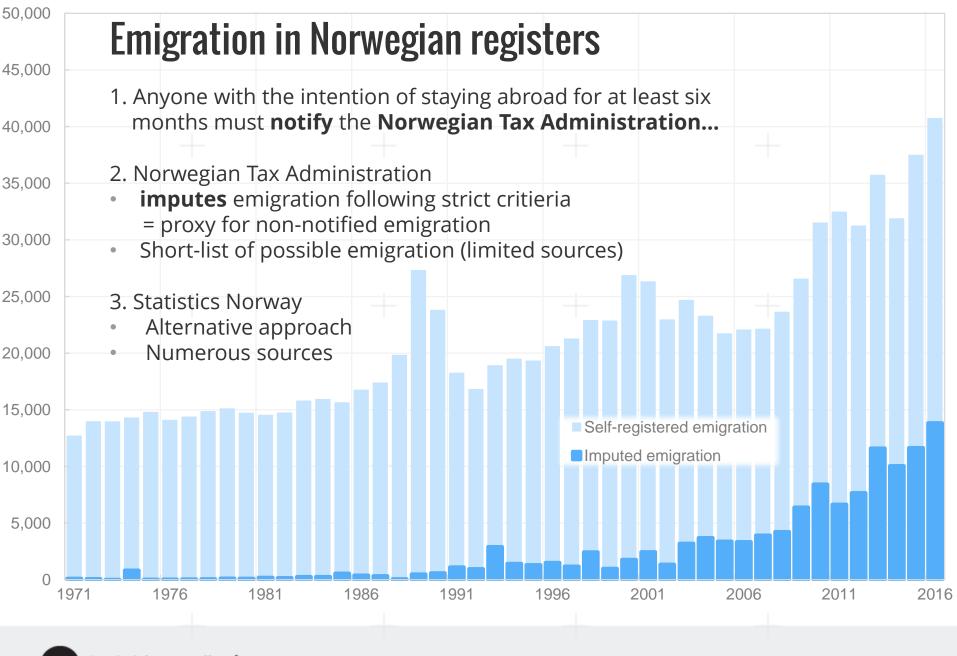
Underestimation of emigration - an alternative approach

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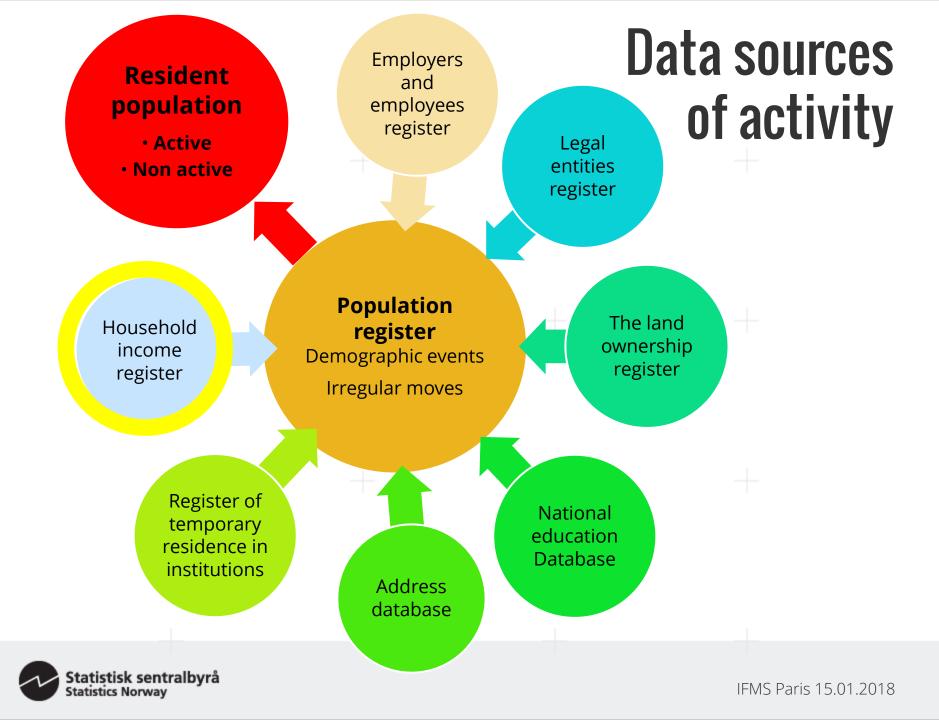
Statistisk sentralbyrå Statistics Norway

Underestimation of emigration

- an alternative and explorative approach

- Traces of «activity» in Norway?
- No trace \approx emigrated
- Merge numerous administrative registers
- Arrive at an estimate
 - Complement to the work at the Tax Administration
 - More accurate
 - More up to date
- Similar efforts in other Nordic countries
- Results
- Further plans





Income an important indicator

Lower annual income limit for living in Norway:

<u>1 person household per month:</u> Social assistance rate = 5 850 NOK (585 EUR) + housing expenses = 2 500 Total = 8 350 <u>1 person household per year</u> => 100 000 NOK

Possibly emigrated if annual:

 $\frac{Household income}{0,5 + (0,5 \times number of hh members)} < 100 000 NOK$

Why household income?

- Supported financially by someone else in the household
- But all family members treated as one no deviation from the family



Assumed emigrated - alternatives

	Description		med emig	In Norway	
		Min.	Intermediate	Max.	
Group 1	Income < 50 000 NOK/year. Not in any other register sources. No demograhic events. Address with irregular move*.	8 030	8 030	8 030	
Group 2	Income < 100 000 NOK/year. Not in any other register sources. No demograhic events. Address with irregular move*.		10 179	10 179	
Group 3	Income < 100 000 NOK/year. Found in other register sources or demograhic event. Address with irregular move*.			26 628	
Group 4	Found in other register sources or demograhic event. No address with irregular move*.				5 120 965
SUM		8 030	18 209	44 837	5 120 965

*Addresses with more than one family, where the originally residing family moved out without notifying the population register.



Assumed emigrated - results

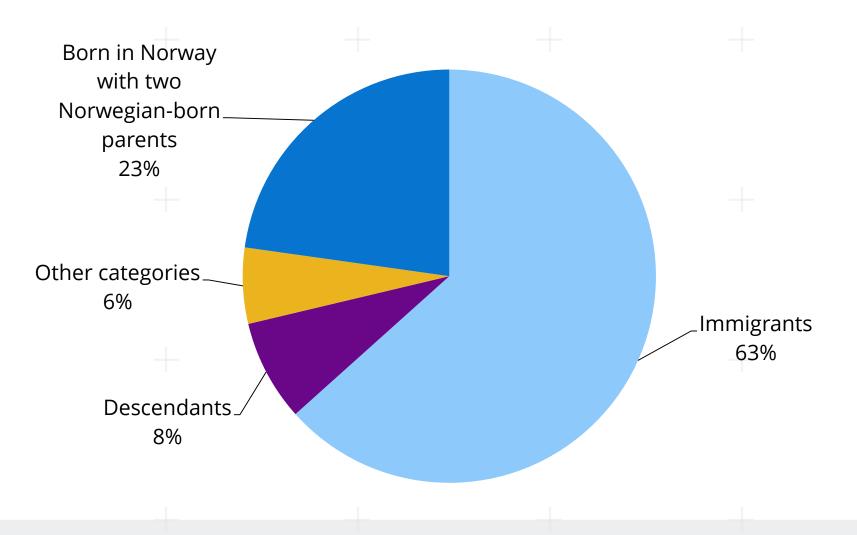
- Statistics Norway:
 - 44 837 max. alternative (least strict)
 - 8 030 min. alternative (most strict)
 - = **0,2-0,9 %** of all residents 1.1. 2015
 - Maks 4 % among immigrants
 - Maks 0,4 % among rest of population
 - 18 % are already registered as suspected emigrated by the Tax Adm.
 - Increases the number of emigrated in official population register by 0,6 percentage points to 7,65%

• Statistics Sweden:

- Interval 30 000 60 000 persons
- = **0,3-0,6 %** among all residents in 2012

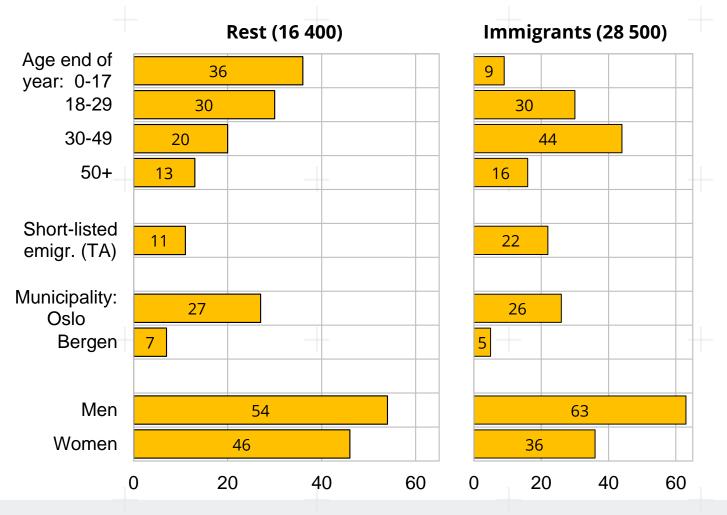


- Who is assumed to be emigrated?



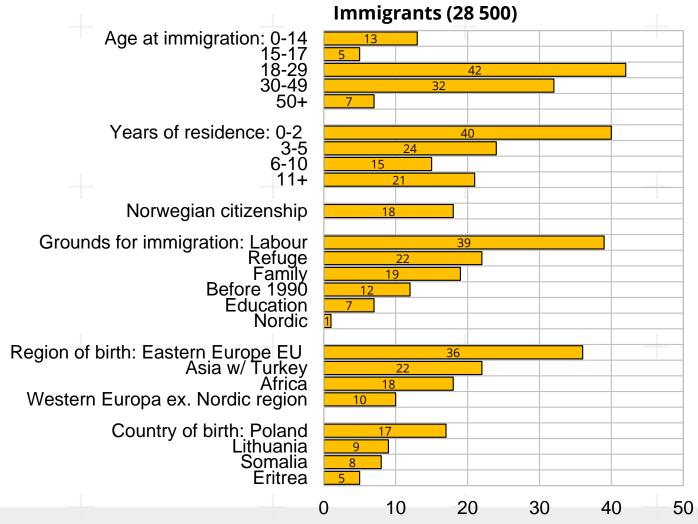


- Who is assumed to be emigrated?





- Who is assumed to be emigrated?





Further plans

- Publish report on method and results
- Update annually, improve further
- Make variable available for research purposes
- Link report to annual official population statistics releases
- Use in quality control of registers at Statistics Norway
- Feed-back to Tax Administration

