

## Definition of second generation or "secondos" foreigners in the Swiss Household Panel

### Procedure for SHP data

This section describes the procedure for defining, on the basis of SHP data, an equivalence to the category of "secondos" as adopted in the LIVES cohort, prior to merging the files of the two surveys. We will go further than this dichotomy by establishing a three-category typology, comparable in both surveys, namely the "secondos", the non-migrant Swiss, and a mixed category in between, in order to possibly maximize the contrast between the first two subgroups. We have also constructed other variables to better distinguish the different generations of immigrants, based on the Lessard-Phillips et al. model (2017).

According to the definition given by Spini and al (in press), second generation foreigners are defined as those whose parents immigrated to Switzerland as adults. We also add that since 2014, the LIVES cohort has been interviewing individually young people born between 1988 and 1997, residing in Switzerland as of 1.1.2013 and attending school in Switzerland before the age of 10. We will focus on young people who meet these 4 criteria.

If the definition of "secondos" could be established directly on the basis of the FSO's sampling registers used for the LIVES cohort survey, this category must be reconstructed on the basis of the information collected from SHP respondents.

In an attempt to be restrictive in the operationalization of the "secondos" category in the SHP survey, it is noted that the information collected from respondents is not sufficient, because if the module on social origin makes it possible to know the nationality of both parents at the time of their birth, information on their age of arrival in Switzerland is missing. Only the nationality of the parents therefore does not allow us to distinguish the "secondos" of foreigners from the 3rd, 4th, etc. generation. Information on the age of arrival of parents in Switzerland is only available for those who have been followed at one time or another by the SHP, living with a young person from the cohort of interest to us. In the end, it is only for young people who have cohabited with both parents during the follow-up of the SHP that we can establish reliably this status of "secondos".

To operationalize the typology of the "secondos" among SHP respondents, we therefore proceeded in several steps:

- Selection among the SHP respondents of the population corresponding to the definition of the LIVES cohort: year of birth between 1988 and 1997, residing in Switzerland on 1.1.2013, arriving in Switzerland before the age of 10 years and completing at least one individual questionnaire since 2014.
- Matching of information from their parents, who cohabited with them during the SHP follow-up between 1999 and 2017, on the persons defined above.

Definition of the status of "secondos" according to the following criteria:

- Respondents who have both parents of foreign origin who immigrated to Switzerland at the age of 18 or over are defined as "secondos".
- Non-migrant Swiss are defined as respondents whose parents and themselves have no foreign nationality, and whose parents are not foreigners by birth.
- Are defined as persons of migrant origin but not "secondos", those who themselves or at least one of their parents have a foreign nationality or origin.
- Cases that are not sufficiently documented, most often by missing data for either parent, are excluded from the typology.
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The distribution below shows that with the SHP sample, we have 81 "secondos" cases that can complete those of the LIVES cohort, 1078 cases not linked to migration, and finally 586 cases not

"secondos" but of nationality or foreign origin confirmed to a certain degree. Finally, 100 cases cannot be documented on the basis of these criteria.

### secondos respondent's secondos status

		Fréquence	Pourcentage	Pourcentage valide	Pourcentage cumulé
Valide	1.00 secondos	81	4.4	4.4	4.4
	2.00 foreign origin	586	31.8	31.8	36.2
	3.00 no foreign origin	1078	58.4	58.4	94.6
	999.00 not documented	100	5.4	5.4	100.0
	Total	1845	100.0	100.0	

Other variables also make it possible to reconstruct the typology of the different generations of immigrants, based on the Lessard-Phillips et al. model (2017). These include the nationalities and age of arrival in Switzerland of the respondents and their parents (see annex).

### Equivalence for the LIVES Cohort survey

Although the LIVES cohort survey has an indicator to distinguish second generation foreigners (P\$D168), we reconstruct where possible the same variables as for the SHP, which then allows for a better distinction between the different generations of immigrants. In the end, we have 676 cases of "secondos" in this survey, 197 cases not linked to migration, and 461 cases not "secondos" but of nationality or foreign origin proven to some degree. It should be noted that 209 cases of "no secondos" cannot be documented, due to the failure to complete the "social origin" module in 2014, as the CATI questionnaire had to be shortened. This meant that information on the parents' nationality was not available for these cases.

### secondos respondent's secondos status

		Fréquence	Pourcentage	Pourcentage valide	Pourcentage cumulé
Valide	1.00 secondos	676	43.8	43.8	43.8
	2.00 foreign origin	461	29.9	29.9	73.7
	3.00 no foreign origin	197	12.8	12.8	86.5
	999.00 not documented	209	13.5	13.5	100.0
	Total	1543	100.0	100.0	

Other variables also make it possible to reconstruct the typology of the different generations of immigrants, based on the Lessard-Phillips et al. model (2017). These include the nationalities and age of arrival in Switzerland of the respondents and their parents (see annex).

### Construction and documentation of variables

The variable names are taken from those used by the SHP and the LIVES cohort survey, sometimes without the annual indicator when several pieces of information have been aggregated throughout waves. The construction of the new variables is documented in the attached syntax file. An SPSS combined SHP-LIVES cohort file attached in the annex contains the variables that can be used to define the status of "secondos" and to distinguish between different generations of immigrants.

## Bibliography

Lessard-Phillips Laurence , Silvia Galandini, Helga de Valk, and Rosita Fibbi 2017. “Damned If You Do, Damned If You Don’t: The Challenges of Including and Comparing the Children of Immigrants in European Survey Data”, in Bolzman, Claudio, Bernardi, Laura, LeGoff, Jean-Marie (Eds.). *Situating Children of Migrants across Borders and Origins*, Life Course Research and Social Policies 7.

Spini Dario, Nora Dasoki, Guy Elcheroth, Jacques-Antoine Gauthier, Jean-Marie Le Gof, Davide Morselli, Florence Rossignon, Robin Tillmann (in press) The LIVES Cohort survey: a longitudinal diversified sample of young adults who have grown up in Switzerland. *Longitudinal and Life Course Studies*.

## Annexes - variable frequencies in the combined file

**Tableau croisé secondos respondent's secondos status \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
secondos respondent's	1.00 secondos	81	676	757
secondos status	2.00 foreign origin	586	461	1047
	3.00 no foreign origin	1078	197	1275
	999.00 not documented	100	209	309
Total		1845	1543	3388

**Tableau croisé pd168 Secondos: yes-no \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
pd168 Secondos: yes-no	1.00 yes	676	676	676
	2.00 no	867	867	867
Total		1543	1543	1543

**Tableau croisé swiss swiss citizenship \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
swiss swiss citizenship	.00 no	74	487	561
	1.00 yes	1770	1056	2826
Total		1844	1543	3387

**Tableau croisé etra foreign citizenship \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
etra foreign citizenship	.00 no	1375	573	1948
	1.00 yes	469	970	1439
Total		1844	1543	3387

**Tableau croisé pere\_swiss father with swiss citizenship \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
pere_swiss father with swiss citizenship	.00 no	221	559	780
	1.00 yes	1497	272	1769
Total		1718	831	2549

**Tableau croisé pere\_etra father with foreign citizenship \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
pere_etra father with foreign citizenship	.00 no	1303	257	1560
	1.00 yes	415	574	989
Total		1718	831	2549

**Tableau croisé mere\_swiss mother with swiss citizenship \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
mere_swiss mother with swiss citizenship	.00 no	154	572	726
	1.00 yes	1646	267	1913
Total		1800	839	2639

**Tableau croisé mere\_etra mother with foreign citizenship \* survey  
SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
mere_etra mother with	.00 no	1343	250	1593
foreign citizenship	1.00 yes	457	589	1046
Total		1800	839	2639

**Tableau croisé immig\_p father - father immigrant:  
foreign nationality of origin, arrival in Switzerland 18  
year or older \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort	Total
		1.00 SHP	
immig_p father - father	-1.00	466	466
immigrant: foreign nationality	.00	1209	1209
of origin, arrival in	1.00	170	170
Switzerland 18 year or older			
Total		1845	1845

**Tableau croisé immig\_m mother - father immigrant:  
foreign nationality of origin, arrival in Switzerland 18  
year or older \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort	Total
		1.00 SHP	
immig_m mother - father	-1.00	293	293
immigrant: foreign nationality	.00	1360	1360
of origin, arrival in	1.00	192	192
Switzerland 18 year or older			
Total		1845	1845

**Tableau croisé pd161 Swiss since birth \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort		Total
		1.00 SHP	2.00 LIVES cohort	
pd161 Swiss since birth	1.00 yes	1643	659	2302
	2.00 no	103	351	454
Total		1746	1010	2756

**Tableau croisé pd161\_p father - Swiss since birth \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort	
		1.00 SHP	Total
pd161_p father - Swiss since birth	-7.00 filter error	4	4
	-1.00 does not know	727	727
	1.00 yes	998	998
	2.00 no	116	116
Total		1845	1845

**Tableau croisé pd161\_m mother - Swiss since birth \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort	
		1.00 SHP	Total
pd161_m mother - Swiss since birth	-7.00 filter error	13	13
	-1.00 does not know	474	474
	1.00 yes	1155	1155
	2.00 no	203	203
Total		1845	1845

**Tableau croisé pd164 Since when in Switzerland: Year \* survey SHP or LIVES cohort**

Effectif

survey SHP or LIVES cohort	Total
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		1.00 SHP	2.00 LIVES cohort	
pd164 Since when in Switzerland: Year	1988.00	136	9	145
	1989.00	144	49	193
	1990.00	164	81	245
	1991.00	177	92	269
	1992.00	179	125	304
	1993.00	188	123	311
	1994.00	189	177	366
	1995.00	221	192	413
	1996.00	197	176	373
	1997.00	213	182	395
	1998.00	12	153	165
	1999.00	3	30	33
	2000.00	10	25	35
	2001.00	5	20	25
	2002.00	2	25	27
	2003.00	2	12	14
	2004.00	0	17	17
	2005.00	1	16	17
	2006.00	0	8	8
	2007.00	0	10	10
	2008.00	0	3	3
	2009.00	0	2	2
	2010.00	0	5	5
	2011.00	0	7	7
	2016.00	0	1	1
<b>Total</b>		<b>1843</b>	<b>1540</b>	<b>3383</b>

**Tableau croisé pd164\_p father - Since when in  
Switzerland: Year \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort 1.00 SHP	Total
pd164_p father - Since when in Switzerland: Year	1932.00	1	1
	1935.00	1	1
	1938.00	2	2
	1939.00	1	1
	1941.00	2	2



1943.00	3	3
1944.00	1	1
1945.00	6	6
1946.00	2	2
1947.00	11	11
1948.00	10	10
1949.00	11	11
1950.00	19	19
1951.00	25	25
1952.00	28	28
1953.00	34	34
1954.00	36	36
1955.00	40	40
1956.00	46	46
1957.00	72	72
1958.00	60	60
1959.00	72	72
1960.00	81	81
1961.00	54	54
1962.00	84	84
1963.00	81	81
1964.00	81	81
1965.00	65	65
1966.00	43	43
1967.00	52	52
1968.00	24	24
1969.00	22	22
1970.00	10	10
1971.00	15	15
1972.00	12	12
1973.00	9	9
1974.00	8	8
1976.00	4	4
1977.00	4	4
1978.00	3	3
1979.00	8	8
1980.00	9	9
1981.00	14	14
1982.00	7	7
1983.00	11	11

	1984.00	16	16
	1985.00	18	18
	1986.00	16	16
	1987.00	21	21
	1988.00	14	14
	1989.00	25	25
	1990.00	18	18
	1991.00	16	16
	1992.00	9	9
	1993.00	9	9
	1994.00	8	8
	1995.00	5	5
	1996.00	3	3
	1997.00	3	3
	1998.00	3	3
	1999.00	1	1
	2000.00	3	3
	2001.00	1	1
	2002.00	1	1
	2003.00	1	1
	2009.00	1	1
	2012.00	2	2
	2015.00	1	1
Total		1379	1379

**Tableau croisé pd164\_m mother - Since when in Switzerland: Year \* survey SHP or LIVES cohort**

Effectif

		survey SHP or LIVES cohort 1.00 SHP	Total
pd164_m mother - Since	1947.00	1	1
when in Switzerland: Year	1948.00	2	2
	1949.00	1	1
	1950.00	3	3
	1951.00	7	7
	1952.00	10	10
	1953.00	13	13
	1954.00	15	15

1955.00	22	22
1956.00	29	29
1957.00	53	53
1958.00	52	52
1959.00	72	72
1960.00	86	86
1961.00	87	87
1962.00	112	112
1963.00	106	106
1964.00	119	119
1965.00	90	90
1966.00	79	79
1967.00	63	63
1968.00	72	72
1969.00	48	48
1970.00	37	37
1971.00	14	14
1972.00	18	18
1973.00	12	12
1974.00	5	5
1975.00	6	6
1976.00	5	5
1977.00	3	3
1978.00	5	5
1979.00	3	3
1980.00	10	10
1981.00	8	8
1982.00	9	9
1983.00	9	9
1984.00	6	6
1985.00	24	24
1986.00	15	15
1987.00	19	19
1988.00	14	14
1989.00	31	31
1990.00	16	16
1991.00	29	29
1992.00	19	19
1993.00	17	17
1994.00	12	12

	1995.00	19	19
	1996.00	7	7
	1997.00	11	11
	1998.00	5	5
	1999.00	6	6
	2000.00	4	4
	2001.00	3	3
	2002.00	5	5
	2003.00	2	2
	2004.00	1	1
	2009.00	1	1
Total		1552	1552