Morocco

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)	34.80	36.83	39.81	41.66	42.47	42.27
Proportion age 65+	6.4%	7.6%	11.3%	14.3%	17.9%	22.0%
Proportion below age 20	36.2%	34.8%	31.1%	26.5%	24.2%	22.2%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	2.38	2.18	1.94	1.79	1.72	1.69
Life expectancy at birth (in years)						
Male	74.9	75.7	77.3	78.9	80.5	81.3
Female	77.3	78.3	80.1	82.0	83.8	85.7
Five-year net-migration flow (in thousands)	-428.7	-453.1	-487.2	-505.1	-512.2	-511.3

Human Capital indicators, CEPAM Medium Scenario (SSP2)

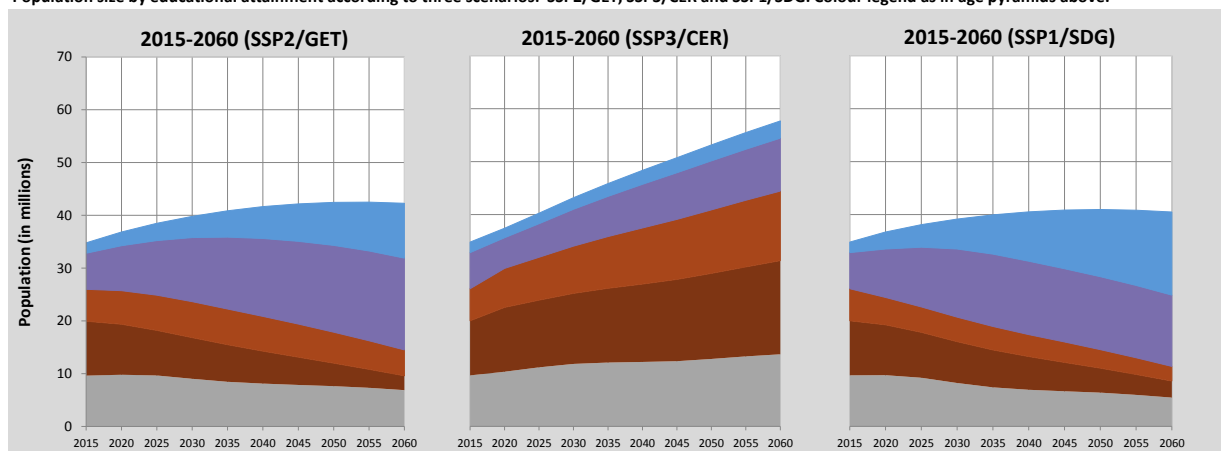|	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	48.3%	42.2%	31.4%	22.3%	14.7%	9.0%
E2 - incomplete primary	6.5%	6.4%	5.9%	5.0%	4.0%	3.0%
E3 - primary	16.5%	17.5%	18.4%	17.3%	15.4%	13.0%
E4 - lower secondary	10.9%	12.3%	14.6%	16.0%	16.3%	15.7%
E5 - upper secondary	9.5%	11.6%	15.7%	20.5%	25.0%	28.6%
E6 - post-secondary	8.3%	10.1%	13.9%	18.9%	24.6%	30.8%
Mean years of schooling (in years)	4.7	5.5	6.9	8.3	9.7	10.8
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.64	0.61	0.56	0.52	0.47	0.43
E2 - incomplete primary	1.59	1.54	1.45	1.35	1.26	1.15
E3 - primary	1.79	1.70	1.56	1.48	1.41	1.33
E4 - lower secondary	1.37	1.31	1.22	1.18	1.18	1.18
E5 - upper secondary	1.30	1.20	1.10	1.05	1.04	1.05
E6 - post-secondary	1.42	1.34	1.22	1.12	1.03	0.97
Mean years of schooling (male minus female)	0.8	0.8	0.7	0.6	0.4	0.3
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	27.4%	20.0%	7.7%	2.8%	0.9%	0.2%
E2 - incomplete primary	8.0%	6.4%	3.8%	1.9%	0.8%	0.3%
E3 - primary	18.9%	19.4%	17.8%	11.9%	6.9%	3.2%
E4 - lower secondary	16.0%	17.4%	19.2%	17.3%	13.6%	9.1%
E5 - upper secondary	17.0%	21.1%	29.4%	36.4%	39.7%	40.2%
E6 - post-secondary	12.6%	15.7%	22.1%	29.7%	38.0%	46.9%
Mean years of schooling (in years)	6.5	7.8	10.1	11.8	12.9	13.7

Education scenarios

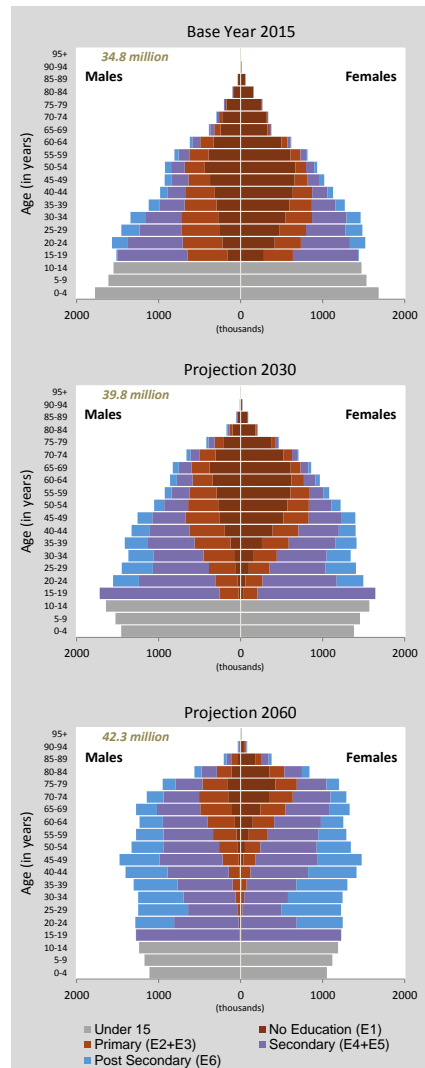*SSP2/GET: Global Education Trend Scenario (Medium assumption)*

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

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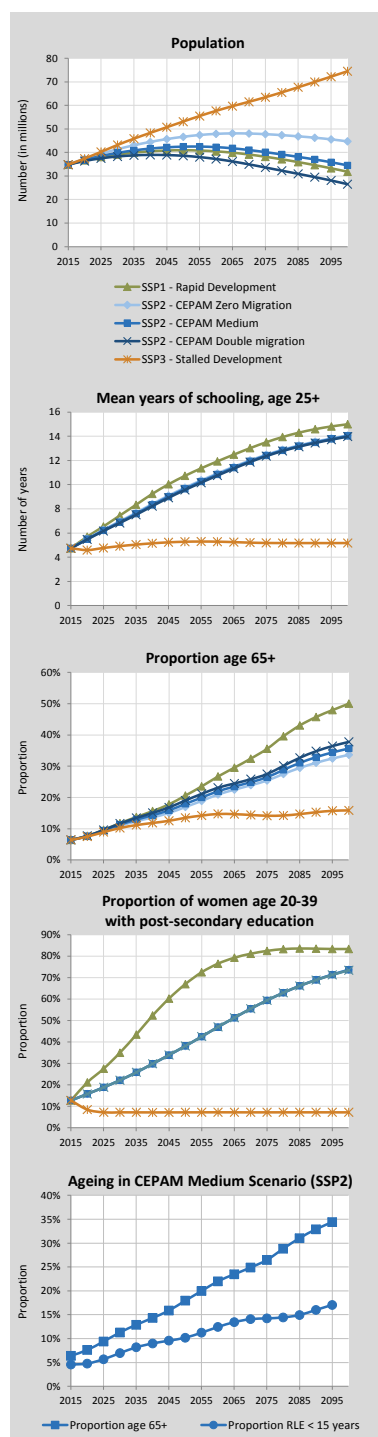

Base Year 2015 — 34.8 million

Projection 2030 — 39.8 million

Projection 2060 — 42.3 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)

Morocco (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	34.80	36.70	39.14	40.96	40.47	38.18	31.82
SSP2 - CEPAM Zero Migration	34.80	37.28	41.38	46.67	47.90	47.77	44.70
SSP2 - CEPAM Medium	34.80	36.83	39.81	42.47	42.27	40.15	34.52
SSP2 - CEPAM Double Migration	34.80	36.37	38.29	38.59	37.23	33.63	26.54
SSP3 - Stalled Development	34.80	37.42	43.18	53.13	57.68	63.45	74.51
Proportion age 65+							
SSP1 - Rapid Development	6.4%	7.7%	11.8%	20.6%	26.7%	35.6%	50.0%
SSP2 - CEPAM Zero Migration	6.4%	7.5%	10.9%	16.9%	20.9%	25.4%	33.6%
SSP2 - CEPAM Medium	6.4%	7.6%	11.3%	17.9%	22.0%	26.5%	35.6%
SSP2 - CEPAM Double Migration	6.4%	7.7%	11.7%	19.0%	23.1%	27.5%	37.8%
SSP3 - Stalled Development	6.4%	7.5%	10.2%	13.5%	14.7%	14.1%	15.9%
Proportion below age 20							
SSP1 - Rapid Development	36.2%	34.5%	29.5%	21.0%	18.6%	14.8%	11.4%
SSP2 - CEPAM Zero Migration	36.2%	34.7%	30.9%	24.0%	22.0%	19.3%	16.7%
SSP2 - CEPAM Medium	36.2%	34.8%	31.1%	24.2%	22.2%	19.3%	16.6%
SSP2 - CEPAM Double Migration	36.2%	35.0%	31.3%	24.4%	22.4%	19.4%	16.3%
SSP3 - Stalled Development	36.2%	35.6%	35.2%	31.5%	30.9%	30.0%	29.8%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	12.6%	21.1%	34.9%	66.9%	76.5%	82.4%	83.3%
SSP2 - CEPAM Zero Migration	12.6%	15.7%	22.1%	38.0%	46.9%	59.3%	73.7%
SSP2 - CEPAM Medium	12.6%	15.7%	22.1%	38.0%	46.9%	59.3%	73.5%
SSP2 - CEPAM Double Migration	12.6%	15.7%	22.1%	38.1%	47.0%	59.4%	73.4%
SSP3 - Stalled Development	12.6%	8.4%	7.1%	7.1%	7.1%	7.1%	7.1%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	4.7	5.7	7.4	10.7	11.9	13.5	15.0
SSP2 - CEPAM Zero Migration	4.7	5.5	7.0	9.7	10.9	12.5	14.1
SSP2 - CEPAM Medium	4.7	5.5	6.9	9.7	10.8	12.4	14.0
SSP2 - CEPAM Double Migration	4.7	5.5	6.8	9.6	10.8	12.4	14.0
SSP3 - Stalled Development	4.7	4.6	4.9	5.3	5.3	5.2	5.2

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	2.26	1.95	1.64	1.47	1.43	1.39	1.38
SSP2 - CEPAM Zero Migration	2.38	2.17	1.94	1.72	1.66	1.60	1.58
SSP2 - CEPAM Medium	2.38	2.18	1.94	1.72	1.66	1.60	1.58
SSP2 - CEPAM Double Migration	2.38	2.18	1.94	1.72	1.66	1.60	1.58
SSP3 - Stalled Development	2.72	2.86	2.77	2.49	2.44	2.45	2.50
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	77.9	79.4	82.2	87.8	90.7	95.1	101.2
SSP2 - CEPAM Zero Migration	77.3	78.3	80.1	83.8	85.7	88.5	92.2
SSP2 - CEPAM Medium	77.3	78.3	80.1	83.8	85.7	88.5	92.2
SSP2 - CEPAM Double Migration	77.3	78.3	80.1	83.8	85.7	88.5	92.2
SSP3 - Stalled Development	76.7	76.9	77.4	78.4	78.8	79.4	80.8
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	-429.0	-452.2	-480.5	-496.9	-489.3	-456.6	-393.5
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	-428.7	-453.1	-487.2	-512.2	-506.5	-476.1	-420.3
SSP2 - CEPAM Double Migration	-857.4	-894.2	-934.6	-924.5	-884.1	-789.1	-648.9
SSP3 - Stalled Development	-285.7	-153.6	-0.5	-0.6	-0.7	-0.7	-0.8

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	27.9	29.5	33.0	39.2	42.9	47.3	52.2
Proportion age 65+	6.4%	7.6%	11.3%	17.9%	22.0%	26.5%	34.4%
Proportion RLE < 15 years	4.7%	4.6%	6.5%	10.4%	12.7%	14.1%	16.4%