



The Use of Annual Swiss Census Data for Longitudinal Data Analysis

UNECE Online Meeting on Population and Housing Censuses

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Outline of the presentation

1. Basics: goals and principles
2. Modular approach
3. Examples of indicators
4. Outlook and conclusion



1. Objectives

1. Provide population statistics data harmonized in time for the users who wish to do longitudinal analyses
2. Provide a basic source and enrich longitudinal statistics in other domains
3. Publish longitudinal migratory/demographic indicators



1. Principles

1. Data for every person is coherent in time
2. With new data becoming available every year, the results for all previous years have to be recalculated. Thus the results of the longitudinal statistic do not exactly correspond to the annual results already published every year.
3. The Unique Person Identifier (UPI) allows for data linkage
4. The start of all available information in our longitudinal statistic is 31.12.2010

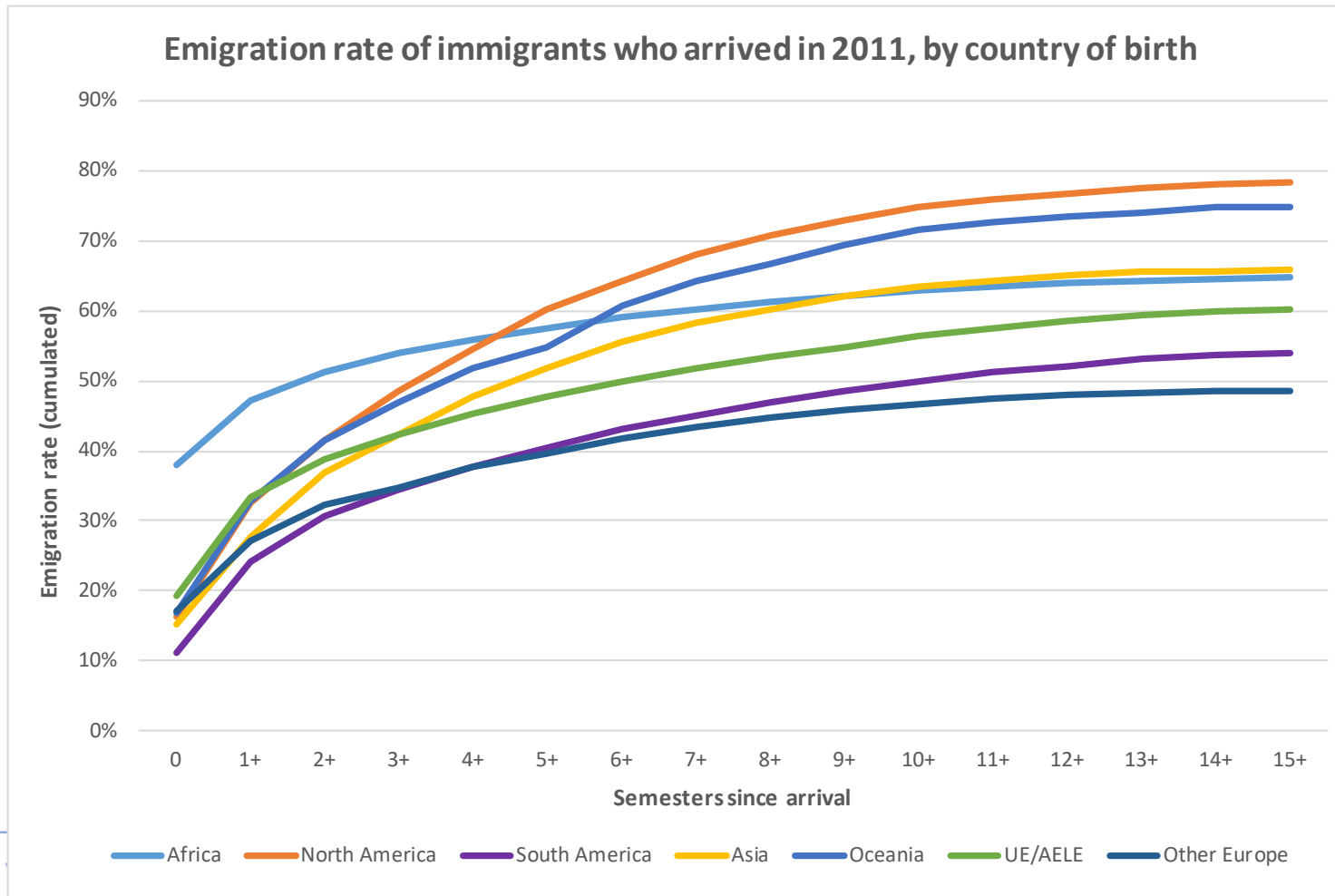


2. Modular approach

	pseudoUPI	stateOfBirth	municipalityIdOfBirth	sex	dateOfBirth	CHArrivalDate	CHComesFromCountryId	departureDate	goesToState	dateOfDeath	dateAnnulUPI	nationalityState	dateOfAcquisitionSwiss	typeAcquisitionSwiss	residencePermit	maritalStatus	dateOfMaritalStatus	cancelationPartnerReason	reportingMunicipalityId	comesFromMunicipalityId	arrivalDate	MovingDate	pseudoFederalBuildingId	federalDwellingId	geoCoordE	geoCoordN	gQuartier	DPLZ4	DPLZZ	indic_egid	populationType	Flag_xx	pseudoIdChild1-15	lastPseudoIdSpouse	lastPseudoIdPartner	lastPlaceOfOriginId1-5		
Table person attributes	X	X	X	X	X					X																									X	X	X	X
Presence in 2010	X					X*	X*					X			X	X	X*	X	X	X*	X*	X*	X*	X	X							X	X					
Birth	X				X							X			X	X	X*	X	X					X	X						X	X						
Immigration	X					X	X					X			X	X	X*	X	X					X	X						X	X						
Death	X									X																					X	X						
Emigration	X							X	X																					X	X							
Deletion of UPI	X										X																			X	X							
Acquisition of Swiss citizenship	X												X	X																X	X							
Change of permit	X														X															X	X							
Change of marital status	X															X	X	X												X	X							
Change of municipality	X																			X		X		X	X					X	X							
Move inside the municipality	X																			X			X	X	X					X	X							
Table building attributes																				X			X		X	X	X	X	X	X								



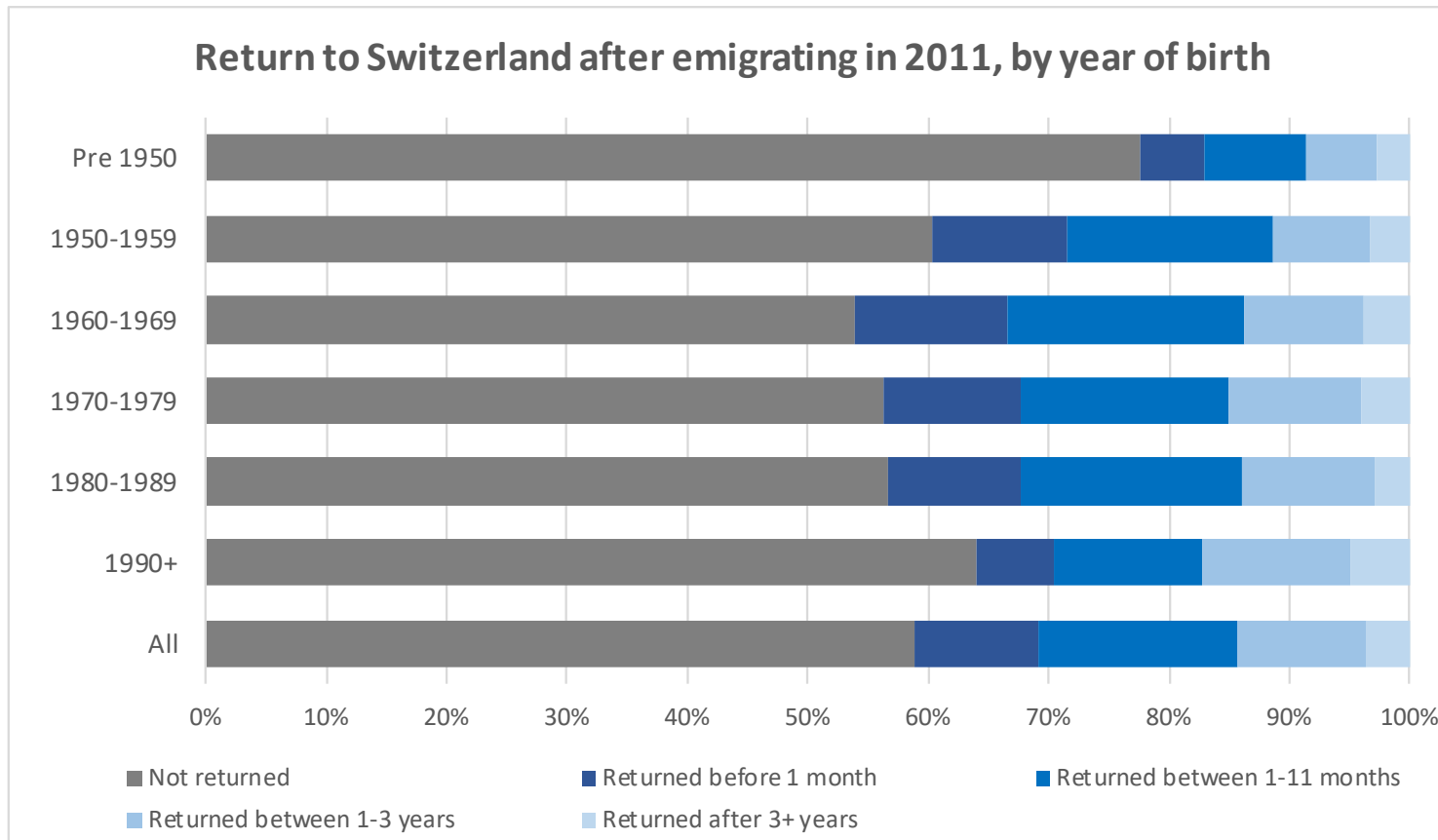
3. Example of indicator



Preliminary result



3. Example of indicator



Preliminary result



4. Outlook and conclusion

- Further modules will be added one after the other according to the needs of the data users
- Many new insights are possible with these longitudinal statistics
- We are currently working on the definition of products for publication
- Our team at the FSO is very motivated and has a lot of fun working on this new project