Romania

Detailed Human Capital projections to 2060

Demographic indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2060
Population (in millions)	21.5	20.8	20.0	19.0	17.8	16.4
Proportion age 65+	0.15	0.18	0.21	0.27	0.33	0.37
Proportion below age 20	0.21	0.19	0.17	0.16	0.16	0.15
	2005-2010	2015-2020	2025-2030	2035-2040	2045-2050	2055-2060
Total Fertility Rate	1.33	1.32	1.47	1.50	1.50	1.51
Life expectancy at birth (in years)						
Male	69.57	72.48	75.15	77.62	79.93	81.91
Female	76.82	79.59	81.89	84.09	86.21	88.01
Five-year immigration flow (in '000)	42	42	44	45	45	44
Five-year emigration flow (in '000)	142	87	73	63	55	48

Human Capital indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment						
E1 - no education	0.03	0.01	0.01	0.01	0.00	0.00
E2 - incomplete primary	0.01	0.01	0.00	0.00	0.00	0.00
E3 - primary	0.10	0.06	0.03	0.02	0.01	0.01
E4 - lower secondary	0.23	0.19	0.15	0.12	0.09	0.06
E5 - upper secondary	0.50	0.58	0.64	0.68	0.70	0.72
E6 - post-secondary	0.14	0.16	0.17	0.18	0.19	0.21
Mean years of schooling (in years)	10.52	11.21	11.67	11.99	12.25	12.49
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.44	0.49	0.57	0.60	0.59	0.60
E2 - incomplete primary	0.60	0.54	0.56	0.66	0.74	0.77
E3 - primary	0.55	0.50	0.57	0.72	0.83	0.83
E4 - lower secondary	0.77	0.72	0.69	0.70	0.72	0.74
E5 - upper secondary	1.29	1.24	1.19	1.15	1.12	1.10
E6 - post-secondary	1.08	0.92	0.82	0.77	0.77	0.80
minus female)	0.97	0.60	0.28	0.06	-0.06	-0.10
Women age 20-39: highest educational attainment						
E1 - no education	0.01	0.00	0.00	0.00	0.00	0.00
E2 - incomplete primary	0.00	0.00	0.00	0.00	0.00	0.00
E3 - primary	0.03	0.01	0.01	0.00	0.00	0.00
E4 - lower secondary	0.18	0.12	0.10	0.09	0.08	0.08
E5 - upper secondary	0.61	0.66	0.68	0.69	0.68	0.68
E6 - post-secondary	0.18	0.20	0.21	0.22	0.24	0.24
Mean years of schooling (in years)	11.66	12.14	12.34	12.50	12.59	12.64

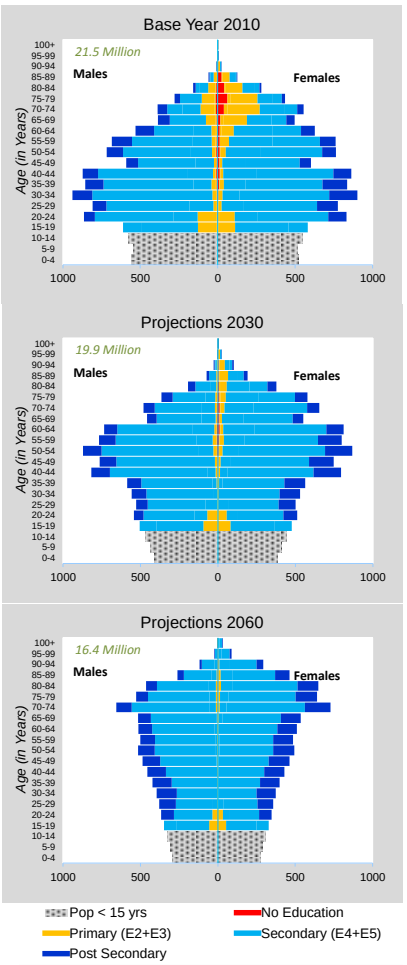
Education scenarios

GET : Global Education Trend Scenario (Medium assumption also used for SSP2)

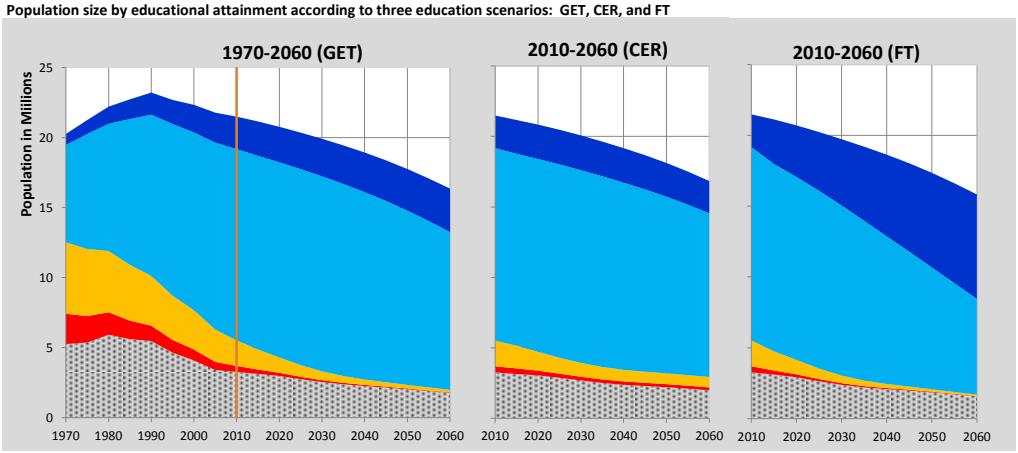
CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

FT: Fast Track Scenario (assumption of education expansion according to fastest historical experience)

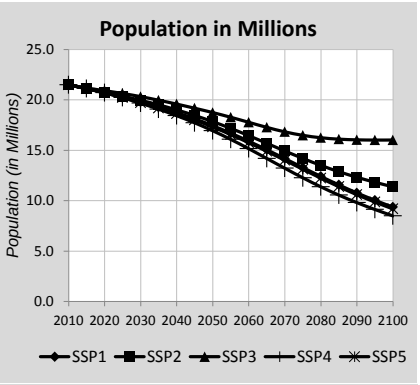
Pyramids by education, Medium Scenario

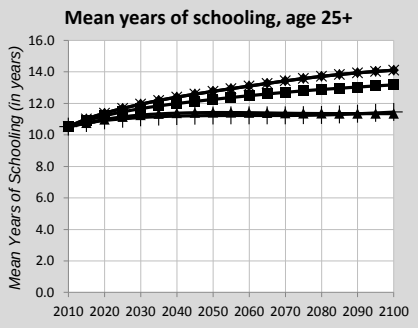


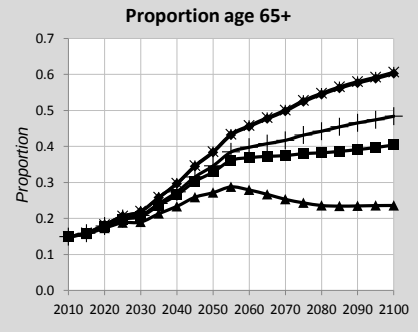
Population size by educational attainment according to three education scenarios: GET, CER, and FT

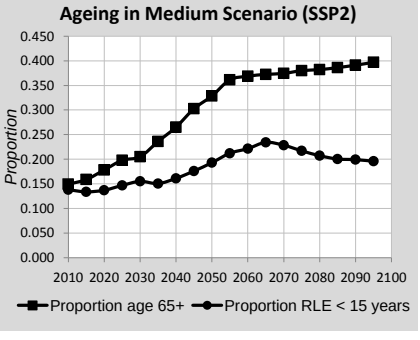


Romania (Continued)









Alternative scenarios to 2100

Projection results by scenario (SSP 1-5)

	2010	2020	2030	2040	2050	2075	2100
Population (in millions)							
SSP1 - Rapid Development	21.49	20.72	19.78	18.73	17.44	13.28	9.36
SSP2 - Medium	21.49	20.77	19.96	19.00	17.84	14.19	11.37
SSP3 - Stalled Development	21.49	20.91	20.32	19.58	18.74	16.48	16.02
SSP4 - Inequality	21.49	20.70	19.67	18.43	16.93	12.27	8.49
SSP5 - Conventional Dev.	21.49	20.69	19.71	18.62	17.31	13.11	9.18
Proportion age 65+							
SSP1 - Rapid Development	0.15	0.18	0.22	0.30	0.38	0.52	0.60
SSP2 - Medium	0.15	0.18	0.21	0.27	0.33	0.38	0.40
SSP3 - Stalled Development	0.15	0.17	0.19	0.23	0.27	0.24	0.24
SSP4 - Inequality	0.15	0.18	0.21	0.27	0.35	0.43	0.48
SSP5 - Conventional Dev.	0.15	0.18	0.22	0.30	0.39	0.53	0.61
Proportion below age 20							
SSP1 - Rapid Development	0.21	0.18	0.15	0.13	0.11	0.08	0.07
SSP2 - Medium	0.21	0.19	0.17	0.16	0.16	0.15	0.15
SSP3 - Stalled Development	0.21	0.20	0.20	0.20	0.21	0.23	0.24
SSP4 - Inequality	0.21	0.19	0.16	0.14	0.13	0.11	0.10
SSP5 - Conventional Dev.	0.21	0.18	0.15	0.13	0.11	0.08	0.07
Proportion of Women age 20-39 with at least secondary education							
SSP1 - Rapid Development	0.96	0.99	1.00	1.00	1.00	1.00	1.00
SSP2 - Medium	0.96	0.98	0.99	1.00	1.00	1.00	1.00
SSP3 - Stalled Development	0.96	0.93	0.93	0.93	0.93	0.93	0.93
SSP4 - Inequality	0.96	0.88	0.84	0.84	0.84	0.84	0.84
SSP5 - Conventional Dev.	0.96	0.99	1.00	1.00	1.00	1.00	1.00
Mean years of schooling, age 25+							
SSP1 - Rapid Development	10.52	11.38	11.95	12.40	12.77	13.58	14.11
SSP2 - Medium	10.52	11.21	11.67	11.99	12.25	12.80	13.18
SSP3 - Stalled Development	10.52	10.98	11.26	11.38	11.42	11.37	11.35
SSP4 - Inequality	10.52	10.92	11.11	11.20	11.23	11.25	11.45
SSP5 - Conventional Dev.	10.52	11.38	11.95	12.40	12.76	13.58	14.11

Demographic assumptions underlying SSPs

	2010-2015	2020-2025	2030-2035	2040-2045	2050-2055	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.20	1.14	1.13	1.11	1.10	1.12	1.15
SSP2 - Medium	1.25	1.40	1.50	1.50	1.50	1.55	1.58
SSP3 - Stalled Development	1.36	1.70	1.90	1.96	1.99	2.06	2.12
SSP4 - Inequality	1.23	1.25	1.23	1.20	1.18	1.21	1.24
SSP5 - Conventional Dev.	1.20	1.14	1.13	1.11	1.10	1.12	1.15
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	79.9	82.9	85.9	89.0	91.9	98.8	104.5
SSP2 - Medium	78.3	80.7	83.0	85.2	87.1	91.7	95.3
SSP3 - Stalled Development	79.0	80.1	81.1	82.2	83.0	84.8	86.3
SSP4 - Inequality	79.4	81.4	83.5	85.5	87.3	91.4	94.9
SSP5 - Conventional Dev.	79.9	82.9	85.9	89.0	91.9	98.8	104.5
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	-65	-36	-23	-12	-5	0	0
SSP2 - Medium	-64	-37	-24	-14	-7	-1	0
SSP3 - Stalled Development	-54	-18	-12	-7	-4	0	0
SSP4 - Inequality	-65	-36	-23	-11	-4	1	0
SSP5 - Conventional Dev.	-76	-55	-36	-20	-10	-2	0

Ageing indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2075	2095
Median Age	38.46	42.54	46.69	50.96	53.14	55.38	56.54
Propspective Median Age	38.46	40.34	42.39	44.62	45.03	43.00	40.58
Proportion age 65+	0.15	0.18	0.21	0.27	0.33	0.38	0.40
Proportion RLE < 15 years	0.14	0.14	0.16	0.16	0.19	0.22	0.20