Kazakhstan

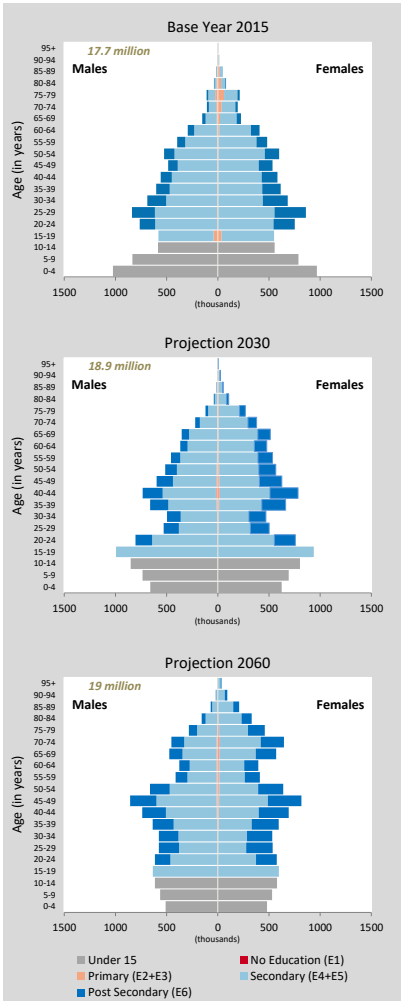
Detailed Human Capital projections to 2060

Demographic indicators, CEPAM Medium Scenario (SSP2)	2015	2020	2030	2040	2050	2060
Population (in millions)	17.75	18.38	18.94	19.14	19.25	18.96
Proportion age 65+	6.8%	7.7%	11.1%	13.3%	15.9%	20.1%
Proportion below age 20	33.1%	34.8%	33.3%	26.7%	25.4%	23.8%
	2015-2020	**2020-2025**	**2030-2035**	**2040-2045**	**2050-2055**	**2055-2060**
Total Fertility Rate	2.45	2.28	1.97	1.79	1.71	1.66
Life expectancy at birth (in years)						
Male	65.2	66.4	69.0	71.5	74.0	75.2
Female	74.9	75.9	78.0	80.0	82.1	84.2
Five-year net-migration flow (in thousands)	-284.1	-288.4	-275.3	-255.0	-238.7	-215.7

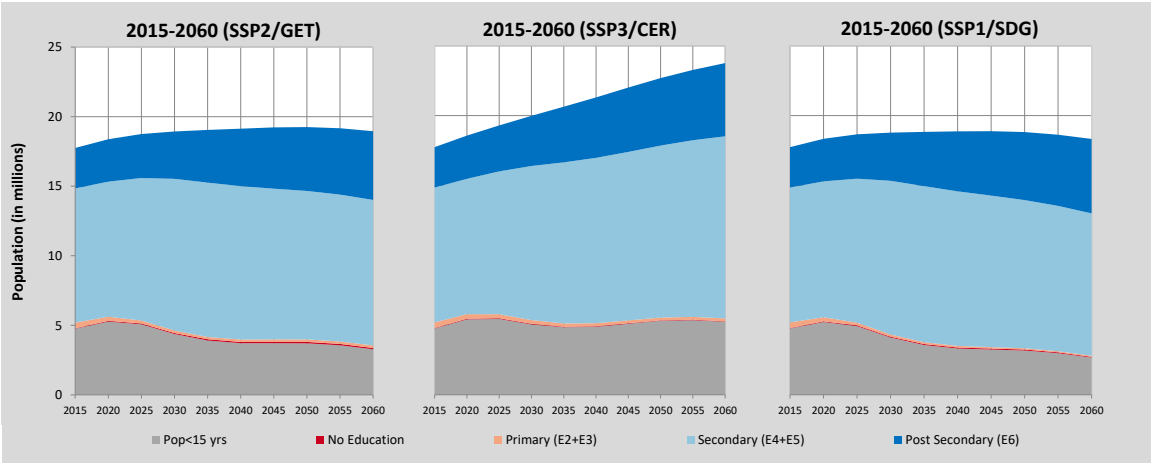
Human Capital indicators, CEPAM Medium Scenario (SSP2)	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	0.3%	0.4%	0.7%	0.7%	0.7%	0.7%
E2 - incomplete primary	1.0%	0.8%	0.5%	0.5%	0.4%	0.4%
E3 - primary	2.1%	1.5%	1.0%	0.9%	0.9%	0.9%
E4 - lower secondary	9.2%	8.1%	6.5%	4.8%	3.7%	3.0%
E5 - upper secondary	63.2%	63.6%	63.9%	63.1%	61.8%	60.3%
E6 - post-secondary	24.2%	25.5%	27.4%	30.0%	32.4%	34.6%
Mean years of schooling (in years)	10.9	11.1	11.4	11.7	12.0	12.2
Gender gap (population age 25+): highest educational attainment (proportion males - proportion females)						
E1 - no education	0.0	0.0	0.0	0.0	0.0	0.0
E2 - incomplete primary	0.0	0.0	0.0	0.0	0.0	0.0
E3 - primary	-1.0	-1.0	0.0	0.0	0.0	0.0
E4 - lower secondary	1.0	1.0	1.0	1.0	0.0	0.0
E5 - upper secondary	5.0	5.0	5.0	6.0	7.0	9.0
E6 - post-secondary	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0
Mean years of schooling (male minus female)	0.0	-0.1	-0.2	-0.2	-0.2	-0.3
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	0.1%	0.5%	0.5%	0.3%	0.3%	0.2%
E2 - incomplete primary	0.1%	0.3%	0.2%	0.2%	0.1%	0.1%
E3 - primary	0.3%	0.5%	0.5%	0.4%	0.4%	0.4%
E4 - lower secondary	5.3%	4.1%	1.9%	1.0%	0.7%	0.7%
E5 - upper secondary	61.9%	61.0%	64.0%	61.6%	58.3%	55.1%
E6 - post-secondary	32.2%	33.6%	32.9%	36.5%	40.2%	43.4%
Mean years of schooling (in years)	12.1	12.2	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)

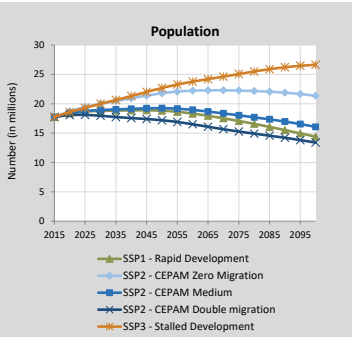
Pyramids by education, CEPAM Medium Scenario

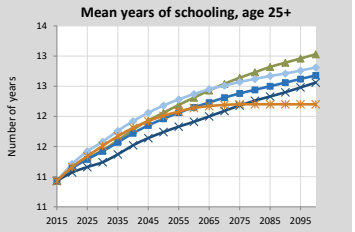


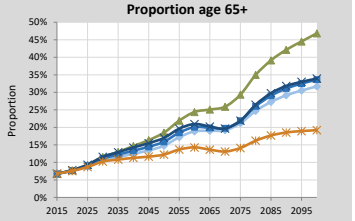
Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG. Colour legend as in age pyramids above.

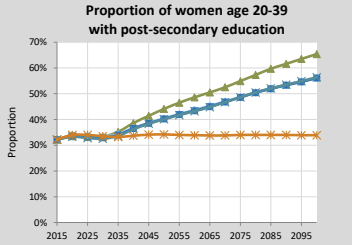


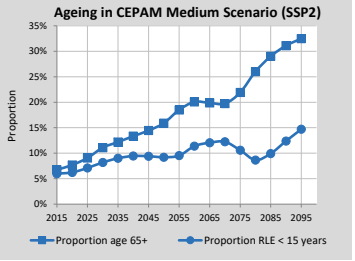
Kazakhstan (Continued)











Alternative Scenarios to 2100

Projection Results by Scenario (SSP1-3)	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	17.75	18.34	18.79	18.82	18.33	17.07	14.40
SSP2 - CEPAM Zero Migration	17.75	18.69	19.98	21.80	22.23	22.25	21.36
SSP2 - CEPAM Medium	17.75	18.38	18.94	19.25	18.96	18.03	16.06
SSP2 - CEPAM Double Migration	17.75	18.07	17.95	17.20	16.51	15.28	13.39
SSP3 - Stalled Development	17.75	18.58	19.99	22.69	23.77	25.06	26.65
Proportion age 65+							
SSP1 - Rapid Development	6.8%	7.8%	11.5%	18.5%	24.4%	29.3%	46.9%
SSP2 - CEPAM Zero Migration	6.8%	7.6%	10.6%	14.8%	18.9%	21.2%	31.7%
SSP2 - CEPAM Medium	6.8%	7.7%	11.1%	15.9%	20.1%	21.9%	33.6%
SSP2 - CEPAM Double Migration	6.8%	7.8%	11.6%	17.0%	21.0%	21.9%	33.9%
SSP3 - Stalled Development	6.8%	7.6%	10.2%	12.2%	14.3%	14.1%	19.2%
Proportion below age 20							
SSP1 - Rapid Development	33.1%	34.5%	32.1%	22.4%	20.3%	15.6%	11.8%
SSP2 - CEPAM Zero Migration	33.1%	34.6%	33.1%	25.5%	23.9%	20.2%	17.4%
SSP2 - CEPAM Medium	33.1%	34.8%	33.3%	25.4%	23.8%	19.7%	16.7%
SSP2 - CEPAM Double Migration	33.1%	35.0%	33.4%	25.3%	23.8%	19.5%	16.6%
SSP3 - Stalled Development	33.1%	35.2%	35.0%	30.4%	29.5%	26.8%	24.9%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	32.2%	33.5%	33.3%	44.1%	48.6%	54.9%	65.4%
SSP2 - CEPAM Zero Migration	32.2%	33.9%	33.4%	40.4%	43.7%	48.7%	56.2%
SSP2 - CEPAM Medium	32.2%	33.6%	32.9%	40.2%	43.4%	48.6%	56.1%
SSP2 - CEPAM Double Migration	32.2%	33.3%	32.5%	40.1%	43.2%	48.6%	56.4%
SSP3 - Stalled Development	32.2%	34.0%	33.5%	34.2%	33.9%	34.0%	33.9%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	10.9	11.1	11.4	12.1	12.3	12.6	13.0
SSP2 - CEPAM Zero Migration	10.9	11.2	11.6	12.2	12.4	12.6	12.8
SSP2 - CEPAM Medium	10.9	11.1	11.4	12.0	12.2	12.4	12.7
SSP2 - CEPAM Double Migration	10.9	11.1	11.2	11.7	11.9	12.2	12.6
SSP3 - Stalled Development	10.9	11.2	11.5	12.0	12.1	12.2	12.2

Demographic assumptions underlying SSPs	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	2.36	2.13	1.76	1.49	1.45	1.40	1.40
SSP2 - CEPAM Zero Migration	2.45	2.28	1.97	1.71	1.66	1.60	1.60
SSP2 - CEPAM Medium	2.45	2.28	1.97	1.71	1.66	1.60	1.60
SSP2 - CEPAM Double Migration	2.45	2.28	1.97	1.71	1.66	1.60	1.60
SSP3 - Stalled Development	2.61	2.56	2.39	2.15	2.10	2.03	2.04
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	75.4	76.9	80.0	86.1	89.2	93.8	100.0
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	78.0	82.1	84.2	87.3	91.4
SSP2 - CEPAM Double Migration	74.8	75.9	77.9	82.0	84.1	87.2	91.3
SSP3 - Stalled Development	74.3	74.9	76.0	78.1	79.2	80.8	82.8
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	-284.6	-290.0	-283.9	-262.8	-247.1	-217.1	-182.5
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	-284.1	-288.4	-275.3	-238.7	-215.7	-177.3	-135.0
SSP2 - CEPAM Double Migration	-568.5	-558.4	-492.0	-356.1	-288.5	-196.8	-117.0
SSP3 - Stalled Development	-189.2	-97.5	-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	30.8	33.0	37.0	41.1	45.3	50.7
Proportion age 65+	6.8%	7.7%	11.1%	15.9%	20.1%	21.9%	32.5%
Proportion RLE < 15 years	6.0%	6.2%	8.2%	9.2%	11.4%	10.6%	14.7%