Germany

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)	82.3	81.9	81.4	80.4	78.9	77.1
Proportion age 65+	0.20	0.23	0.29	0.32	0.34	0.35
Proportion below age 20	0.19	0.17	0.17	0.17	0.16	0.17
	2005-2010	2015-2020	2025-2030	2035-2040	2045-2050	2055-2060
Total Fertility Rate	1.36	1.42	1.52	1.57	1.59	1.61
Life expectancy at birth (in years)						
Male	77.20	79.99	82.45	84.41	86.52	88.51
Female	82.39	84.49	86.61	88.61	90.69	92.69
Five-year immigration flow (in '000)	1337	1317	1370	1404	1406	1387
Five-year emigration flow (in '000)	788	516	458	424	407	392

Human Capital indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment						
E1 - no education	0.01	0.01	0.01	0.01	0.00	0.00
E2 - incomplete primary	0.00	0.00	0.00	0.00	0.00	0.00
E3 - primary	0.03	0.02	0.02	0.02	0.01	0.01
E4 - lower secondary	0.16	0.13	0.11	0.09	0.08	0.07
E5 - upper secondary	0.51	0.50	0.48	0.46	0.43	0.40
E6 - post-secondary	0.30	0.34	0.39	0.43	0.48	0.52
Mean years of schooling (in years)	13.71	14.03	14.28	14.50	14.72	14.93
Gender gap (population age 25+): highest educational attainment (ratio male/female)						
E1 - no education	0.81	0.82	0.80	0.77	0.74	0.71
E2 - incomplete primary	NA	NA	NA	NA	NA	NA
E3 - primary	0.78	0.81	0.83	0.85	0.86	0.88
E4 - lower secondary	0.44	0.55	0.69	0.82	0.92	0.97
E5 - upper secondary	1.06	1.03	1.03	1.04	1.06	1.06
E6 - post-secondary	1.38	1.20	1.08	1.01	0.97	0.96
minus female)	0.90	0.58	0.31	0.11	-0.01	-0.07
Women age 20-39: highest educational attainment						
E1 - no education	0.01	0.01	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	0.02	0.01	0.01	0.01	0.00	0.00
E4 - lower secondary	0.13	0.11	0.09	0.07	0.06	0.05
E5 - upper secondary	0.50	0.47	0.45	0.44	0.43	0.42
E6 - post-secondary	0.34	0.41	0.46	0.49	0.51	0.53
Mean years of schooling (in years)	13.94	14.39	14.46	14.66	14.80	14.91

Base Year 2010 — 82.3 Million, Males / Females

Projections 2030 — 81.4 Million, Males / Females

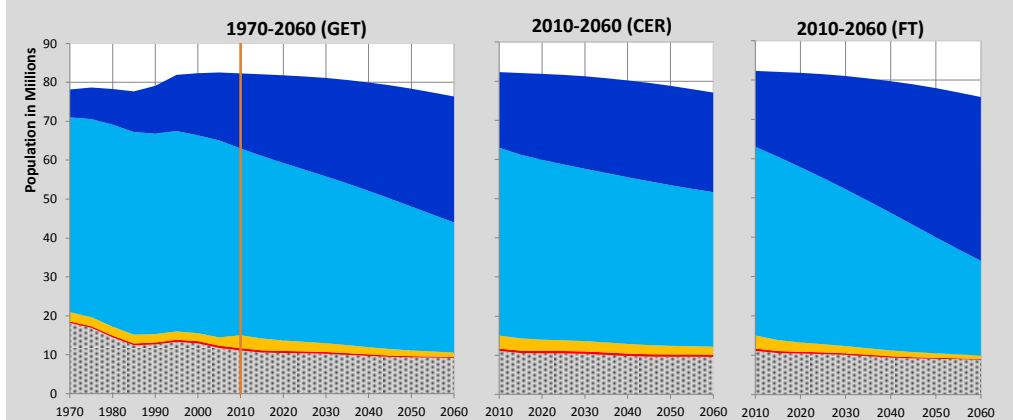Projections 2060 — 77.1 Million, Males / Females

Education scenarios

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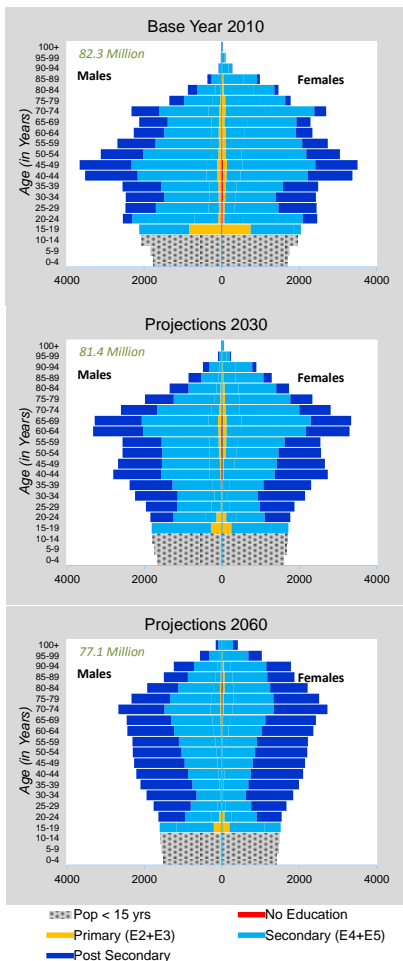
CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

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

Legend: Pop < 15 yrs | No Education | Primary (E2+E3) | Secondary (E4+E5) | Post Secondary
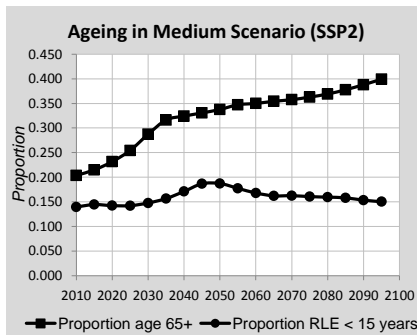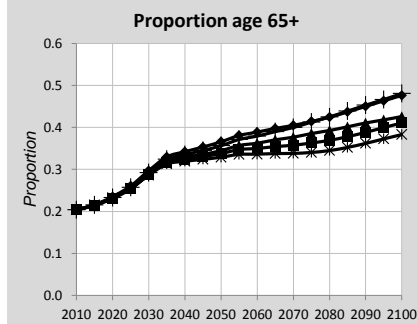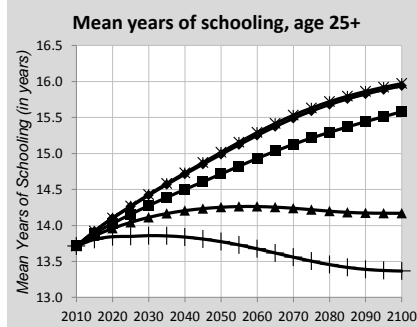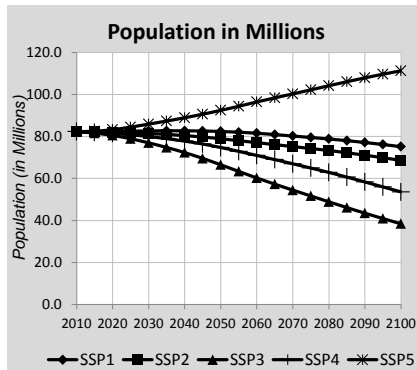
Population size by educational attainment according to three education scenarios: GET, CER, and FT

1970-2060 (GET) | 2010-2060 (CER) | 2010-2060 (FT)

Germany (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	82.30	82.33	82.65	82.69	82.37	79.51	75.14
SSP2 - Medium	82.30	81.86	81.39	80.41	78.91	74.26	68.61
SSP3 - Stalled Development	82.30	80.49	76.95	72.31	66.52	51.67	38.43
SSP4 - Inequality	82.30	81.43	79.96	77.78	74.74	64.97	53.60
SSP5 - Conventional Dev.	82.30	83.26	85.90	88.92	92.45	102.21	111.26
Proportion age 65+							
SSP1 - Rapid Development	0.20	0.23	0.30	0.34	0.37	0.41	0.48
SSP2 - Medium	0.20	0.23	0.29	0.32	0.34	0.36	0.41
SSP3 - Stalled Development	0.20	0.23	0.29	0.33	0.34	0.39	0.43
SSP4 - Inequality	0.20	0.23	0.29	0.34	0.36	0.41	0.48
SSP5 - Conventional Dev.	0.20	0.23	0.29	0.32	0.33	0.34	0.38
Proportion below age 20							
SSP1 - Rapid Development	0.19	0.17	0.17	0.16	0.16	0.15	0.14
SSP2 - Medium	0.19	0.17	0.17	0.17	0.16	0.16	0.15
SSP3 - Stalled Development	0.19	0.17	0.15	0.14	0.14	0.13	0.12
SSP4 - Inequality	0.19	0.17	0.15	0.14	0.14	0.13	0.11
SSP5 - Conventional Dev.	0.19	0.18	0.18	0.19	0.19	0.20	0.19
Proportion of Women age 20-39 with at least secondary education							
SSP1 - Rapid Development	0.97	0.99	0.99	1.00	1.00	1.00	1.00
SSP2 - Medium	0.97	0.98	0.99	0.99	0.99	1.00	1.00
SSP3 - Stalled Development	0.97	0.98	0.98	0.98	0.98	0.98	0.98
SSP4 - Inequality	0.97	0.98	0.98	0.98	0.98	0.98	0.98
SSP5 - Conventional Dev.	0.97	0.99	0.99	1.00	1.00	1.00	1.00
Mean years of schooling, age 25+							
SSP1 - Rapid Development	13.71	14.10	14.42	14.71	14.99	15.59	15.94
SSP2 - Medium	13.71	14.03	14.28	14.50	14.72	15.21	15.58
SSP3 - Stalled Development	13.71	13.96	14.11	14.21	14.25	14.22	14.17
SSP4 - Inequality	13.71	13.84	13.86	13.84	13.77	13.50	13.37
SSP5 - Conventional Dev.	13.71	14.10	14.43	14.73	15.02	15.63	15.97

Demographic assumptions underlying SSPs

	2010-2015	2020-2025	2030-2035	2040-2045	2050-2055	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.37	1.46	1.53	1.57	1.59	1.62	1.64
SSP2 - Medium	1.36	1.47	1.56	1.58	1.60	1.63	1.65
SSP3 - Stalled Development	1.30	1.26	1.24	1.24	1.24	1.27	1.29
SSP4 - Inequality	1.31	1.29	1.28	1.28	1.27	1.30	1.33
SSP5 - Conventional Dev.	1.44	1.68	1.85	1.94	1.98	2.02	2.05
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	84.2	87.3	90.3	93.3	96.3	104.0	110.1
SSP2 - Medium	83.4	85.5	87.6	89.7	91.7	96.9	101.0
SSP3 - Stalled Development	83.3	84.3	85.4	86.4	87.4	89.9	91.9
SSP4 - Inequality	83.7	85.8	87.8	89.8	91.8	96.8	100.7
SSP5 - Conventional Dev.	84.2	87.3	90.3	93.3	96.3	104.0	110.1
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	682	854	939	956	929	346	0
SSP2 - Medium	689	849	932	968	967	391	0
SSP3 - Stalled Development	568	428	470	480	469	181	0
SSP4 - Inequality	682	851	931	948	929	368	0
SSP5 - Conventional Dev.	796	1281	1431	1517	1550	665	0

Ageing indicators, Medium Scenario (SSP2)

	2010	2020	2030	2040	2050	2075	2095
Median Age	44.35	47.90	49.28	51.18	52.19	53.09	56.06
Propspective Median Age	44.35	45.72	45.08	45.06	44.24	40.00	38.99
Proportion age 65+	0.20	0.23	0.29	0.32	0.34	0.36	0.40
Proportion RLE < 15 years	0.14	0.14	0.15	0.17	0.19	0.16	0.15