Chad

Detailed Human Capital projections to 2060

Demographic indicators, CEPAM Mediu						
	2015	2020	2030	2040	2050	2060
Population (in millions)	14.01	16.19	20.72	25.31	29.45	32.92
Proportion age 65+	2.5%	2.5%	2.7%	3.2%	4.2%	5.9%
Proportion below age 20	58.7%	57.2%	52.4%	46.8%	41.4%	36.2%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	5.59	4.88	3.89	3.09	2.54	2.35
Life expectancy at birth (in years)						
Male	52.1	53.3	55.8	58.2	60.6	61.9
Female	54.5	55.9	58.6	61.3	64.0	66.7
	22.8	18.9	9.6	-1.0	-11.2	-15.9

Human Capital indicators, CEPAM Me	dium Scenario	(SSP2)				
	2015	2020	2030	2040	2050	2060
Population age 25+: highest education	al attainment	(columns su	ım to 100%)		
E1 - no education	66.3%	60.2%	48.5%	37.7%	28.5%	20.7%
E2 - incomplete primary	13.8%	14.5%	17.5%	19.0%	18.3%	16.5%
E3 - primary	9.8%	12.0%	15.4%	18.3%	20.8%	22.0%
E4 - lower secondary	4.7%	6.4%	8.7%	11.5%	14.6%	17.9%
E5 - upper secondary	3.0%	4.0%	6.0%	8.6%	11.9%	15.8%
E6 - post-secondary	2.3%	2.9%	3.9%	4.9%	5.9%	7.2%
Mean years of schooling (in years)	2.4	3.0	4.0	5.1	6.2	7.3
Gender gap (population age 25+): high	est education	ıl attainme	nt (ratio mo	ale/female)		
E1 - no education	0.69	0.67	0.66	0.68	0.70	0.72
E2 - incomplete primary	1.22	1.03	0.94	0.84	0.77	0.72
E3 - primary	2.69	2.24	1.63	1.30	1.10	0.99
E4 - lower secondary	4.18	3.18	1.90	1.38	1.17	1.03
E5 - upper secondary	4.83	3.20	2.20	1.83	1.64	1.52
E6 - post-secondary	4.55	3.31	2.66	2.44	2.31	2.21
Mean years of schooling	1.2	1.2	1.1	1.0	0.9	0.8
(male minus female)						
Women age 20-39: highest educations	al attainment (d	columns sui	n to 100%)			
E1 - no education	53.4%	46.4%	34.4%	24.0%	14.9%	8.1%
E2 - incomplete primary	16.0%	17.3%	20.3%	20.3%	16.6%	12.1%
E3 - primary	14.8%	16.9%	19.9%	22.3%	24.1%	23.6%
E4 - lower secondary	8.2%	9.6%	12.0%	15.3%	19.7%	23.8%
E5 - upper secondary	5.1%	6.5%	9.1%	12.8%	18.0%	24.0%
E6 - post-secondary	2.5%	3.3%	4.3%	5.3%	6.6%	8.4%
Mean years of schooling (in years)	2.1	2.9	4.3	5.7	7.1	8.5

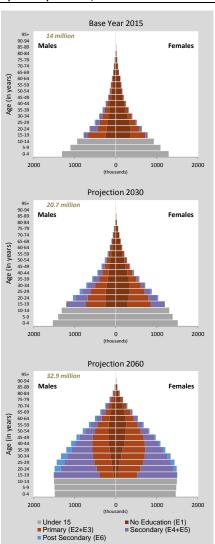
Education scenarios

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

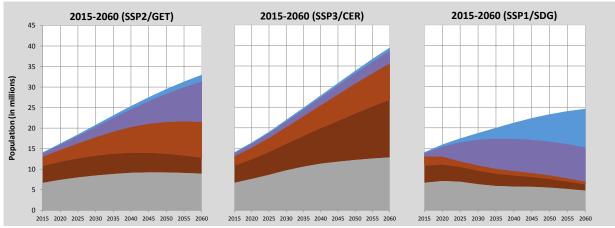
SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

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

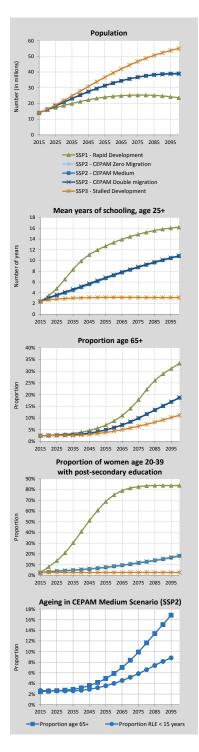
Pyramids by education, CEPAM Medium Scenario







Chad (Continued)



Alternative Scenarios to 2100

Projection Results by Scenar	in (SSD1_3)						
Projection Results by Scenar	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	14.01	15.86	18.66	23.24	24.56	25.33	23.59
SSP2 - CEPAM Zero Migration	14.01	16.16	20.65	29.34	32.83	36.73	39.29
SSP2 - CEPAM Medium	14.01	16.19	20.72	29.45	32.92	36.74	39.07
SSP2 - CEPAM Double Migration	14.01	16.21	20.79	29.54	32.99	36.71	38.79
SSP3 - Stalled Development	14.01	16.37	21.85	33.77	39.40	46.67	54.99
Proportion age 65+							
SSP1 - Rapid Development	2.5%	2.6%	3.1%	5.7%	8.8%	17.8%	33.3%
SSP2 - CEPAM Zero Migration	2.5%	2.6%	2.7%	4.2%	5.8%	9.9%	18.6%
SSP2 - CEPAM Medium	2.5%	2.5%	2.7%	4.2%	5.9%	9.9%	18.6%
SSP2 - CEPAM Double Migration	2.5%	2.5%	2.7%	4.2%	5.9%	10.0%	18.7%
SSP3 - Stalled Development	2.5%	2.5%	2.5%	3.4%	4.4%	6.5%	11.2%
Proportion below age 20							
SSP1 - Rapid Development	58.7%	56.2%	46.8%	31.7%	26.8%	20.5%	14.9%
SSP2 - CEPAM Zero Migration	58.7%	57.2%	52.5%	41.4%	36.2%	30.4%	
SSP2 - CEPAM Medium	58.7%	57.2%	52.4%	41.4%	36.2%	30.4%	24.1%
SSP2 - CEPAM Double Migration	58.7%	57.1%	52.3%	41.4%	36.2%	30.4%	
SSP3 - Stalled Development	58.7%	57.7%	55.2%	46.9%	42.5%	37.3%	32.3%
Proportion of women age 20		•					
SSP1 - Rapid Development	2.5%	7.9%	21.0%	60.6%	75.0%	82.7%	83.7%
SSP2 - CEPAM Zero Migration	2.5%	3.1%	4.0%	6.4%	8.1%	11.3%	17.8%
SSP2 - CEPAM Medium	2.5%	3.3%	4.3%	6.6%	8.4%	11.5%	
SSP2 - CEPAM Double Migration	2.5%	3.5%	4.5%	6.8%	8.6%	11.7%	18.4%
SSP3 - Stalled Development	2.5%	2.7%	2.6%	2.6%	2.6%	2.7%	2.79
Mean years of schooling, age	25+						
SSP1 - Rapid Development	2.4	3.5	6.5	12.0	13.4	14.9	16.2
SSP2 - CEPAM Zero Migration	2.4	2.9	3.9	6.0	7.1	8.7	10.8
SSP2 - CEPAM Medium	2.4	3.0	4.0	6.2	7.3	8.7	10.8
SSP2 - CEPAM Double Migration	2.4	3.1	4.1	6.3	7.4	8.8	10.9
SSP3 - Stalled Development	2.4	2.7	2.9	3.1	3.1	3.1	3.1
Demographic assumptions u	nderlying SSP	's					
	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	4.95	3.67	2.46	1.66	1.48	1.35	1.23
SSP2 - CEPAM Zero Migration	5.59	4.88		2.54	2.20	1.94	
SSP2 - CEPAM Medium			3.89				1./4
	5.59	4.88	3.89 3.89				
	5.59 5.58	4.88 4.87	3.89	2.54	2.20	1.94	1.74
SSP2 - CEPAM Double Migration	5.58	4.87	3.89 3.88	2.54 2.54	2.20 2.20	1.94 1.94	1.74 1.74
SSP2 - CEPAM Double Migration SSP3 - Stalled Development	5.58 6.00	4.87 5.63	3.89	2.54	2.20	1.94	1.74 1.74
SSP2 - CEPAM Double Migration SSP3 - Stalled Development L ife expectancy at birth for fe	5.58 6.00 emales (in yea	4.87 5.63	3.89 3.88 4.89	2.54 2.54	2.20 2.20	1.94 1.94	1.74 1.74 2.38
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development	5.58 6.00 emales (in yea 55.2	4.87 5.63 (rs) 57.6	3.89 3.88 4.89	2.54 2.54 3.36	2.20 2.20 2.92 74.1	1.94 1.94 2.59	1.74 1.74 2.38
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM zero Migration	5.58 6.00 emales (in yea 55.2 54.5	4.87 5.63 ars) 57.6 55.9	3.89 3.88 4.89 62.6 58.5	2.54 2.54 3.36 70.7 63.9	2.20 2.20 2.92 74.1 66.6	1.94 1.94 2.59 79.2 70.7	1.7 ² 1.7 ² 2.38 86.3 76.1
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium	5.58 6.00 emales (in yea 55.2 54.5 54.5	4.87 5.63 57.6 55.9 55.9	3.89 3.88 4.89 62.6 58.5 58.6	2.54 2.54 3.36 70.7 63.9 64.0	2.20 2.20 2.92 74.1 66.6 66.7	1.94 1.94 2.59 79.2 70.7	1.7 ⁴ 1.7 ² 2.38 86.3 76.1
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5	4.87 5.63 175) 57.6 55.9 55.9	3.89 3.88 4.89 62.6 58.5 58.6 58.6	2.54 2.54 3.36 70.7 63.9 64.0 64.0	2.20 2.20 2.92 74.1 66.6 66.7 66.7	1.94 1.94 2.59 79.2 70.7 70.7 70.7	1.74 1.74 2.38 86.3 76.1 76.1
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration SSP3 - Stalled Development	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.5	4.87 5.63 57.6 55.9 55.9 55.9 54.7	3.89 3.88 4.89 62.6 58.5 58.6	2.54 2.54 3.36 70.7 63.9 64.0	2.20 2.20 2.92 74.1 66.6 66.7	1.94 1.94 2.59 79.2 70.7	1.74 1.74 2.38 86.3 76.1 76.1
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration SSP3 - Stalled Development Migration — net flow over fix	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.5 54.0 we years (in the	4.87 5.63 175) 57.6 55.9 55.9 55.9 54.7 ousands)	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0	2.54 2.54 3.36 70.7 63.9 64.0 64.0 58.4	2.20 2.92 74.1 66.6 66.7 66.7 59.5	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3	1.74 1.74 2.38 86.5 76.1 76.1 64.1
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for for SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration SSP3 - Stalled Development Migration — net flow over fix SSP1 - Rapid Development	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.0 ve years (in th	4.87 5.63 57.6 55.9 55.9 55.9 54.7 ousands)	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0	2.54 2.54 3.36 70.7 63.9 64.0 64.0 58.4	2.20 2.20 2.92 74.1 66.6 66.7 66.7 59.5	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3	1.74 1.74 2.38 86.3 76.1 76.1 64.1
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Double Migration SSP3 - Stalled Development Migration - net flow over fix SSP1 - Rapid Development SSP2 - CEPAM Zero Migration	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.5 54.0 ev years (in th	4.87 5.63 57.6 55.9 55.9 55.9 54.7 ousands)	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0	2.54 2.54 3.36 70.7 63.9 64.0 64.0 58.4	2.20 2.20 2.92 74.1 66.6 66.7 66.7 59.5	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3	1.74 1.74 2.38 86.3 76.1 76.1 64.1
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP3 - Stalled Development Migration — net flow over fix SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.5 54.0 22.8 0.0 22.8	4.87 5.63 57.6 55.9 55.9 54.7 ousands) 19.7 0.0 18.9	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0	2.54 2.54 3.36 70.7 63.9 64.0 64.0 58.4 4.8 0.0	2.20 2.20 2.92 74.1 66.6 66.7 66.7 59.5	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3 -3.4 0.0	1.74 1.77 2.38 86.3 76.3 76.3 76.4 64.3
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP3 - Stalled Development Migration — net flow over fix SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.0 ve years (in th 22.8 0.0 22.8 45.6	4.87 5.63 57.6 55.9 55.9 55.9 54.7 0usands) 19.7 0.0 18.9 37.2	3.89 3.88 4.89 62.6 58.5 58.6 56.0 14.8 0.0 9.6 17.4	2.54 2.54 3.36 70.7 63.9 64.0 64.0 58.4 4.8 0.0 -11.2	2.20 2.20 2.92 74.1 66.6 66.7 59.5 0.7 0.0 -20.4 -45.2	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3 -3.4 0.0 -31.6 -67.6	1.74 1.74 2.38 86.2 76.1 76.1 76.1 64.1 -5.2 0.0
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration SSP3 - Stalled Development Migration - net flow over fix SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration SSP3 - Stalled Development SSP3 - Stalled Development	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.5 54.0 22.8 0.0 22.8	4.87 5.63 57.6 55.9 55.9 54.7 ousands) 19.7 0.0 18.9	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0	2.54 2.54 3.36 70.7 63.9 64.0 64.0 58.4 4.8 0.0	2.20 2.20 2.92 74.1 66.6 66.7 66.7 59.5	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3 -3.4 0.0	1.74 2.38 86.3 76.1 76.1 76.1 64.1 -5.2 0.0 -40.1 -83.5
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP3 - Stalled Development Migration — net flow over fix SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP3 - Stalled Development SSP4 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.0 ve years (in th 22.8 45.6 15.2	4.87 5.63 57.6 55.9 55.9 55.9 54.7 00usands) 19.7 0.0 18.9 37.2 6.3	3.89 3.88 4.89 62.6 58.5 58.6 56.0 14.8 0.0 9.6 17.4	2.54 2.54 3.36 70.7 63.9 64.0 58.4 4.8 0.0 -11.2 -26.2	2.20 2.20 2.92 74.1 66.6 66.7 66.7 59.5 0.7 0.0 -20.4 -45.2 0.0	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3 -3.4 0.00 -31.6 -67.6 0.0	1.74 1.74 2.38 86.3 76.1 76.1 76.1 64.1 -5.2 0.0 -40.1 -83.5
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration SSP3 - Stalled Development Migration - net flow over fit SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP2 - CEPAM Medium SSP3 - Stalled Development SSP3 - Stalled Development SSP3 - Stalled Development Ageing indicators, CEPAM M	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.0 ve years (in th 22.8 45.6 15.2	4.87 5.63 57.6 55.9 55.9 55.9 64.7 0usands) 19.7 0.8.9 37.2 6.3 iio (SSP2) 2020	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0 14.8 0.0 9.6 17.4 0.0	2.54 2.54 3.36 70.7 63.9 64.0 58.4 4.8 0.0 -11.2 -26.2 0.0	2.20 2.20 2.92 74.1 66.6 66.7 59.5 0.7 0.0 -20.4 -45.2 0.0	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3 -3.4 0.0 -31.6 -67.6 0.0	1.74 1.74 2.38 86.3 76.1 76.1 76.1 -5.2 0.0 -40.1 -0.0
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Double Migration SSP3 - Stalled Development Migration - net flow over fix SSP1 - Rapid Development SSP2 - CEPAM Medium SSP2 - CEPAM Medium SSP3 - Stalled Development SSP3 - Stalled Development SSP4 - CEPAM Medium SSP5 - CEPAM Double Migration SSP3 - Stalled Development Ageing indicators, CEPAM M Median age	5.58 6.00 emales (in year 55.2 54.5 54.5 54.5 54.0 ve years (in th 22.8 0.0 22.8 45.6 15.2 edium Scenar 2015	4.87 5.63 57.6 55.9 55.9 54.7 000 19.7 0.0 18.9 37.2 6.3 io (SSP2) 2020	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0 14.8 0.0 9.6 17.4 0.0	2.54 2.54 3.36 70.7 63.9 64.0 58.4 4.8 0.0 -11.2 -26.2 0.0	2.20 2.20 2.92 74.1 66.6 66.7 59.5 0.7 0.0 -20.4 -45.2 0.0	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3 -3.4 0.0 -31.6 -67.6 0.0	1.74 1.74 2.38 86.3 76.1 76.1 64.1 -5.2 0.0 -40.1 -83.5 0.0
SSP2 - CEPAM Double Migration SSP3 - Stalled Development Life expectancy at birth for fe SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium SSP3 - CEPAM Double Migration SSSP3 - Stalled Development Migration — net flow over file SSP1 - Rapid Development SSP2 - CEPAM Zero Migration SSP2 - CEPAM Zero Migration SSP3 - Stalled Development SSP3 - Stalled Development SSP3 - Stalled Development SSP3 - Stalled Development	5.58 6.00 emales (in yea 55.2 54.5 54.5 54.5 54.0 ve years (in th 22.8 45.6 15.2	4.87 5.63 57.6 55.9 55.9 55.9 64.7 0usands) 19.7 0.8.9 37.2 6.3 iio (SSP2) 2020	3.89 3.88 4.89 62.6 58.5 58.6 58.6 56.0 14.8 0.0 9.6 17.4 0.0	2.54 2.54 3.36 70.7 63.9 64.0 58.4 4.8 0.0 -11.2 -26.2 0.0	2.20 2.20 2.92 74.1 66.6 66.7 59.5 0.7 0.0 -20.4 -45.2 0.0	1.94 1.94 2.59 79.2 70.7 70.7 70.7 61.3 -3.4 0.0 -31.6 -67.6 0.0	1. 1. 2. 86 76 76 64 -5 0 -40 -83 0 38 16.5