

# Benefit and challenges in the implementation of international survey design standards in a national context: Lessons learned from PIAAC

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## PIAAC at a glance

- OECD survey of adults aged 16-65 years across 24 countries
- Goal: Production of high-quality and internationally comparable data
- BQ (F2F) and assessment in literacy, numeracy and problem solving in technology-rich environments
- Data collection period: August 2011 March 2012
- Publication of first results: October 8, 2013





# International Activities for Achievement of PIAAC Objective

- Comprehensive set of standards and guidelines (OECD, 2010)
  - + Well structured, provide orientation and guidance for the implementation of best practices, standardization
  - Not always flexible enough to accommodate national standards or constraints
- Thorough quality control by international Consortium
  - + Provide custom-made information to the Consortium, support countries in planning and organization of processes
  - Very time consuming; not always adequate for national processes
- Final judgment of global quality of data
  - + Feedback on "fitness for use"
  - Strict classification scheme with partially restricted focus



### Special focus I: Response Rate Standard

- Minimum overall response rate of 70%
  - → Data generally be included in reports unless indication of serious levels of bias in country data
  - → Evidence: Basic NRB analyses
- Response rates between 50% and 70% acceptable
  - → Data included in reports if countries provided analyses indicating that the potential nonresponse and undercoverage biases within acceptable limits
  - → Evidence: Basic and extended NRB analyses





## **PIAAC** in Germany

- Funded by Federal Ministry of Education and Research
- Registry sample
- Sample size: 5 465 completed cases
- Implementation of two main fieldwork periods with various re-issues
- Response rate challenge
  - German field test → 36%
  - ESS Germany → Round 5: 31% / Round 6: 34%
  - German General Social Survey → 2008: 40% / 2010: 34%
- Considerable efforts to achieve high response rate while keeping bias low



#### Set of measures for PIAAC Germany

- Advance letter
- Brochure and flyer
- Endorsement letter/tailored letters
- Press releases
- Website
- First contact in-person
- 4 contact attempts minimum
- Refusal conversion
- Tracing respondents
- Non-monetary unconditional incentive
- Attractive conditional incentive of 50 Euros

- 129 experienced interviewers with excellent track record
- 5-day interviewer training
- 4-week exclusive assignment for PIAAC
- Attractive interviewer remuneration
- Add-on for addresses in cities with 100 000 inhabitants or more
- Thorough fieldwork supervision and monitoring by SO and NPM Team



### Results for PIAAC in Germany

- Achieved overall PIAAC response rate: 55%
  - very good result for Germany
- Basic and extended NRB analyses: Pass
- Data adjudication result for domain "Coverage and Nonresponse Bias": Caution-Bias low
- → Caution because RR < 70%





### International Response Rate Results

Number of countries	Registry Country	Screener Country
Overall <sup>1), 2)</sup>	14	11
with RR < 50%	2	
with RR between 50% and 70%	12	6
with RR ≥ 70%		5
Ø Response Rate*	55.9%	66.3%

- → Majority of countries could not fulfill RR standard of minimum 70%
- → In general, screener countries achieve higher response rates
- → Re-assess response rate requirement for registry countries Member of the

Notes: 1) Total of 25 countries, because England und Northern Ireland are counted separately. 2) Number of registry/screener countries and response rates see OECD (2013). --- = none. \*) Difference between response rates significant (p<.01).



### Special focus II: Validation Standard

- Verification of 10% of each interviewer's finalized work
- Validation of all dispositions (completes, ineligibles, non-contacts, refusals)
- Random selection of cases
- Validation by phone or in-person
- Review of at least two audio-taped interviews per interviewer



# Standard Validation for Registry Samples at German Survey Organization

- Validation of all completed cases with the focus on identifying falsification
  - Via consistency checks of interview and register data
  - Via mail with validation questionnaire; if needed, resolution by phone
- No validation of other dispositions
  - Falsification risk highest for interviews, because interviewers are paid a piece rate
  - Legal national restrictions: By law, it is not allowed to reapproach hard refusals





# Non-standard validation measures implemented in PIAAC Germany

- Validation of some ineligibles
- Validation of all non-interviews due to disability by mail
- Validation of some non-contacts by phone
- Validation of some soft refusals by person
- Audio recordings





## Assessment of validation standards in German context

- Validation of all dispositions: questionable
  - Ineligibles: no longer traceable
  - SP with disability: ethically not justifiable
  - Hard refusal: legal restrictions
  - Soft refusals after main working phase: primary goal is refusal conversion
  - Non-contacts & movers: How do they know that they were contacted by an interviewer?





# Assessment of validation standards in national context (cont.)

- Random selection of cases → closely connected with validation of all dispositions
- Validation by phone → difficult
  - No phone numbers available from register
  - Quite a number of SPs have no landline but only unlisted cell phone numbers
- Review of at least two audio-taped interviews per interviewer → very useful



#### Conclusion

- Definition of and adherence to best practice standards for high quality data are of utmost importance
- Some standards should be revisited to be optimized for registry countries
- In part allow for more degrees of freedom to account for national constraints



## Thank you for your attention

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