Switzerland

Detailed Human Capital projections to 2060

Pyramids by education, CEPAM Medium Scenario

Demographic indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2040	2050	2060
Population (in millions)	8.32	8.58	9.09	9.53	9.96	10.37
Proportion age 65+	18.0%	19.3%	24.0%	28.1%	30.4%	31.9%
Proportion below age 20	20.0%	19.8%	20.1%	19.0%	18.5%	18.9%

	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	1.58	1.63	1.68	1.73	1.75	1.75
Life expectancy at birth (in years)						
Male	81.6	82.7	84.8	87.0	89.1	90.2
Female	85.4	86.5	88.7	90.8	93.0	95.2
Five-year net-migration flow (in thousands)	152.0	164.0	184.9	202.6	215.8	220.2

Human Capital indicators, CEPAM Medium Scenario (SSP2)

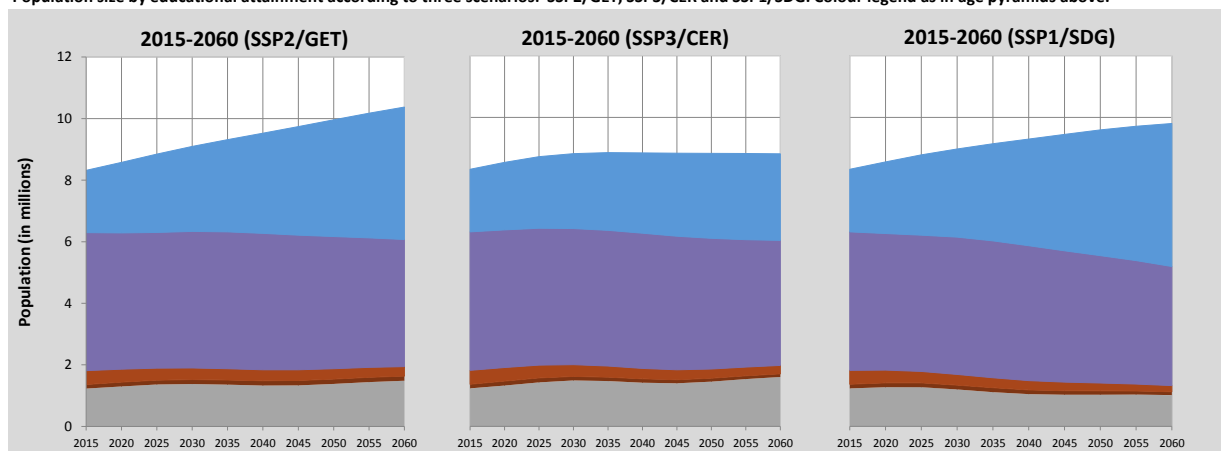|	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	1.9%	2.0%	2.1%	2.1%	2.1%	1.9%
E2 - incomplete primary	0.0%	0.2%	0.5%	0.6%	0.8%	0.8%
E3 - primary	6.5%	5.9%	4.9%	4.2%	3.5%	3.0%
E4 - lower secondary	14.2%	13.3%	11.7%	10.3%	9.0%	7.8%
E5 - upper secondary	46.3%	45.1%	43.1%	40.8%	38.1%	35.4%
E6 - post-secondary	31.3%	33.6%	37.7%	42.0%	46.6%	51.1%
Mean years of schooling (in years)	12.9	13.0	13.3	13.5	13.8	14.1
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.61	0.66	0.71	0.73	0.73	0.72
E2 - incomplete primary	1.05	1.04	1.02	1.02	1.01	0.99
E3 - primary	0.71	0.75	0.82	0.87	0.90	0.93
E4 - lower secondary	0.57	0.61	0.71	0.82	0.93	1.02
E5 - upper secondary	0.94	0.93	0.92	0.93	0.96	1.01
E6 - post-secondary	1.56	1.44	1.28	1.16	1.07	1.00
Mean years of schooling (male minus female)	0.5	0.4	0.3	0.2	0.1	0.1
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	1.1%	1.6%	1.4%	1.2%	0.8%	0.5%
E2 - incomplete primary	0.0%	0.5%	0.6%	0.6%	0.4%	0.3%
E3 - primary	2.8%	2.8%	2.2%	1.6%	1.1%	0.9%
E4 - lower secondary	10.6%	9.7%	7.4%	5.4%	4.1%	3.1%
E5 - upper secondary	48.6%	44.0%	39.6%	37.5%	34.6%	31.9%
E6 - post-secondary	36.9%	41.5%	48.7%	53.7%	59.0%	63.3%
Mean years of schooling (in years)	13.5	13.7	14.1	14.5	14.8	15.1

Education scenarios

SSP2/GET: Global Education Trend Scenario (Medium assumption)
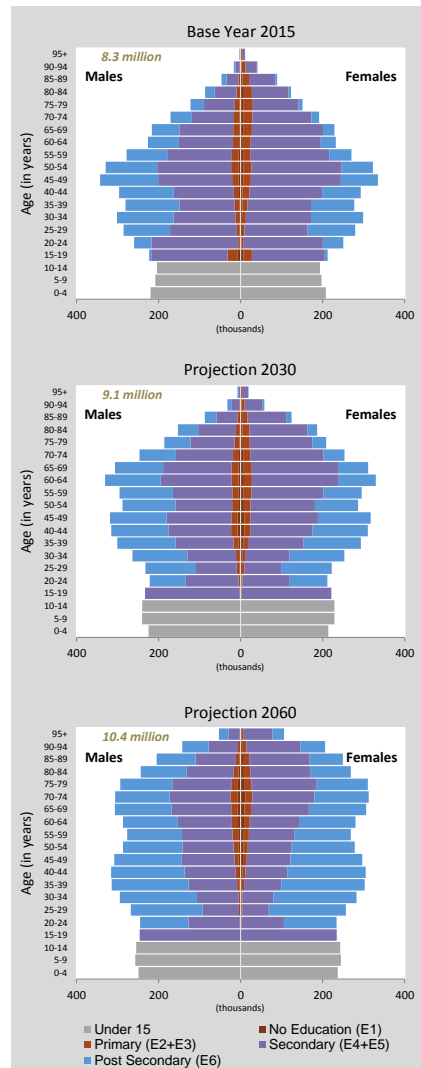
SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

SSP1/SDG: Sustainable Development Goal Scenario (universal primary and secondary education by 2030)
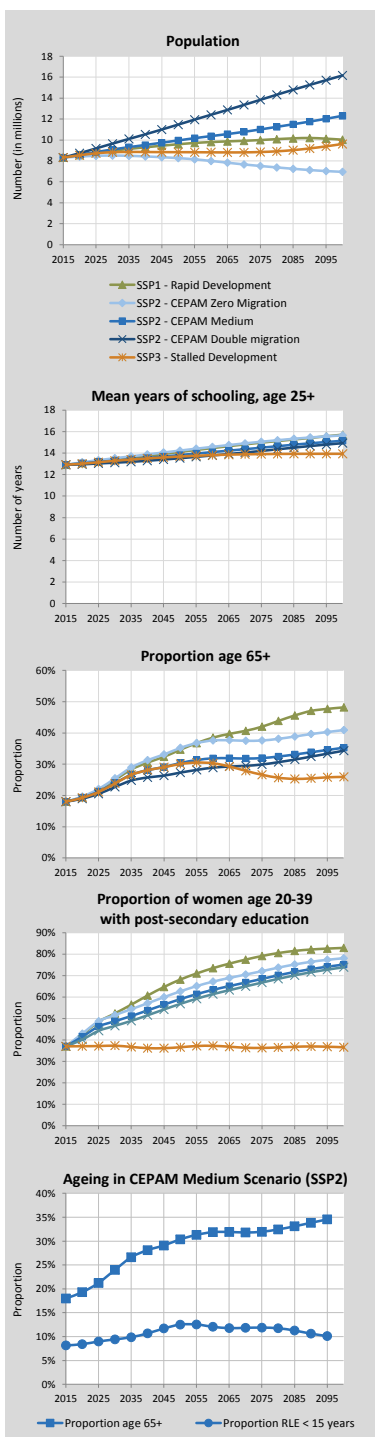

Base Year 2015

8.3 million

Males — Females

Projection 2030

9.1 million

Males — Females

Projection 2060

10.4 million

Males — Females

Legend:
- Under 15
- No Education (E1)
- Primary (E2+E3)
- Secondary (E4+E5)
- Post Secondary (E6)

Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG. Colour legend as in age pyramids above.

2015-2060 (SSP2/GET)

2015-2060 (SSP3/CER)

2015-2060 (SSP1/SDG)

Switzerland (Continued)

Alternative Scenarios to 2100

Projection Results by Scenario (SSP1-3)

	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	8.32	8.56	8.98	9.60	9.80	10.00	10.03
SSP2 - CEPAM Zero Migration	8.32	8.42	8.51	8.27	8.00	7.52	6.96
SSP2 - CEPAM Medium	8.32	8.58	9.09	9.96	10.37	11.01	12.31
SSP2 - CEPAM Double Migration	8.32	8.74	9.65	11.47	12.41	13.84	16.17
SSP3 - Stalled Development	8.32	8.54	8.83	8.84	8.82	8.85	9.62
Proportion age 65+							
SSP1 - Rapid Development	18.0%	19.5%	25.0%	34.6%	38.5%	42.0%	48.2%
SSP2 - CEPAM Zero Migration	18.0%	19.6%	25.5%	35.2%	37.6%	37.6%	40.9%
SSP2 - CEPAM Medium	18.0%	19.3%	24.0%	30.4%	31.9%	32.0%	35.3%
SSP2 - CEPAM Double Migration	18.0%	19.0%	22.7%	27.3%	28.9%	29.9%	34.3%
SSP3 - Stalled Development	18.0%	19.2%	23.9%	30.1%	30.3%	26.6%	25.9%
Proportion below age 20							
SSP1 - Rapid Development	20.0%	19.5%	18.3%	14.4%	14.0%	12.7%	11.5%
SSP2 - CEPAM Zero Migration	20.0%	19.8%	19.6%	17.1%	17.5%	16.8%	16.4%
SSP2 - CEPAM Medium	20.0%	19.8%	20.1%	18.5%	18.9%	18.5%	17.8%
SSP2 - CEPAM Double Migration	20.0%	19.9%	20.5%	19.3%	19.6%	19.1%	18.0%
SSP3 - Stalled Development	20.0%	20.2%	21.8%	21.6%	23.5%	24.4%	25.2%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	36.9%	42.5%	52.3%	68.1%	73.5%	79.1%	82.9%
SSP2 - CEPAM Zero Migration	36.9%	42.9%	51.6%	62.6%	67.2%	72.1%	78.1%
SSP2 - CEPAM Medium	36.9%	41.5%	48.7%	59.0%	63.3%	68.4%	75.1%
SSP2 - CEPAM Double Migration	36.9%	40.1%	46.5%	56.8%	61.3%	66.7%	73.8%
SSP3 - Stalled Development	36.9%	37.0%	37.3%	36.5%	37.2%	36.2%	36.5%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	12.9	13.1	13.4	14.1	14.5	15.0	15.7
SSP2 - CEPAM Zero Migration	12.9	13.1	13.5	14.2	14.6	15.1	15.6
SSP2 - CEPAM Medium	12.9	13.0	13.3	13.8	14.1	14.5	15.1
SSP2 - CEPAM Double Migration	12.9	13.0	13.1	13.5	13.8	14.2	14.9
SSP3 - Stalled Development	12.9	13.0	13.3	13.7	13.8	13.9	13.9

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.47	1.41	1.31	1.31	1.31	1.31	1.31
SSP2 - CEPAM Zero Migration	1.58	1.63	1.68	1.75	1.75	1.75	1.75
SSP2 - CEPAM Medium	1.58	1.63	1.68	1.75	1.75	1.75	1.75
SSP2 - CEPAM Double Migration	1.58	1.64	1.69	1.75	1.76	1.75	1.75
SSP3 - Stalled Development	1.70	1.89	2.11	2.29	2.31	2.32	2.33
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	85.9	87.5	90.7	97.0	100.2	104.9	107.9
SSP2 - CEPAM Zero Migration	85.4	86.5	88.7	93.1	95.3	98.6	103.0
SSP2 - CEPAM Medium	85.4	86.5	88.7	93.0	95.2	98.5	102.8
SSP2 - CEPAM Double Migration	85.4	86.5	88.6	93.0	95.1	98.3	102.7
SSP3 - Stalled Development	84.9	85.5	86.7	89.0	90.2	91.9	94.2
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	152.1	162.9	177.8	195.3	195.4	185.9	161.7
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	152.0	164.0	184.9	215.8	223.0	222.5	204.3
SSP2 - CEPAM Double Migration	304.0	322.1	349.9	380.1	377.9	353.6	293.8
SSP3 - Stalled Development	101.3	55.6	0.2	0.3	0.3	0.3	0.4

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	42.2	43.4	45.7	48.7	48.3	49.4	50.5
Proportion age 65+	18.0%	19.3%	24.0%	30.4%	31.9%	32.0%	34.6%
Proportion RLE < 15 years	8.7%	8.6%	9.5%	12.4%	12.3%	11.9%	10.1%

Population

Mean years of schooling, age 25+

Proportion age 65+

Proportion of women age 20-39 with post-secondary education

Ageing in CEPAM Medium Scenario (SSP2)