Ukraine

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)	44.66	43.83	41.75	39.62	38.09	36.59
Proportion age 65+	15.9%	17.3%	20.5%	22.8%	26.7%	29.6%
Proportion below age 20	19.8%	20.8%	21.0%	18.6%	18.6%	19.1%
	2015-2020	2020-2025	2030-2035	2040-2045	2050-2055	2055-2060
Total Fertility Rate	1.49	1.50	1.51	1.60	1.60	1.60
Life expectancy at birth (in years)						
Male	67.1	68.2	70.6	72.9	75.3	76.4
Female	76.9	77.9	79.8	81.7	83.7	85.6
Five-year net-migration flow (in thousands)	65.0	101.0	171.4	235.0	283.6	303.5

Human Capital indicators, CEPAM Medium Scenario (SSP2)

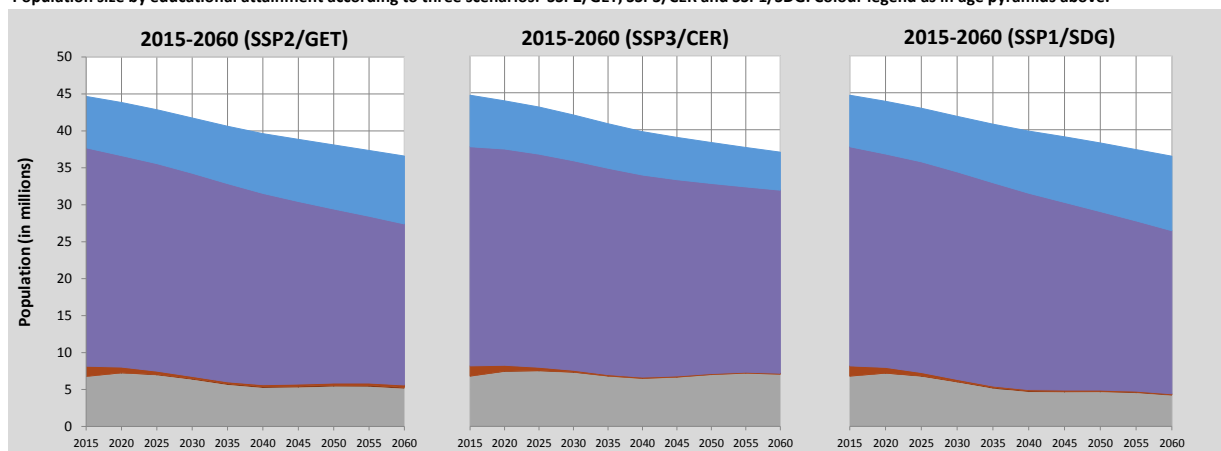|	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1 - no education	0.2%	0.3%	0.4%	0.6%	0.6%	0.7%
E2 - incomplete primary	0.7%	0.4%	0.3%	0.3%	0.3%	0.4%
E3 - primary	3.4%	1.9%	0.7%	0.6%	0.7%	0.8%
E4 - lower secondary	8.1%	7.2%	5.7%	4.4%	3.5%	2.9%
E5 - upper secondary	67.9%	69.3%	70.2%	69.1%	66.9%	64.3%
E6 - post-secondary	19.7%	20.8%	22.7%	25.1%	27.9%	31.0%
Mean years of schooling (in years)	10.5	10.7	11.0	11.3	11.6	11.8
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.61	0.74	0.72	0.66	0.61	0.57
E2 - incomplete primary	0.27	0.42	0.84	0.89	0.84	0.80
E3 - primary	0.67	0.71	1.01	1.13	0.99	0.90
E4 - lower secondary	0.97	1.02	1.15	1.22	1.20	1.16
E5 - upper secondary	1.07	1.06	1.06	1.09	1.13	1.18
E6 - post-secondary	0.90	0.86	0.80	0.76	0.73	0.70
Mean years of schooling (male minus female)	0.0	0.0	-0.1	-0.1	-0.1	-0.1
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1 - no education	0.1%	0.3%	0.4%	0.3%	0.3%	0.2%
E2 - incomplete primary	0.1%	0.2%	0.2%	0.2%	0.2%	0.1%
E3 - primary	0.1%	0.3%	0.5%	0.4%	0.4%	0.4%
E4 - lower secondary	6.0%	4.2%	1.8%	1.2%	0.9%	0.9%
E5 - upper secondary	72.5%	71.7%	70.8%	67.8%	64.0%	60.0%
E6 - post-secondary	21.3%	23.3%	26.2%	30.0%	34.2%	38.3%
Mean years of schooling (in years)	11.4	11.7	12.1	12.3	12.6	12.8

Education scenarios

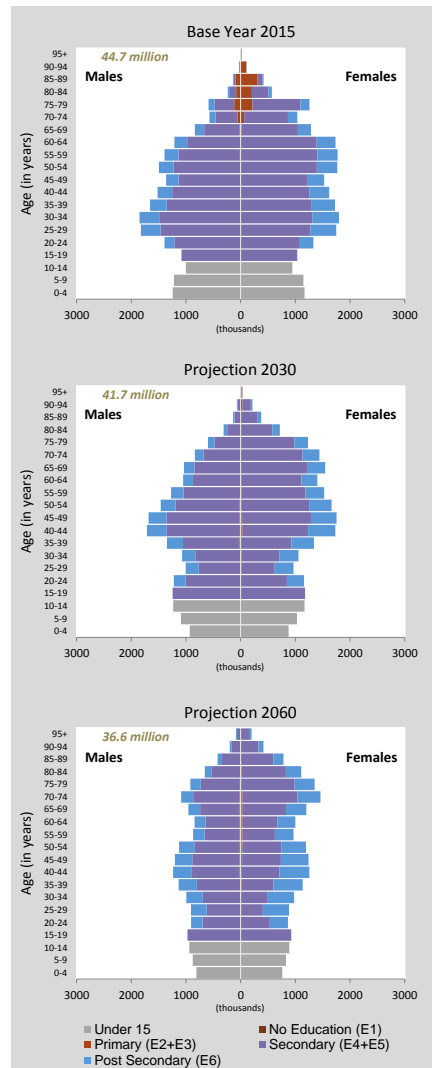*SSP2/GET: Global Education Trend Scenario (Medium assumption)*

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

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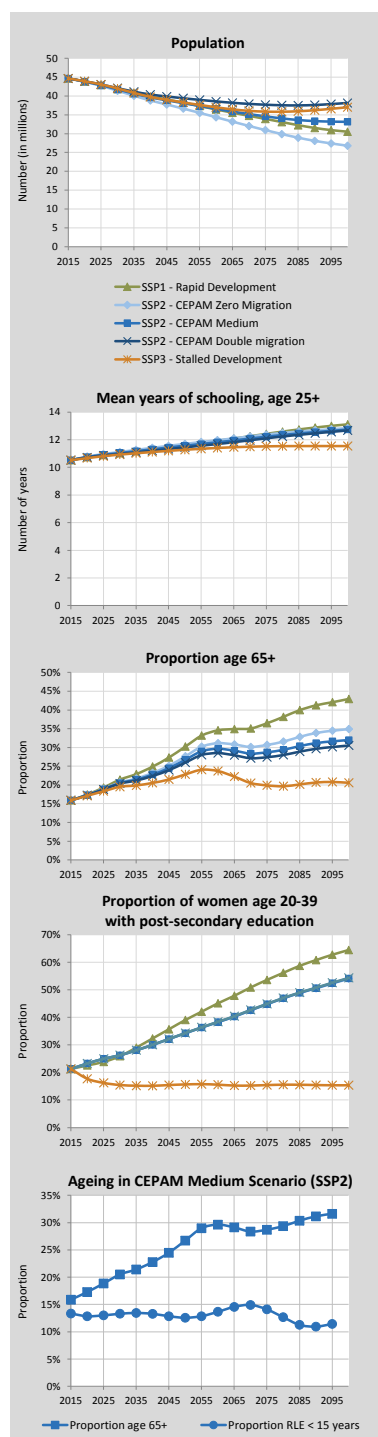

Base Year 2015 — 44.7 million — Males / Females

Projection 2030 — 41.7 million — Males / Females

Projection 2060 — 36.6 million — Males / Females

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)

Ukraine (Continued)

Alternative Scenarios to 2100

Population

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)

Projection Results by Scenario (SSP1-3)

	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	44.66	43.84	41.82	38.23	36.43	33.91	30.52
SSP2 - CEPAM Zero Migration	44.66	43.76	41.40	36.65	34.36	30.94	26.79
SSP2 - CEPAM Medium	44.66	43.83	41.75	38.09	36.59	34.59	33.13
SSP2 - CEPAM Double Migration	44.66	43.90	42.08	39.40	38.56	37.68	38.15
SSP3 - Stalled Development	44.66	43.91	42.00	38.28	37.00	35.84	37.01
Proportion age 65+							
SSP1 - Rapid Development	15.9%	17.4%	21.4%	30.2%	34.6%	36.5%	42.9%
SSP2 - CEPAM Zero Migration	15.9%	17.3%	20.7%	27.6%	31.1%	30.7%	34.9%
SSP2 - CEPAM Medium	15.9%	17.3%	20.5%	26.7%	29.6%	28.7%	32.0%
SSP2 - CEPAM Double Migration	15.9%	17.3%	20.4%	26.0%	28.5%	27.4%	30.5%
SSP3 - Stalled Development	15.9%	17.1%	19.5%	22.8%	23.7%	19.9%	20.6%
Proportion below age 20							
SSP1 - Rapid Development	19.8%	20.6%	20.0%	16.0%	15.9%	14.2%	13.3%
SSP2 - CEPAM Zero Migration	19.8%	20.8%	20.9%	18.3%	18.7%	17.4%	16.9%
SSP2 - CEPAM Medium	19.8%	20.8%	21.0%	18.6%	19.1%	18.2%	17.9%
SSP2 - CEPAM Double Migration	19.8%	20.8%	21.0%	18.9%	19.5%	18.7%	18.4%
SSP3 - Stalled Development	19.8%	21.2%	23.0%	23.5%	25.3%	25.5%	26.2%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	21.3%	22.6%	25.9%	39.0%	45.1%	53.6%	64.4%
SSP2 - CEPAM Zero Migration	21.3%	23.3%	26.2%	34.2%	38.3%	44.8%	54.0%
SSP2 - CEPAM Medium	21.3%	23.3%	26.2%	34.2%	38.3%	44.8%	54.1%
SSP2 - CEPAM Double Migration	21.3%	23.3%	26.3%	34.3%	38.4%	44.9%	54.3%
SSP3 - Stalled Development	21.3%	17.7%	15.4%	15.7%	15.6%	15.4%	15.4%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	10.5	10.7	11.0	11.6	11.9	12.4	13.1
SSP2 - CEPAM Zero Migration	10.5	10.8	11.1	11.7	12.0	12.4	12.8
SSP2 - CEPAM Medium	10.5	10.7	11.0	11.6	11.8	12.2	12.7
SSP2 - CEPAM Double Migration	10.5	10.7	11.0	11.4	11.7	12.1	12.7
SSP3 - Stalled Development	10.5	10.7	10.9	11.3	11.4	11.5	11.5

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.44	1.40	1.34	1.39	1.40	1.42	1.44
SSP2 - CEPAM Zero Migration	1.49	1.50	1.51	1.60	1.61	1.63	1.65
SSP2 - CEPAM Medium	1.49	1.50	1.51	1.60	1.61	1.63	1.65
SSP2 - CEPAM Double Migration	1.49	1.50	1.50	1.60	1.61	1.63	1.65
SSP3 - Stalled Development	1.62	1.78	1.92	2.08	2.10	2.15	2.20
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	77.4	78.9	81.8	87.7	90.6	95.0	100.9
SSP2 - CEPAM Zero Migration	76.9	77.9	79.8	83.7	85.7	88.6	92.4
SSP2 - CEPAM Medium	76.9	77.9	79.8	83.7	85.6	88.5	92.3
SSP2 - CEPAM Double Migration	76.9	77.9	79.8	83.6	85.5	88.4	92.2
SSP3 - Stalled Development	76.4	76.9	77.8	79.6	80.5	81.8	83.6
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	64.6	97.3	153.0	234.6	255.8	269.0	247.4
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	65.0	101.0	171.4	283.6	320.8	355.7	356.6
SSP2 - CEPAM Double Migration	130.1	197.9	327.3	521.0	577.4	620.1	588.5
SSP3 - Stalled Development	43.6	35.1	0.1	0.3	0.4	0.5	0.6

Ageing indicators, CEPAM Medium Scenario (SSP2)

	2015	2020	2030	2050	2060	2075	2095
Median age	40.3	41.2	44.3	46.2	47.0	48.7	49.1
Proportion age 65+	15.9%	17.3%	20.5%	26.7%	29.6%	28.7%	31.6%
Proportion RLE < 15 years	13.9%	13.1%	14.2%	14.2%	15.0%	15.7%	12.3%