Czech Republic

Detailed Human Capital projections to 2060

Pyramids by education, Medium Scenario

Demographic indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2060
Population (in millions)	10.5	10.9	11.3	11.5	11.7	11.9
Proportion age 65+	0.15	0.20	0.22	0.25	0.30	0.32
Proportion below age 20	0.20	0.20	0.20	0.18	0.18	0.18
	2005-2010	2015-2020	2025-2030	2035-2040	2045-2050	2055-2060
Total Fertility Rate	1.41	1.51	1.62	1.67	1.69	1.70
Life expectancy at birth (in years)						
Male	73.77	76.40	78.93	81.43	83.77	85.64
Female	80.16	82.61	85.01	87.41	89.69	91.49
Five-year immigration flow (in '000)	240	192	199	204	204	202
Five-year emigration flow (in '000)	1	0	0	0	0	0

Human Capital indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment						
E1 - no education	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
E4 - lower secondary	0.14	0.10	0.07	0.05	0.03	0.02
E5 - upper secondary	0.70	0.73	0.74	0.74	0.73	0.72
E6 - post-secondary	0.16	0.17	0.19	0.21	0.24	0.26
Mean years of schooling (in years)	12.29	12.71	13.01	13.30	13.58	13.84
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.87	0.92	0.94	0.93	0.93	0.94
E2 - incomplete primary	0.83	0.88	0.83	0.75	0.70	0.71
E3 - primary	0.99	1.16	1.21	1.20	1.20	1.24
E4 - lower secondary	0.44	0.49	0.56	0.65	0.80	0.96
E5 - upper secondary	1.14	1.10	1.08	1.06	1.05	1.04
E6 - post-secondary	1.09	0.97	0.91	0.88	0.88	0.91
minus female)	0.48	0.26	0.12	0.02	-0.04	-0.05
Women age 20-39: highest educational attainment						
E1 - no education	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
E4 - lower secondary	0.05	0.03	0.02	0.02	0.02	0.02
E5 - upper secondary	0.76	0.75	0.73	0.70	0.68	0.66
E6 - post-secondary	0.19	0.22	0.24	0.27	0.30	0.32
Mean years of schooling (in years)	13.18	13.82	13.83	13.97	14.09	14.18

Base Year 2010 — 10.5 Million — Males / Females

Projections 2030 — 11.3 Million — Males / Females

Projections 2060 — 11.8 Million — Males / Females

Legend:
- Pop < 15 yrs
- No Education
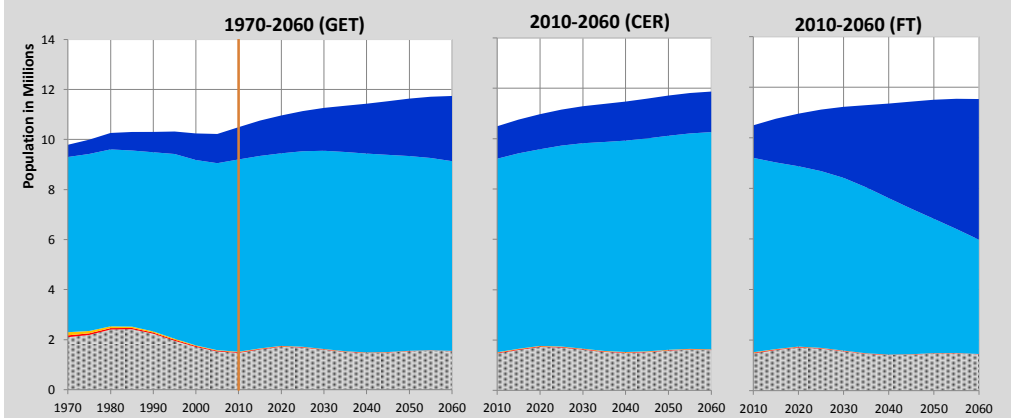- Primary (E2+E3)
- Secondary (E4+E5)
- Post Secondary

Education scenarios

GET : Global Education Trend Scenario (Medium assumption also used for SSP2)
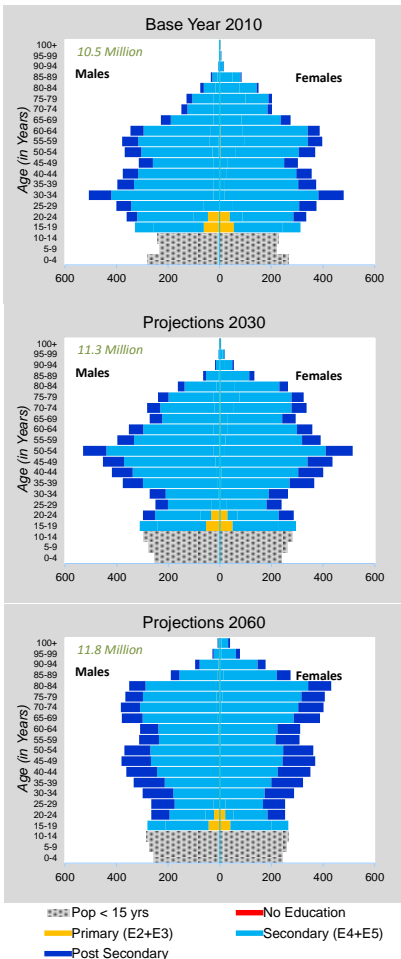
CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

FT: Fast Track Scenario (assumption of education expansion according to fastest historical experience)
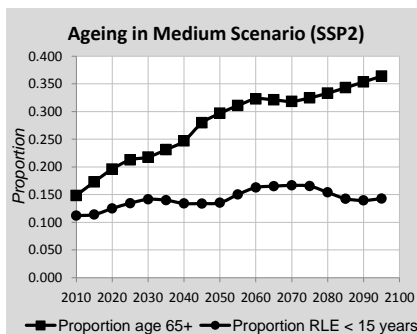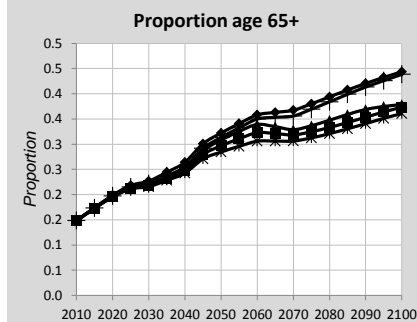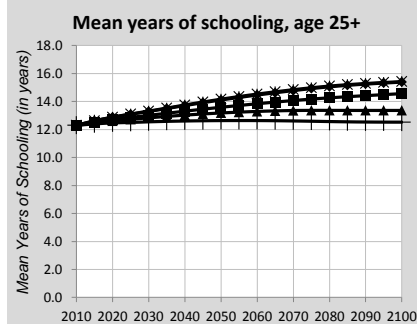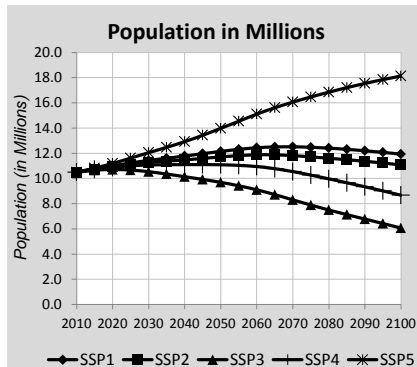
Population size by educational attainment according to three education scenarios: GET, CER, and FT

1970-2060 (GET)

2010-2060 (CER)

2010-2060 (FT)

Czech Republic (Continued)

Population in Millions

Mean years of schooling, age 25+

Proportion age 65+

Ageing in Medium Scenario (SSP2)

Alternative scenarios to 2100

Projection results by scenario (SSP 1-5)

	2010	2020	2030	2040	2050	2075	2100
Population (in millions)							
SSP1 - Rapid Development	10.49	11.00	11.43	11.78	12.15	12.48	11.93
SSP2 - Medium	10.49	10.94	11.27	11.48	11.71	11.72	11.07
SSP3 - Stalled Development	10.49	10.71	10.54	10.14	9.69	7.89	6.07
SSP4 - Inequality	10.49	10.88	11.07	11.10	11.09	10.27	8.67
SSP5 - Conventional Dev.	10.49	11.19	12.05	12.92	13.98	16.47	18.13
Proportion age 65+							
SSP1 - Rapid Development	0.15	0.20	0.23	0.26	0.32	0.38	0.44
SSP2 - Medium	0.15	0.20	0.22	0.25	0.30	0.32	0.37
SSP3 - Stalled Development	0.15	0.20	0.22	0.25	0.31	0.34	0.38
SSP4 - Inequality	0.15	0.20	0.22	0.26	0.31	0.37	0.44
SSP5 - Conventional Dev.	0.15	0.20	0.22	0.24	0.28	0.31	0.36
Proportion below age 20							
SSP1 - Rapid Development	0.20	0.20	0.19	0.17	0.17	0.16	0.15
SSP2 - Medium	0.20	0.20	0.20	0.18	0.18	0.17	0.17
SSP3 - Stalled Development	0.20	0.19	0.18	0.16	0.15	0.14	0.14
SSP4 - Inequality	0.20	0.19	0.18	0.16	0.15	0.14	0.13
SSP5 - Conventional Dev.	0.20	0.20	0.21	0.20	0.20	0.20	0.20
Proportion of Women age 20-39 with at least secondary education							
SSP1 - Rapid Development	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SSP2 - Medium	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SSP3 - Stalled Development	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SSP4 - Inequality	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SSP5 - Conventional Dev.	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Mean years of schooling, age 25+							
SSP1 - Rapid Development	12.29	12.87	13.28	13.71	14.10	14.92	15.38
SSP2 - Medium	12.29	12.71	13.01	13.30	13.58	14.17	14.56
SSP3 - Stalled Development	12.29	12.61	12.83	13.02	13.18	13.36	13.36
SSP4 - Inequality	12.29	12.47	12.54	12.60	12.63	12.59	12.52
SSP5 - Conventional Dev.	12.29	12.88	13.31	13.75	14.16	14.98	15.42

Demographic assumptions underlying SSPs

	2010-2015	2020-2025	2030-2035	2040-2045	2050-2055	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.45	1.54	1.61	1.65	1.66	1.68	1.69
SSP2 - Medium	1.45	1.56	1.66	1.68	1.70	1.71	1.72
SSP3 - Stalled Development	1.39	1.35	1.32	1.31	1.31	1.33	1.34
SSP4 - Inequality	1.39	1.38	1.36	1.36	1.35	1.37	1.39
SSP5 - Conventional Dev.	1.52	1.77	1.96	2.04	2.08	2.10	2.11
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	82.1	85.5	88.9	92.2	95.2	102.2	107.9
SSP2 - Medium	81.4	83.8	86.2	88.6	90.6	95.1	98.7
SSP3 - Stalled Development	81.1	82.5	83.9	85.3	86.3	88.2	89.7
SSP4 - Inequality	81.7	84.0	86.4	88.7	90.7	95.0	98.5
SSP5 - Conventional Dev.	82.1	85.5	88.9	92.2	95.2	102.2	107.9
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	205	194	199	196	188	71	0
SSP2 - Medium	204	190	196	197	195	82	0
SSP3 - Stalled Development	171	96	98	97	93	38	0
SSP4 - Inequality	205	193	197	195	189	78	0
SSP5 - Conventional Dev.	239	293	308	317	320	139	0

Ageing indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2075	2095
Median Age	39.35	42.36	45.72	48.13	48.46	50.81	52.89
Propspective Median Age	39.35	39.96	41.05	41.17	39.54	37.72	36.19
Proportion age 65+	0.15	0.20	0.22	0.25	0.30	0.32	0.36
Proportion RLE < 15 years	0.11	0.12	0.14	0.13	0.14	0.17	0.14