

Brazil

Detailed Human Capital projections to 2060

Demographic indicators, CEPAM Medium Scenario (SSP2)						
	2015	2020	2030	2040	2050	2060
Population (in millions)	205.98	214.27	226.89	233.92	236.33	233.94
Proportion age 65+	8.0%	9.5%	13.5%	17.7%	22.8%	27.4%
Proportion below age 20	31.0%	28.4%	25.1%	22.6%	20.6%	19.1%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	1.75	1.68	1.65	1.66	1.58	1.59
Life expectancy at birth (in years)						
Male	72.2	73.3	75.5	77.7	79.9	81.0
Female	79.4	80.4	82.4	84.4	86.4	88.4
Five-year net-migration flow (in thousands)	2.4	5.5	12.7	21.4	30.6	35.2

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	9.0%	7.6%	5.3%	3.7%	2.6%	1.7%
E2 - incomplete primary	15.0%	13.2%	10.2%	7.7%	5.5%	3.8%
E3 - primary	20.5%	19.7%	17.7%	15.4%	13.0%	10.5%
E4 - lower secondary	15.6%	16.0%	16.4%	16.3%	15.6%	14.5%
E5 - upper secondary	27.6%	30.2%	35.0%	39.5%	43.6%	47.1%
E6 - post-secondary	12.3%	13.4%	15.3%	17.4%	19.7%	22.3%
Mean years of schooling (in years)	6.7	7.2	8.1	8.8	9.5	10.1
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	1.02	1.03	1.07	1.11	1.15	1.19
E2 - incomplete primary	1.09	1.09	1.08	1.07	1.07	1.08
E3 - primary	1.08	1.08	1.09	1.10	1.11	1.12
E4 - lower secondary	1.06	1.07	1.10	1.13	1.16	1.20
E5 - upper secondary	0.97	0.98	0.99	1.02	1.04	1.07
E6 - post-secondary	0.79	0.78	0.76	0.74	0.73	0.71
Mean years of schooling (male minus female)	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	3.5%	2.6%	1.5%	0.7%	0.4%	0.2%
E2 - incomplete primary	6.8%	5.1%	3.4%	2.1%	1.0%	0.5%
E3 - primary	17.4%	15.5%	11.7%	7.8%	5.0%	3.1%
E4 - lower secondary	18.8%	18.0%	16.1%	14.1%	11.5%	9.0%
E5 - upper secondary	40.5%	43.8%	48.8%	53.6%	56.7%	57.9%
E6 - post-secondary	13.0%	15.0%	18.5%	21.7%	25.5%	29.4%
Mean years of schooling (in years)	9.0	9.6	10.3	10.9	11.4	11.8

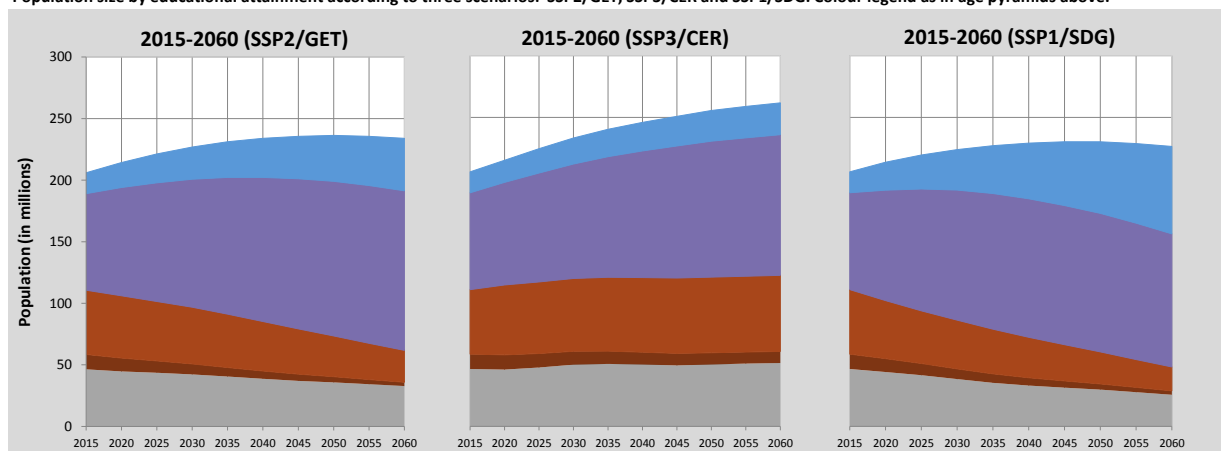
Education scenarios

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

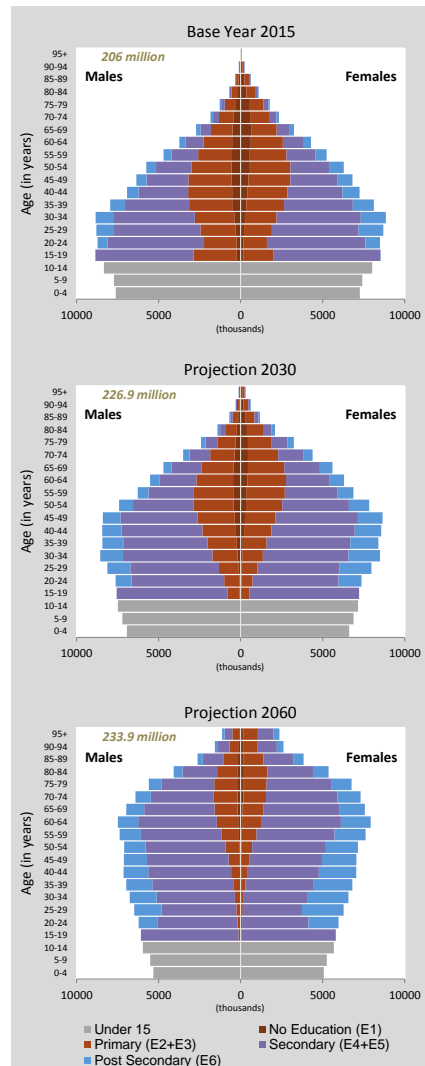
SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

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

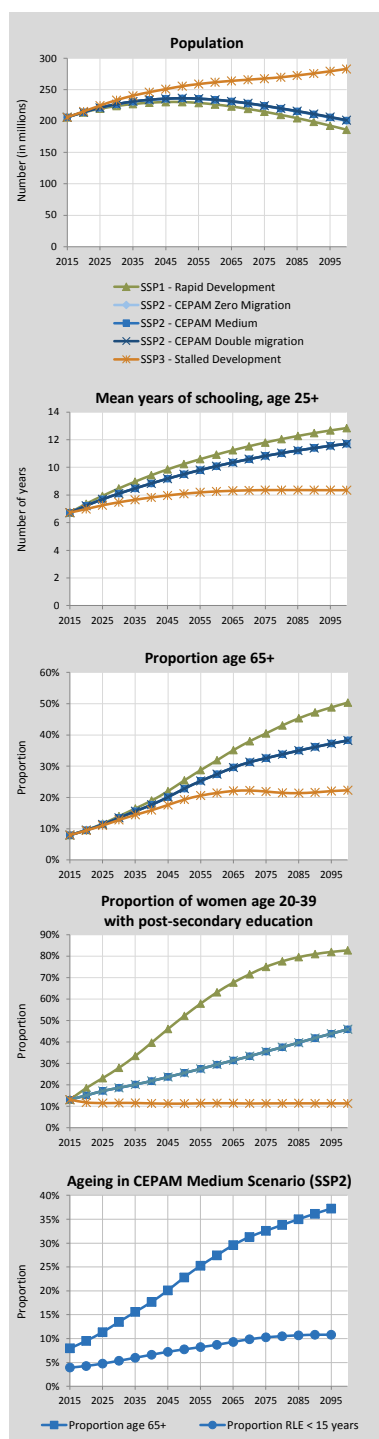
Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG. Colour legend as in age pyramids above.



Pyramids by education, CEPAM Medium Scenario



Brazil (Continued)



Alternative Scenarios to 2100

Projection Results by Scenario (SSP1-3)							
	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	205.98	213.77	223.96	230.32	226.50	214.92	186.29
SSP2 - CEPAM Zero Migration	205.98	214.26	226.87	236.24	233.78	223.99	200.44
SSP2 - CEPAM Medium	205.98	214.27	226.89	236.33	233.94	224.30	201.09
SSP2 - CEPAM Double Migration	205.98	214.27	226.90	236.40	234.07	224.55	201.61
SSP3 - Stalled Development	205.98	215.39	233.37	255.60	261.81	267.75	283.04
Proportion age 65+							
SSP1 - Rapid Development	8.0%	9.6%	14.0%	25.4%	31.9%	40.5%	50.4%
SSP2 - CEPAM Zero Migration	8.0%	9.5%	13.5%	22.8%	27.5%	32.6%	38.3%
SSP2 - CEPAM Medium	8.0%	9.5%	13.5%	22.8%	27.4%	32.6%	38.3%
SSP2 - CEPAM Double Migration	8.0%	9.5%	13.5%	22.8%	27.4%	32.6%	38.2%
SSP3 - Stalled Development	8.0%	9.4%	12.8%	19.3%	21.4%	21.9%	22.3%
Proportion below age 20							
SSP1 - Rapid Development	31.0%	28.2%	23.7%	17.7%	15.7%	13.2%	11.2%
SSP2 - CEPAM Zero Migration	31.0%	28.4%	25.2%	20.6%	19.1%	17.4%	16.0%
SSP2 - CEPAM Medium	31.0%	28.4%	25.1%	20.6%	19.1%	17.4%	16.0%
SSP2 - CEPAM Double Migration	31.0%	28.4%	25.1%	20.6%	19.1%	17.4%	16.0%
SSP3 - Stalled Development	31.0%	28.9%	27.7%	26.1%	25.9%	25.6%	26.1%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	13.0%	18.4%	27.9%	52.1%	63.1%	75.0%	82.7%
SSP2 - CEPAM Zero Migration	13.0%	15.0%	18.5%	25.5%	29.4%	35.4%	45.8%
SSP2 - CEPAM Medium	13.0%	15.0%	18.5%	25.5%	29.4%	35.5%	45.8%
SSP2 - CEPAM Double Migration	13.0%	15.0%	18.6%	25.5%	29.4%	35.5%	45.9%
SSP3 - Stalled Development	13.0%	11.7%	11.5%	11.2%	11.4%	11.3%	11.3%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	6.7	7.4	8.5	10.2	10.9	11.8	12.8
SSP2 - CEPAM Zero Migration	6.7	7.2	8.1	9.5	10.1	10.8	11.7
SSP2 - CEPAM Medium	6.7	7.2	8.1	9.5	10.1	10.8	11.7
SSP2 - CEPAM Double Migration	6.7	7.2	8.1	9.5	10.1	10.8	11.7
SSP3 - Stalled Development	6.7	7.0	7.5	8.1	8.3	8.4	8.3

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.67	1.50	1.40	1.34	1.34	1.33	1.39
SSP2 - CEPAM Zero Migration	1.75	1.68	1.65	1.58	1.59	1.56	1.61
SSP2 - CEPAM Medium	1.75	1.68	1.65	1.58	1.59	1.56	1.61
SSP2 - CEPAM Double Migration	1.75	1.68	1.65	1.58	1.59	1.56	1.61
SSP3 - Stalled Development	1.91	2.02	2.15	2.13	2.14	2.16	2.22
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	79.9	81.4	84.5	90.5	93.5	98.1	104.1
SSP2 - CEPAM Zero Migration	79.4	80.4	82.4	86.4	88.4	91.4	95.4
SSP2 - CEPAM Medium	79.4	80.4	82.4	86.4	88.4	91.4	95.4
SSP2 - CEPAM Double Migration	79.4	80.4	82.4	86.4	88.4	91.4	95.4
SSP3 - Stalled Development	78.9	79.3	80.2	82.0	82.8	84.1	85.9
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	2.4	5.1	9.8	20.3	24.9	29.9	32.0
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	2.4	5.5	12.7	30.6	39.7	51.4	61.4
SSP2 - CEPAM Double Migration	4.8	10.2	22.8	55.2	71.9	93.7	112.6
SSP3 - Stalled Development	1.6	2.0	0.0	0.1	0.1	0.1	0.1

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	31.3	33.4	37.5	44.6	47.1	50.5	53.9
Proportion age 65+	8.0%	9.5%	13.5%	22.8%	27.4%	32.6%	37.2%
Proportion RLE < 15 years	3.8%	4.1%	5.1%	7.7%	8.6%	10.4%	11.2%