Japan

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)	127.98	126.26	120.87	114.17	107.38	100.81
Proportion age 65+	26.0%	28.3%	30.9%	35.9%	39.3%	41.1%
Proportion below age 20	17.7%	17.1%	15.8%	14.6%	14.3%	13.9%

	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	1.41	1.40	1.39	1.40	1.41	1.42
Life expectancy at birth (in years)						
Male	80.7	81.8	83.9	86.0	88.1	89.1
Female	87.2	88.2	90.4	92.5	94.6	96.8
Five-year net-migration flow (in thousands)	172.0	196.1	242.4	284.2	318.9	333.3

Human Capital indicators, CEPAM Medium Scenario (SSP2)

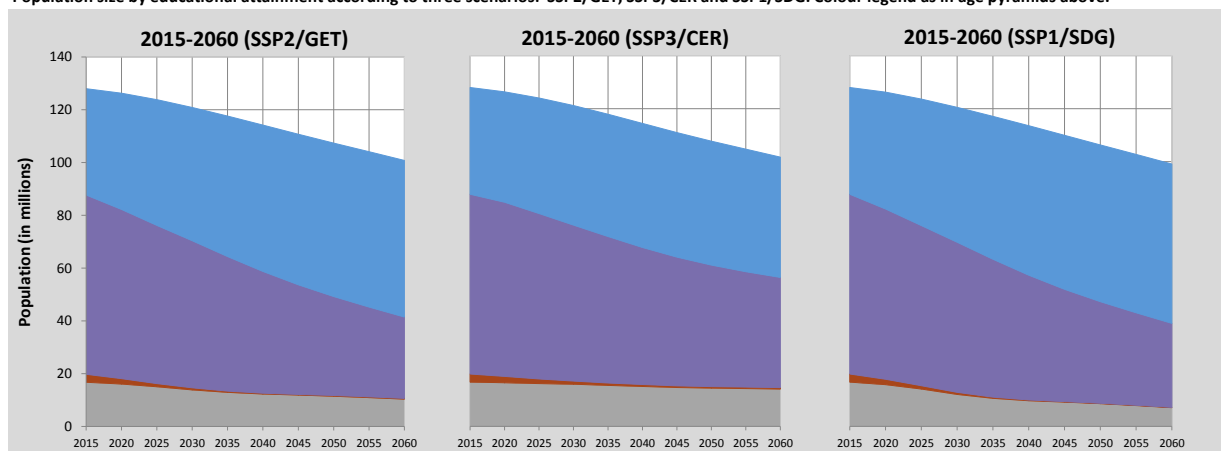|	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%
E2 - incomplete primary	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
E3 - primary	2.6%	1.8%	0.7%	0.3%	0.2%	0.2%
E4 - lower secondary	13.6%	11.7%	8.1%	5.2%	3.3%	2.3%
E5 - upper secondary	45.4%	44.5%	41.6%	37.5%	32.9%	28.4%
E6 - post-secondary	38.3%	41.9%	49.3%	56.8%	63.4%	68.7%
Mean years of schooling (in years)	13.0	13.2	13.7	14.1	14.4	14.6
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.75	0.78	0.80	0.80	0.77	0.74
E2 - incomplete primary	1.08	1.13	1.12	1.11	1.08	1.05
E3 - primary	0.70	0.64	0.52	0.62	1.10	1.14
E4 - lower secondary	0.88	0.89	0.93	1.03	1.22	1.30
E5 - upper secondary	0.95	0.96	0.97	0.99	1.04	1.08
E6 - post-secondary	1.14	1.10	1.05	1.00	0.97	0.96
Mean years of schooling (male minus female)	0.1	0.1	0.1	0.0	0.0	-0.1
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
E2 - incomplete primary	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%
E3 - primary	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
E4 - lower secondary	4.4%	3.0%	0.9%	0.4%	0.3%	0.3%
E5 - upper secondary	40.8%	37.1%	30.6%	25.9%	22.3%	20.4%
E6 - post-secondary	54.7%	59.6%	68.1%	73.4%	77.1%	79.1%
Mean years of schooling (in years)	14.2	14.4	14.8	15.0	15.1	15.2

Education scenarios

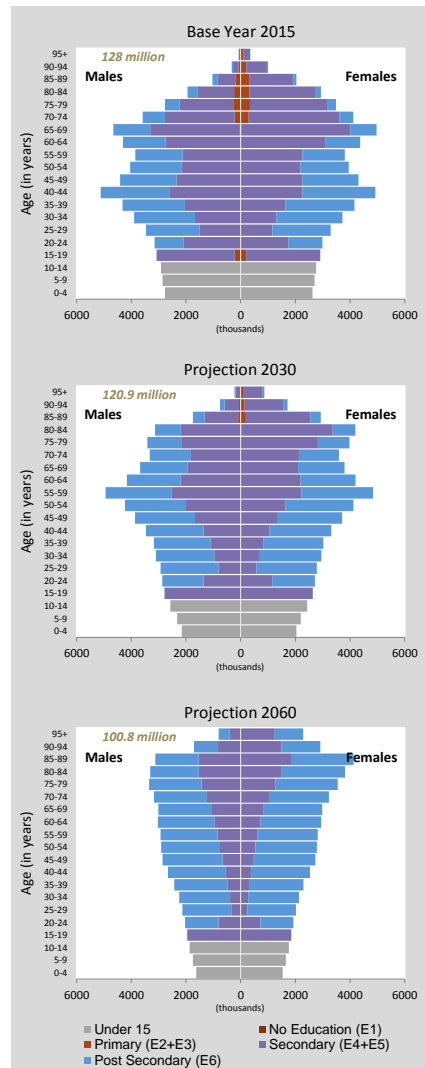SSP2/GET: Global Education Trend Scenario (Medium assumption)

SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

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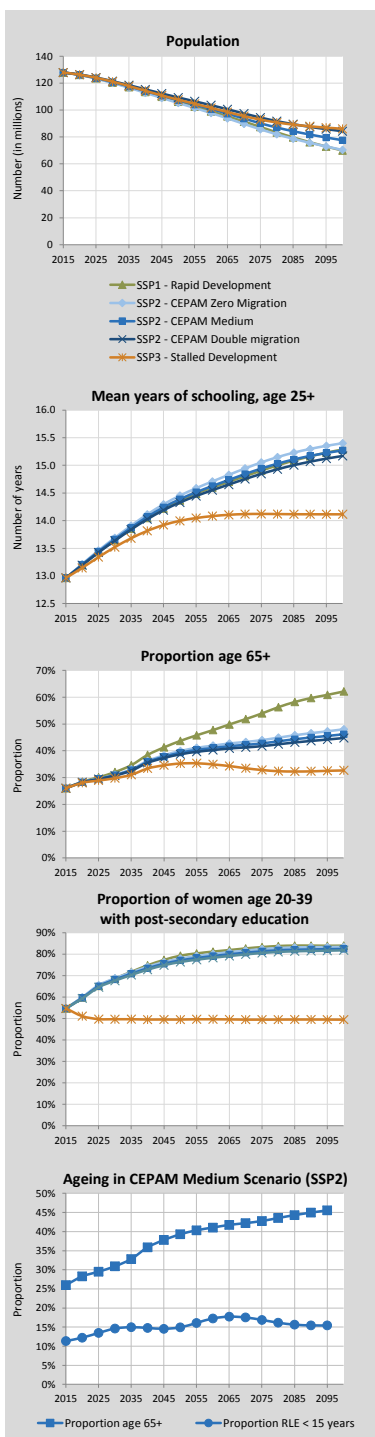

Base Year 2015

128 million

Projection 2030

120.9 million

Projection 2060

100.8 million

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)

Japan (Continued)

Alternative Scenarios to 2100

Projection Results by Scenario (SSP1-3)

	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	127.98	126.21	120.48	106.29	99.09	87.47	69.97
SSP2 - CEPAM Zero Migration	127.98	126.08	120.20	105.31	97.84	85.74	70.41
SSP2 - CEPAM Medium	127.98	126.26	120.87	107.38	100.81	90.23	77.62
SSP2 - CEPAM Double Migration	127.98	126.45	121.54	109.39	103.66	94.48	84.31
SSP3 - Stalled Development	127.98	126.34	121.19	107.73	101.68	92.93	86.14
Proportion age 65+							
SSP1 - Rapid Development	26.0%	28.5%	32.1%	43.7%	47.7%	54.0%	62.2%
SSP2 - CEPAM Zero Migration	26.0%	28.3%	31.1%	39.9%	41.9%	44.0%	48.0%
SSP2 - CEPAM Medium	26.0%	28.3%	30.9%	39.3%	41.1%	42.8%	46.2%
SSP2 - CEPAM Double Migration	26.0%	28.2%	30.7%	38.7%	40.3%	41.7%	44.8%
SSP3 - Stalled Development	26.0%	28.1%	29.8%	35.3%	34.9%	32.8%	32.7%
Proportion below age 20							
SSP1 - Rapid Development	17.7%	16.9%	14.4%	10.9%	9.9%	8.4%	7.2%
SSP2 - CEPAM Zero Migration	17.7%	17.1%	15.8%	14.1%	13.7%	13.0%	12.5%
SSP2 - CEPAM Medium	17.7%	17.1%	15.8%	14.3%	13.9%	13.4%	13.0%
SSP2 - CEPAM Double Migration	17.7%	17.1%	15.9%	14.4%	14.1%	13.6%	13.3%
SSP3 - Stalled Development	17.7%	17.4%	17.5%	17.9%	18.4%	19.2%	19.9%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	54.7%	59.7%	68.6%	79.3%	81.2%	83.3%	83.9%
SSP2 - CEPAM Zero Migration	54.7%	59.9%	68.7%	77.9%	80.1%	82.3%	83.4%
SSP2 - CEPAM Medium	54.7%	59.6%	68.1%	77.1%	79.1%	81.3%	82.4%
SSP2 - CEPAM Double Migration	54.7%	59.3%	67.6%	76.3%	78.3%	80.5%	81.8%
SSP3 - Stalled Development	54.7%	51.1%	49.6%	49.5%	49.6%	49.4%	49.4%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	13.0	13.2	13.6	14.4	14.6	14.9	15.3
SSP2 - CEPAM Zero Migration	13.0	13.2	13.7	14.5	14.7	15.1	15.4
SSP2 - CEPAM Medium	13.0	13.2	13.7	14.4	14.6	14.9	15.3
SSP2 - CEPAM Double Migration	13.0	13.2	13.6	14.3	14.6	14.8	15.2
SSP3 - Stalled Development	13.0	13.1	13.5	14.0	14.1	14.1	14.1

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.31	1.21	1.10	1.06	1.07	1.10	1.13
SSP2 - CEPAM Zero Migration	1.41	1.40	1.40	1.41	1.43	1.46	1.51
SSP2 - CEPAM Medium	1.41	1.40	1.39	1.41	1.43	1.46	1.51
SSP2 - CEPAM Double Migration	1.41	1.40	1.39	1.41	1.43	1.46	1.51
SSP3 - Stalled Development	1.52	1.64	1.76	1.83	1.85	1.89	1.96
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	87.7	89.2	92.4	98.6	101.7	106.4	112.7
SSP2 - CEPAM Zero Migration	87.2	88.2	90.4	94.6	96.8	100.0	104.2
SSP2 - CEPAM Medium	87.2	88.2	90.4	94.6	96.8	99.9	104.2
SSP2 - CEPAM Double Migration	87.2	88.2	90.4	94.6	96.7	99.9	104.2
SSP3 - Stalled Development	86.7	87.2	88.4	90.6	91.7	93.3	95.5
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	172.0	194.1	230.9	286.0	300.0	309.0	295.4
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	172.0	196.1	242.4	318.9	345.8	372.8	381.1
SSP2 - CEPAM Double Migration	344.0	389.6	476.3	616.9	664.7	710.8	719.6
SSP3 - Stalled Development	114.7	66.5	0.2	0.3	0.4	0.5	0.6

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	46.3	48.3	52.0	56.0	57.4	59.1	60.9
Proportion age 65+	26.0%	28.3%	30.9%	39.3%	41.1%	42.8%	45.6%
Proportion RLE < 15 years	11.2%	11.9%	14.5%	14.6%	17.1%	17.3%	15.3%

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)