Ethiopia

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)	99.86	113.05	139.77	164.87	186.89	205.23
Proportion age 65+	3.5%	3.6%	4.0%	5.0%	6.6%	9.2%
Proportion below age 20	53.4%	50.4%	45.1%	39.8%	34.7%	30.6%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	4.07	3.55	2.86	2.39	2.10	2.02
Life expectancy at birth (in years)						
Male	64.1	64.9	66.6	68.3	70.0	70.8
Female	67.9	68.8	70.5	72.2	73.9	75.7
Five-year net-migration flow (in thousands)	109.7	94.8	59.4	22.3	-11.8	-27.9

Human Capital indicators, CEPAM Medium Scenario (SSP2)

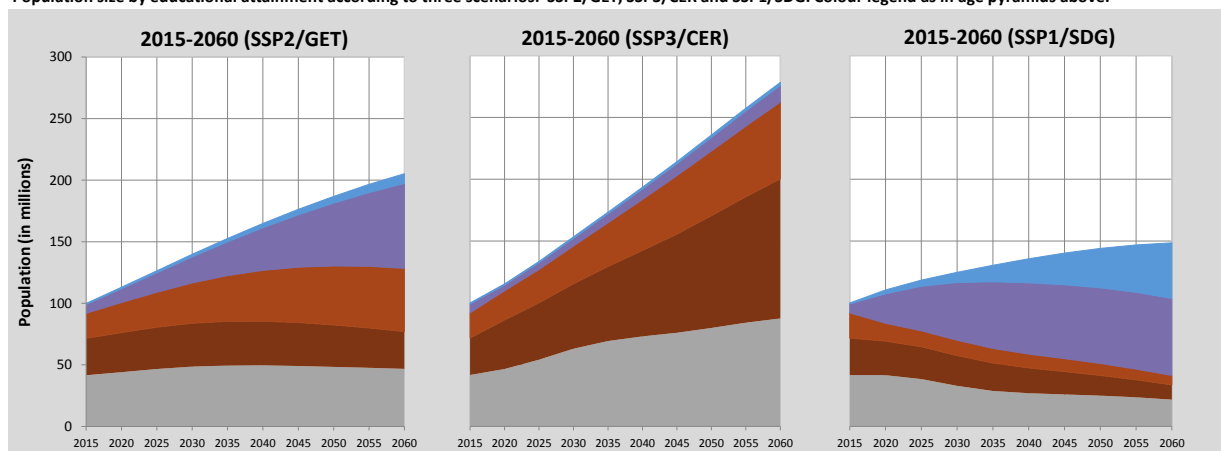|	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	61.5%	54.9%	44.4%	36.4%	29.0%	22.5%
E2 - incomplete primary	17.1%	19.0%	20.0%	18.9%	17.1%	15.0%
E3 - primary	10.7%	12.4%	15.7%	17.8%	19.1%	19.5%
E4 - lower secondary	3.0%	3.9%	5.9%	8.1%	10.5%	12.6%
E5 - upper secondary	5.9%	7.6%	11.2%	15.2%	19.8%	24.8%
E6 - post-secondary	1.8%	2.2%	2.9%	3.6%	4.5%	5.5%
Mean years of schooling (in years)	2.6	3.1	4.2	5.1	6.1	7.1
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.75	0.76	0.76	0.76	0.77	0.78
E2 - incomplete primary	1.39	1.20	1.09	1.08	1.07	1.06
E3 - primary	1.98	1.76	1.48	1.31	1.22	1.16
E4 - lower secondary	1.49	1.31	1.12	1.06	0.99	0.96
E5 - upper secondary	1.39	1.27	1.12	1.03	0.99	0.95
E6 - post-secondary	2.85	2.52	2.26	2.09	1.99	1.93
Mean years of schooling (male minus female)	0.6	0.6	0.5	0.5	0.4	0.3
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	44.1%	37.9%	31.1%	24.4%	16.8%	10.5%
E2 - incomplete primary	23.4%	23.9%	20.2%	15.7%	12.4%	9.5%
E3 - primary	16.0%	17.4%	19.8%	20.9%	20.8%	19.5%
E4 - lower secondary	5.4%	6.5%	8.8%	12.1%	15.0%	16.8%
E5 - upper secondary	9.1%	11.8%	16.8%	22.6%	29.5%	36.9%
E6 - post-secondary	2.0%	2.5%	3.3%	4.2%	5.5%	6.9%
Mean years of schooling (in years)	3.4	4.1	5.2	6.4	7.7	8.9

Education scenarios

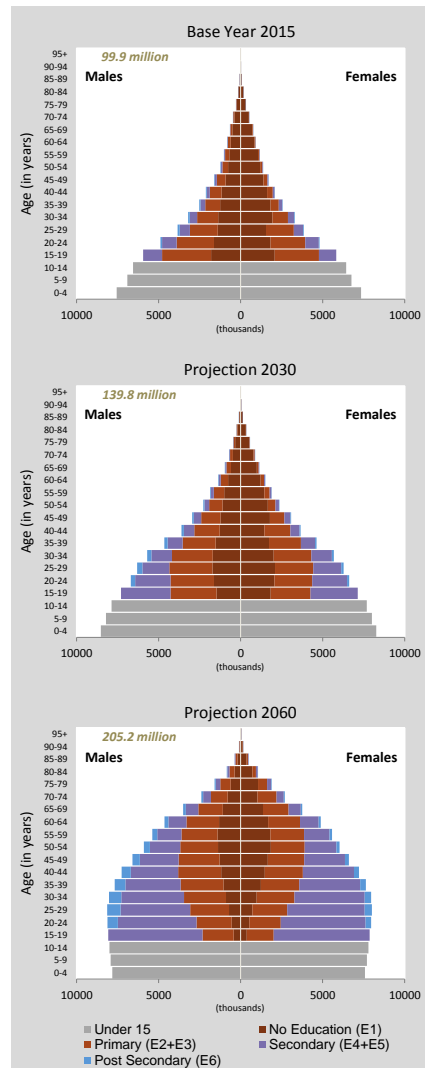*SSP2/GET: Global Education Trend Scenario (Medium assumption)*

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 — 99.9 million

Projection 2030 — 139.8 million

Projection 2060 — 205.2 million

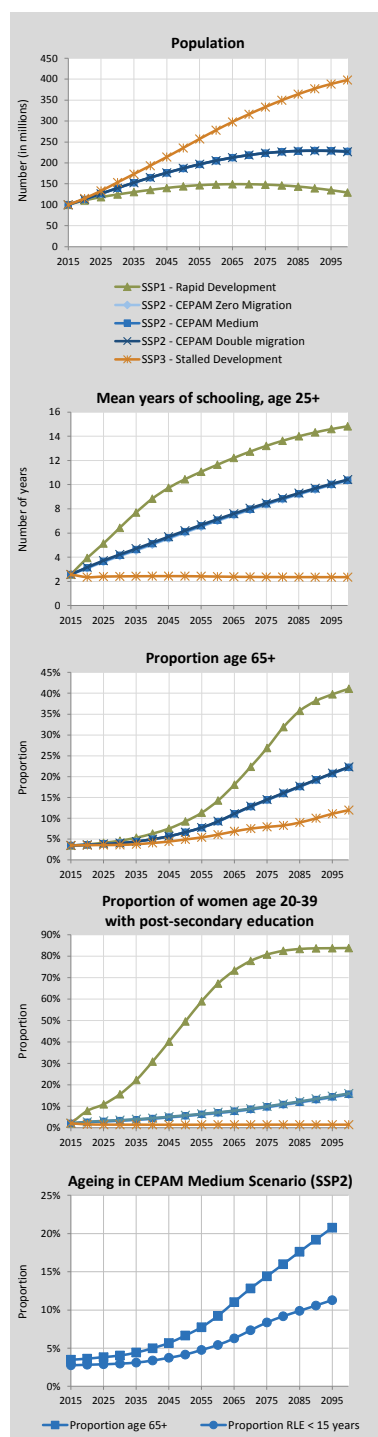Legend: Under 15 | No Education (E1) | Primary (E2+E3) | Secondary (E4+E5) | Post Secondary (E6)

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)

Ethiopia (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	99.86	110.39	124.64	144.08	148.54	148.19	129.34
SSP2 - CEPAM Zero Migration	99.86	112.94	139.49	186.45	204.84	223.31	228.22
SSP2 - CEPAM Medium	99.86	113.05	139.77	186.89	205.23	223.47	227.71
SSP2 - CEPAM Double Migration	99.86	113.15	140.03	187.25	205.50	223.42	226.84
SSP3 - Stalled Development	99.86	115.31	153.40	235.78	278.38	333.66	398.11
Proportion age 65+							
SSP1 - Rapid Development	3.5%	3.7%	4.6%	9.2%	14.3%	26.9%	41.1%
SSP2 - CEPAM Zero Migration	3.5%	3.6%	4.0%	6.6%	9.2%	14.3%	22.2%
SSP2 - CEPAM Medium	3.5%	3.6%	4.0%	6.6%	9.2%	14.4%	22.2%
SSP2 - CEPAM Double Migration	3.5%	3.6%	4.0%	6.7%	9.3%	14.5%	22.3%
SSP3 - Stalled Development	3.5%	3.5%	3.6%	4.9%	6.1%	7.9%	11.9%
Proportion below age 20							
SSP1 - Rapid Development	53.4%	49.1%	37.9%	23.4%	20.2%	16.0%	12.5%
SSP2 - CEPAM Zero Migration	53.4%	50.5%	45.1%	34.7%	30.6%	26.2%	21.5%
SSP2 - CEPAM Medium	53.4%	50.4%	45.1%	34.7%	30.6%	26.2%	21.5%
SSP2 - CEPAM Double Migration	53.4%	50.4%	45.0%	34.6%	30.5%	26.2%	21.5%
SSP3 - Stalled Development	53.4%	51.4%	50.3%	43.9%	40.7%	35.8%	30.4%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	2.0%	7.8%	15.6%	49.5%	67.2%	80.7%	83.8%
SSP2 - CEPAM Zero Migration	2.0%	2.4%	3.1%	5.3%	6.7%	9.4%	15.3%
SSP2 - CEPAM Medium	2.0%	2.5%	3.3%	5.5%	6.9%	9.6%	15.6%
SSP2 - CEPAM Double Migration	2.0%	2.7%	3.5%	5.7%	7.1%	9.9%	15.9%
SSP3 - Stalled Development	2.0%	1.5%	1.4%	1.3%	1.4%	1.4%	1.4%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	2.6	3.9	6.4	10.4	11.6	13.2	14.8
SSP2 - CEPAM Zero Migration	2.6	3.1	4.1	6.0	7.0	8.3	10.3
SSP2 - CEPAM Medium	2.6	3.1	4.2	6.1	7.1	8.4	10.4
SSP2 - CEPAM Double Migration	2.6	3.2	4.2	6.2	7.1	8.5	10.4
SSP3 - Stalled Development	2.6	2.4	2.4	2.4	2.4	2.4	2.4

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	3.43	2.40	1.54	1.35	1.36	1.32	1.22
SSP2 - CEPAM Zero Migration	4.07	3.56	2.87	2.11	1.95	1.80	1.65
SSP2 - CEPAM Medium	4.07	3.55	2.86	2.10	1.95	1.80	1.65
SSP2 - CEPAM Double Migration	4.06	3.54	2.86	2.10	1.95	1.80	1.65
SSP3 - Stalled Development	4.64	4.63	4.20	3.12	2.75	2.42	2.21
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	68.4	70.1	73.4	79.1	81.9	86.2	91.8
SSP2 - CEPAM Zero Migration	67.9	68.7	70.5	73.9	75.6	78.2	81.7
SSP2 - CEPAM Medium	67.9	68.8	70.5	73.9	75.7	78.3	81.7
SSP2 - CEPAM Double Migration	67.9	68.8	70.5	74.0	75.7	78.3	81.7
SSP3 - Stalled Development	67.3	67.5	67.9	68.4	68.6	69.0	69.6
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	109.8	100.5	90.4	74.4	67.6	63.5	72.1
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	109.7	94.8	59.4	-11.8	-43.1	-76.9	-92.2
SSP2 - CEPAM Double Migration	219.5	186.8	110.1	-42.3	-108.1	-177.6	-207.0
SSP3 - Stalled Development	73.0	30.5	0.0	-0.1	-0.2	-0.3	-0.3

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	18.6	19.8	22.6	29.0	32.4	37.1	42.1
Proportion age 65+	3.5%	3.6%	4.0%	6.6%	9.2%	14.4%	20.8%
Proportion RLE < 15 years	2.7%	2.8%	3.1%	4.1%	5.3%	8.2%	11.1%