

The former Yugoslav Republic of Macedonia

Detailed Human Capital projections to 2060

Demographic indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2040	2050	2060
Population (in millions)	2.08	2.06	1.98	1.87	1.73	1.60
Proportion age 65+	12.5%	14.7%	19.3%	23.9%	29.4%	34.1%
Proportion below age 20	23.2%	22.2%	21.0%	19.0%	17.7%	17.5%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	1.54	1.56	1.59	1.61	1.61	1.62
Life expectancy at birth (in years)						
Male	73.9	75.0	77.1	79.2	81.4	82.4
Female	78.0	79.0	81.2	83.3	85.4	87.6
Five-year net-migration flow (in thousands)	-35.0	-33.4	-29.7	-25.2	-20.7	-16.6

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	3.4%	2.7%	1.8%	1.4%	1.2%	1.0%
E2 - incomplete primary	11.2%	8.7%	5.2%	3.1%	1.9%	1.2%
E3 - primary	8.9%	7.6%	5.3%	3.5%	2.2%	1.5%
E4 - lower secondary	21.2%	21.7%	21.9%	20.7%	18.3%	15.2%
E5 - upper secondary	42.3%	45.5%	50.7%	54.6%	57.4%	59.0%
E6 - post-secondary	13.0%	13.7%	15.0%	16.6%	19.0%	22.1%
Mean years of schooling (in years)	9.6	10.1	11.0	11.6	12.2	12.7
Gender gap (population age 25+): highest educational attainment (proportion males - proportion females)						
E1 - no education	-4.0	-3.0	-2.0	-1.0	-1.0	-1.0
E2 - incomplete primary	-8.0	-7.0	-5.0	-3.0	-2.0	-1.0
E3 - primary	-2.0	-2.0	-3.0	-2.0	-1.0	-1.0
E4 - lower secondary	-2.0	-3.0	-3.0	-3.0	-3.0	-2.0
E5 - upper secondary	14.0	13.0	13.0	12.0	12.0	12.0
E6 - post-secondary	2.0	1.0	-1.0	-3.0	-5.0	-8.0
Mean years of schooling (male minus female)	1.6	1.4	1.0	0.6	0.3	0.1
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	1.6%	1.4%	0.7%	0.4%	0.3%	0.2%
E2 - incomplete primary	3.4%	2.3%	0.4%	0.2%	0.1%	0.1%
E3 - primary	2.5%	1.7%	0.5%	0.4%	0.4%	0.4%
E4 - lower secondary	25.3%	21.4%	15.3%	8.7%	4.9%	2.6%
E5 - upper secondary	51.4%	55.2%	61.8%	63.2%	60.4%	55.4%
E6 - post-secondary	15.8%	18.0%	21.3%	27.1%	33.9%	41.2%
Mean years of schooling (in years)	11.3	11.9	13.2	13.8	14.2	14.6

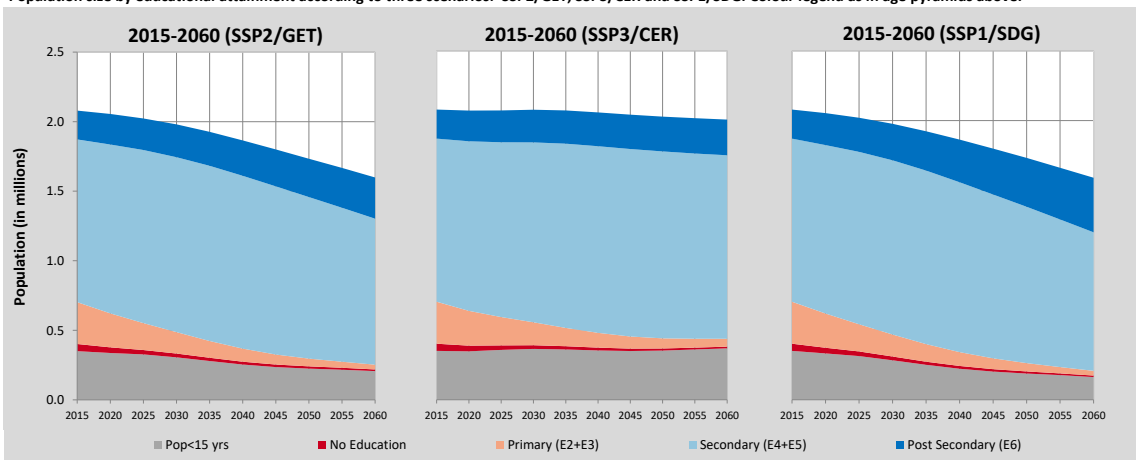
Education scenarios

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

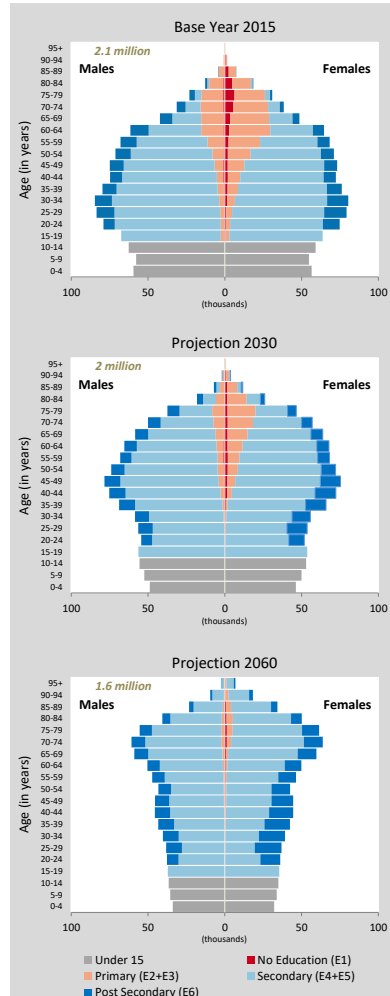
SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

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

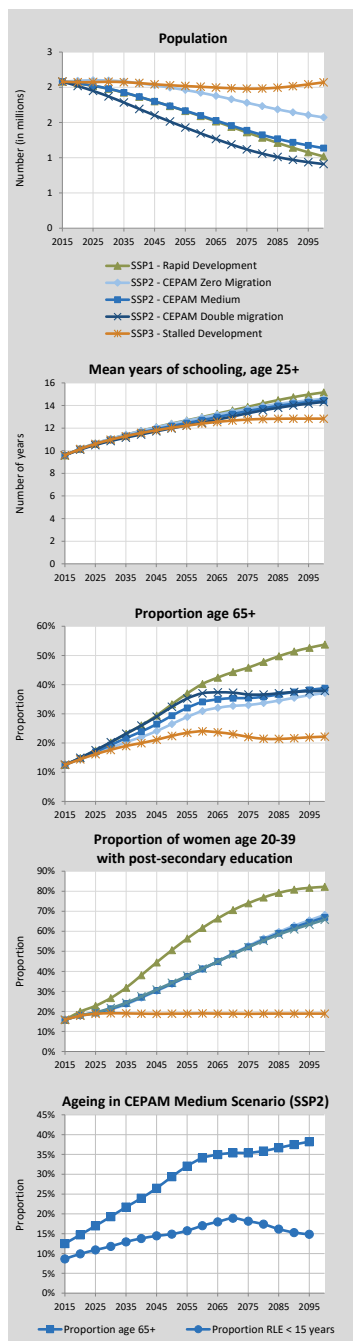
Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG. Colour legend as in age pyramids above.



Pyramids by education, CEPAM Medium Scenario



The former Yugoslav Republic of Macedonia (Continued)



Alternative Scenarios to 2100

Pyramids by education, CEPAM Medium Scenario

Projection Results by Scenario (SSP1-3)

	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	2.08	2.05	1.98	1.73	1.59	1.36	1.02
SSP2 - CEPAM Zero Migration	2.08	2.09	2.10	2.00	1.92	1.78	1.57
SSP2 - CEPAM Medium	2.08	2.06	1.98	1.73	1.60	1.39	1.14
SSP2 - CEPAM Double Migration	2.08	2.02	1.87	1.51	1.35	1.12	0.91
SSP3 - Stalled Development	2.08	2.07	2.08	2.03	2.01	1.98	2.07
Proportion age 65+							
SSP1 - Rapid Development	12.5%	14.9%	20.2%	33.3%	40.3%	45.8%	53.7%
SSP2 - CEPAM Zero Migration	12.5%	14.5%	18.4%	26.5%	31.0%	33.0%	37.2%
SSP2 - CEPAM Medium	12.5%	14.7%	19.3%	29.4%	34.1%	35.4%	38.8%
SSP2 - CEPAM Double Migration	12.5%	14.9%	20.3%	32.4%	37.1%	36.6%	37.9%
SSP3 - Stalled Development	12.5%	14.4%	17.7%	22.5%	24.0%	22.1%	22.2%
Proportion below age 20							
SSP1 - Rapid Development	23.2%	22.0%	19.9%	14.9%	14.0%	12.2%	11.1%
SSP2 - CEPAM Zero Migration	23.2%	22.2%	21.3%	18.3%	18.0%	17.2%	16.6%
SSP2 - CEPAM Medium	23.2%	22.2%	21.0%	17.7%	17.5%	16.7%	16.4%
SSP2 - CEPAM Double Migration	23.2%	22.2%	20.7%	17.0%	17.1%	16.5%	17.1%
SSP3 - Stalled Development	23.2%	22.6%	23.0%	23.1%	24.1%	25.0%	25.6%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	15.8%	19.9%	26.7%	50.6%	61.7%	74.0%	82.2%
SSP2 - CEPAM Zero Migration	15.8%	17.8%	21.0%	33.7%	41.2%	52.7%	68.2%
SSP2 - CEPAM Medium	15.8%	18.0%	21.3%	33.9%	41.2%	52.3%	67.0%
SSP2 - CEPAM Double Migration	15.8%	18.1%	21.7%	34.3%	41.4%	52.0%	65.8%
SSP3 - Stalled Development	15.8%	17.9%	19.1%	18.9%	19.0%	18.8%	18.9%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	9.6	10.2	11.0	12.4	13.0	13.9	15.2
SSP2 - CEPAM Zero Migration	9.6	10.2	11.1	12.4	12.9	13.7	14.6
SSP2 - CEPAM Medium	9.6	10.1	11.0	12.2	12.7	13.5	14.5
SSP2 - CEPAM Double Migration	9.6	10.1	10.9	12.0	12.5	13.3	14.3
SSP3 - Stalled Development	9.6	10.2	11.0	12.0	12.4	12.8	12.8

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.47	1.43	1.39	1.38	1.38	1.40	1.43
SSP2 - CEPAM Zero Migration	1.54	1.56	1.59	1.61	1.61	1.63	1.65
SSP2 - CEPAM Medium	1.54	1.56	1.59	1.61	1.62	1.63	1.65
SSP2 - CEPAM Double Migration	1.54	1.56	1.59	1.61	1.62	1.63	1.65
SSP3 - Stalled Development	1.65	1.78	1.99	2.13	2.16	2.20	2.24
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	78.5	80.1	83.2	89.5	92.6	97.3	103.6
SSP2 - CEPAM Zero Migration	78.0	79.0	81.2	85.5	87.6	90.8	95.1
SSP2 - CEPAM Medium	78.0	79.0	81.2	85.4	87.6	90.7	95.0
SSP2 - CEPAM Double Migration	78.0	79.0	81.2	85.4	87.5	90.7	94.9
SSP3 - Stalled Development	77.5	78.0	79.1	81.4	82.5	84.1	86.2
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	-35.1	-33.7	-30.5	-22.9	-19.4	-14.3	-9.4
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	-35.0	-33.4	-29.7	-20.7	-16.6	-11.0	-6.6
SSP2 - CEPAM Double Migration	-70.0	-65.1	-54.1	-31.0	-21.4	-9.8	-2.9
SSP3 - Stalled Development	-23.3	-11.2	0.0	0.0	0.0	0.0	0.0

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	37.4	39.4	43.7	50.4	51.5	53.2	54.3
Proportion age 65+	12.5%	14.7%	19.3%	29.4%	34.1%	35.4%	38.2%
Proportion RLE < 15 years	8.6%	9.9%	11.8%	14.9%	17.0%	18.2%	14.8%