

# Kazakhstan

## Detailed Human Capital projections to 2060

Demographic indicators, CEPAM Medium Scenario (SSP2)						
	2015	2020	2030	2040	2050	2060
Population (in millions)	17.75	18.39	18.93	19.03	19.20	18.93
Proportion age 65+	6.8%	7.7%	11.0%	13.1%	15.3%	19.3%
Proportion below age 20	33.1%	34.9%	33.5%	26.7%	25.6%	24.4%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	2.47	2.26	1.99	1.81	1.71	1.67
Life expectancy at birth (in years)						
Male	65.2	66.4	69.0	71.5	74.0	75.2
Female	74.9	75.9	77.9	80.0	82.1	84.2
Five-year net-migration flow (in thousands)	-283.8	-288.0	-274.3	-250.2	-235.4	-225.7

Human Capital indicators, CEPAM Medium Scenario (SSP2)						
	2015	2020	2030	2040	2050	2060
<b>Population age 25+: highest educational attainment (columns sum to 100%)</b>						
E1 - no education	0.3%	0.4%	0.7%	0.7%	0.8%	0.7%
E2 - incomplete primary	1.0%	0.8%	0.5%	0.4%	0.4%	0.4%
E3 - primary	2.1%	1.5%	1.0%	0.9%	0.9%	1.0%
E4 - lower secondary	9.2%	8.1%	6.5%	4.8%	3.7%	3.0%
E5 - upper secondary	63.1%	63.5%	63.6%	62.6%	60.9%	59.1%
E6 - post-secondary	24.3%	25.6%	27.7%	30.5%	33.3%	35.8%
Mean years of schooling (in years)	10.9	11.1	11.4	11.7	11.9	12.1
<b>Gender gap (population age 25+): highest educational attainment (ratio male/female)</b>						
E1 - no education	0.72	0.81	0.84	0.78	0.73	0.68
E2 - incomplete primary	0.64	0.72	0.96	1.06	1.00	0.94
E3 - primary	0.60	0.66	0.93	1.12	1.10	1.04
E4 - lower secondary	1.10	1.13	1.19	1.20	1.18	1.13
E5 - upper secondary	1.08	1.08	1.08	1.11	1.14	1.17
E6 - post-secondary	0.85	0.83	0.81	0.79	0.77	0.76
Mean years of schooling (male minus female)	0.0	0.0	-0.1	-0.1	-0.1	-0.2
<b>Women age 20-39: highest educational attainment (columns sum to 100%)</b>						
E1 - no education	0.2%	0.4%	0.4%	0.3%	0.2%	0.2%
E2 - incomplete primary	0.2%	0.3%	0.2%	0.2%	0.1%	0.1%
E3 - primary	0.4%	0.6%	0.5%	0.4%	0.4%	0.4%
E4 - lower secondary	6.4%	5.1%	2.5%	1.3%	0.9%	0.9%
E5 - upper secondary	64.6%	63.8%	66.7%	65.1%	62.3%	59.6%
E6 - post-secondary	28.2%	29.7%	29.5%	32.7%	36.0%	38.8%
Mean years of schooling (in years)	12.0	12.1	12.2	12.4	12.6	12.7

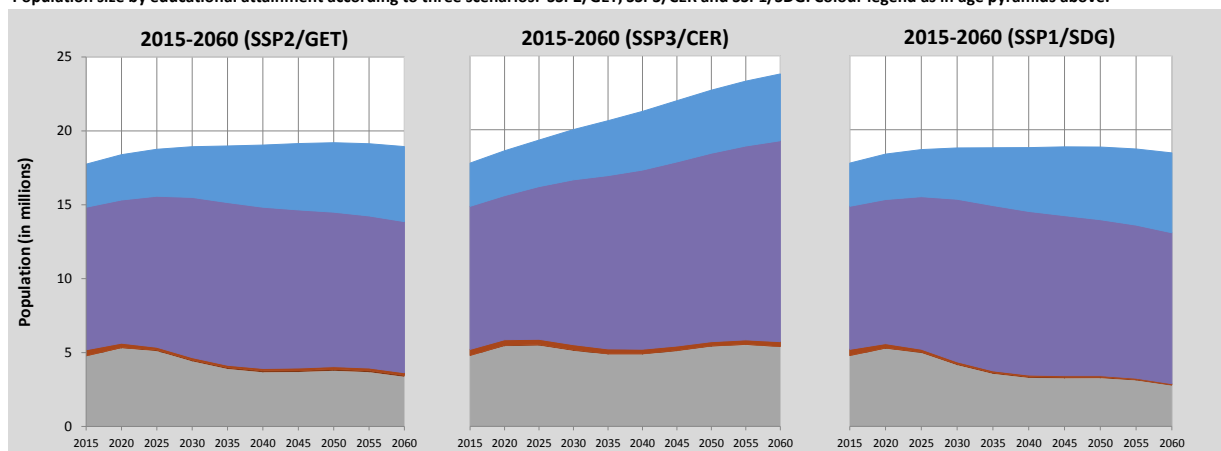
### Education scenarios

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

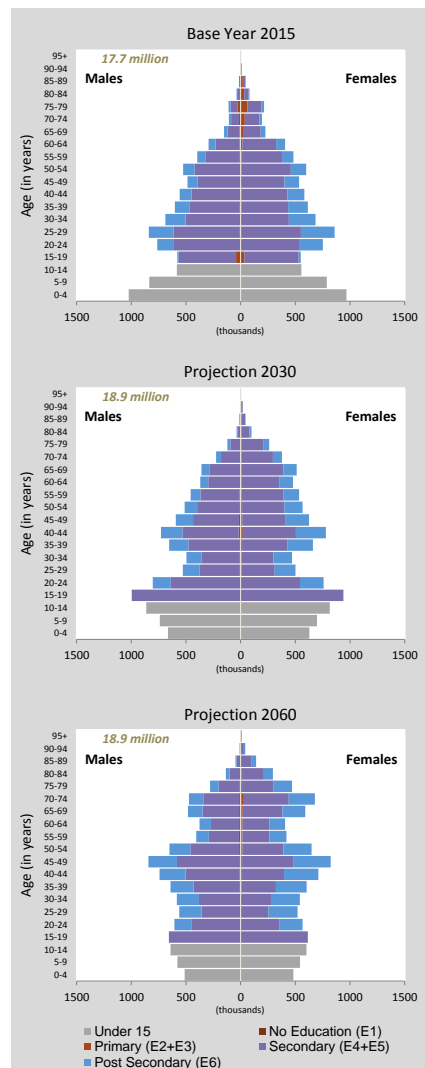
SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

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

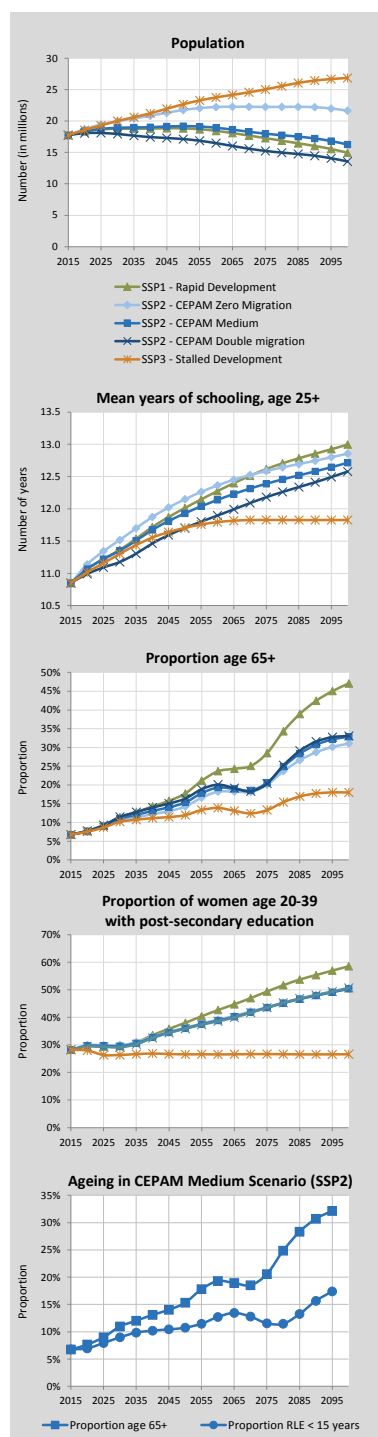
Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG. Colour legend as in age pyramids above.



## Pyramids by education, CEPAM Medium Scenario



# Kazakhstan (Continued)



## Alternative Scenarios to 2100

Projection Results by Scenario (SSP1-3)							
	2015	2020	2030	2050	2060	2075	2100
<b>Population (in millions)</b>							
SSP1 - Rapid Development	17.75	18.36	18.78	18.84	18.44	17.29	14.96
SSP2 - CEPAM Zero Migration	17.75	18.71	19.98	21.76	22.24	22.25	21.67
SSP2 - CEPAM Medium	17.75	18.39	18.93	19.20	18.93	18.00	16.28
SSP2 - CEPAM Double Migration	17.75	18.08	17.94	17.14	16.48	15.25	13.58
SSP3 - Stalled Development	17.75	18.58	20.02	22.68	23.77	25.05	26.87
<b>Proportion age 65+</b>							
SSP1 - Rapid Development	6.8%	7.7%	11.4%	17.7%	23.7%	28.5%	47.1%
SSP2 - CEPAM Zero Migration	6.8%	7.6%	10.5%	14.2%	18.2%	20.0%	31.0%
SSP2 - CEPAM Medium	6.8%	7.7%	11.0%	15.3%	19.3%	20.6%	32.8%
SSP2 - CEPAM Double Migration	6.8%	7.8%	11.5%	16.4%	20.1%	20.4%	33.1%
SSP3 - Stalled Development	6.8%	7.6%	10.2%	12.0%	13.9%	13.3%	18.0%
<b>Proportion below age 20</b>							
SSP1 - Rapid Development	33.1%	34.7%	32.3%	22.7%	20.8%	15.5%	11.6%
SSP2 - CEPAM Zero Migration	33.1%	34.7%	33.4%	25.8%	24.4%	20.3%	17.4%
SSP2 - CEPAM Medium	33.1%	34.9%	33.5%	25.6%	24.4%	19.8%	16.8%
SSP2 - CEPAM Double Migration	33.1%	35.1%	33.6%	25.5%	24.5%	19.6%	16.7%
SSP3 - Stalled Development	33.1%	35.2%	35.3%	30.6%	30.2%	27.1%	25.4%
<b>Proportion of women age 20-39 with post-secondary education</b>							
SSP1 - Rapid Development	28.2%	29.5%	29.5%	38.0%	42.6%	49.4%	58.5%
SSP2 - CEPAM Zero Migration	28.2%	29.9%	29.9%	36.2%	39.2%	43.7%	50.4%
SSP2 - CEPAM Medium	28.2%	29.7%	29.5%	36.0%	38.8%	43.5%	50.3%
SSP2 - CEPAM Double Migration	28.2%	29.4%	29.1%	35.9%	38.6%	43.5%	50.7%
SSP3 - Stalled Development	28.2%	28.0%	26.3%	26.6%	26.6%	26.7%	26.6%
<b>Mean years of schooling, age 25+</b>							
SSP1 - Rapid Development	10.9	11.1	11.4	12.0	12.3	12.6	13.0
SSP2 - CEPAM Zero Migration	10.9	11.1	11.5	12.1	12.4	12.6	12.9
SSP2 - CEPAM Medium	10.9	11.1	11.4	11.9	12.1	12.4	12.7
SSP2 - CEPAM Double Migration	10.9	11.0	11.2	11.7	11.9	12.2	12.6
SSP3 - Stalled Development	10.9	11.0	11.3	11.7	11.8	11.8	11.8

## Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
<b>Total fertility rate</b>							
SSP1 - Rapid Development	2.39	2.10	1.77	1.49	1.43	1.39	1.38
SSP2 - CEPAM Zero Migration	2.47	2.26	1.99	1.70	1.65	1.60	1.59
SSP2 - CEPAM Medium	2.47	2.26	1.99	1.71	1.65	1.60	1.59
SSP2 - CEPAM Double Migration	2.47	2.25	1.99	1.71	1.65	1.60	1.59
SSP3 - Stalled Development	2.62	2.54	2.42	2.16	2.09	2.04	2.04
<b>Life expectancy at birth for females (in years)</b>							
SSP1 - Rapid Development	75.4	76.9	80.0	86.1	89.2	93.8	97.7
SSP2 - CEPAM Zero Migration	74.9	75.9	78.0	82.2	84.2	87.4	91.5
SSP2 - CEPAM Medium	74.9	75.9	77.9	82.1	84.2	87.3	91.4
SSP2 - CEPAM Double Migration	74.9	75.9	77.9	82.0	84.1	87.1	91.3
SSP3 - Stalled Development	74.4	74.9	75.9	78.1	79.1	80.7	82.8
<b>Migration – net flow over five years (in thousands)</b>							
SSP1 - Rapid Development	-284.1	-289.3	-280.9	-254.7	-239.1	-207.4	-176.8
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	-283.8	-288.0	-274.3	-235.4	-212.5	-174.3	-136.1
SSP2 - CEPAM Double Migration	-567.5	-557.2	-489.2	-348.3	-281.0	-191.3	-117.7
SSP3 - Stalled Development	-189.1	-97.3	-0.3	-0.3	-0.3	-0.3	-0.3

## Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	29.3	30.7	32.8	36.7	40.7	44.7	50.4
Proportion age 65+	6.8%	7.7%	11.0%	15.3%	19.3%	20.6%	32.1%
Proportion RLE < 15 years	6.7%	6.6%	8.8%	11.3%	13.0%	12.6%	17.0%