



#### Study on Transitions in Employment, Ability and Motivation (STREAM)







#### **OBJECTIVES**

In general:

To promote sustainable employability

Working longer in good health



More specific:

under which circumstances persons aged 45 and older can continue participating in paid employment with a high productivity and in good health





#### **DESIGN**

- > Employees, self-employed, non-working of 45-64 years old
- Internet panel Intomart GfK
- Stratified sample

Age	Employees	Self- employed	Non-working	Total
45-49	3.001	254	482	3.737
50-54	3.001	250	520	3.771
55-59	3.495	252	526	4.273
60-64	2.558	273	506	3.337
Total	12.055	1.029	2.034	15.118

- Yearly measurements 2010, 2011, 2012, 2013, 2015
- Linkage to register data Statistics Netherlands
- Qualitative research in selection of participants





#### **DESIGN**

#### New study sample in 2015:

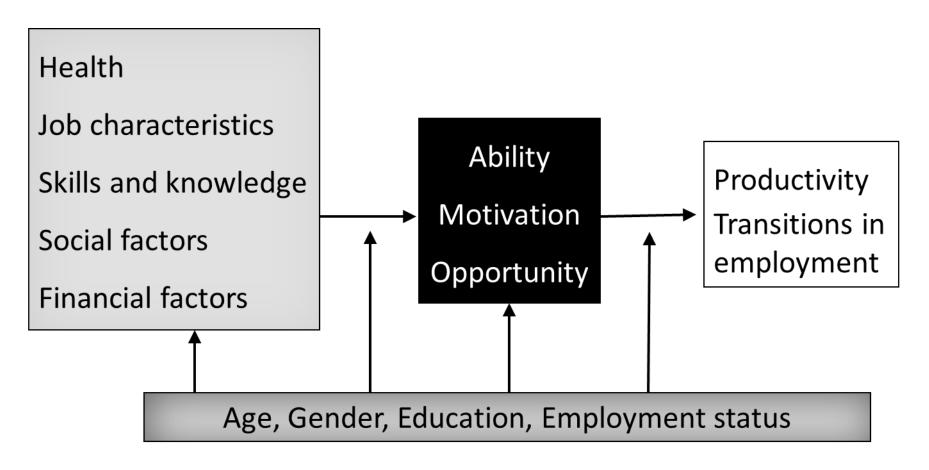
	Employed	Self-employed	Non-working	Total		
45-49 years	3702	282	515	4499		
50-54 years	753	67	19	839		
55-59 years	630	65	1	696		
60-64 years	622	60	0	682		
65-69 years	9	3	0	12		
Total	5716	477	535	6728		

- To fill the category of 45-49 years
- To add working participants in the older age groups



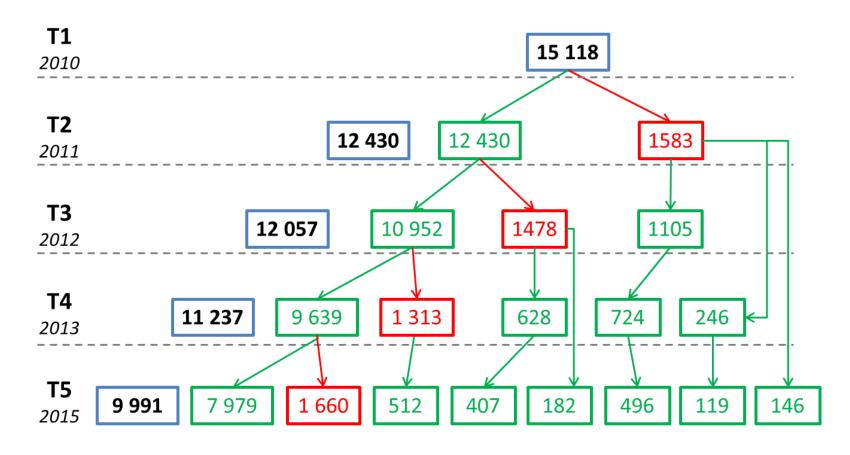


#### STREAM RESEARCH FRAMEWORK





#### **RESPONSE**



Complete cases: **7 979** 

New cases T5: **6 738** 



#### **RESULTS & PLANS**









#### **COMPLETED PHD PROJECTS**





From early retirement to working beyond retirement



Working longer in good health





#### **NEW PHD PROJECTS**





New patterns of work multiple job holding



Dynamics in the working lives of older adults and participation in other productive roles

- De Wind A, Geuskens GA, Reeuwijk KG, Westerman MJ, Ybema JF, Burdorf A, Bongers PM, van der Beek AJ. "Pathways through which health influences early retirement: a qualitative study". *BMC Public Health* 2013;13:292.
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  Berichten 2013;98(4655):152-155. [Dutch]
- De Wind A, Geuskens GA, Ybema JF, Blatter BM, Burdorf A, Bongers PM, van der Beek AJ. Health, job characteristics, skills, and social and financial factors in relation to early retirement results from a longitudinal study in the Netherlands. Scand J Work Environ Health 2014;40(2):186-194.
- Leijten F, Van den Heuvel S, Geuskens G, Ybema JF, de Wind A, Burdorf A, Robroek S. How do older employees with health problems remain productive at work?: a qualitative study. J Occup Rehabil 2013 Mar;23(1):115-24.
- Leijten FR, van den Heuvel SG, Ybema JF, Robroek SJ, Burdorf A. Do work factors modify the the association between chronic health problems and sickness absence among older employees? Scand J Work Environ Health
- Münderlein M, Ybema JF, Koster F, Happily ever after? Explaining turnover and retirement intentions of older workers in the Netherlands, Career Development International 2013;18(6).

2013;39(5):477-85.

- Reeuwijk KG, de Wind A, Westerman MJ, Ybema JF, van der Beek AJ, Geuskens GA. "'All those things together made me retire': qualitative study on early retirement among Dutch employees". BMC Public Health 2013;13:516.
- Sanders J, Van Wijk E, Boneschansker O, Ybema JF. From employment to employment

- mobility among low educated persons aged 45 and above [Van baan naar baanmobiliteit bij laagopgeleide 45-plussers]. Tijdschrift voor Arbeidsvraagstukken 2012;28:474-490. [Dutch] van de Vijfeijke H, Leijten FR, Ybema JF, van den Heuvel SG, Robroek SJ, van der Beek AJ, Burdorf A, Taris TW. Differential effects of mental and physical health and coping style on work ability: a 1-year follow-up study among aging workers. J Occup Environ Med 2013;55(10):1238-43.
- Ybema JF, Geuskens GA, van den Heuvel SG, de Wind A, Leijten FRM, Joling C, Blatter BM, Burdorf A, van der Beek AJ, Bongers PM. Study on Transitions in Employment, Ability and Motivation (STREAM): The design of a four-year longitudinal cohort study among 15,118 persons aged 45 to 64 years. British Journal of Medicine and Medical Research 2014; 4(6):1383-1399.

Rob Gründemann, Jan Fekke Ybema & Jos

- Sanders. Work values of low-skilled older workers. [Werkwaarden van laagopgeleide oudere werknemers] Gedrag & Organisatie 2014;(27)2:117-138. [Dutch]

  Leijten FR, van den Heuvel SG, Ybema JF, van der Beek AJ, Robroek SJ, Burdorf A. The influence of chronic health problems on work ability and productivity at work: a longitudinal study among older employees. Scand J Work Environ Health 2014;40(5):473-82. de Wind A, Geuskens GA, Ybema JF, Bongers PM, van der Beek AJ. The role of ability,
- motivation, and opportunity to work in the transition from work to early retirement testing and optimizing the Early Retirement Model.

  Scand J Work Environ Health 2015
- Scand J Work Environ Health 2015
  Jan;41(1):24-35.
- Leijten FR, van den Heuvel SG, van der Beek AJ, Ybema JF, Robroek SJ, Burdorf A. Associations of Work-Related Factors and Work Engagement with Mental and Physical

Health: A 1-Year Follow-up Study Among Older Workers. J Occup Rehabil 2015 Mar;25(1):86-95. Van der Westien SG, Ybema JF, de Wina A, Burdoff A, Geuskens GA. Company Policies on Working Hours and Night Work in Relation to Older Workers' Work Ability and Work Engagement: Results From a Dutch Longitudinal Study with 2 Year Follow-Up. J Occup Rehabil. 2015 Aug 7. [Epub ahead of print] Leijten FR, de Wind A, van den Heuvel SG, Ybema JF, van der Beek AJ, Robroek SJ, Burdorf A. The influence of chronic health problems and work-related factors on loss of paid employment among older workers. J Epidemiol Community Health. 2015 Nov;69(11):1058-65. Epub 2015 Jun 25. Dorenbosch L, Boneschansker O, Fermin B, Andriessen S, Sanders J, Geuskens G. Multi-

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Learning lags behind events; does training
help older employees recover from perceived
skills shortages? [Achter de feiten aan leren.
Helpt scholing oudere werknemers te
herstellen van kennistekorten? Tijdschrift voor
Arbeidsvraagstukken 2015;31. [Dutch]
Ybema JF, van der Meer L, Leijten FR.
Longitudinal Relationships Between
Organizational Justice, Productivity Loss, and
Sickness Absence Among Older Employees.
Int J Behav Med. 2016 Feb 25. [Epub ahead of
print]

jobbing as an employability strategy [Multi-

jobbing als employability-strategie]. Tijdschrift voor Arbeidsvraagstukken 2015;31:165-185.







#### **COLLABORATIONS**









NETHERLANDS INTERDISCIPLINARY DEMOGRAPHIC INSTITUTE







### drawbacks



## CHALLENGES

## limitations







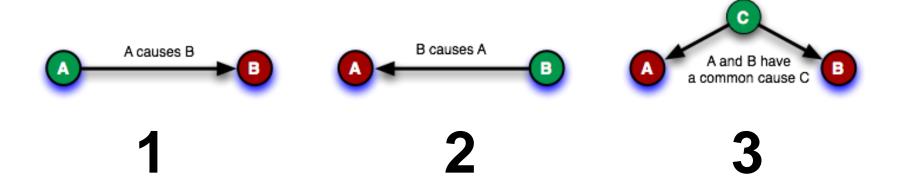




#### **CAUSALITY?**



#### "We found a relation between A and B"



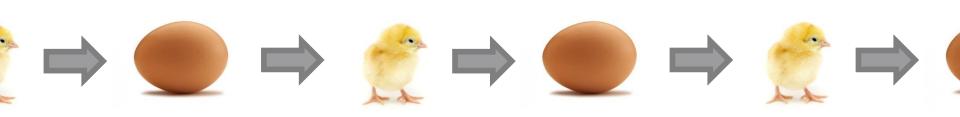




#### **CAUSALITY?**



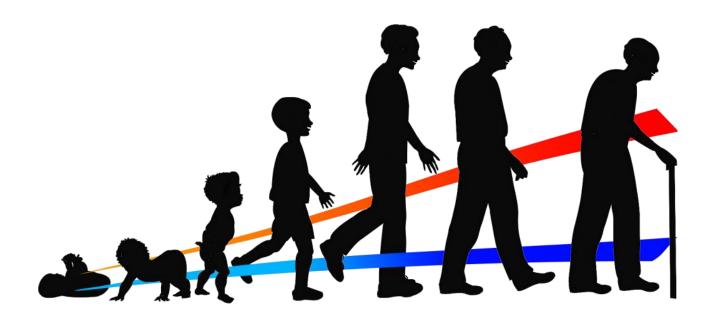
In longitudinal studies at least you know which came first







#### **LIMITATIONS IN TIME**

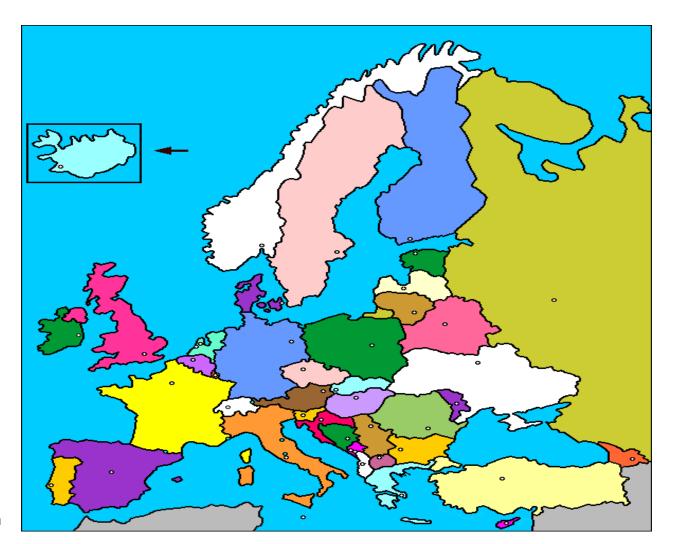


0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85





#### **LIMITATIONS IN REGION**



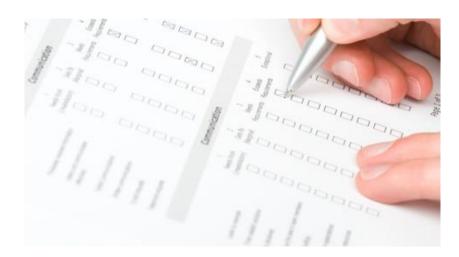




#### **QUESTIONNAIRES**

- ☐ Self-reports
  subjective measurements, not independent, some topics are not known to
  the respondents
- ☐ Limited space which topics, preferably short
- ☐ Irritating questions

  work after retirement? Why? I want to have an option 'not applicable'!

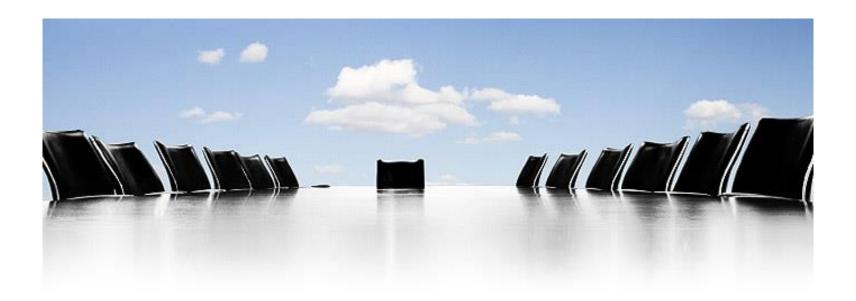






#### **COMPANY POLICIES**

- □ Cohort studies ≠ intervention studies
- What do workers know about the OSH-policy in their company?
- Effect of awareness

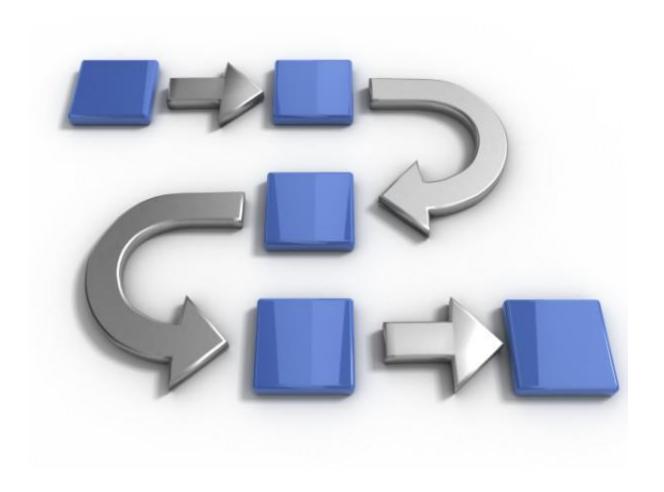


# OPPORTUNITIES.





#### **METHODOLOGY**







#### **OTHER SOURCES**

- □ Register data

  objective measurements health, income, retirement, type of industry
- ☐ Company data

  more information on company policies









#### INTERNATIONAL COOPERATION

- □ Exchange of knowledge
- Harmonize our data collection
- International projects







#### **QUALITATIVE RESEARCH**

- More insight is needed; not 'is A related to B?', but 'how are they related?
- ☐ Interviews, focus groups









#### NEXT....

- Micky Scharn interdisciplinary approach combining questionnaire and register data (STREAM)
- Morten Wahrendorf life history data (SHARE)
- James Banks methodological innovations of a 15 year follow-up study (ELSA)
- Marcel Goldberg occupational epidemiology in a cohort study with a very long follow-up (GAZEL)

