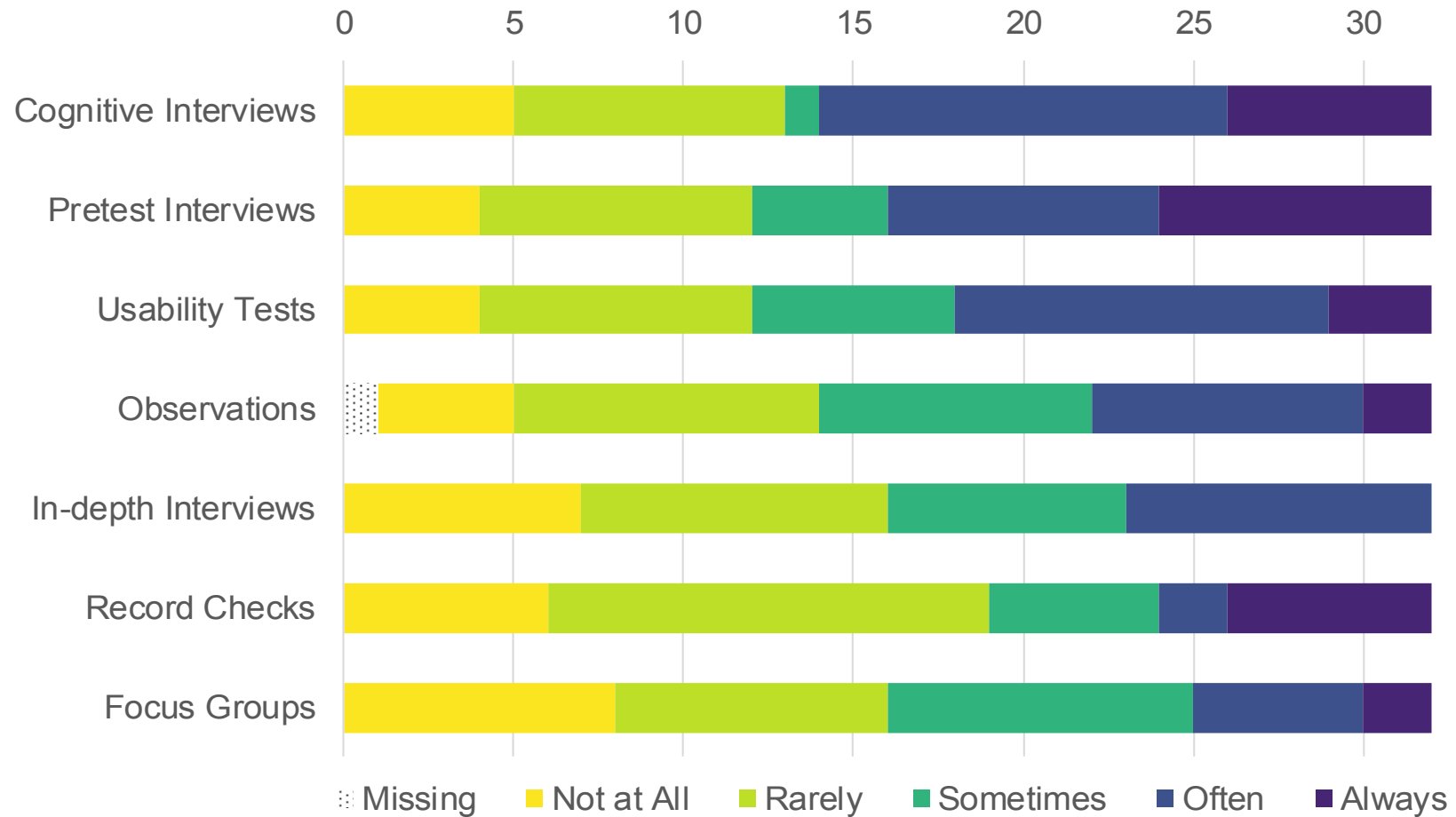


Overall design



- *Use more than one testing method*

Methods generally used

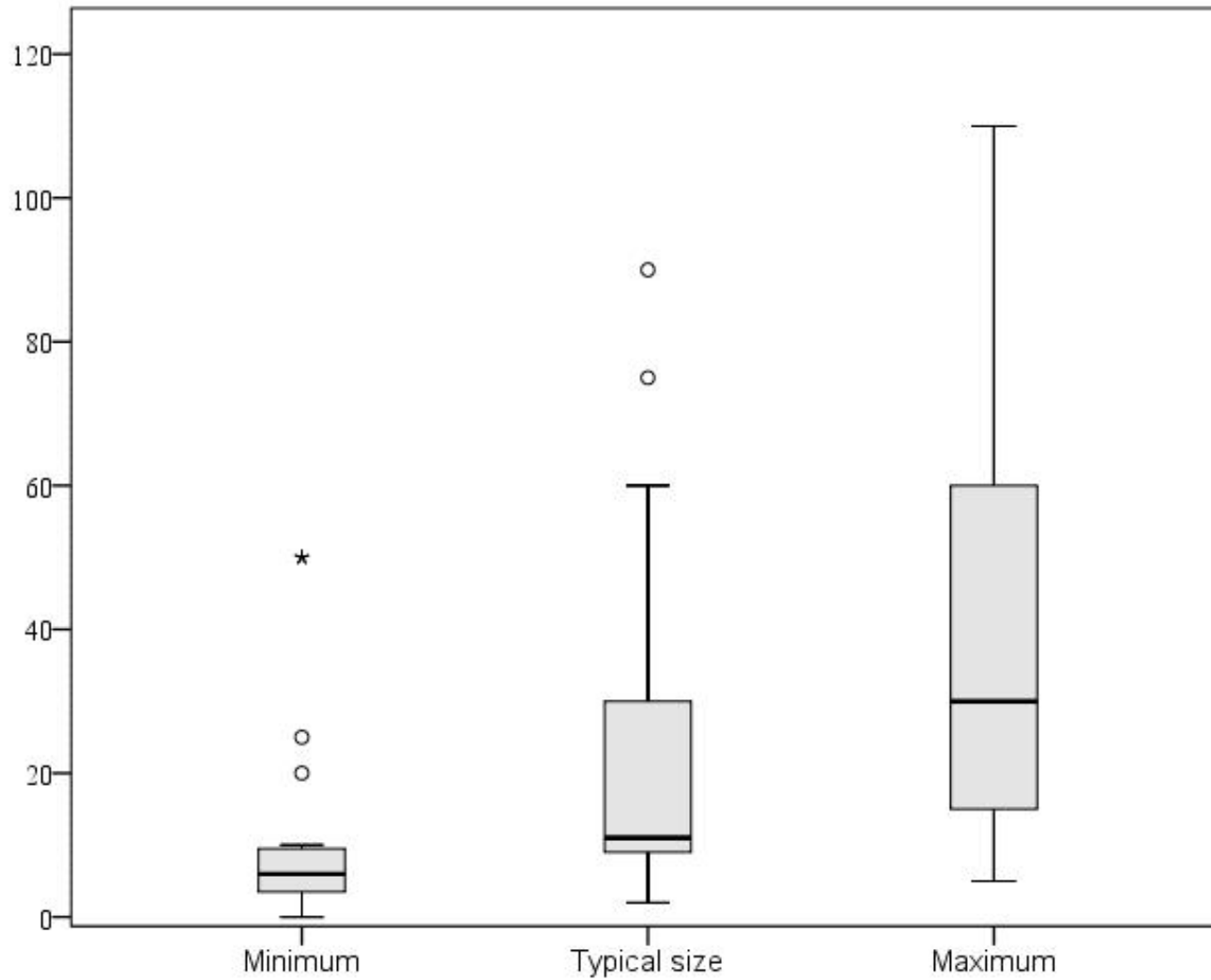


Sampling and recruitment

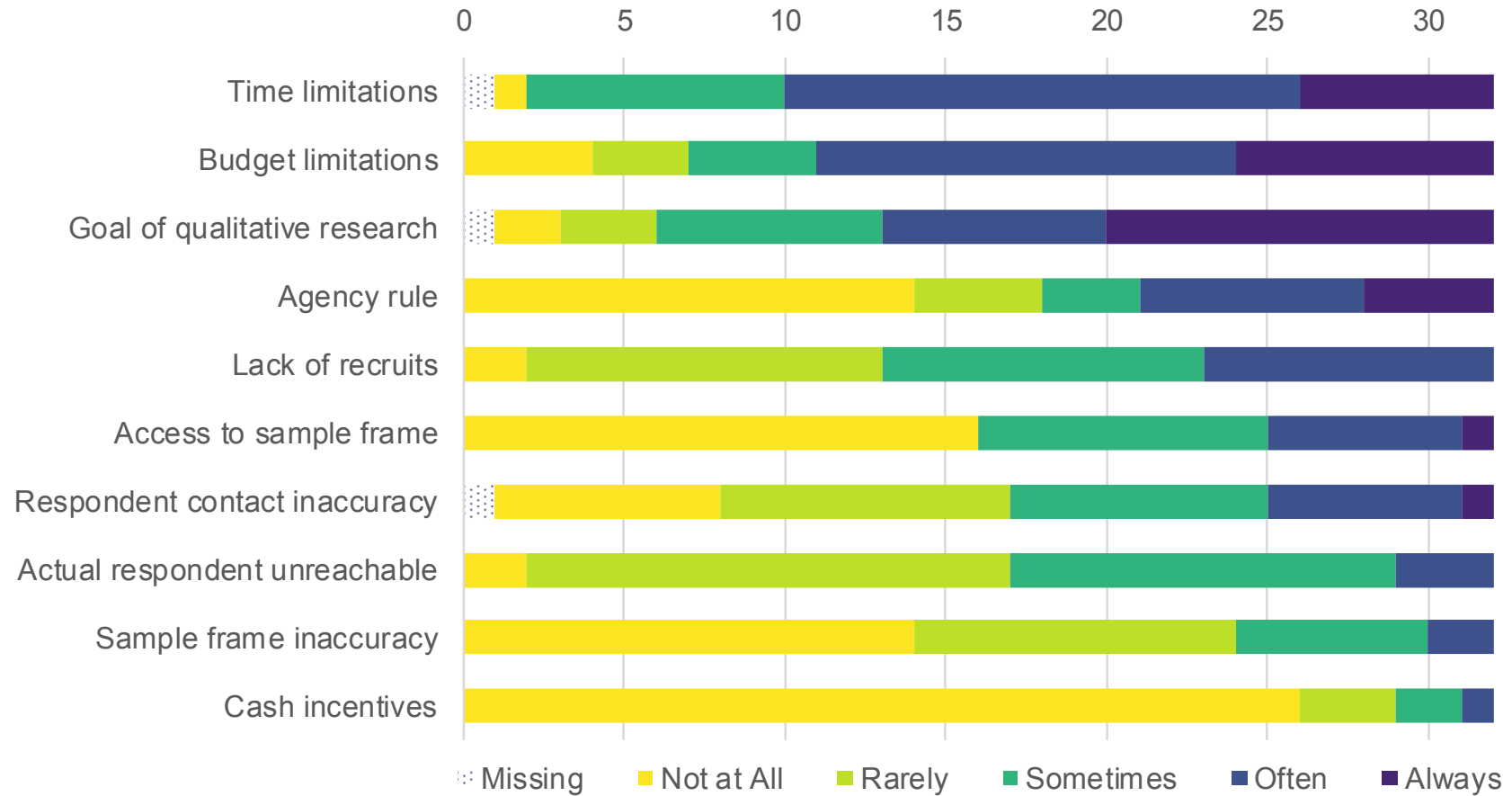


- *Use sample sizes that allow saturation*
- *Sample for the greatest variety in as many relevant characteristics as possible*
- *Document sampling decisions, recruitment processes and outcome*
- *Reflect on the achieved sample*

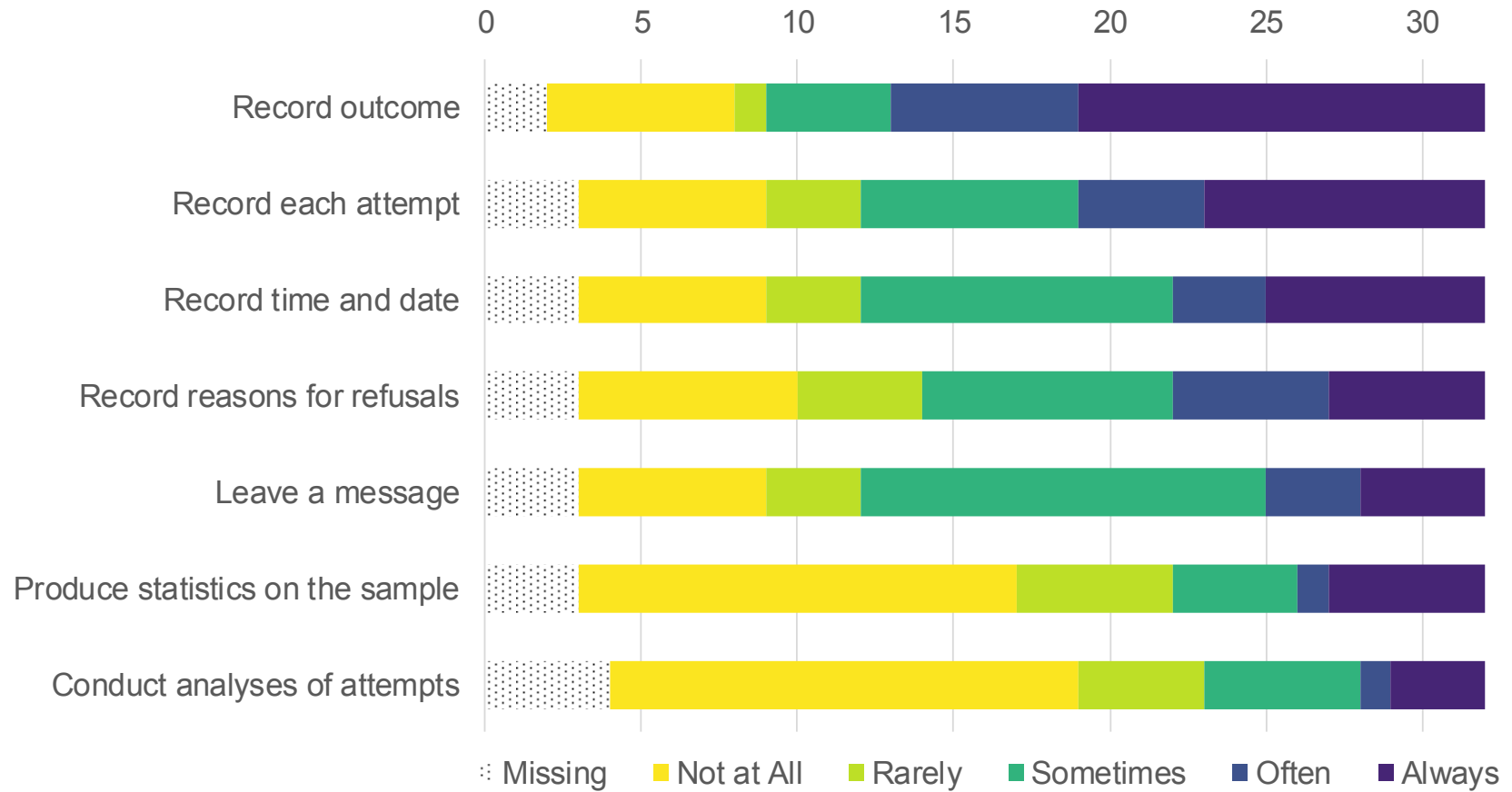
Sample sizes



Reasons for sample size choices



Recruitment practices

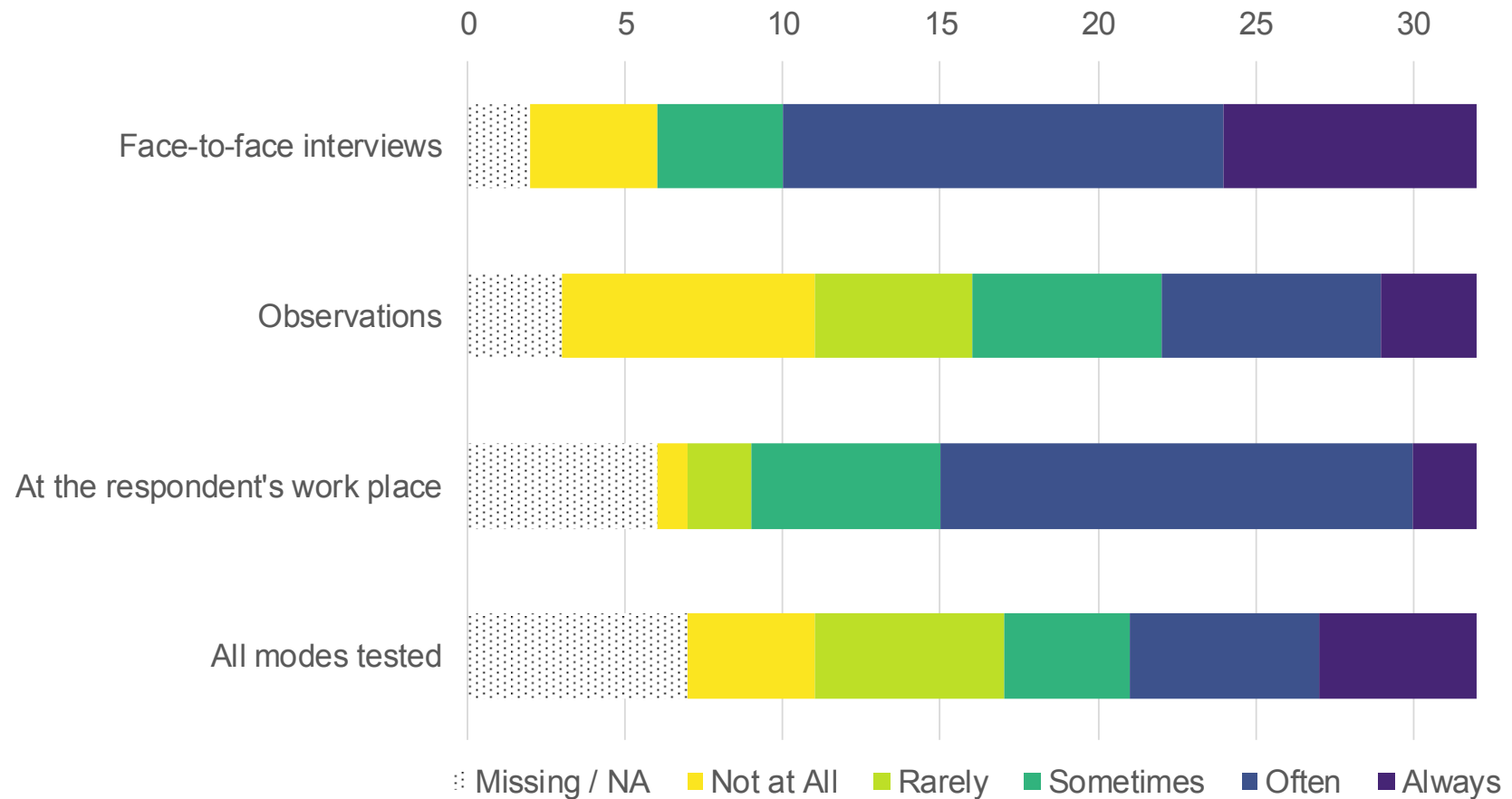


Data collection practices



- *Secure interviewer competences*
 - *Qualitative interviewing skills*
 - *Content matter knowledge*
 - *Knowledge about the goal of the testing*
- *Test as realistically as possible*
 - *Use observation and reconstruction of the response process*
 - *Test mixed-mode questionnaires in all relevant modes*

Use of some best data collection practices

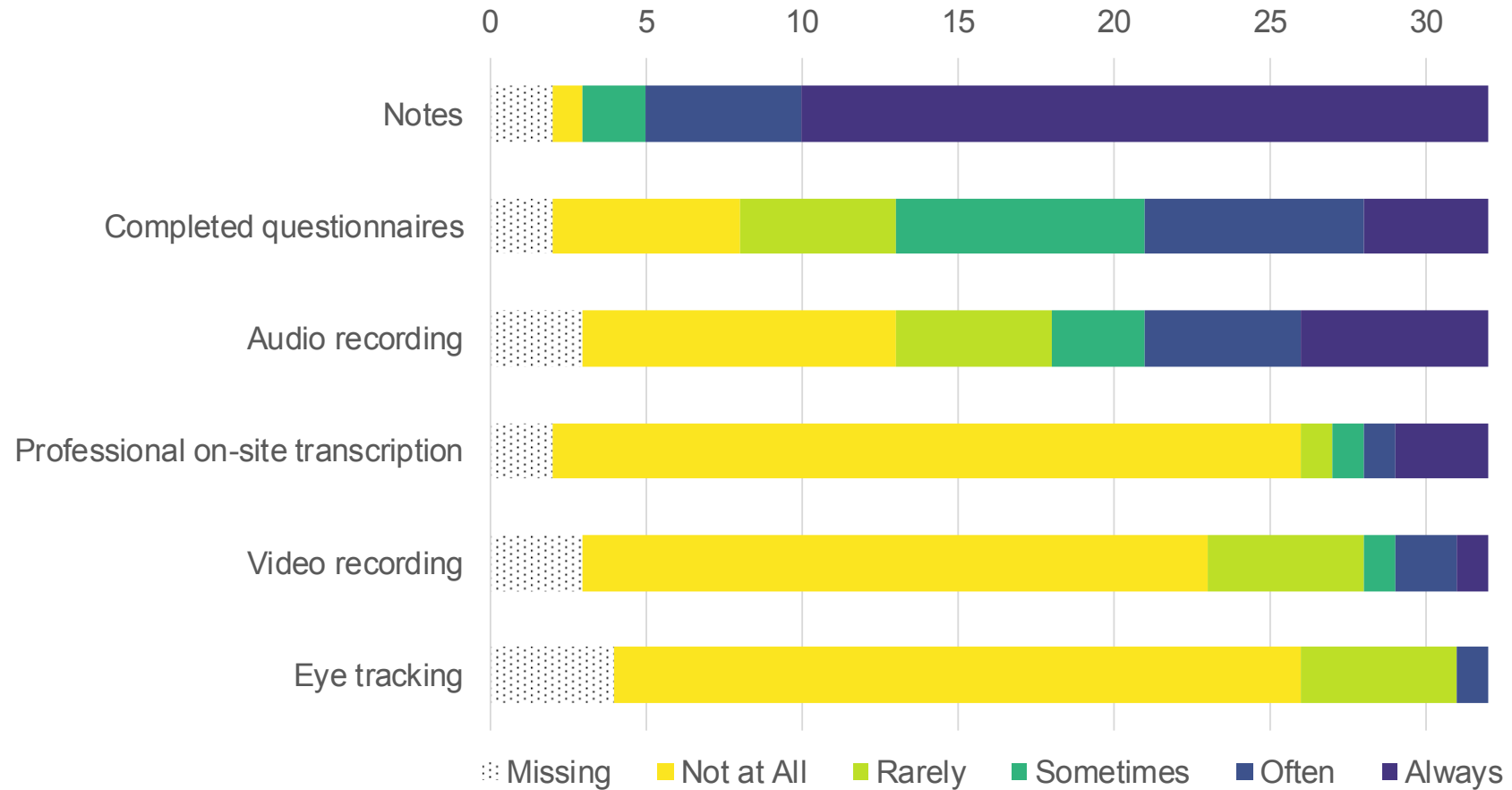


Capturing data



- *Capture data as naturally as possible by making video- or audio-recordings, or transcriptions*

Ways of capturing raw data

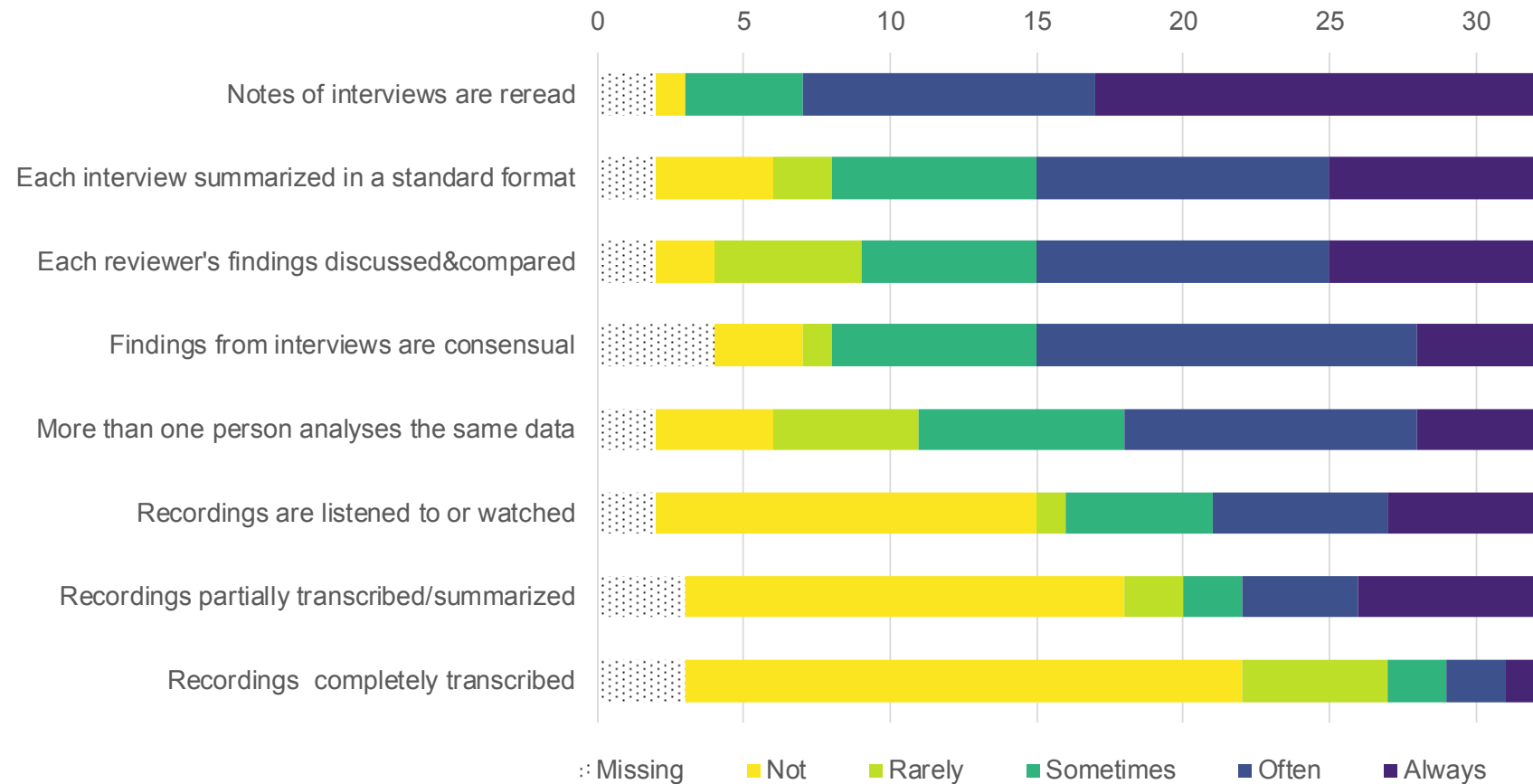


Analyzing data

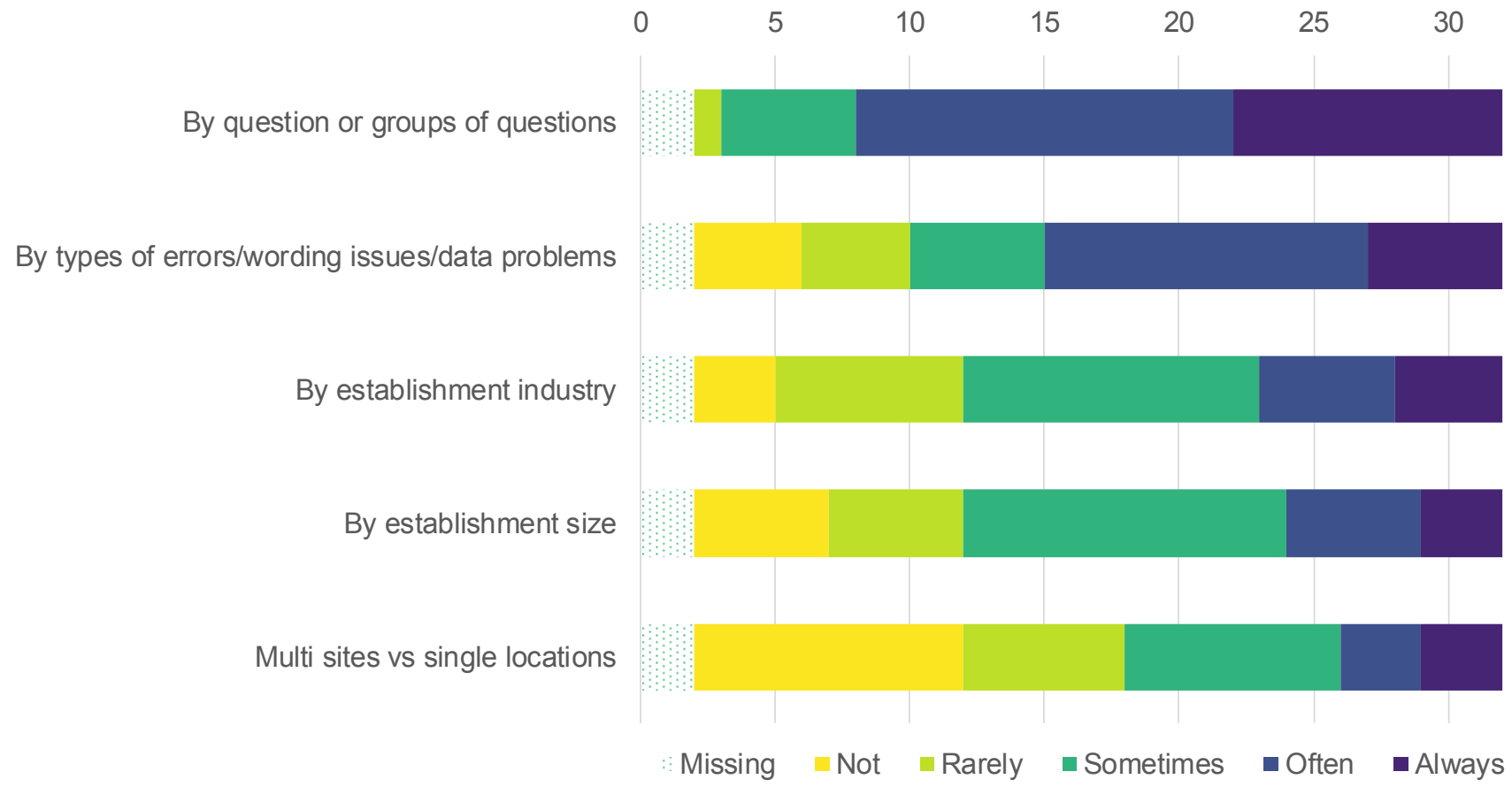


- *Summarize raw data in a structured and systematic way*
- *Involve more than one researcher in the analysis process*
- *Use or at least have access to raw data during analysis*
- *Analyze data not only by question but also by sources of measurement errors and by parts of the response process*

Practices in analyzing data



Ways of summarizing data



Reporting



- *Document study design and results*
- *Do this in a way that makes the research process and outcome traceable and understandable*

What information is included in reports on establishment survey qualitative testing?

Cognitive Interviewing Reporting Framework (Boeijs & Willis, 2013)

The International Survey of NSIs

Research objectives

Research design

Ethics

Participant selection

Number of interviewed businesses
Types of interviewed businesses

Data collection

How the data collected

Data analysis

How the interviewing data analyzed

Findings

Conclusions, implications, and discussion

Strengths and limitations of the study

Report format

Tested questions/instrument
Questions asked about tested questions

After recommendations



- *Follow up and document if and how recommendations were implemented*
- *Evaluate with field-work data how well the questionnaire worked in practice, and use this information to reflect on design and results of the pre-test*

What happens after recommendations?

- 27 of 31 NSIs report that recommendations are often/always implemented.
- 17 of 28 NSIs report they never or rarely use other data to check how correct the recommendations were.

Conclusion: extent of using qualitative methods at all

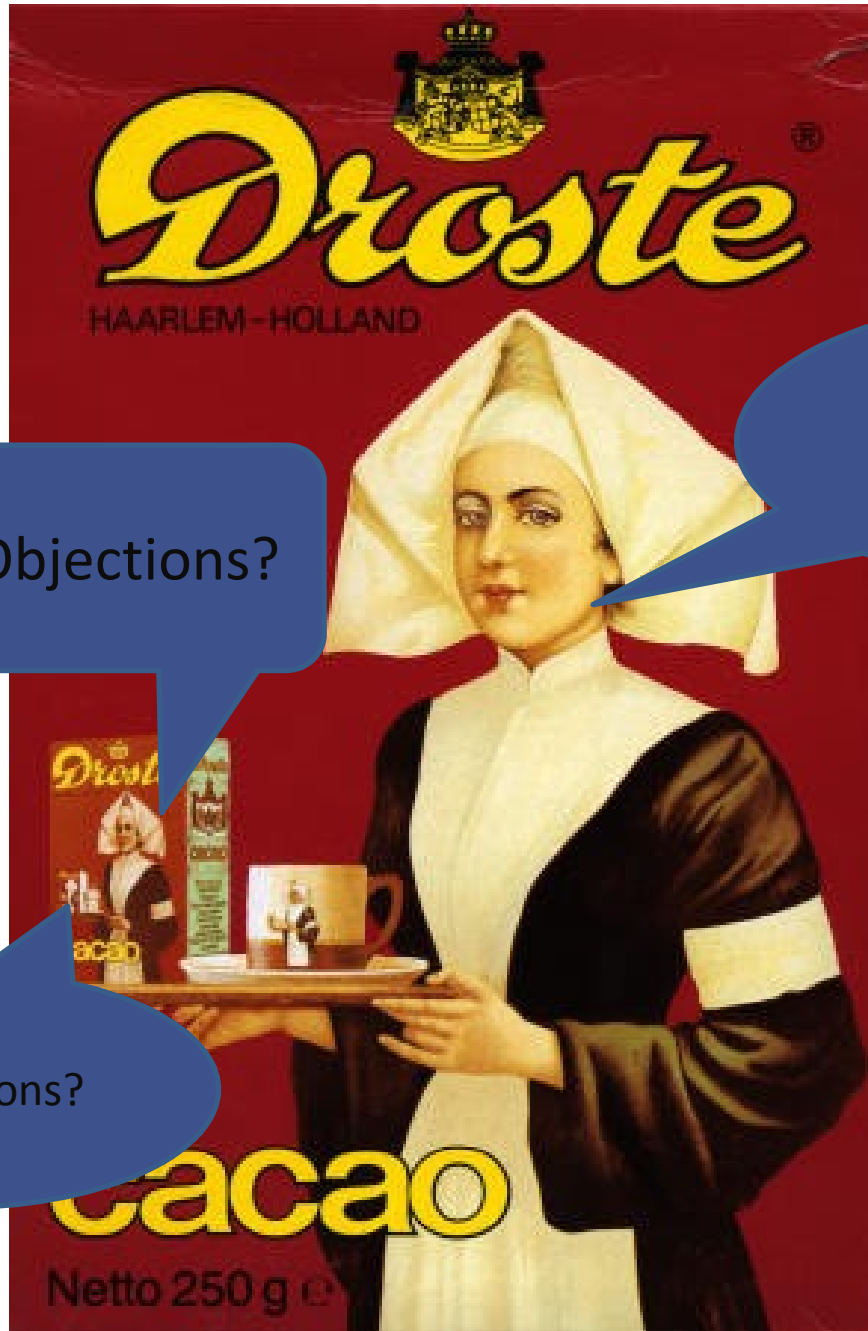
- Difficult to get information on qualitative testing practices from NSIs worldwide.
- Qualitative methods not everywhere used as standard practice in establishment survey questionnaire development and evaluation.



Need for more promotion and education for using qualitative methods in questionnaire evaluation, also for businesses.

Conclusion: ways of using qualitative methods

- Lack of guidance on good practices
- To the extent available: many good practices followed, but room for improvement to increase quality and accountability of research process
 - Larger samples (probably)
 - Better documentation for recruitment practices
 - Better capture of data collection (e.g. audiotaping)
 - More in-depth analysis
 - More follow up/evaluation after testing project



Objections?

Questions?

Suggestions?