

SHARE-RV:

Linking SHARE with data from records of the German Pension Fund

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Workshop "Linking survey and social security data"
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- Survey of Health, Ageing and Retirement in Europe
 - Multidisciplinary
 - Population 50+
 - Face-to-face
 - bi-annual, longitudinal



The Survey of Health, Ageing and Retirement in Europe (SHARE)

Wave 1, 2004

> SE, DK, NL, DE, BE, FR, CH, AT, ES, IT, GR

Wave 2, 2006

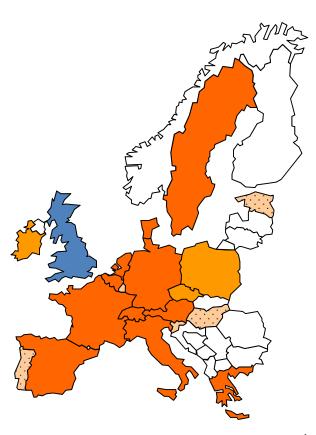
> + IE, CZ, PL, IL

Wave 3, 2008

Retrospective life histories (SHARELIFE)
DE: Pilot study on record linkage

Wave 4, 2010

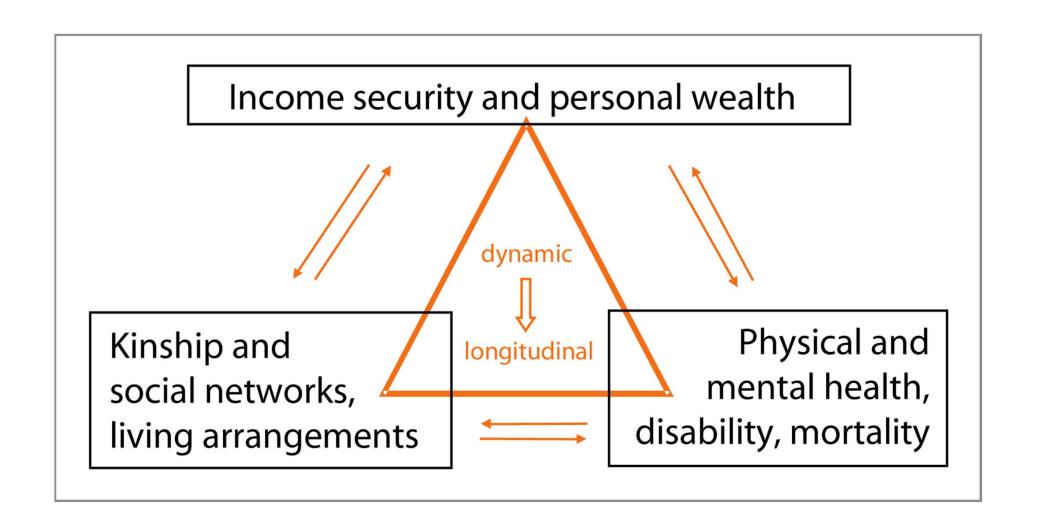
+ PT, LUX, SV, HU, EE expansion of the sample social network module DE: record linkage, biomarkers, nonresponse experiment







The Survey of Health, Ageing and Retirement in Europe (SHARE)



- Survey data (SHARE-Germany)
- Administrative records of the German Pension Fund (DRV)
 - Research Data Center
 - Longitudinal data of the insured population (VSKT)
 - Pension data (RTBN)



The Sample of the insured population's records

Persons included in the state pension scheme

- people who have at least one day of insured activity
- Insured activities are:
 - Schooling, university, vocational training, socially insured employment, military or civil service, child rearing, unemployment, caregiving, receipt of disability or old age pension
- Not included are following occupations:
 - civil servants, farmers, professionals (e. g. lawyers, medical doctors) who have different old age protection schemes
- No information available on spouse/household





Example for an employment biography in the administrative data



Adapted from Stegmann, 2011: FDZ-RV: Daten, Datenzugang und Service. Neunter Workshop des FDZ-RV.



Administrative records of the DRV

Pension data: (retirees)

- Year and month of the first payment
- ∑ earning points
- Amount of the pension paid by the DRV

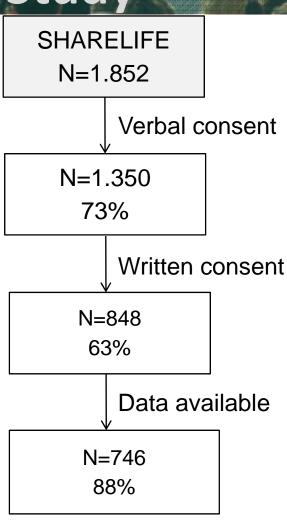
- Survey data (SHARE-Germany)
- Administrative records of the German Pension Fund (DRV)
 - Research Data Center
 - Longitudinal data of the insured population (VSKT)
 - Pension data (RTBN)
- Identification of data from the records of the FDZ-RV via Social Security Number (SSN)
- Written consent



SHARELIFE: Pilot Study

Summary:

- Gap between verbal and written consent
- Empty records at DRV reduce number of cases



SHARELIFE: Release 1.0



when linking survey and administrative data in SHARE

- Identifier
- Respondents' consent



1) Identifier

Social Security Number (SSN)
 Do respondents provide their SSN?

SSN provided	all	W3	W4
Yes	75.3%	88.2%	60.8%
No	24.7%	11.8%	39.2%

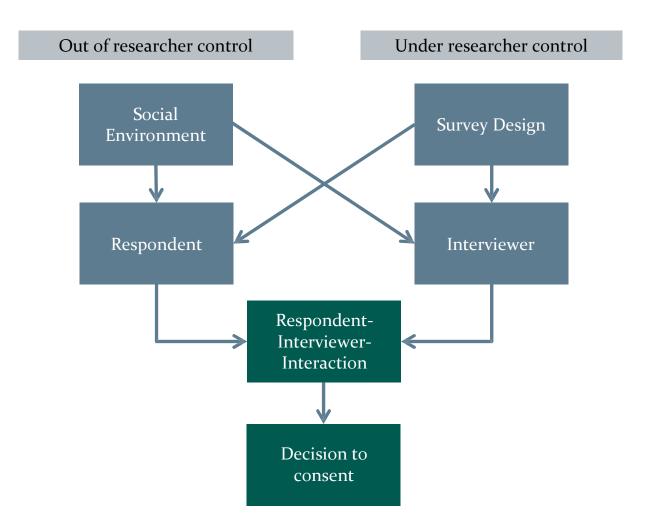


1) Identifier

- possible to collect in a survey
- some additional work to identify respondents if SSN missing
- 97,5% could be identified in the records of the German Pension Fund

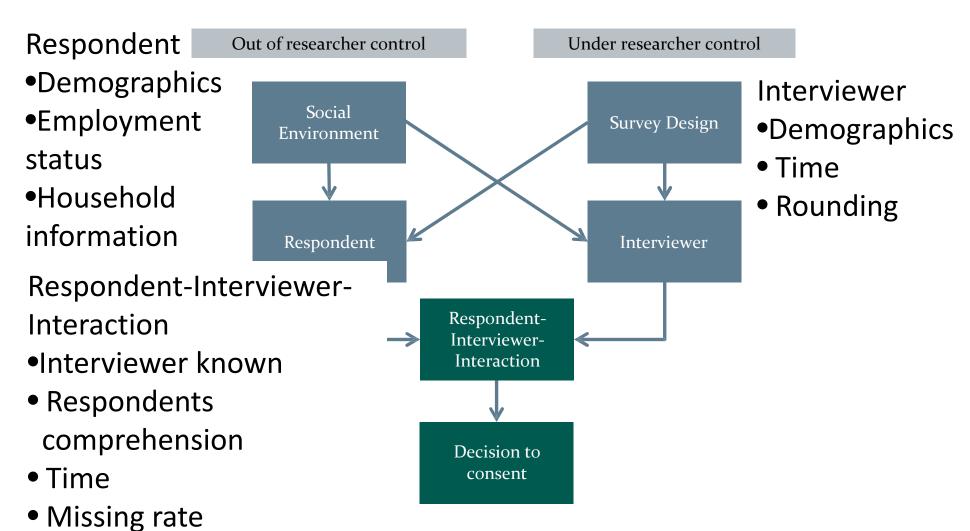
- 2) Consent to record linkage
 - Decreases the number of cases
 - Systematic differences between consenters and non –consenters -> consent bias
 - Determinants of consent (verbal consent)





Adapted from: conceptual framework for survey cooperation developed by Groves & Couper, 1998





• Interviewer experience

survey cooperation developed by Groves & Couper, 1998

- Mulitlevel logistic regression
- Respondents nested within interviewers
- Significant effects on all 3 areas
- Respondent (age, living with partner, ever divorced, GDR, urban area, income)
- Interview situation (RES comprehension, missing rate, interviewers experience)
- Interviewer (age, rounding)

The role of the interviewer

- Intra Class Correation (ICC): proportion of the variance coming from the interviewer level compared to the overall variance
- 0-Model: ICC= 55%
- Final Model: ICC= 35%
- very large interviewer influence



Administrative data are a useful extension to survey data

Room for improvement:

- More effort in interviewer training
- Make it easy for respondents
 - Huge gap between verbal and written consent
- Ask again



Thank you for your attention!

Questions or comments?