South Africa

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)	55.29	58.67	64.28	68.52	71.39	72.71
Proportion age 65+	5.1%	5.7%	7.1%	8.5%	10.6%	13.0%
Proportion below age 20	38.6%	37.1%	33.9%	30.2%	27.7%	25.6%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	2.38	2.22	2.00	1.85	1.75	1.68
Life expectancy at birth (in years)						
Male	60.2	61.0	62.6	64.2	65.8	66.6
Female	67.3	67.9	69.1	70.4	71.6	72.9
Five-year net-migration flow (in thousands)	345.5	365.7	402.7	434.3	459.7	477.6

Human Capital indicators, CEPAM Medium Scenario (SSP2)

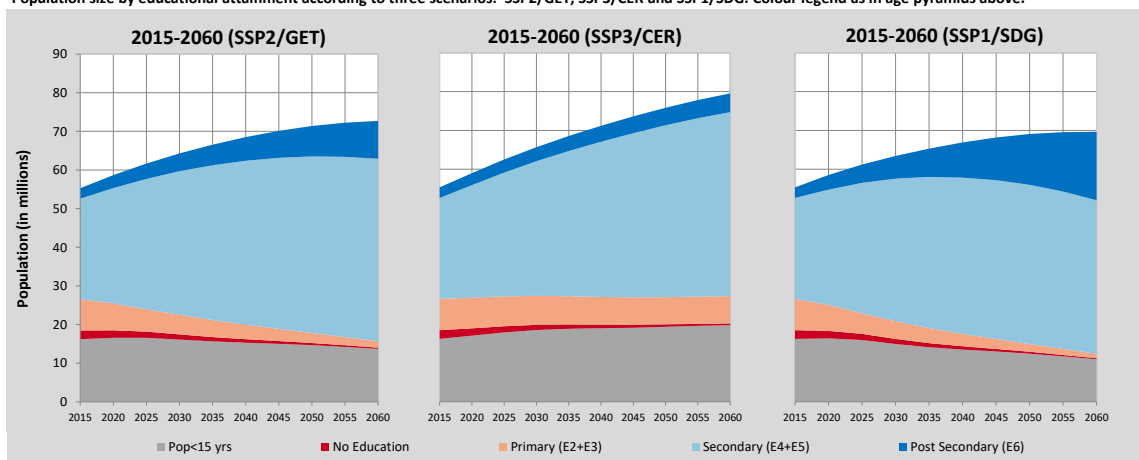|	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	7.5%	5.9%	3.5%	2.1%	1.2%	0.7%
E2 - incomplete primary	10.9%	9.1%	5.8%	3.5%	2.0%	1.1%
E3 - primary	11.0%	9.7%	7.3%	5.2%	3.5%	2.3%
E4 - lower secondary	25.1%	25.1%	24.3%	22.0%	18.8%	15.2%
E5 - upper secondary	37.1%	41.0%	48.2%	54.5%	59.4%	62.8%
E6 - post-secondary	8.4%	9.2%	10.8%	12.7%	15.1%	18.0%
Mean years of schooling (in years)	9.6	10.0	10.7	11.2	11.6	12.0
Gender gap (population age 25+): highest educational attainment (proportion males - proportion females)						
E1 - no education	-2.0	-2.0	-1.0	-1.0	0.0	0.0
E2 - incomplete primary	0.0	0.0	0.0	0.0	0.0	0.0
E3 - primary	0.0	0.0	0.0	0.0	0.0	0.0
E4 - lower secondary	1.0	1.0	1.0	1.0	1.0	1.0
E5 - upper secondary	2.0	2.0	2.0	2.0	2.0	2.0
E6 - post-secondary	0.0	0.0	-1.0	-1.0	-2.0	-3.0
Mean years of schooling (male minus female)	0.3	0.3	0.2	0.0	0.0	-0.1
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	2.0%	1.5%	0.6%	0.3%	0.1%	0.1%
E2 - incomplete primary	3.9%	2.8%	0.9%	0.4%	0.1%	0.0%
E3 - primary	7.0%	5.4%	2.9%	1.5%	0.7%	0.3%
E4 - lower secondary	29.9%	26.0%	19.6%	14.0%	9.5%	5.7%
E5 - upper secondary	49.0%	54.2%	62.8%	67.2%	68.7%	68.4%
E6 - post-secondary	8.1%	10.1%	13.2%	16.7%	20.8%	25.5%
Mean years of schooling (in years)	10.8	11.1	11.7	12.1	12.4	12.7

Education scenarios

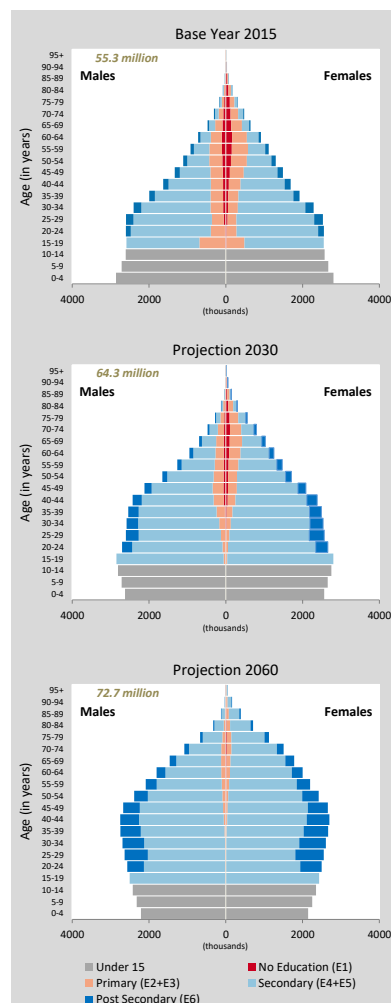*SSP2/GET: Global Education Trend Scenario (Medium assumption)*

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

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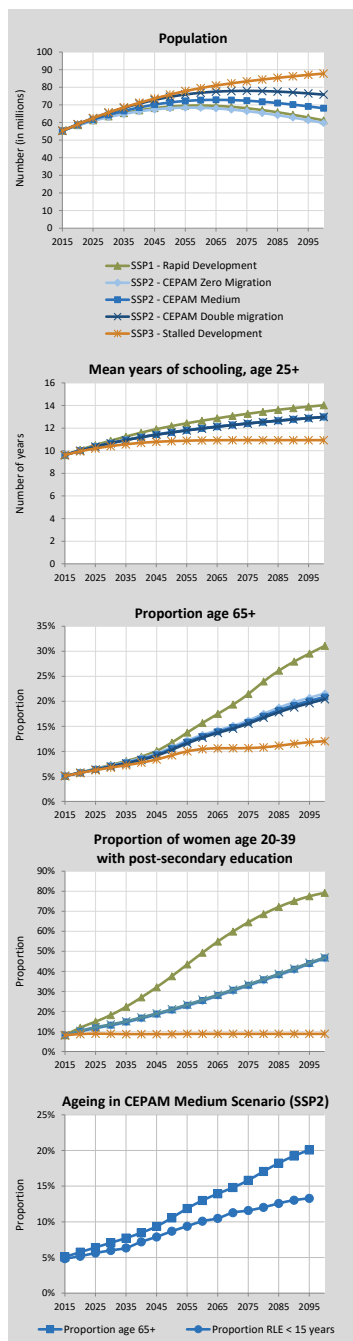

Base Year 2015 · Projection 2030 · Projection 2060

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)

Legend: Pop<15 yrs · No Education · Primary (E2+E3) · Secondary (E4+E5) · Post Secondary (E6)

South Africa (Continued)

Alternative Scenarios to 2100

Population

SSP1 - Rapid Development
SSP2 - CEPAM Zero Migration
SSP2 - CEPAM Medium
SSP2 - CEPAM Double migration
SSP3 - Stalled Development

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)

Proportion age 65+   Proportion RLE < 15 years

Projection Results by Scenario (SSP1-3)

	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	55.29	58.50	63.41	69.06	69.66	68.11	61.21
SSP2 - CEPAM Zero Migration	55.29	58.30	63.03	68.12	68.37	66.47	59.78
SSP2 - CEPAM Medium	55.29	58.67	64.28	71.39	72.71	72.37	68.08
SSP2 - CEPAM Double Migration	55.29	59.04	65.52	74.55	76.88	77.98	75.84
SSP3 - Stalled Development	55.29	58.96	65.67	75.83	79.54	83.37	87.79
Proportion age 65+							
SSP1 - Rapid Development	5.1%	5.8%	7.3%	11.8%	15.7%	21.5%	31.1%
SSP2 - CEPAM Zero Migration	5.1%	5.8%	7.2%	10.8%	13.3%	16.2%	21.6%
SSP2 - CEPAM Medium	5.1%	5.7%	7.1%	10.6%	13.0%	15.8%	20.9%
SSP2 - CEPAM Double Migration	5.1%	5.7%	7.0%	10.3%	12.7%	15.5%	20.4%
SSP3 - Stalled Development	5.1%	5.7%	6.8%	9.2%	10.5%	10.7%	12.0%
Proportion below age 20							
SSP1 - Rapid Development	38.6%	36.8%	32.4%	24.5%	21.7%	18.4%	15.6%
SSP2 - CEPAM Zero Migration	38.6%	37.1%	34.0%	27.9%	25.8%	23.1%	20.7%
SSP2 - CEPAM Medium	38.6%	37.1%	33.9%	27.7%	25.6%	23.0%	20.7%
SSP2 - CEPAM Double Migration	38.6%	37.0%	33.7%	27.6%	25.5%	23.0%	20.7%
SSP3 - Stalled Development	38.6%	37.6%	36.7%	33.7%	32.8%	31.4%	30.3%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	8.1%	11.9%	18.2%	37.6%	49.3%	64.5%	79.2%
SSP2 - CEPAM Zero Migration	8.1%	9.9%	12.9%	20.5%	25.1%	32.8%	46.4%
SSP2 - CEPAM Medium	8.1%	10.1%	13.2%	20.8%	25.5%	33.1%	46.7%
SSP2 - CEPAM Double Migration	8.1%	10.3%	13.5%	21.1%	25.8%	33.4%	46.9%
SSP3 - Stalled Development	8.1%	8.7%	8.8%	8.7%	8.8%	8.8%	8.8%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	9.6	10.1	10.9	12.2	12.7	13.3	14.0
SSP2 - CEPAM Zero Migration	9.6	10.0	10.7	11.7	12.0	12.4	13.0
SSP2 - CEPAM Medium	9.6	10.0	10.7	11.6	12.0	12.4	13.0
SSP2 - CEPAM Double Migration	9.6	10.0	10.7	11.6	12.0	12.4	13.0
SSP3 - Stalled Development	9.6	10.0	10.4	10.9	10.9	10.9	10.9

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	2.27	2.03	1.74	1.49	1.42	1.36	1.37
SSP2 - CEPAM Zero Migration	2.37	2.22	2.00	1.75	1.68	1.61	1.61
SSP2 - CEPAM Medium	2.38	2.22	2.00	1.75	1.68	1.61	1.61
SSP2 - CEPAM Double Migration	2.38	2.22	2.00	1.75	1.68	1.61	1.61
SSP3 - Stalled Development	2.58	2.62	2.57	2.34	2.27	2.21	2.25
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	67.8	68.9	71.3	75.8	78.1	81.5	86.1
SSP2 - CEPAM Zero Migration	67.3	67.9	69.1	71.7	72.9	74.8	77.3
SSP2 - CEPAM Medium	67.3	67.9	69.1	71.6	72.9	74.8	77.3
SSP2 - CEPAM Double Migration	67.3	67.9	69.1	71.6	72.9	74.8	77.3
SSP3 - Stalled Development	66.7	66.7	66.8	67.0	67.1	67.3	67.6
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	345.9	363.5	387.4	409.9	408.2	392.0	350.7
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	345.5	365.7	402.7	459.7	477.6	490.2	485.0
SSP2 - CEPAM Double Migration	690.5	726.8	792.6	890.4	918.9	935.8	917.5
SSP3 - Stalled Development	230.2	122.8	0.4	0.5	0.5	0.6	0.7

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	26.1	27.4	29.9	34.7	37.0	39.8	42.9
Proportion age 65+	5.1%	5.7%	7.1%	10.6%	13.0%	15.8%	20.1%
Proportion RLE < 15 years	4.8%	5.2%	6.0%	8.7%	10.1%	11.6%	13.3%