Sudan

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)	38.64	43.08	51.83	60.11	67.18	72.60
Proportion age 65+	3.5%	3.7%	4.4%	5.2%	6.3%	7.7%
Proportion below age 20	52.4%	50.8%	46.4%	41.9%	37.6%	33.6%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	4.37	3.95	3.24	2.71	2.36	2.11
Life expectancy at birth (in years)						
Male	63.1	64.1	65.8	67.3	68.5	69.1
Female	66.4	67.6	69.7	71.6	73.3	74.8
Five-year net-migration flow (in thousands)	-565.9	-634.3	-769.0	-896.0	-1002.9	-1082.6

Human Capital indicators, CEPAM Medium Scenario (SSP2)

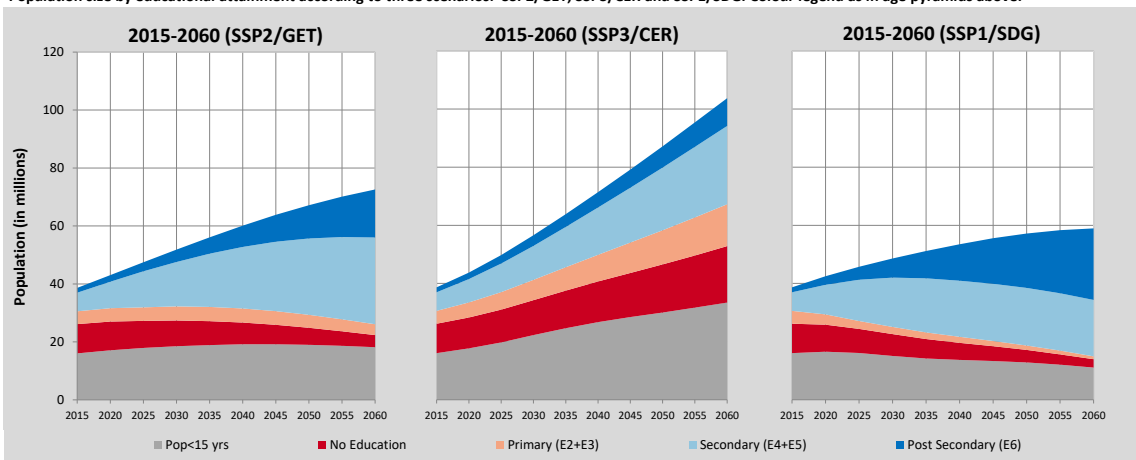|	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	53.0%	47.0%	34.8%	24.3%	15.9%	9.9%
E2 - incomplete primary	14.1%	13.1%	10.6%	8.0%	5.7%	3.7%
E3 - primary	4.1%	4.9%	6.2%	6.4%	5.8%	4.8%
E4 - lower secondary	8.6%	9.9%	12.1%	13.0%	12.7%	11.3%
E5 - upper secondary	12.1%	15.1%	21.8%	28.2%	33.2%	36.5%
E6 - post-secondary	8.1%	10.0%	14.5%	20.1%	26.7%	33.8%
Mean years of schooling (in years)	4.3	5.0	6.6	8.1	9.4	10.6
Gender gap (population age 25+): highest educational attainment (proportion males - proportion females)						
E1 - no education	-15.0	-14.0	-11.0	-8.0	-5.0	-3.0
E2 - incomplete primary	5.0	4.0	3.0	1.0	1.0	0.0
E3 - primary	1.0	1.0	1.0	1.0	1.0	1.0
E4 - lower secondary	3.0	3.0	3.0	3.0	3.0	3.0
E5 - upper secondary	4.0	3.0	3.0	3.0	4.0	5.0
E6 - post-secondary	3.0	2.0	1.0	-1.0	-3.0	-5.0
Mean years of schooling (male minus female)	1.4	1.3	1.0	0.6	0.3	0.0
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	43.3%	34.8%	19.8%	9.7%	4.0%	1.3%
E2 - incomplete primary	13.3%	10.3%	6.1%	3.7%	1.7%	0.6%
E3 - primary	4.3%	5.4%	6.4%	5.2%	3.5%	1.8%
E4 - lower secondary	10.1%	11.7%	13.3%	12.0%	9.1%	5.7%
E5 - upper secondary	18.1%	23.9%	33.8%	40.0%	42.7%	41.5%
E6 - post-secondary	10.8%	13.8%	20.7%	29.3%	39.1%	49.1%
Mean years of schooling (in years)	5.4	6.6	8.7	10.4	11.7	12.6

Education scenarios

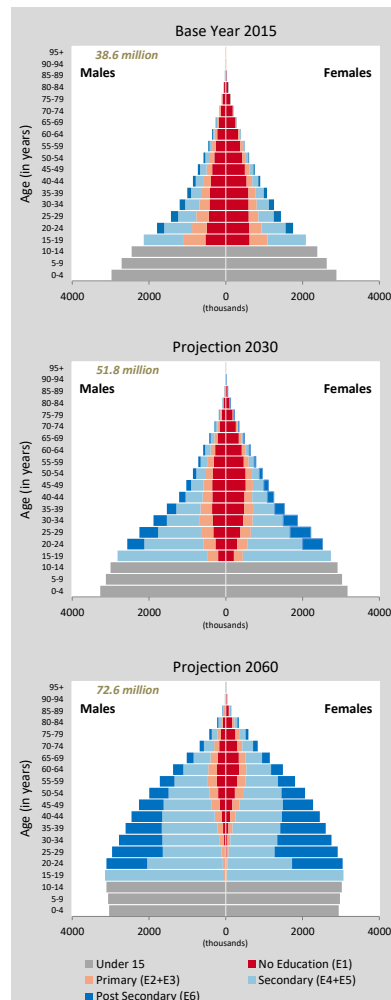*SSP2/GET: Global Education Trend Scenario (Medium assumption)*

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

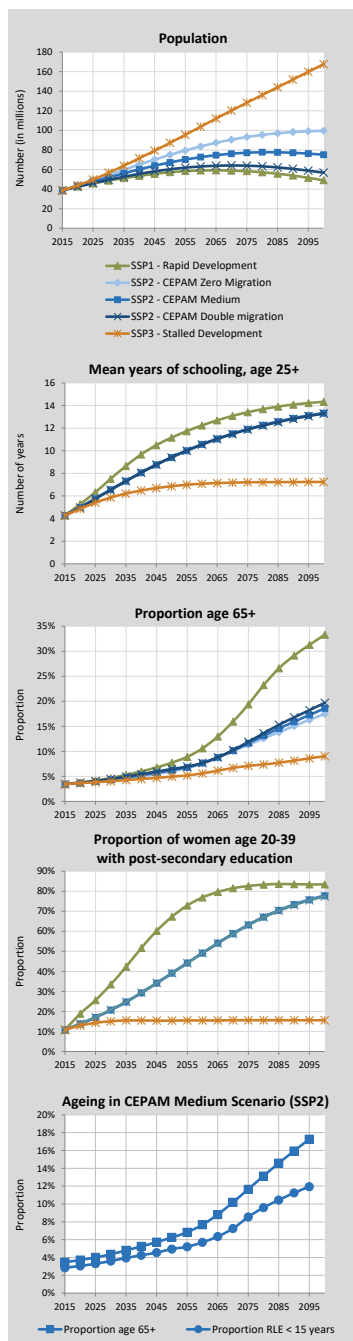*SSP1/SDG: Sustainable Development Goal Scenario (universal primary and secondary education by 2030)*

Base Year 2015 — 38.6 million — Males / Females

Projection 2030 — 51.8 million — Males / Females

Projection 2060 — 72.6 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)

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

Sudan (Continued)

Population

Legend:
- 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)

Legend:
- Proportion age 65+
- Proportion RLE < 15 years

Alternative Scenarios to 2100

Projection Results by Scenario (SSP1-3)

	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	38.64	42.50	48.60	57.19	58.95	58.18	49.00
SSP2 - CEPAM *Zero Migration*	38.64	43.73	54.35	74.91	83.55	93.18	99.53
SSP2 - CEPAM *Medium*	38.64	43.08	51.83	67.18	72.60	77.13	75.06
SSP2 - CEPAM *Double Migration*	38.64	42.43	49.40	60.21	63.07	63.89	56.75
SSP3 - Stalled Development	38.64	43.77	56.57	87.17	103.73	128.19	167.64
Proportion age 65+							
SSP1 - Rapid Development	3.5%	3.8%	4.7%	7.8%	10.6%	19.4%	33.3%
SSP2 - CEPAM *Zero Migration*	3.5%	3.7%	4.2%	6.0%	7.6%	11.3%	17.5%
SSP2 - CEPAM *Medium*	3.5%	3.7%	4.4%	6.3%	7.7%	11.6%	18.6%
SSP2 - CEPAM *Double Migration*	3.5%	3.8%	4.5%	6.5%	7.7%	11.9%	19.7%
SSP3 - Stalled Development	3.5%	3.7%	4.0%	5.0%	5.6%	7.1%	9.0%
Proportion below age 20							
SSP1 - Rapid Development	52.4%	50.1%	42.5%	30.2%	25.9%	20.1%	15.3%
SSP2 - CEPAM *Zero Migration*	52.4%	50.5%	46.0%	37.1%	33.1%	28.5%	24.2%
SSP2 - CEPAM *Medium*	52.4%	50.8%	46.4%	37.6%	33.6%	28.7%	24.0%
SSP2 - CEPAM *Double Migration*	52.4%	51.2%	46.9%	38.2%	34.1%	28.8%	23.8%
SSP3 - Stalled Development	52.4%	51.3%	49.2%	44.5%	41.7%	38.5%	35.9%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	10.8%	18.9%	33.5%	67.3%	76.9%	82.6%	83.4%
SSP2 - CEPAM *Zero Migration*	10.8%	13.8%	20.6%	39.1%	49.2%	63.3%	77.9%
SSP2 - CEPAM *Medium*	10.8%	13.8%	20.7%	39.1%	49.1%	63.2%	77.7%
SSP2 - CEPAM *Double Migration*	10.8%	13.9%	20.8%	39.1%	49.1%	63.1%	77.4%
SSP3 - Stalled Development	10.8%	12.9%	15.1%	15.4%	15.5%	15.6%	15.6%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	4.3	5.3	7.5	11.2	12.2	13.4	14.3
SSP2 - CEPAM *Zero Migration*	4.3	5.0	6.6	9.4	10.6	11.9	13.4
SSP2 - CEPAM *Medium*	4.3	5.0	6.6	9.4	10.6	11.9	13.3
SSP2 - CEPAM *Double Migration*	4.3	5.0	6.5	9.4	10.6	11.9	13.3
SSP3 - Stalled Development	4.3	4.9	5.9	6.9	7.1	7.2	7.2

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	3.95	3.20	2.30	1.68	1.54	1.41	1.38
SSP2 - CEPAM *Zero Migration*	4.37	3.95	3.24	2.36	2.11	1.90	1.85
SSP2 - CEPAM *Medium*	4.37	3.95	3.24	2.36	2.11	1.90	1.85
SSP2 - CEPAM *Double Migration*	4.37	3.95	3.24	2.36	2.11	1.90	1.85
SSP3 - Stalled Development	4.73	4.64	4.30	3.43	3.13	2.90	2.86
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	67.0	68.9	72.2	77.8	80.2	84.0	88.4
SSP2 - CEPAM *Zero Migration*	66.4	67.6	69.7	73.3	74.8	76.9	79.4
SSP2 - CEPAM *Medium*	66.4	67.6	69.7	73.3	74.8	76.9	79.4
SSP2 - CEPAM *Double Migration*	66.4	67.6	69.7	73.3	74.8	76.9	79.4
SSP3 - Stalled Development	65.9	66.4	67.1	67.4	67.3	67.1	67.1
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	-566.4	-626.4	-720.7	-851.7	-876.1	-855.6	-738.7
SSP2 - CEPAM *Zero Migration*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM *Medium*	-565.9	-634.3	-769.0	-1002.9	-1082.6	-1142.1	-1113.5
SSP2 - CEPAM *Double Migration*	-1131.9	-1247.9	-1460.4	-1784.3	-1863.8	-1868.2	-1681.3
SSP3 - Stalled Development	-377.2	-215.2	-0.8	-1.3	-1.5	-1.9	-2.4

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	18.9	19.6	21.8	27.0	29.9	34.5	39.6
Proportion age 65+	3.5%	3.7%	4.4%	6.3%	7.7%	11.6%	17.3%
Proportion RLE < 15 years	2.8%	3.0%	3.6%	4.9%	5.7%	8.5%	11.9%