

Cafaro, Philip; Dérer, Patrícia

Article

Policy-based population projections for the European Union: A complementary approach

Comparative Population Studies (CPoS)

Provided in Cooperation with:

Bundesinstitut für Bevölkerungsforschung (BiB), Wiesbaden

Suggested Citation: Cafaro, Philip; Dérer, Patrícia (2019) : Policy-based population projections for the European Union: A complementary approach, Comparative Population Studies (CPoS), ISSN 1869-8999, Bundesinstitut für Bevölkerungsforschung (BiB), Wiesbaden, Vol. 44, pp. 171-200, <https://doi.org/10.12765/CPoS-2019-14en>

This Version is available at:

<https://hdl.handle.net/10419/309203>

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.



<https://creativecommons.org/licenses/by-sa/4.0/>

Online Appendix III

Population Projections*

Policy-based Population Projections for the European Union: A Complementary Approach

Philip Cafaro, Patrícia Dérer

Below we provide population projections for the EU as a whole and for all EU member states (including the United Kingdom, which may or may not be an EU member by the time this study is published). On the charts, the black lines represent historical population numbers from 1950 to 2016, while the colored lines represent nine population projections to 2100 under different migration (1.A) and fertility (2.A) scenarios, as well as several scenarios combining changes to both fertility rates and migration levels (3.A). The status quo migration and status quo fertility scenarios are identical – except for the EU as a whole, since its status quo fertility variant comes from summing up all individual countries' status quo projections, while the status quo migration variant results from treating the aggregated EU population as a single population (see details in the main text). The solid colored lines represent more likely fertility and migration scenarios, in our opinion, while the dashed colored lines represent less likely scenarios, which however are still possible given available policy choices. The charts include final (2100) population numbers for every other scenario, while the accompanying tables (1.B, 2.B and 3.B) provide the total fertility rates and net migration levels used in every scenario, along with population in millions every ten years.

All fertility projections hold net migration steady at the status quo 20-year average in the case of net positive migration countries; for net negative migration countries, we assume its linear increase starting from the 20-year average in 2016 and ending at zero net migration in 2100. The migration projections and combination projections vary fertility rates slightly in response to higher or lower percentages of migrants in the total population, as described in appendix I. See appendix II for tables providing fertility rates and net migration numbers for all scenarios across all countries in the study.

* This Online Appendix contains additional information regarding the article: DOI 10.12765/CPoS-2019-14en, URL: <http://www.comparativepopulationstudies.de/index.php/CPoS/article/view/310/284>.

European Union

Population in 1950: 379.8 million

Current (2016) population: 510.3 million

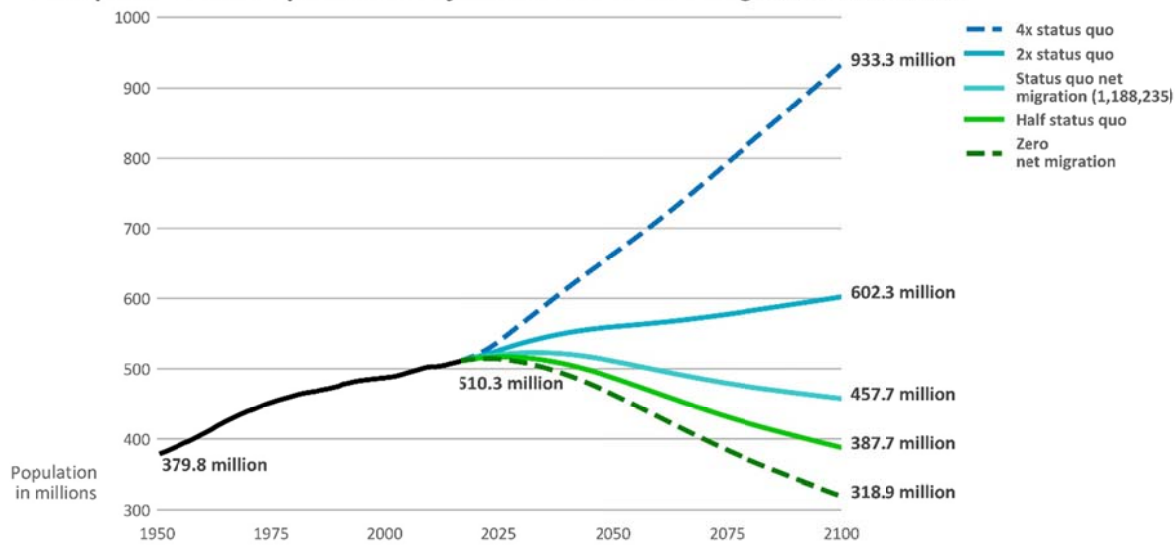
Current (2016) total fertility rate: 1.60

Current (2016) net migration level: 1,222,979

Status quo annual net migration (20-year average, 1998-2017): 1,188,235

1. A

European Union Population Projections Under Five Migration Scenarios



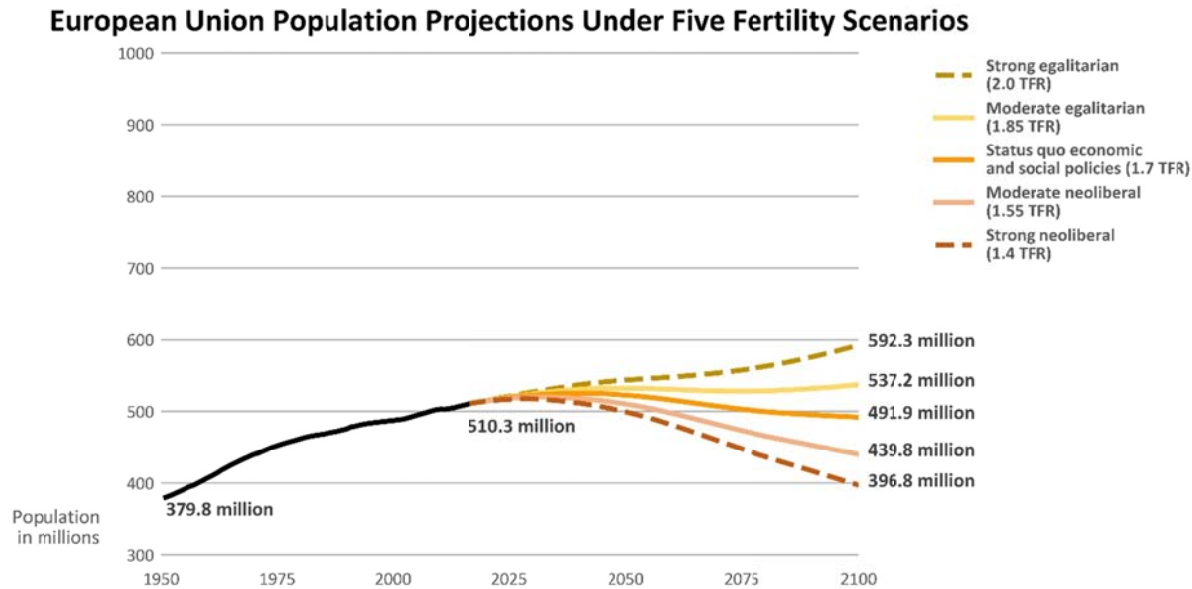
1. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.65	0	514.02	509.53	491.08	463.44	431.34	399.15	369.72	343.62	318.90
½ status quo net migration	1.67	594,118	514.67	516.20	506.03	487.28	464.52	441.97	421.81	404.28	387.74
Status quo net migration	1.70	1,188,235	515.22	522.69	520.84	511.06	497.74	485.02	474.38	465.73	457.72
2X status quo net migration	1.75	2,376,470	516.63	536.29	551.29	559.70	565.67	573.16	582.22	592.16	602.28
4X status quo net migration	1.90	4,752,940	519.32	564.10	615.07	662.92	711.64	765.42	821.09	876.73	933.25

European Union (continued)

2. A



2. B

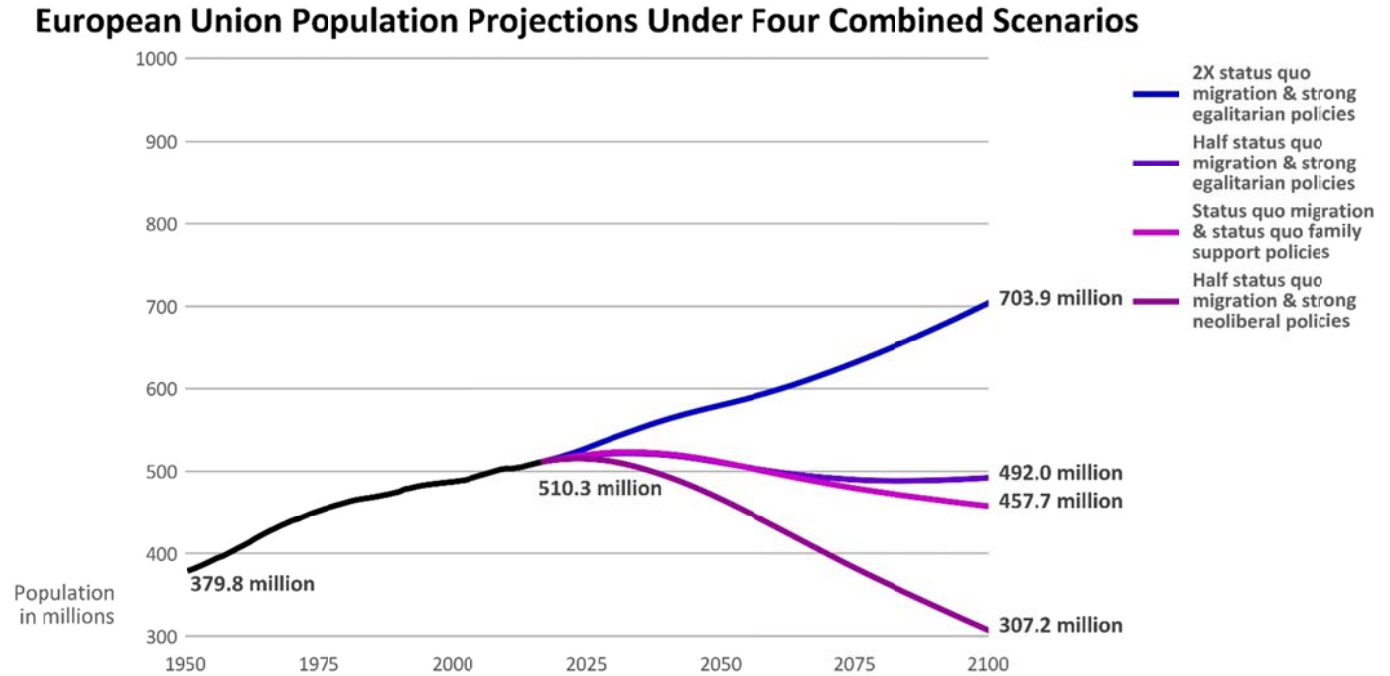
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	*	1,188,235	514.08	517.38	511.43	499.30	480.87	458.51	436.77	416.82	396.78
Moderate neo-liberal policy shift	*	1,188,235	514.32	519.77	517.84	510.26	497.14	480.95	465.73	452.67	439.84
Status quo social and economic policies	*	1,188,235	514.69	522.68	525.28	522.65	515.60	506.90	499.71	495.30	491.94
Moderate egalitarian policy shift	*	1,188,235	514.79	524.51	530.62	532.26	530.55	528.43	528.39	531.76	537.15
Strong egalitarian policy shift	*	1,188,235	515.04	526.93	537.10	543.49	547.95	553.73	562.60	575.74	592.34

* Varies over the period, as our EU fertility projections apply individual countries' status quo TFR projections to each individual country before summing the overall population results.

European Union (continued)

3. A



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.05	2,376,470	517.05	540.41	562.66	579.71	596.87	618.83	644.43	672.92	703.94
½ status quo net migration & strong egalitarian policies	1.97	594,118	515.18	521.26	519.46	510.28	499.60	492.11	488.54	489.03	491.99
Status quo net migration & status quo family support policies	1.70	1,188,235	515.22	522.69	520.84	511.06	497.74	485.02	474.38	465.73	457.72
½ status quo net migration & strong neoliberal policies	1.37	594,118	514.20	511.53	493.65	466.32	433.51	399.20	366.60	336.42	307.22

Austria

Population in 1950: 6.9 million

Current (2016) population: 8.7 million

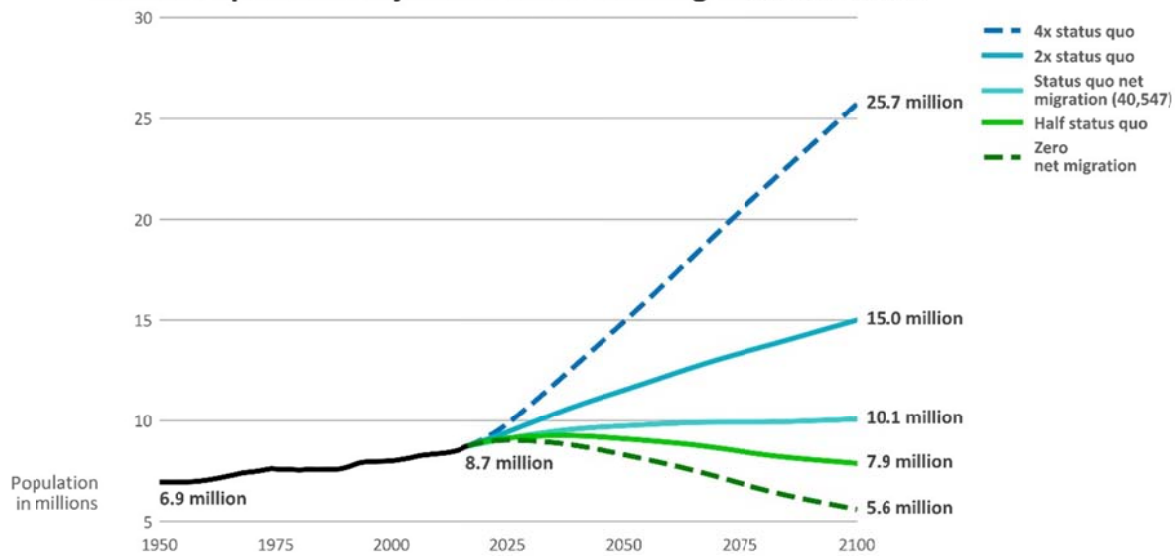
Current (2016) total fertility rate: 1.53

Current (2016) net migration level: 65,388

Status quo annual net migration (20-year average, 1998-2017): 40,547

1. A

Austria Population Projections Under Five Migration Scenarios



1. B

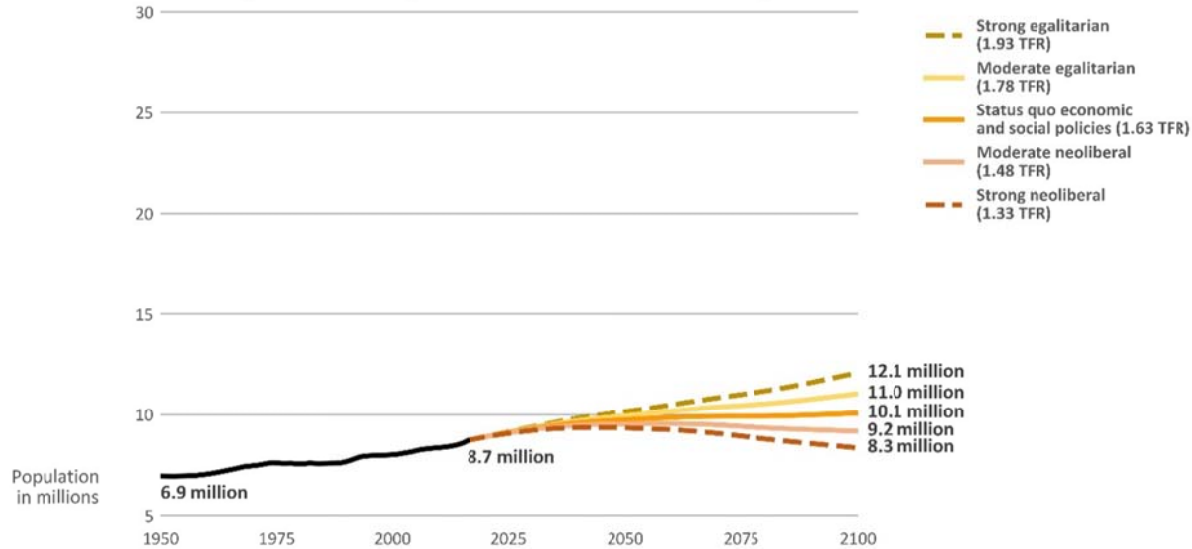
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.58	0	8.92	8.99	8.74	8.30	7.80	7.21	6.57	6.05	5.59
½ status quo net migration	1.60	20,274	8.94	9.21	9.24	9.10	8.90	8.64	8.31	8.07	7.87
Status quo net migration	1.63	40,547	8.89	9.30	9.58	9.73	9.85	9.91	9.92	9.98	10.06
2X status quo net migration	1.68	81,094	9.01	9.88	10.75	11.51	12.28	13.02	13.66	14.32	14.99
4X status quo net migration	1.83	162,189	9.10	10.80	12.84	14.90	17.08	19.33	21.50	23.61	25.74

Austria (continued)

2. A

Austria Population Projections Under Five Fertility Scenarios



2. B

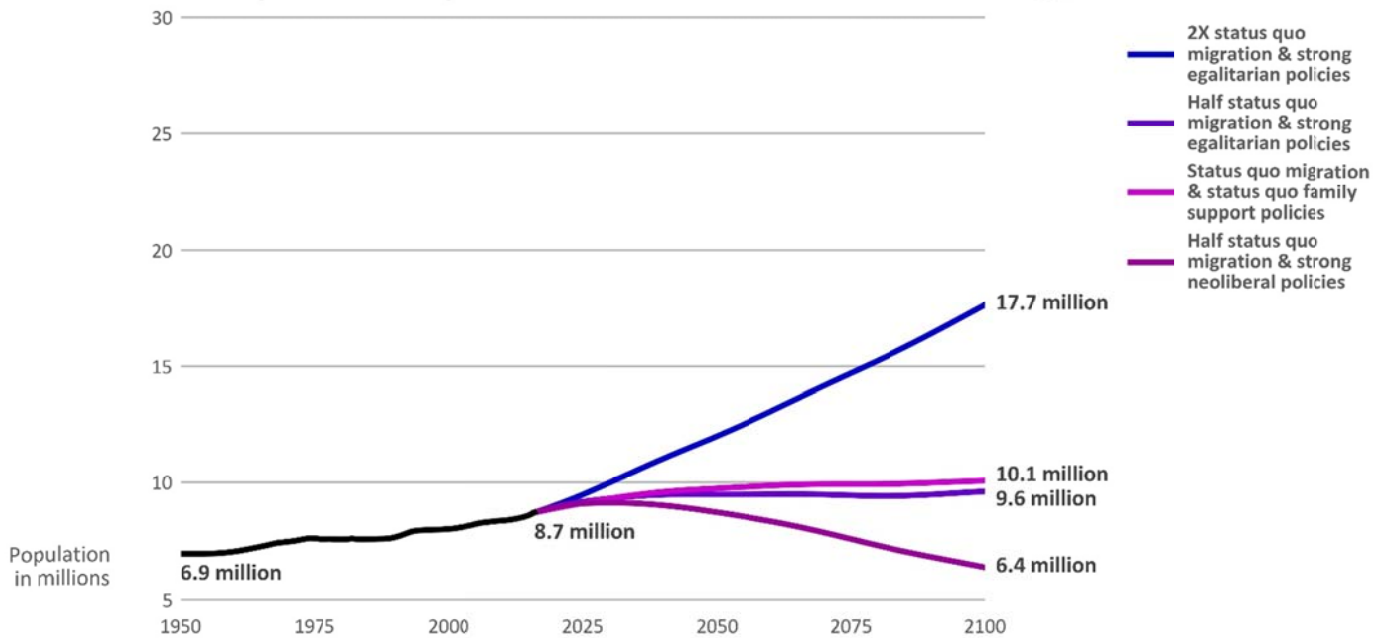
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.33	40,547	8.88	9.21	9.35	9.33	9.24	9.05	8.79	8.56	8.33
Moderate neo-liberal policy shift	1.48	40,547	8.88	9.25	9.47	9.53	9.54	9.48	9.34	9.24	9.16
Status quo social and economic policies	1.63	40,547	8.89	9.30	9.58	9.73	9.85	9.91	9.92	9.98	10.06
Moderate egalitarian policy shift	1.78	40,547	8.89	9.34	9.70	9.94	10.17	10.37	10.53	10.76	11.04
Strong egalitarian policy shift	1.93	40,547	8.90	9.38	9.82	10.14	10.49	10.84	11.16	11.59	12.08

Austria (continued)

3. A

Austria Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.98	81,094	9.02	9.98	11.02	11.99	13.05	14.16	15.24	16.40	17.65
½ status quo net migration & strong egalitarian policies	1.90	20,274	8.95	9.30	9.46	9.47	9.49	9.47	9.41	9.47	9.61
Status quo net migration & status quo family support policies	1.63	40,547	8.89	9.30	9.58	9.73	9.85	9.91	9.92	9.98	10.06
½ status quo net migration & strong neoliberal policies	1.30	20,274	8.93	9.12	9.01	8.71	8.33	7.84	7.28	6.80	6.35

Belgium

Population in 1950: 8.6 million

Current (2016) population: 11.3 million

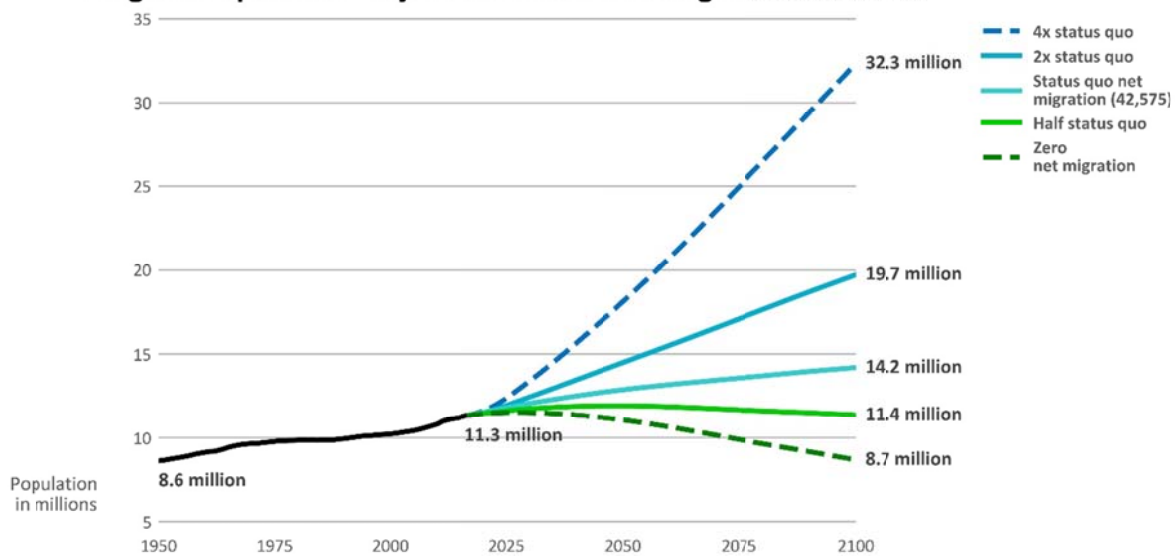
Current (2016) total fertility rate: 1.68

Current (2016) net migration level: 26,811

Status quo annual net migration (20-year average, 1998-2017): 42,575

1. A

Belgium Population Projections Under Five Migration Scenarios



1. B

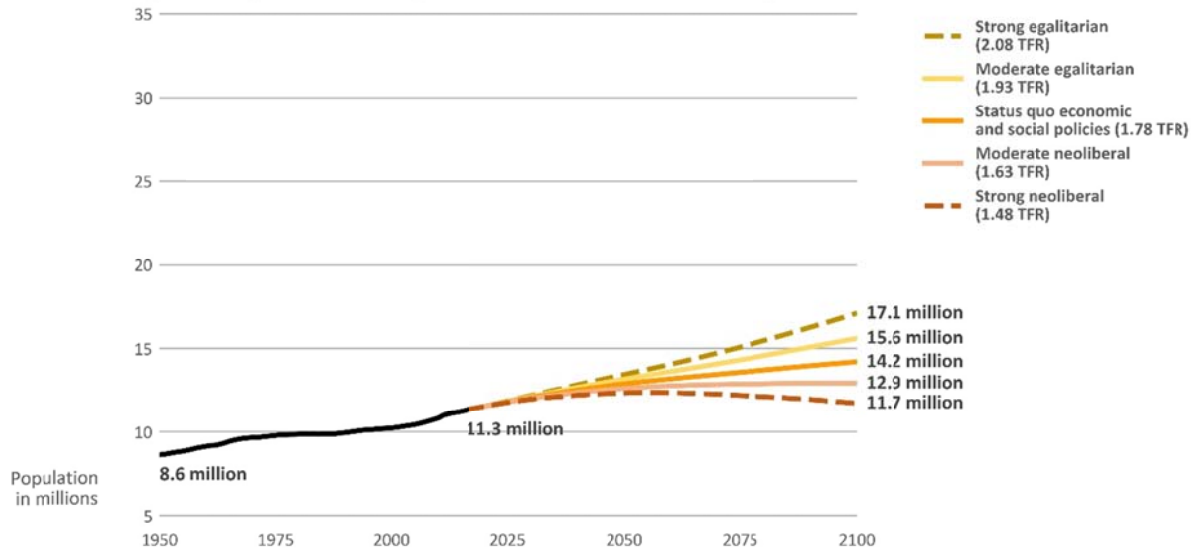
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.73	0	11.43	11.51	11.36	11.07	10.66	10.16	9.65	9.18	8.69
½ status quo net migration	1.76	21,288	11.46	11.74	11.88	11.92	11.85	11.74	11.61	11.50	11.36
Status quo net migration	1.78	42,575	11.53	12.06	12.50	12.87	13.17	13.44	13.69	13.96	14.19
2X status quo net migration	1.83	85,151	11.52	12.44	13.46	14.49	15.51	16.56	17.62	18.68	19.70
4X status quo net migration	1.98	170,301	11.62	13.40	15.66	18.11	20.72	23.53	26.44	29.38	32.34

Belgium (continued)

2. A

Belgium Population Projections Under Five Fertility Scenarios



2. B

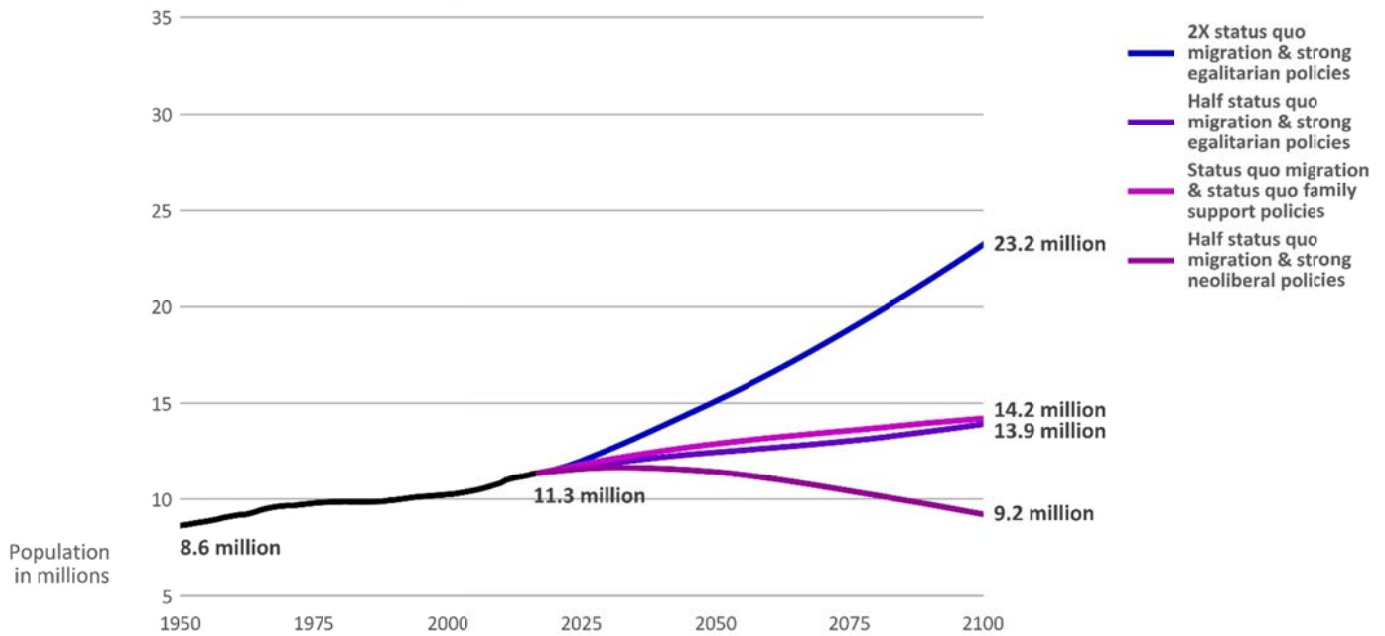
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.48	42,575	11.52	11.95	12.19	12.33	12.34	12.25	12.10	11.94	11.70
Moderate neo-liberal policy shift	1.63	42,575	11.52	12.01	12.35	12.60	12.76	12.84	12.88	12.92	12.90
Status quo social and economic policies	1.78	42,575	11.53	12.06	12.50	12.87	13.17	13.44	13.69	13.96	14.19
Moderate egalitarian policy shift	1.93	42,575	11.53	12.12	12.66	13.15	13.61	14.07	14.56	15.07	15.60
Strong egalitarian policy shift	2.08	42,575	11.54	12.18	12.82	13.43	14.05	14.72	15.45	16.25	17.10

Belgium (continued)

3. A

Belgium Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.13	85,151	11.54	12.56	13.80	15.09	16.48	18.02	19.66	21.39	23.22
½ status quo net migration & strong egalitarian policies	2.06	21,288	11.47	11.85	12.18	12.43	12.65	12.89	13.17	13.52	13.90
Status quo net migration & status quo family support policies	1.78	42,575	11.53	12.06	12.50	12.87	13.17	13.44	13.69	13.96	14.19
½ status quo net migration & strong neoliberal policies	1.46	21,288	11.45	11.63	11.59	11.41	11.09	10.66	10.19	9.72	9.21

Bulgaria

Population in 1950: 7.2 million

Current (2016) population: 7.2 million

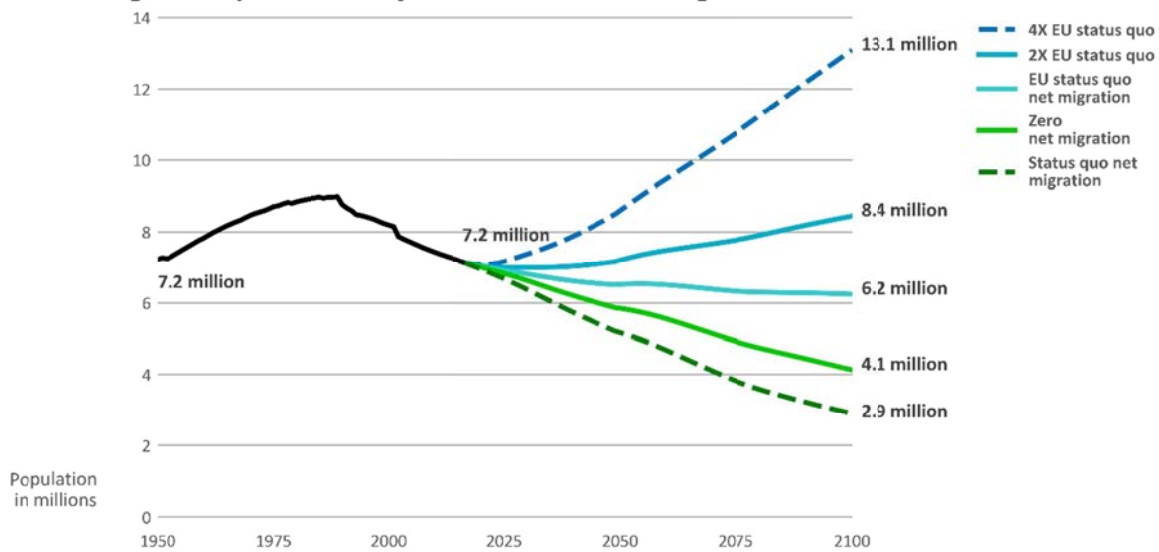
Current (2016) total fertility rate: 1.54

Current (2016) net migration level: -9,329

20-year average annual net migration (1998-2017): -21,052

1. A

Bulgaria Population Projections Under Five Migration Scenarios



1. B

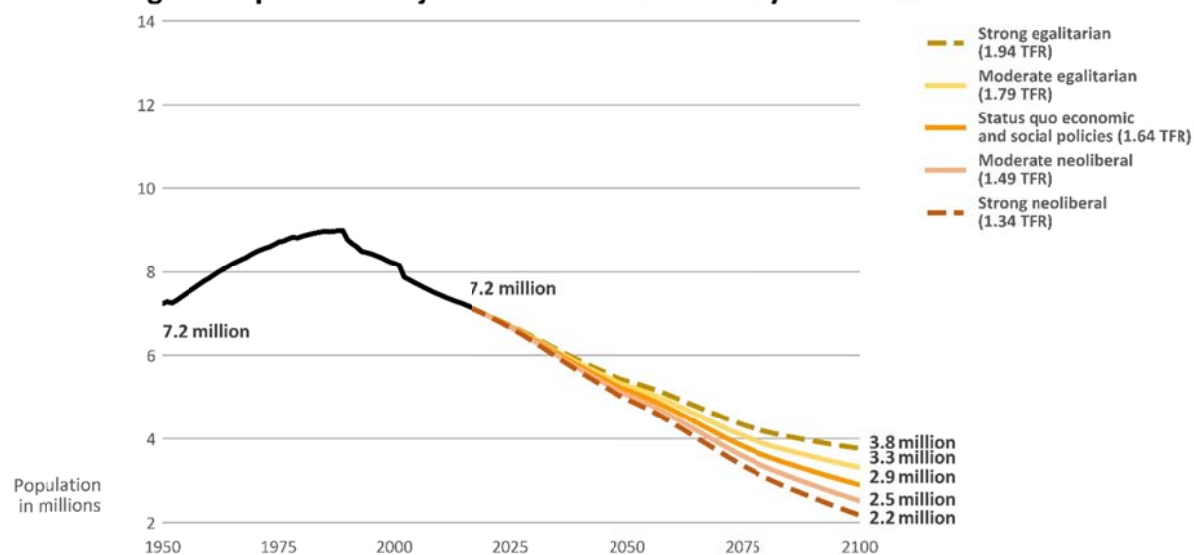
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.64	Linear increase till 0 by 2100	6.95	6.37	5.72	5.16	4.67	4.09	3.59	3.22	2.90
Zero net migration	1.64	0	7.01	6.63	6.20	5.85	5.55	5.13	4.75	4.44	4.13
EU status quo net migration	1.69	17,044	7.03	6.81	6.62	6.52	6.51	6.39	6.30	6.28	6.25
2X EU status quo net migration	1.74	34,089	7.04	7.00	7.04	7.21	7.48	7.67	7.90	8.19	8.45
4X EU status quo net migration	1.84	68,178	7.08	7.38	7.89	8.60	9.48	10.32	11.22	12.17	13.10

Bulgaria (continued)

2. A

Bulgaria Population Projections Under Five Fertility Scenarios



2. B

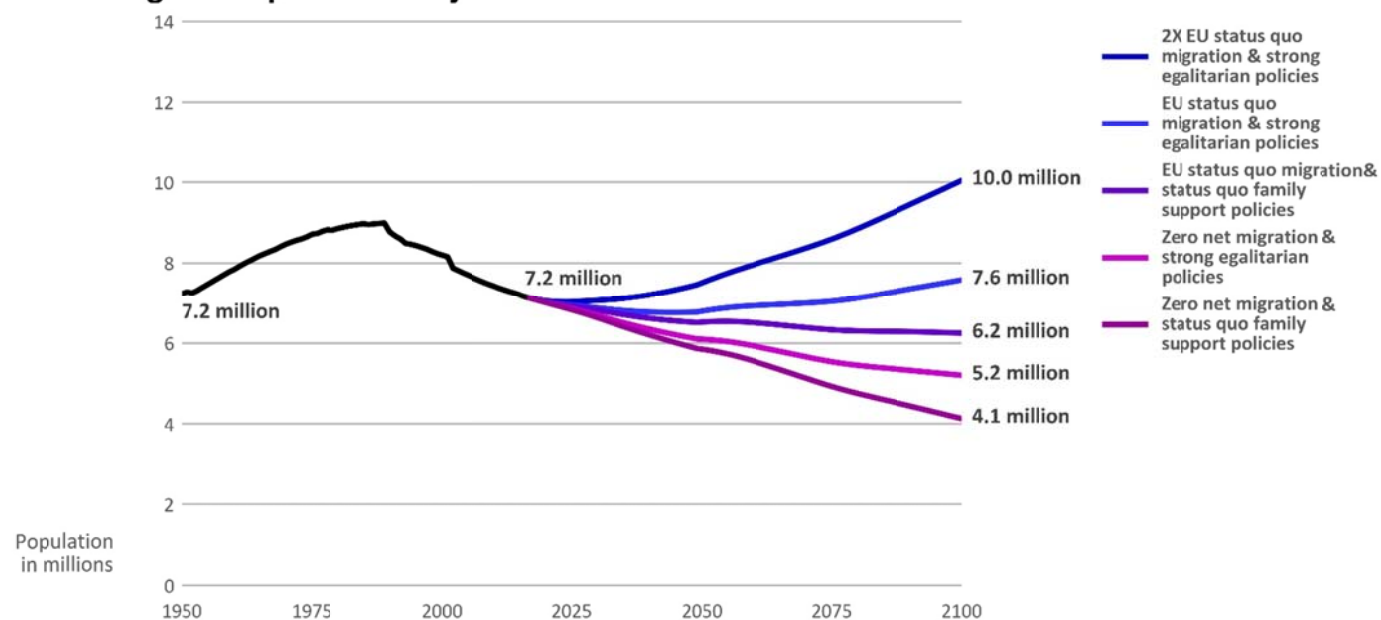
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.34	Linear increase till 0 by 2100	6.94	6.32	5.59	4.95	4.36	3.67	3.07	2.59	2.17
Moderate neo-liberal policy shift	1.49	Linear increase till 0 by 2100	6.95	6.34	5.66	5.05	4.51	3.88	3.32	2.89	2.52
Status quo social and economic policies	1.64	Linear increase till 0 by 2100	6.95	6.37	5.72	5.16	4.67	4.09	3.59	3.22	2.90
Moderate egalitarian policy shift	1.79	Linear increase till 0 by 2100	6.95	6.40	5.79	5.27	4.83	4.31	3.87	3.57	3.31
Strong egalitarian policy shift	1.94	Linear increase till 0 by 2100	6.96	6.43	5.86	5.38	5.00	4.54	4.17	3.94	3.77

Bulgaria (continued)

3. A

Bulgaria Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	2.04	34,089	7.05	7.06	7.20	7.50	7.95	8.36	8.85	9.44	10.05
EU status quo net migration & strong egalitarian policies	1.99	17,044	7.03	6.87	6.77	6.79	6.93	7.00	7.13	7.35	7.57
EU status quo net migration & status quo family support policies	1.69	17,044	7.03	6.81	6.62	6.52	6.51	6.39	6.30	6.28	6.25
Zero net migration & strong egalitarian policies	1.94	0	7.01	6.69	6.34	6.10	5.93	5.66	5.45	5.32	5.20
Zero net migration & status quo family support policies	1.64	0	7.01	6.63	6.20	5.85	5.55	5.13	4.75	4.44	4.13

Croatia

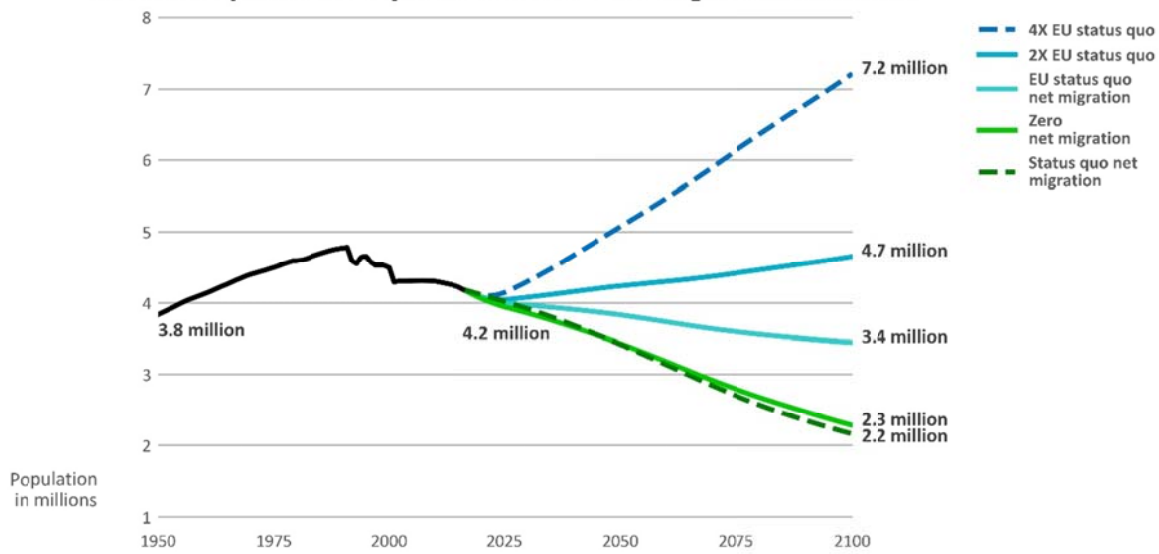
Population in 1950: 3.8 million

Current (2016) population: 4.2 million

Current (2016) total fertility rate: 1.42

Current (2016) net migration level: -22451

20-year average annual net migration (1998-2017): -4,259

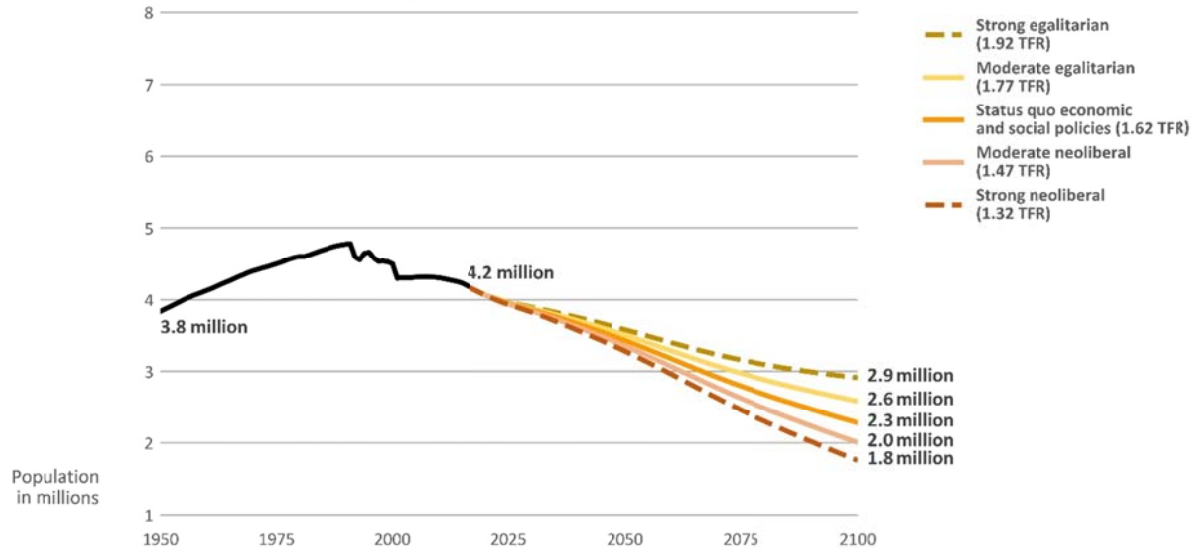
1. A**Croatia Population Projections Under Five Migration Scenarios****1. B****Population in millions**

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.62	Linear increase till 0 by 2100	4.11	3.92	3.68	3.42	3.13	2.84	2.57	2.35	2.16
Zero net migration	1.62	0	4.06	3.86	3.66	3.43	3.17	2.91	2.68	2.47	2.28
EU status quo net migration	1.67	9,970	4.07	3.97	3.91	3.83	3.73	3.64	3.56	3.50	3.45
2X EU status quo net migration	1.72	19,940	4.08	4.08	4.16	4.24	4.30	4.38	4.47	4.56	4.65
4X EU status quo net migration	1.82	39,880	4.11	4.31	4.68	5.07	5.47	5.91	6.35	6.78	7.22

Croatia (continued)

2. A

Croatia Population Projections Under Five Fertility Scenarios



2. B

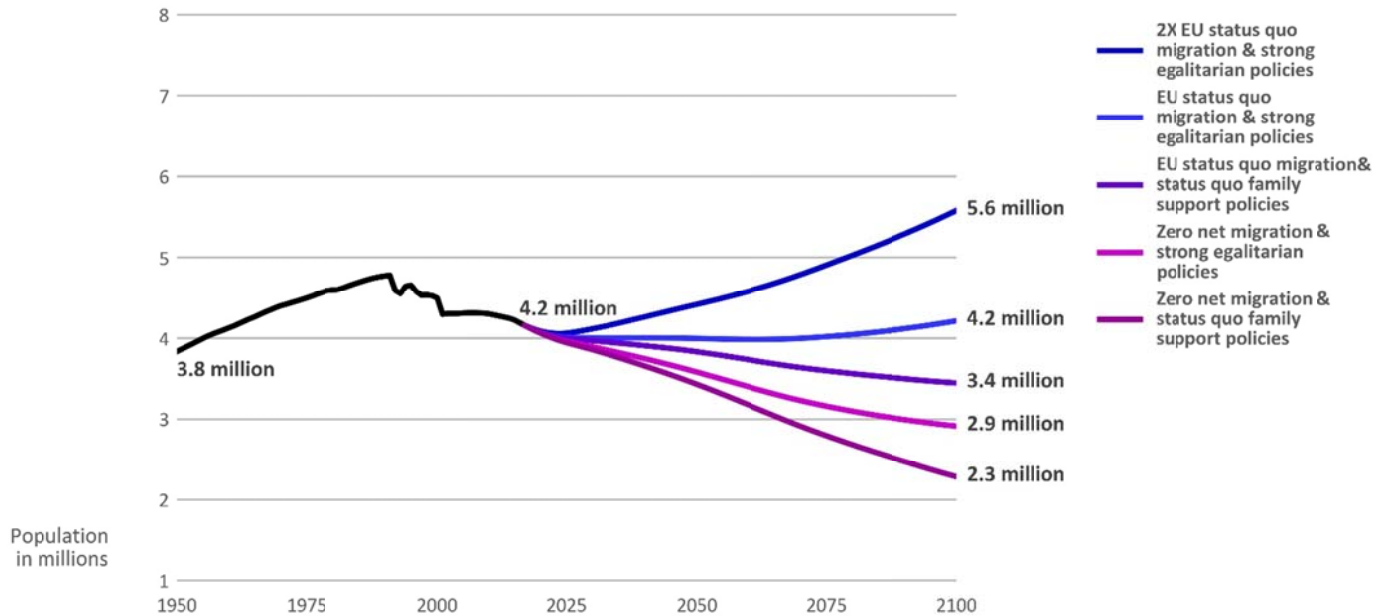
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.32	Linear increase till 0 by 2100	4.11	3.88	3.59	3.27	2.91	2.54	2.20	1.91	1.64
Moderate neo-liberal policy shift	1.47	Linear increase till 0 by 2100	4.11	3.90	3.64	3.34	3.02	2.69	2.38	2.12	1.89
Status quo social and economic policies	1.62	Linear increase till 0 by 2100	4.11	3.92	3.68	3.42	3.13	2.84	2.57	2.35	2.16
Moderate egalitarian policy shift	1.77	Linear increase till 0 by 2100	4.12	3.94	3.73	3.49	3.24	2.99	2.77	2.60	2.46
Strong egalitarian policy shift	1.92	Linear increase till 0 by 2100	4.12	3.95	3.77	3.57	3.36	3.15	2.98	2.86	2.78

Croatia (continued)

3. A

Croatia Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	2.02	19,940	4.09	4.12	4.26	4.42	4.58	4.79	5.03	5.29	5.58
EU status quo net migration & strong egalitarian policies	1.97	9,970	4.08	4.00	4.00	4.00	3.98	4.00	4.05	4.12	4.22
EU status quo net migration & status quo family support policies	1.67	9,970	4.07	3.97	3.91	3.83	3.73	3.64	3.56	3.50	3.45
Zero net migration & strong egalitarian policies	1.92	0	4.07	3.89	3.75	3.58	3.40	3.23	3.09	2.99	2.91
Zero net migration & status quo family support policies	1.62	0	4.06	3.86	3.66	3.43	3.17	2.91	2.68	2.47	2.28

Cyprus

Population in 1950: 0.6 million

Current (2016) population: 0.8 million

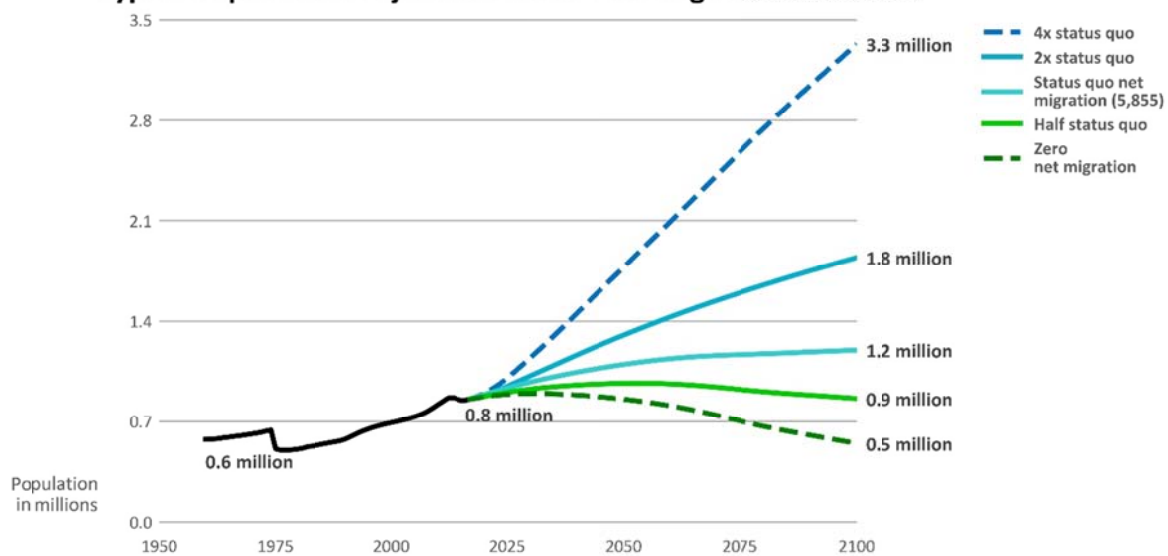
Current (2016) total fertility rate: 1.37

Current (2016) net migration level: 2,499

Status quo annual net migration (20-year average, 1998-2017): 5,855

1. A

Cyprus Population Projections Under Five Migration Scenarios



1. B

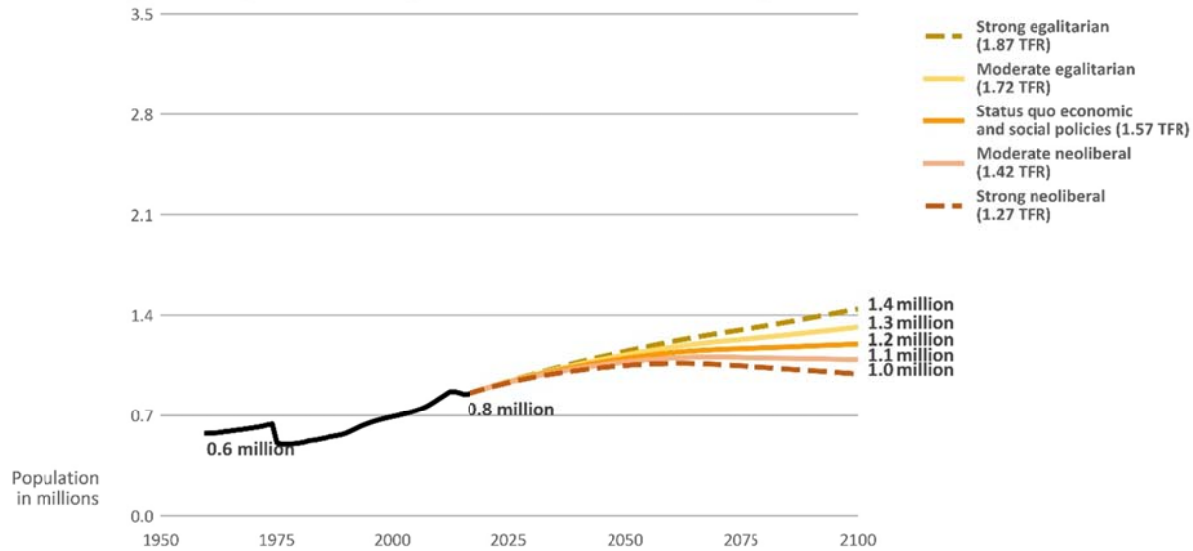
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.52	0	0.87	0.89	0.88	0.85	0.81	0.74	0.67	0.60	0.54
½ status quo net migration	1.54	2,928	0.87	0.92	0.95	0.96	0.96	0.94	0.91	0.88	0.86
Status quo net migration	1.57	5,855	0.89	0.97	1.04	1.10	1.14	1.16	1.17	1.18	1.20
2X status quo net migration	1.62	11,710	0.88	1.02	1.16	1.30	1.43	1.54	1.65	1.75	1.84
4X status quo net migration	1.77	23,421	0.90	1.15	1.46	1.78	2.09	2.42	2.74	3.04	3.33

Cyprus (continued)

2. A

Cyprus Population Projections Under Five Fertility Scenarios



2. B

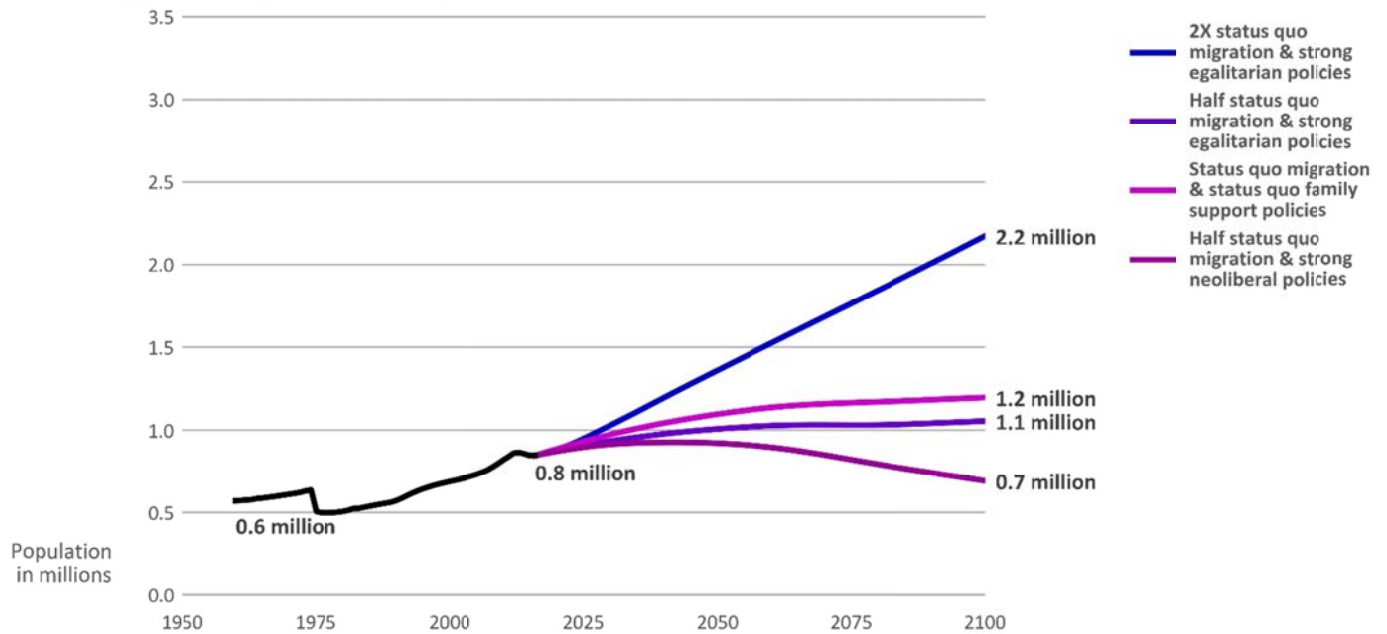
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.27	5,855	0.89	0.96	1.01	1.05	1.06	1.06	1.03	1.01	0.99
Moderate neo-liberal policy shift	1.42	5,855	0.89	0.97	1.03	1.07	1.10	1.11	1.10	1.09	1.09
Status quo social and economic policies	1.57	5,855	0.89	0.97	1.04	1.10	1.14	1.16	1.17	1.18	1.20
Moderate egalitarian policy shift	1.72	5,855	0.89	0.98	1.06	1.12	1.17	1.21	1.24	1.28	1.31
Strong egalitarian policy shift	1.87	5,855	0.89	0.98	1.07	1.15	1.21	1.27	1.32	1.38	1.44

Cyprus (continued)

3. A

Cyprus Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.92	11,710	0.88	1.03	1.20	1.36	1.52	1.68	1.84	2.01	2.17
½ status quo net migration & strong egalitarian policies	1.84	2,928	0.87	0.93	0.98	1.01	1.03	1.03	1.03	1.04	1.06
Status quo net migration & status quo family support policies	1.57	5,855	0.89	0.97	1.04	1.10	1.14	1.16	1.17	1.18	1.20
½ status quo net migration & strong neoliberal policies	1.24	5,855	0.87	0.91	0.93	0.92	0.90	0.85	0.79	0.74	0.69

Czech Republic

Population in 1950: 8.8 million

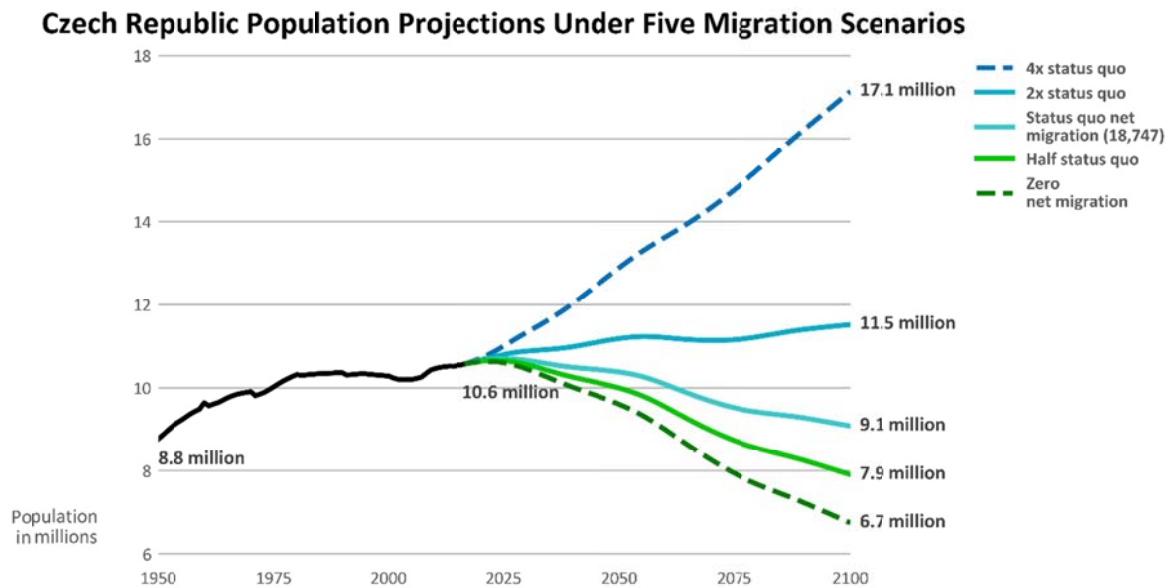
Current (2016) population: 10.6 million

Current (2016) total fertility rate: 1.63

Current (2016) net migration level: 20,064

Status quo annual net migration (20-year average, 1998-2017): 18,747

1. A



1. B

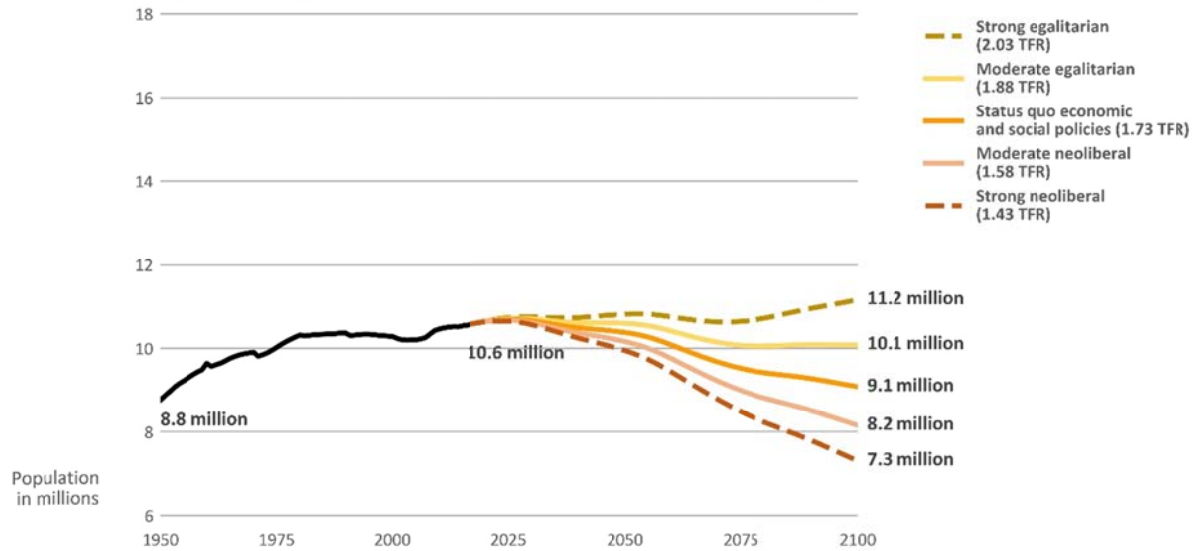
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.68	0	10.62	10.45	10.01	9.60	8.98	8.25	7.67	7.23	6.74
½ status quo net migration	1.70	9,374	10.63	10.55	10.25	9.99	9.53	8.96	8.54	8.25	7.90
Status quo net migration	1.73	18,747	10.64	10.65	10.49	10.38	10.08	9.67	9.41	9.27	9.08
2X status quo net migration	1.78	37,494	10.67	10.88	10.99	11.18	11.20	11.14	11.22	11.40	11.52
4X status quo net migration	1.93	74,988	10.71	11.33	12.03	12.89	13.63	14.35	15.24	16.21	17.14

Czech Republic (continued)

2. A

Czech Republic Population Projections Under Five Fertility Scenarios



2. B

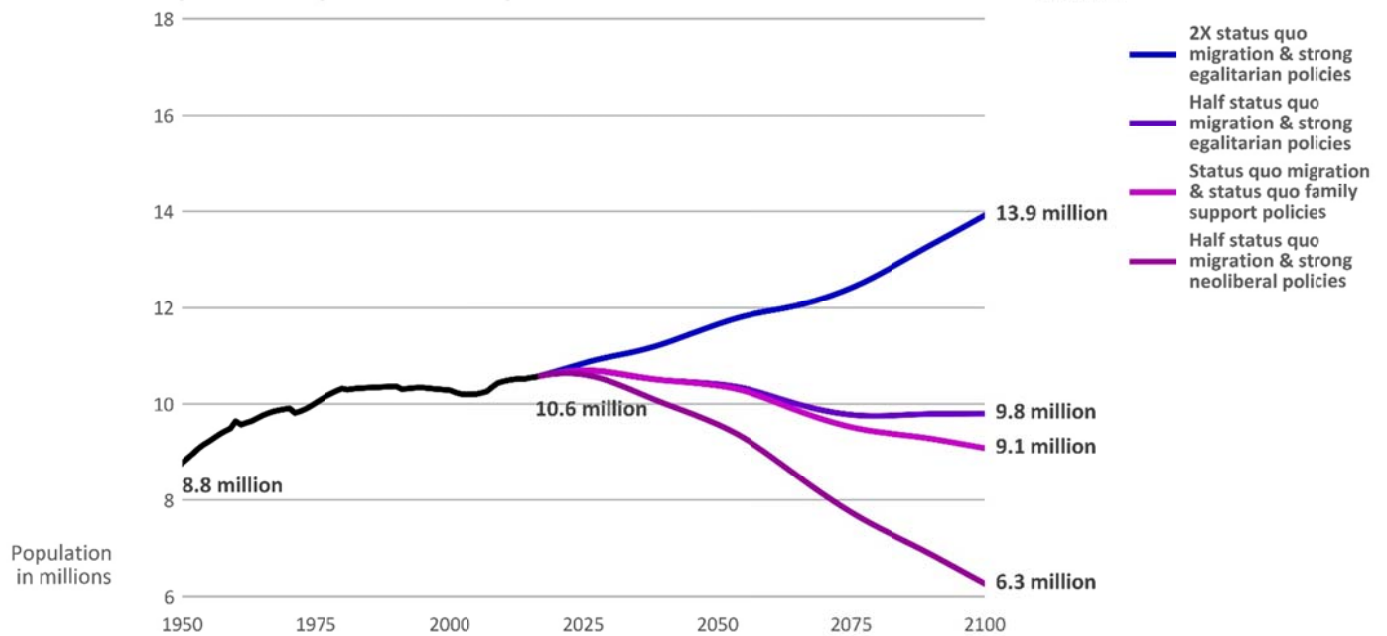
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.43	18,747	10.63	10.56	10.24	9.94	9.43	8.77	8.23	7.80	7.30
Moderate neo-liberal policy shift	1.58	18,747	10.63	10.61	10.36	10.16	9.75	9.21	8.81	8.51	8.15
Status quo social and economic policies	1.73	18,747	10.64	10.65	10.49	10.38	10.08	9.67	9.41	9.27	9.08
Moderate egalitarian policy shift	1.88	18,747	10.65	10.70	10.61	10.59	10.41	10.14	10.05	10.09	10.08
Strong egalitarian policy shift	2.03	18,747	10.65	10.75	10.73	10.81	10.75	10.63	10.72	10.95	11.16

Czech Republic (continued)

3. A

Czech Republic Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.08	37,494	10.68	10.98	11.25	11.65	11.93	12.20	12.68	13.30	13.92
½ status quo net migration & strong egalitarian policies	2.00	9,374	10.64	10.65	10.49	10.41	10.17	9.86	9.75	9.79	9.80
Status quo net migration & status quo family support policies	1.73	18,747	10.64	10.65	10.49	10.38	10.08	9.67	9.41	9.27	9.08
½ status quo net migration & strong neoliberal policies	1.40	9,374	10.62	10.46	10.01	9.57	8.91	8.10	7.43	6.87	6.26

Denmark

Population in 1950: 4.3 million

Current (2016) population: 5.7 million

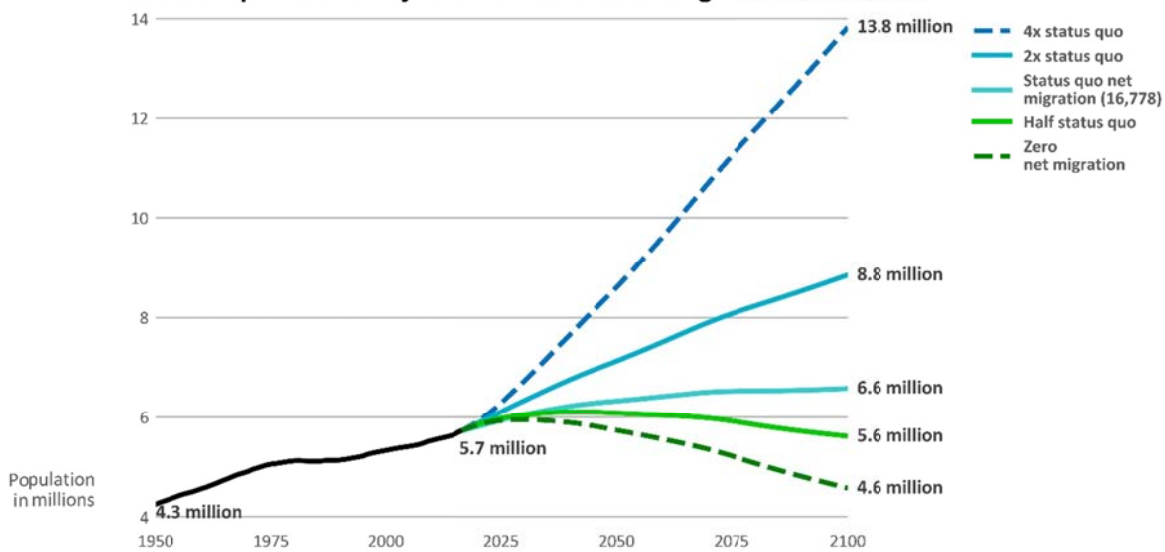
Current (2016) total fertility rate: 1.79

Current (2016) net migration level: 32,728

Status quo annual net migration (20-year average, 1998-2017): 16,778

1. A

Denmark Population Projections Under Five Migration Scenarios



1. B

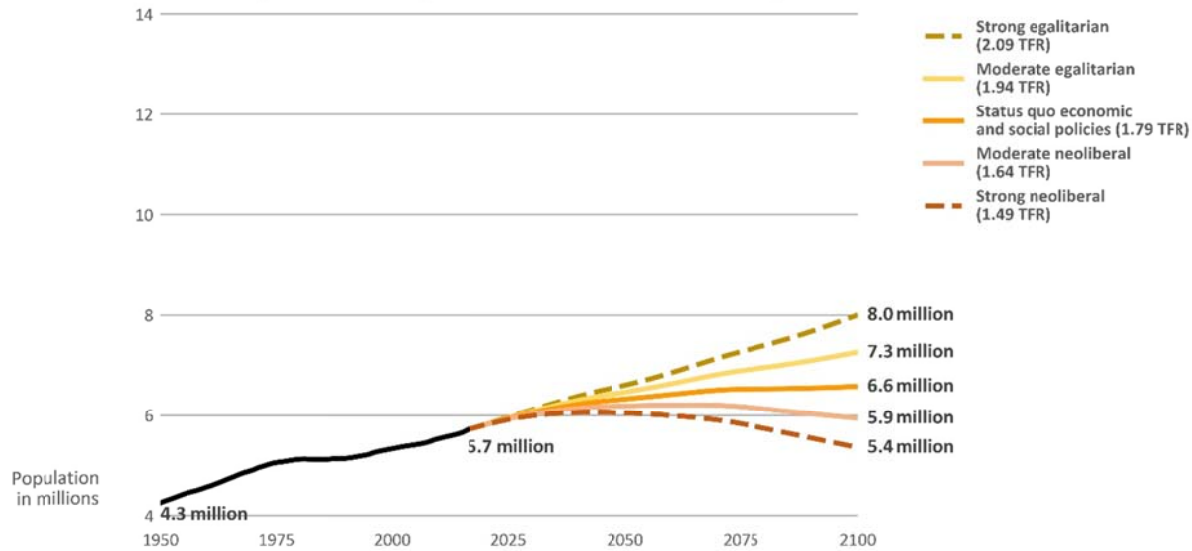
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.74	0	5.84	5.95	5.89	5.74	5.56	5.35	5.08	4.81	4.58
½ status quo net migration	1.76	8,389	5.85	6.04	6.10	6.08	6.04	5.98	5.85	5.72	5.61
Status quo net migration	1.79	16,778	5.81	6.05	6.22	6.32	6.41	6.50	6.52	6.54	6.57
2X status quo net migration	1.84	33,555	5.88	6.33	6.75	7.12	7.51	7.91	8.23	8.53	8.85
4X status quo net migration	1.99	67,111	5.92	6.72	7.67	8.61	9.62	10.72	11.76	12.77	13.82

Denmark (continued)

2. A

Denmark Population Projections Under Five Fertility Scenarios



2. B

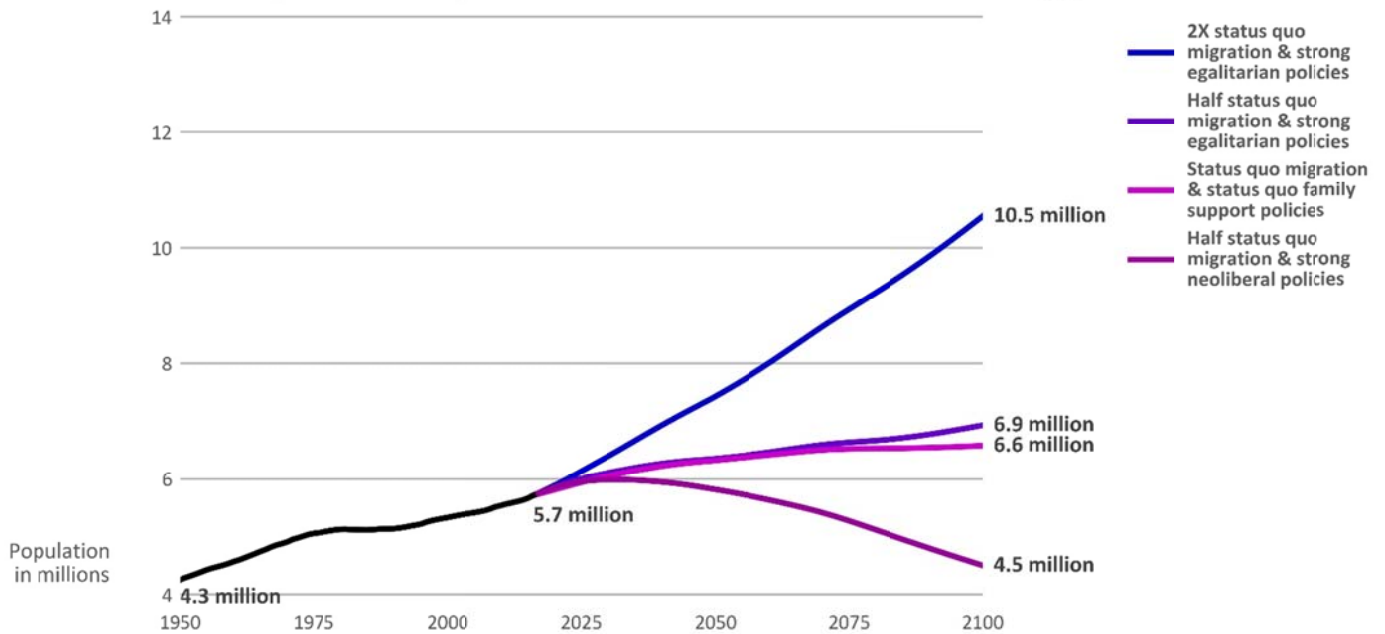
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.49	16,778	5.80	5.99	6.06	6.04	5.99	5.90	5.74	5.55	5.35
Moderate neo-liberal policy shift	1.64	16,778	5.81	6.02	6.14	6.18	6.20	6.19	6.12	6.03	5.94
Status quo social and economic policies	1.79	16,778	5.81	6.05	6.22	6.32	6.41	6.50	6.52	6.54	6.57
Moderate egalitarian policy shift	1.94	16,778	5.81	6.07	6.30	6.46	6.63	6.81	6.95	7.09	7.26
Strong egalitarian policy shift	2.09	16,778	5.81	6.10	6.38	6.60	6.85	7.14	7.39	7.67	8.00

Denmark (continued)

3. A

Denmark Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.14	33,555	5.88	6.39	6.93	7.43	7.99	8.63	9.23	9.85	10.55
½ status quo net migration & strong egalitarian policies	2.06	8,389	5.86	6.10	6.26	6.35	6.46	6.59	6.66	6.77	6.93
Status quo net migration & status quo family support policies	1.79	16,778	5.81	6.05	6.22	6.32	6.41	6.50	6.52	6.54	6.57
½ status quo net migration & strong neoliberal policies	1.46	8,389	5.84	5.98	5.94	5.81	5.64	5.41	5.11	4.80	4.50

Estonia

Population in 1950: 1.1 million

Current (2016) population: 1.3 million

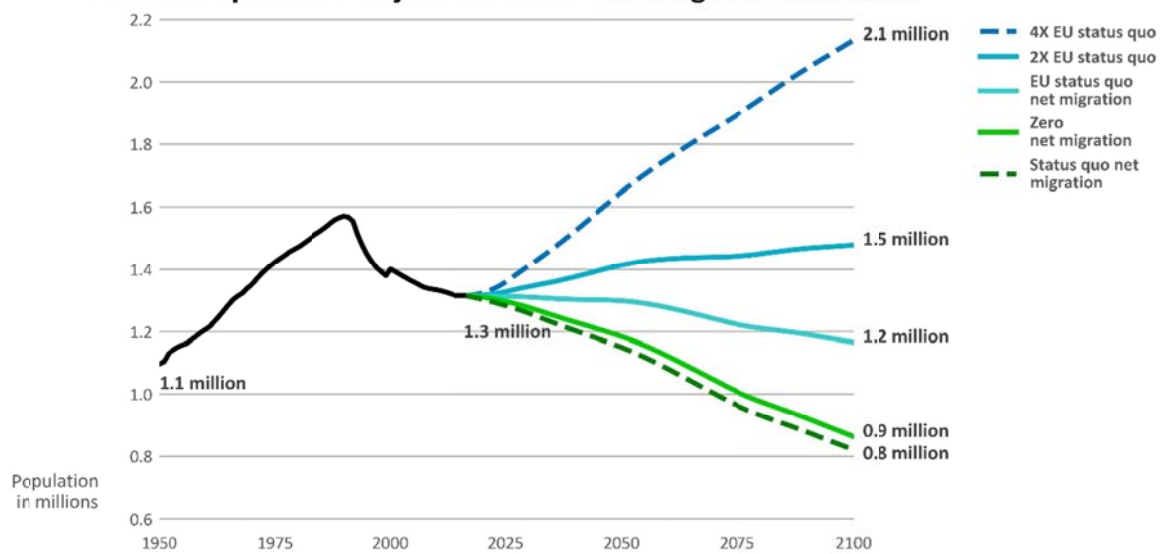
Current (2016) total fertility rate: 1.60

Current (2016) net migration level: 1030

20-year average annual net migration (1998-2017): -942

1. A

Estonia Population Projections Under Five Migration Scenarios



1. B

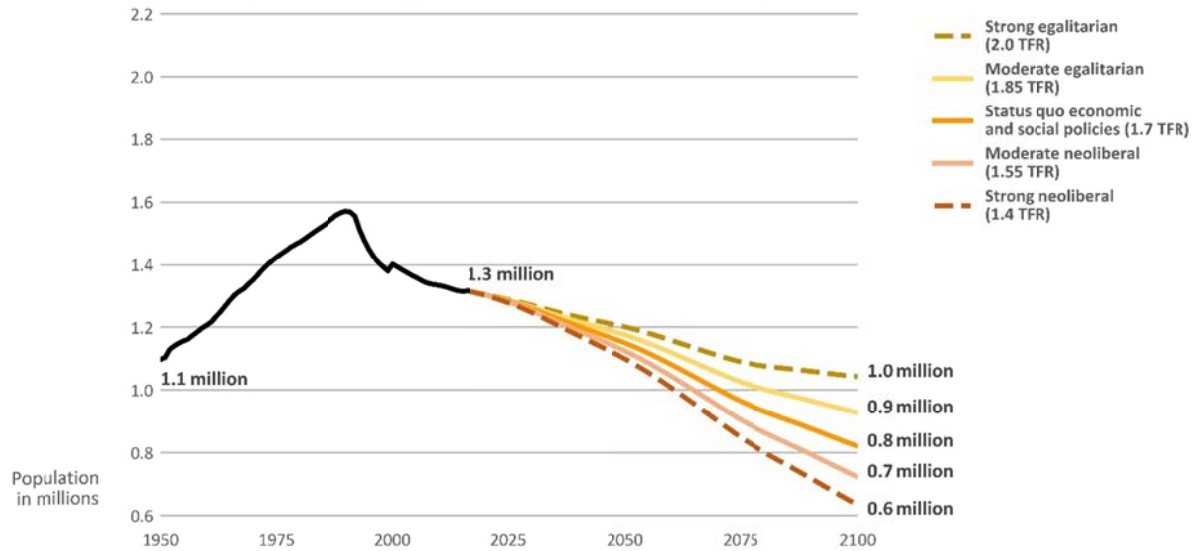
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.70	Linear increase till 0 by 2100	1.30	1.26	1.20	1.15	1.08	1.00	0.93	0.88	0.82
Zero net migration	1.70	0	1.31	1.28	1.23	1.18	1.12	1.04	0.98	0.92	0.86
EU status quo net migration	1.75	3,158	1.31	1.31	1.30	1.30	1.28	1.24	1.21	1.19	1.17
2X EU status quo net migration	1.80	6,315	1.32	1.34	1.38	1.41	1.43	1.44	1.45	1.47	1.48
4X EU status quo net migration	1.90	12,630	1.32	1.41	1.52	1.65	1.75	1.85	1.94	2.04	2.13

Estonia (continued)

2. A

Estonia Population Projections Under Five Fertility Scenarios



2. B

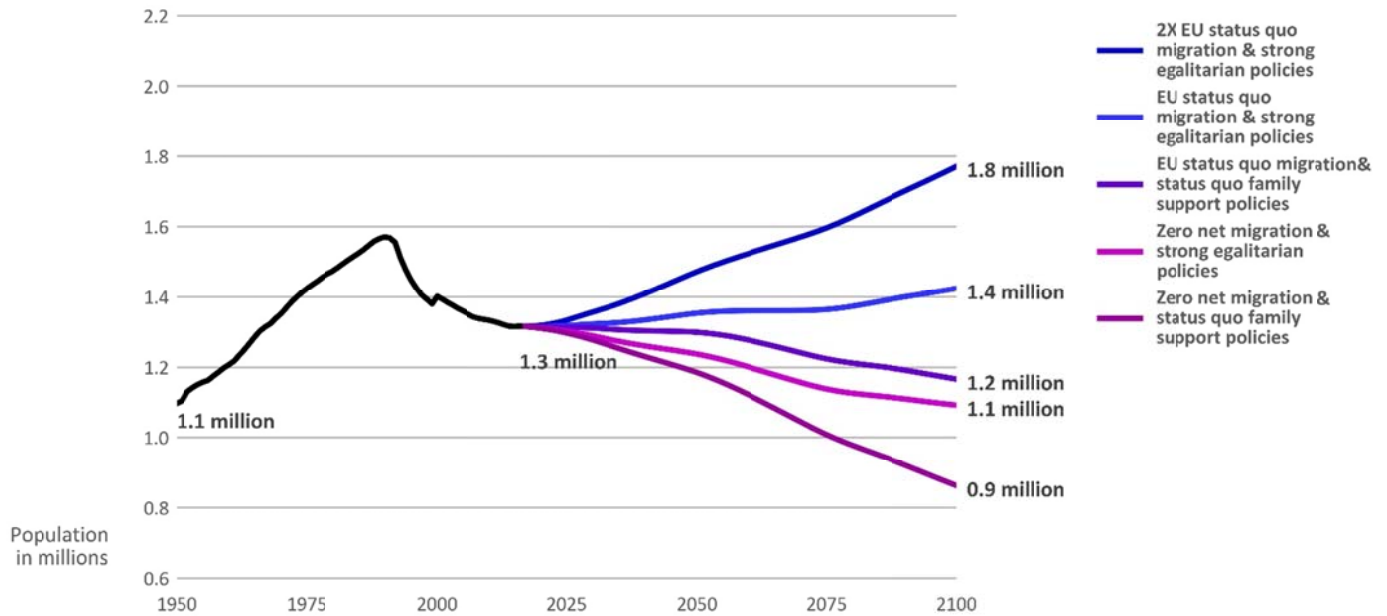
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.40	Linear increase till 0 by 2100	1.30	1.25	1.17	1.10	1.01	0.90	0.80	0.72	0.63
Moderate neo-liberal policy shift	1.55	Linear increase till 0 by 2100	1.30	1.25	1.19	1.12	1.04	0.95	0.87	0.80	0.72
Status quo social and economic policies	1.70	Linear increase till 0 by 2100	1.30	1.26	1.20	1.15	1.08	1.00	0.93	0.88	0.82
Moderate egalitarian policy shift	1.85	Linear increase till 0 by 2100	1.30	1.26	1.22	1.18	1.12	1.05	1.00	0.97	0.93
Strong egalitarian policy shift	2.00	Linear increase till 0 by 2100	1.30	1.27	1.23	1.20	1.16	1.11	1.08	1.06	1.04

Estonia (continued)

3. A

Estonia Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	2.10	6,315	1.32	1.36	1.41	1.47	1.52	1.57	1.63	1.70	1.77
EU status quo net migration & strong egalitarian policies	2.05	3,158	1.31	1.32	1.33	1.35	1.36	1.36	1.37	1.40	1.42
EU status quo net migration & status quo family support policies	1.75	3,158	1.31	1.31	1.30	1.30	1.28	1.24	1.21	1.19	1.17
Zero net migration & strong egalitarian policies	2.00	0	1.31	1.29	1.26	1.24	1.20	1.16	1.13	1.11	1.09
Zero net migration & status quo family support policies	1.70	0	1.31	1.28	1.23	1.18	1.12	1.04	0.98	0.92	0.86

Finland

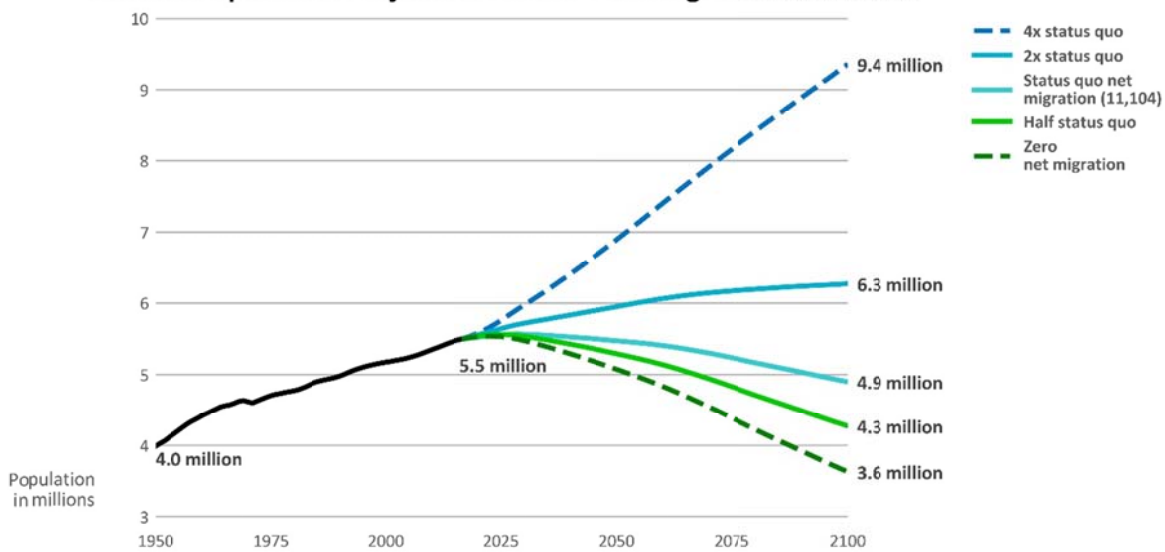
Population in 1950: 4.0 million

Current (2016) population: 5.5 million

Current (2016) total fertility rate: 1.57

Current (2016) net migration level: 17,098

Status quo annual net migration (20-year average, 1998-2017): 11,104

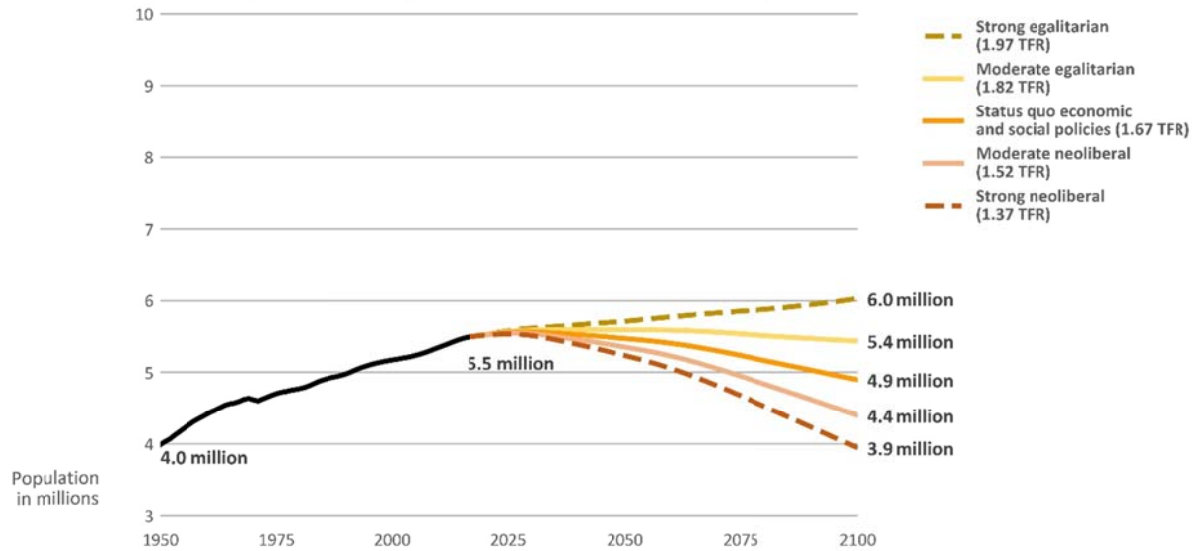
1. A**Finland Population Projections Under Five Migration Scenarios****1. B****Population in millions**

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.62	0	5.53	5.47	5.29	5.07	4.83	4.54	4.23	3.92	3.63
½ status quo net migration	1.64	5,552	5.53	5.53	5.42	5.29	5.13	4.93	4.71	4.49	4.27
Status quo net migration	1.67	11,104	5.52	5.56	5.52	5.47	5.40	5.30	5.16	5.03	4.90
2X status quo net migration	1.72	22,208	5.55	5.72	5.83	5.95	6.06	6.14	6.19	6.24	6.27
4X status quo net migration	1.87	44,415	5.58	5.97	6.41	6.89	7.41	7.92	8.41	8.89	9.36

Finland (continued)

2. A

Finland Population Projections Under Five Fertility Scenarios



2. B

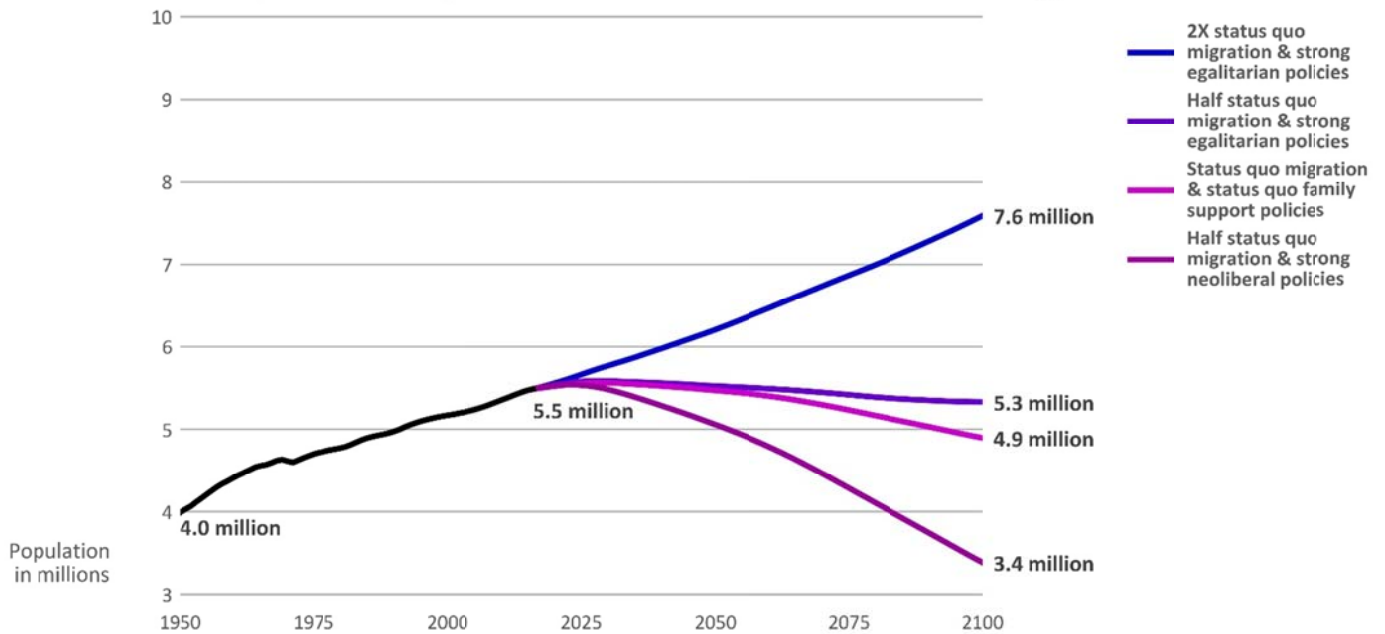
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.37	11,104	5.52	5.51	5.38	5.23	5.05	4.80	4.52	4.24	3.94
Moderate neo-liberal policy shift	1.52	11,104	5.52	5.54	5.45	5.35	5.22	5.05	4.83	4.62	4.40
Status quo social and economic policies	1.67	11,104	5.52	5.56	5.52	5.47	5.40	5.30	5.16	5.03	4.90
Moderate egalitarian policy shift	1.82	11,104	5.52	5.59	5.59	5.59	5.59	5.56	5.51	5.47	5.44
Strong egalitarian policy shift	1.97	11,104	5.53	5.61	5.66	5.71	5.77	5.83	5.88	5.94	6.03

Finland (continued)

3. A

Finland Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.02	22,208	5.56	5.77	5.98	6.21	6.47	6.73	7.00	7.28	7.59
½ status quo net migration & strong egalitarian policies	1.94	5,552	5.54	5.58	5.56	5.52	5.49	5.45	5.39	5.35	5.33
Status quo net migration & status quo family support policies	1.67	11,104	5.52	5.56	5.52	5.47	5.40	5.30	5.16	5.03	4.90
½ status quo net migration & strong neoliberal policies	1.34	5,552	5.53	5.48	5.28	5.06	4.79	4.46	4.10	3.74	3.38

France

Population in 1950: 41.6 million

Current (2016) population: 66.7 million

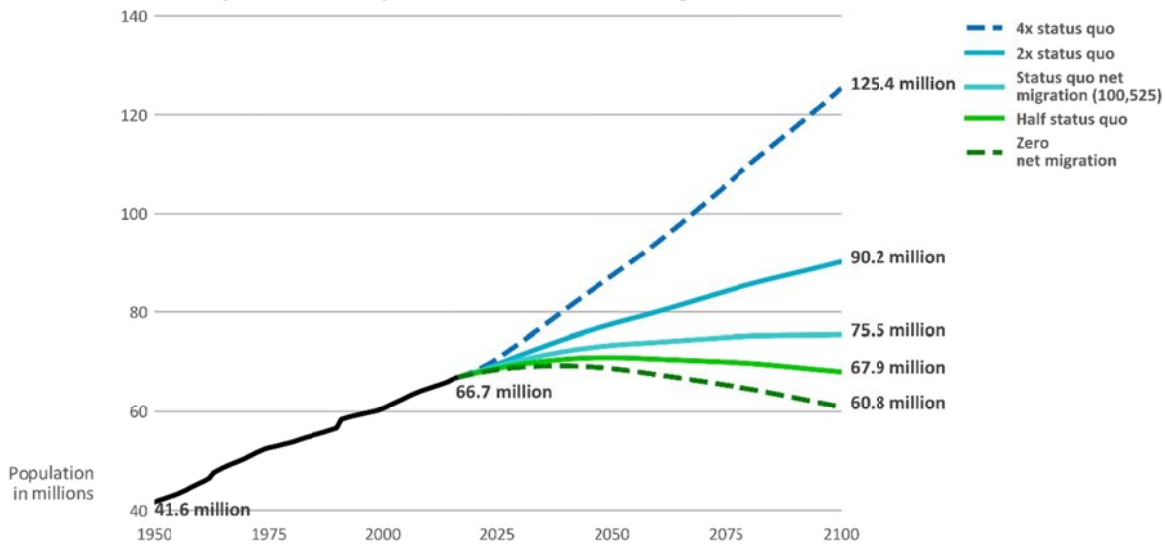
Current (2016) total fertility rate: 1.92

Current (2016) net migration level: 68,310

Status quo annual net migration (20-year average, 1998-2017): 100,525

1. A

France Population Projections Under Five Migration Scenarios



1. B

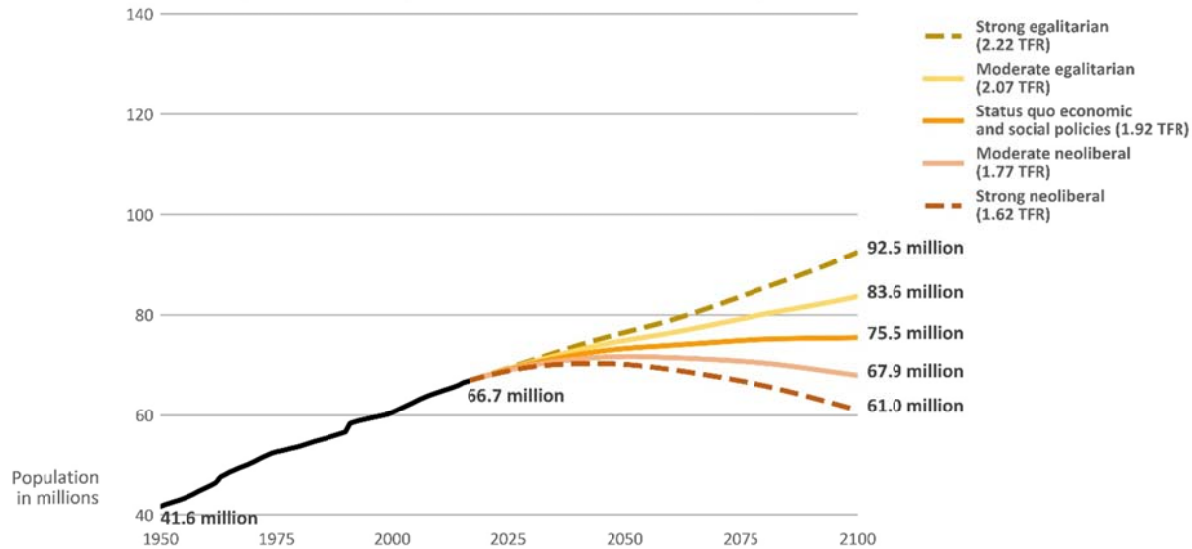
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.87	0	67.59	68.89	69.14	68.60	67.35	65.96	64.49	62.68	60.80
½ status quo net migration	1.90	50,263	67.64	69.48	70.52	70.82	70.50	70.12	69.65	68.83	67.95
Status quo net migration	1.92	100,525	67.80	70.27	72.10	73.27	73.91	74.56	75.12	75.31	75.46
2X status quo net migration	1.97	201,051	67.82	71.29	74.68	77.55	80.08	82.84	85.55	87.87	90.20
4X status quo net migration	2.12	402,101	68.06	73.82	80.64	87.33	94.18	101.89	109.77	117.41	125.45

France (continued)

2. A

France Population Projections Under Five Fertility Scenarios



2. B

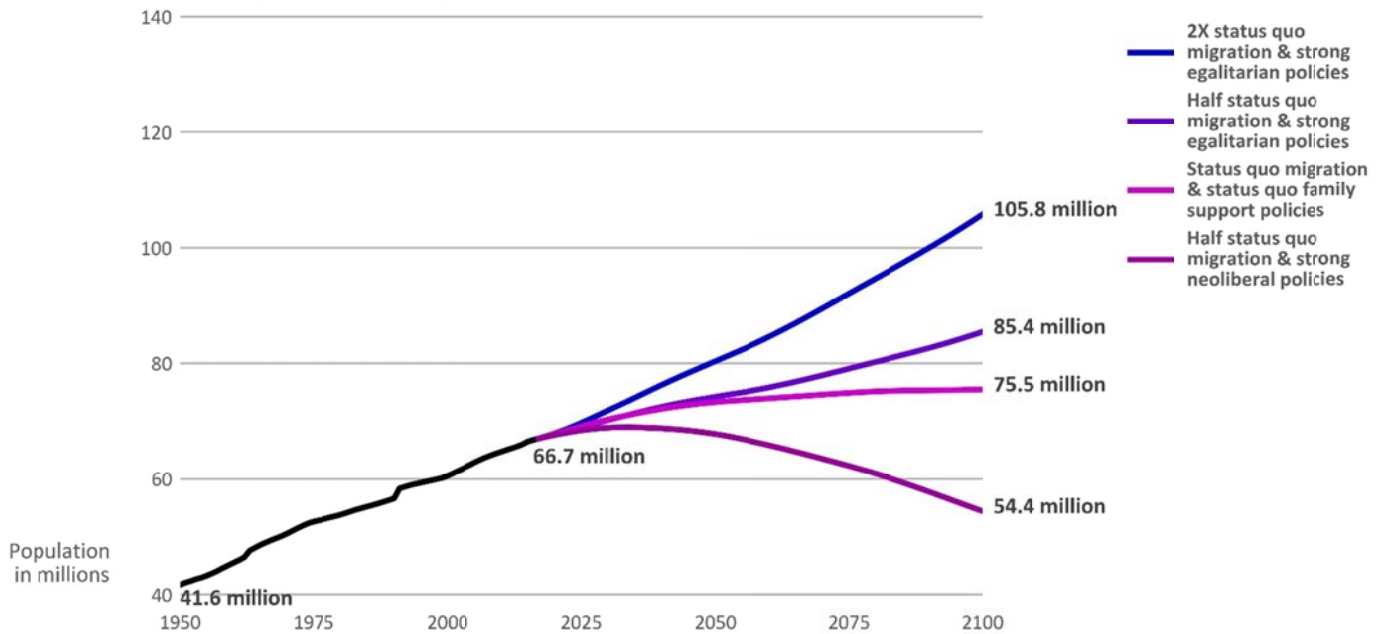
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.62	100,525	67.74	69.63	70.28	70.11	69.07	67.61	65.87	63.56	60.97
Moderate neo-liberal policy shift	1.77	100,525	67.77	69.95	71.19	71.68	71.46	71.02	70.37	69.24	67.91
Status quo social and economic policies	1.92	100,525	67.80	70.27	72.10	73.27	73.91	74.56	75.12	75.31	75.46
Moderate egalitarian policy shift	2.07	100,525	67.83	70.59	73.02	74.87	76.40	78.22	80.10	81.78	83.64
Strong egalitarian policy shift	2.22	100,525	67.86	70.91	73.93	76.47	78.94	82.02	85.33	88.68	92.50

France (continued)

3. A

France Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.27	201,051	67.87	71.83	76.25	80.34	84.51	89.48	94.72	99.99	105.80
½ status quo net migration & strong egalitarian policies	2.20	50,263	67.71	70.17	72.45	74.19	75.77	77.89	80.24	82.62	85.43
Status quo net migration & status quo family support policies	1.92	100,525	67.80	70.27	72.10	73.27	73.91	74.56	75.12	75.31	75.46
½ status quo net migration & strong neoliberal policies	1.60	50,263	67.58	68.85	68.74	67.74	65.83	63.46	60.85	57.74	54.36

Germany

Population in 1950: 69.3 million

Current (2016) population: 82.2 million

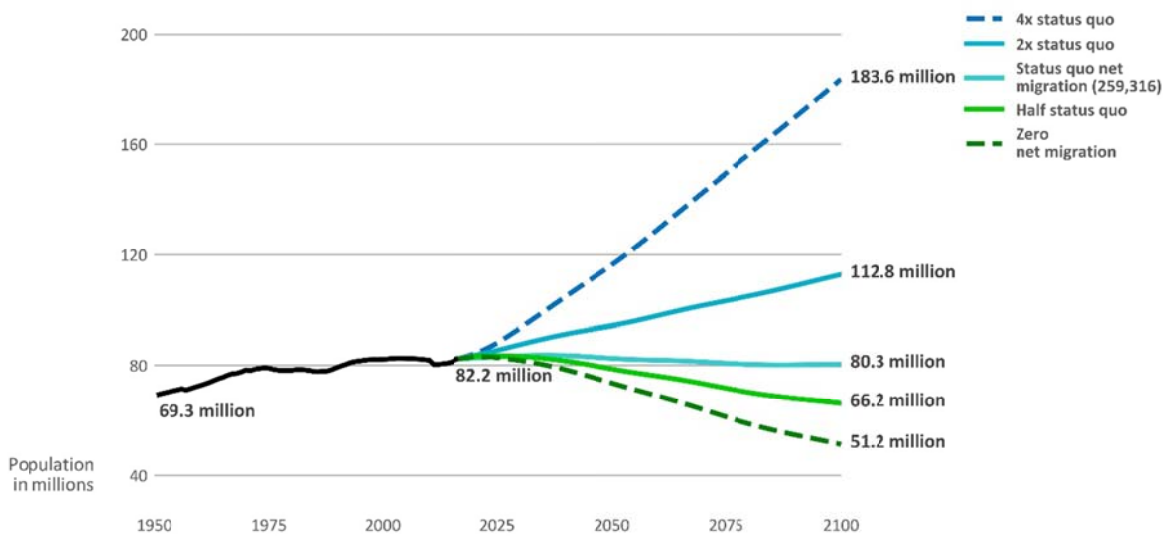
Current (2016) total fertility rate: 1.60

Current (2016) net migration level: 464,734

Status quo annual net migration (20-year average, 1998-2017): 259,316

1. A

Germany Population Projections Under Five Migration Scenarios



1. B

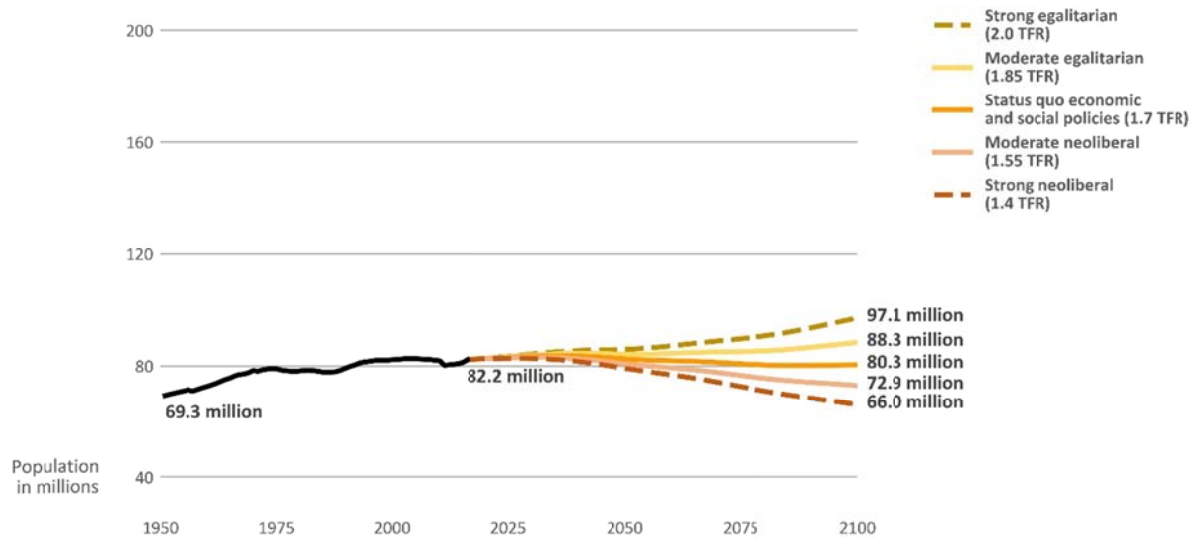
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.65	0	82.99	81.70	78.28	73.45	68.80	63.87	58.74	54.69	51.22
½ status quo net migration	1.67	129,658	83.13	83.14	81.50	78.60	75.98	73.17	70.07	67.89	66.20
Status quo net migration	1.70	259,316	82.62	83.43	83.47	82.46	81.84	81.19	80.30	80.14	80.32
2X status quo net migration	1.75	518,631	83.55	87.47	91.27	94.25	97.89	101.65	104.96	108.74	112.82
4X status quo net migration	1.90	1,037,263	84.12	93.42	104.92	116.36	129.16	142.88	156.23	169.72	183.64

Germany (continued)

2. A

Germany Population Projections Under Five Fertility Scenarios



2. B

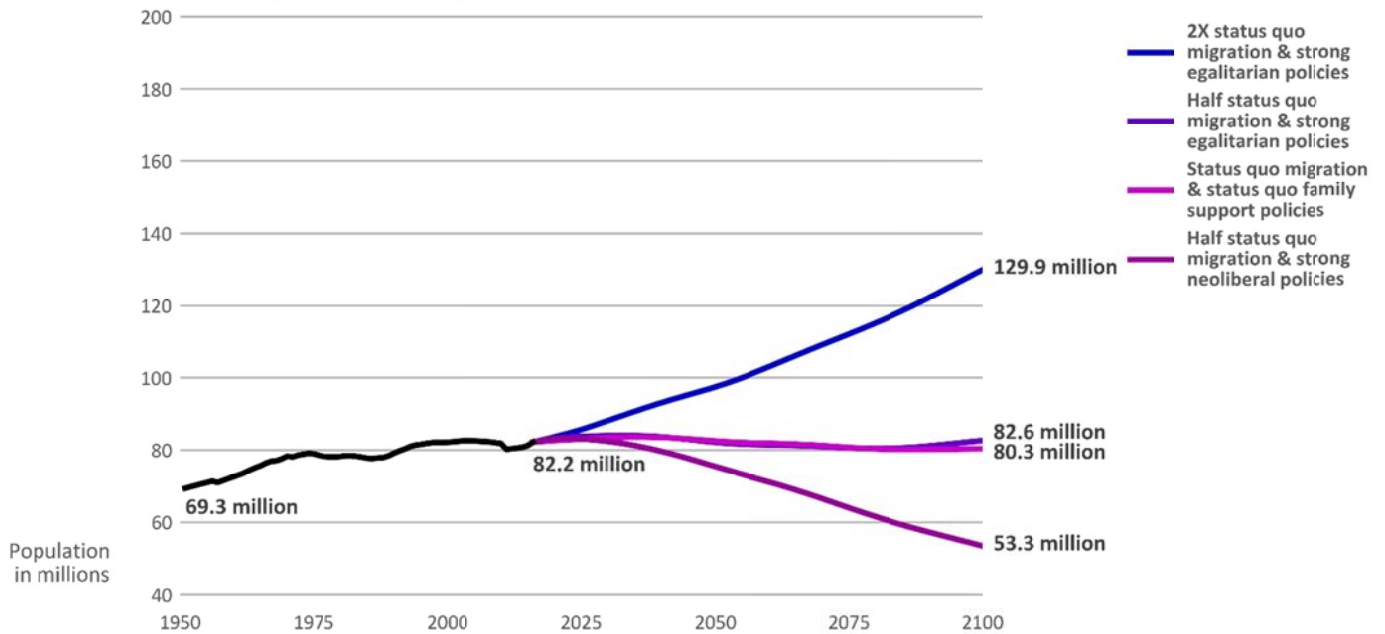
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.40	259,316	82.55	82.67	81.49	79.11	76.76	74.05	70.95	68.39	66.03
Moderate neo-liberal policy shift	1.55	259,316	82.58	83.05	82.48	80.78	79.27	77.56	75.51	74.08	72.90
Status quo social and economic policies	1.70	259,316	82.62	83.43	83.47	82.46	81.84	81.19	80.30	80.14	80.32
Moderate egalitarian policy shift	1.85	259,316	82.66	83.81	84.46	84.15	84.44	84.94	85.32	86.58	88.34
Strong egalitarian policy shift	2.00	259,316	82.69	84.19	85.45	85.87	87.13	88.87	90.66	93.53	97.12

Germany (continued)

3. A

Germany Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.05	518,631	83.61	88.14	93.10	97.45	102.95	109.13	115.21	122.17	129.94
½ status quo net migration & strong egalitarian policies	1.97	129,658	83.21	83.96	83.60	82.12	81.41	80.95	80.41	81.10	82.60
Status quo net migration & status quo family support policies	1.70	259,316	82.62	83.43	83.47	82.46	81.84	81.19	80.30	80.14	80.32
½ status quo net migration & strong neoliberal policies	1.37	129,658	83.05	82.37	79.56	75.38	71.15	66.48	61.44	57.18	53.34

Greece

Population in 1950: 7.6 million

Current (2016) population: 10.8 million

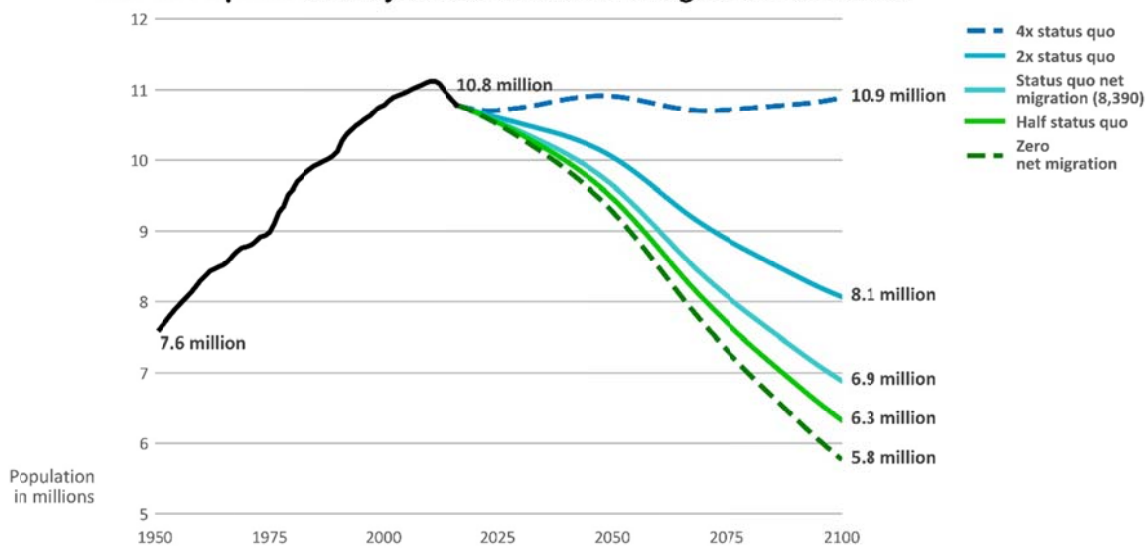
Current (2016) total fertility rate: 1.38

Current (2016) net migration level: 10,332

Status quo annual net migration (20-year average, 1998-2017): 8,390

1. A

Greece Population Projections Under Five Migration Scenarios



1. B

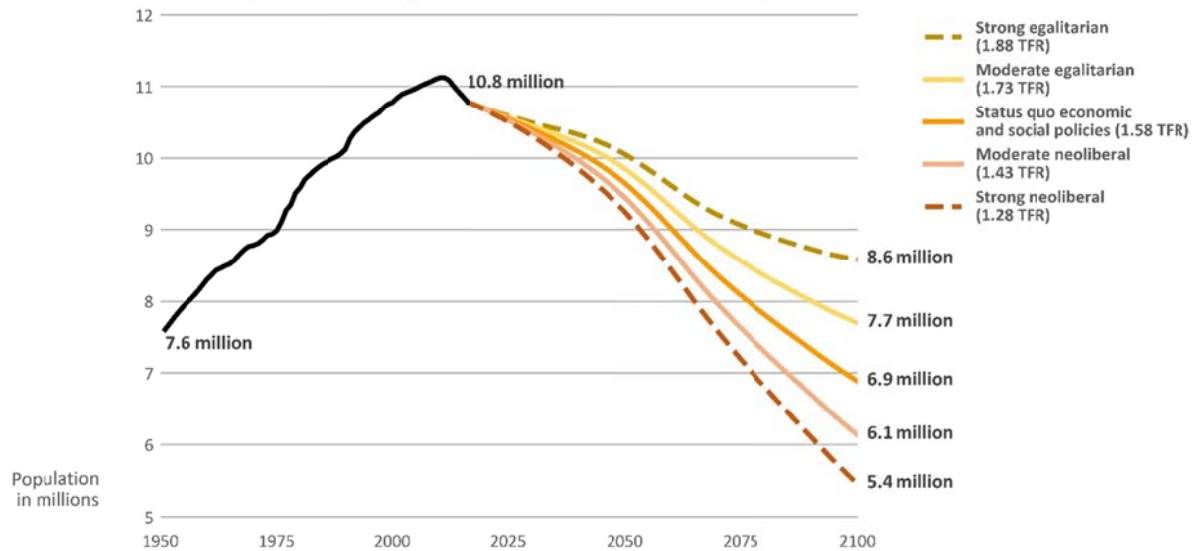
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.53	0	10.68	10.31	9.86	9.28	8.49	7.68	6.98	6.35	5.76
½ status quo net migration	1.56	4,195	10.68	10.36	9.98	9.47	8.76	8.02	7.41	6.84	6.32
Status quo net migration	1.58	8,390	10.68	10.40	10.09	9.65	9.01	8.36	7.82	7.33	6.88
2X status quo net migration	1.63	16,780	10.70	10.52	10.34	10.05	9.57	9.08	8.71	8.37	8.07
4X status quo net migration	1.78	33,560	10.72	10.74	10.87	10.91	10.79	10.70	10.74	10.79	10.89

Greece (continued)

2. A

Greece Population Projections Under Five Fertility Scenarios



2. B

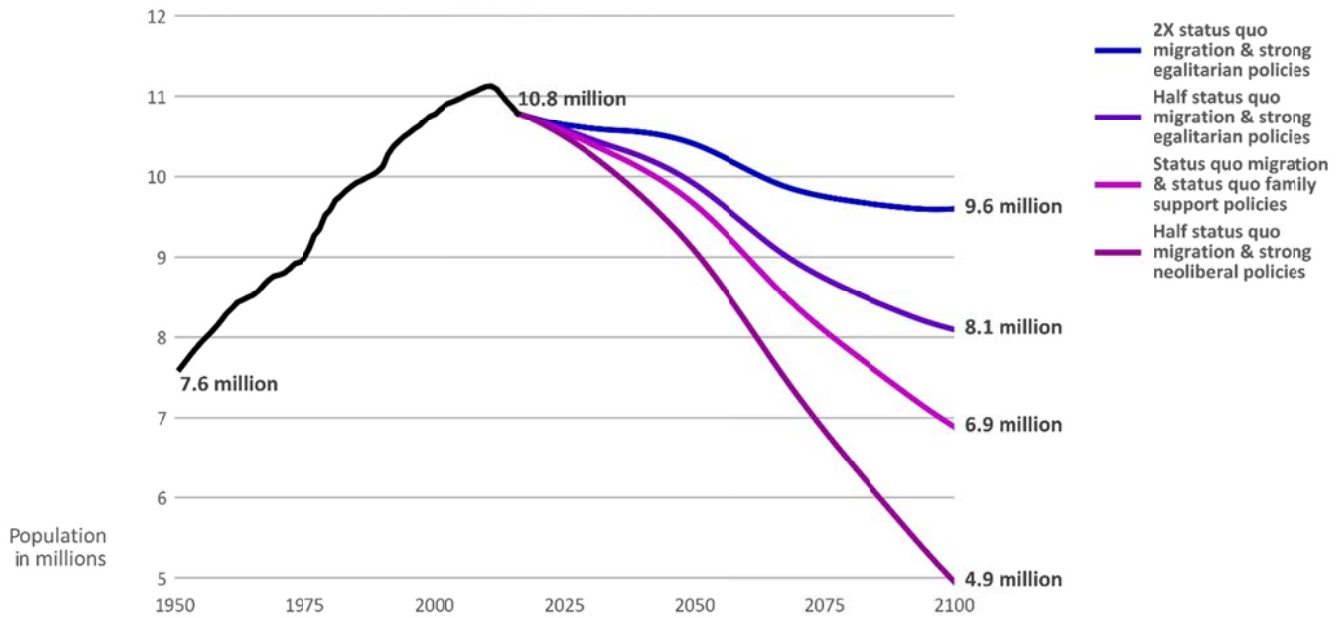
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.28	8,390	10.67	10.31	9.84	9.25	8.44	7.57	6.82	6.11	5.45
Moderate neo-liberal policy shift	1.43	8,390	10.68	10.36	9.96	9.45	8.72	7.96	7.31	6.70	6.13
Status quo social and economic policies	1.58	8,390	10.68	10.40	10.09	9.65	9.01	8.36	7.82	7.33	6.88
Moderate egalitarian policy shift	1.73	8,390	10.69	10.45	10.21	9.85	9.31	8.77	8.37	8.01	7.70
Strong egalitarian policy shift	1.88	8,390	10.69	10.50	10.33	10.05	9.61	9.20	8.94	8.73	8.58

Greece (continued)

3. A

Greece Population Projections Under Four Combined Scenarios



3. C

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.93	16,780	10.71	10.60	10.54	10.40	10.09	9.82	9.69	9.61	9.60
½ status quo net migration & strong egalitarian policies	1.86	4,195	10.69	10.46	10.24	9.90	9.40	8.92	8.58	8.31	8.09
Status quo net migration & status quo family support policies	1.58	8,390	10.68	10.40	10.09	9.65	9.01	8.36	7.82	7.33	6.88
½ status quo net migration & strong neoliberal policies	1.26	4,195	10.67	10.27	9.74	9.07	8.19	7.26	6.43	5.67	4.95

Hungary

Population in 1950: 9.3 million

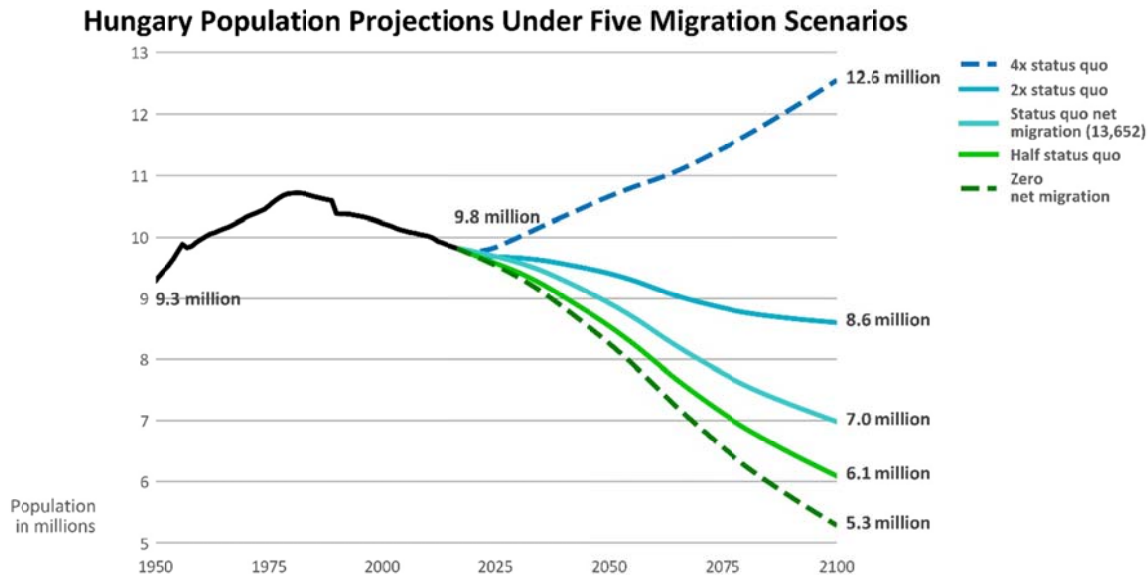
Current (2016) population: 9.8 million

Current (2016) total fertility rate: 1.53

Current (2016) net migration level: -1,187

Status quo annual net migration (20-year average, 1998-2017): 13,652

1. A



1. B

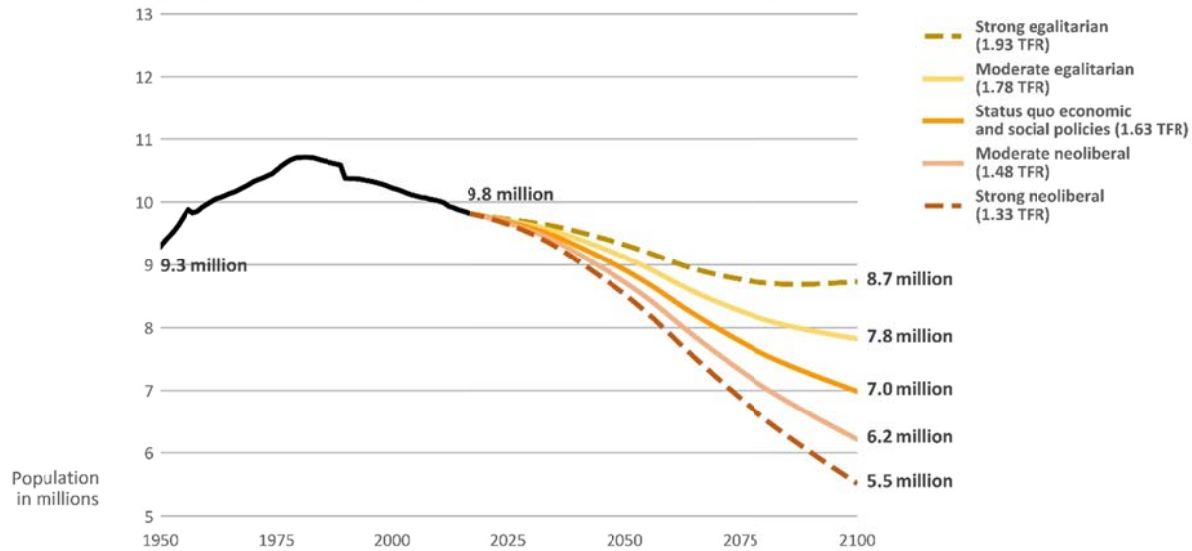
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.58	0	9.71	9.34	8.84	8.26	7.57	6.87	6.26	5.75	5.28
½ status quo net migration	1.61	6,826	9.72	9.42	9.02	8.54	7.96	7.38	6.87	6.46	6.09
Status quo net migration	1.63	13,652	9.77	9.58	9.29	8.92	8.45	7.98	7.58	7.26	6.98
2X status quo net migration	1.68	27,304	9.74	9.66	9.56	9.41	9.16	8.93	8.77	8.67	8.60
4X status quo net migration	1.83	54,608	9.77	10.00	10.33	10.66	10.93	11.25	11.64	12.09	12.56

Hungary (continued)

2. A

Hungary Population Projections Under Five Fertility Scenarios



2. B

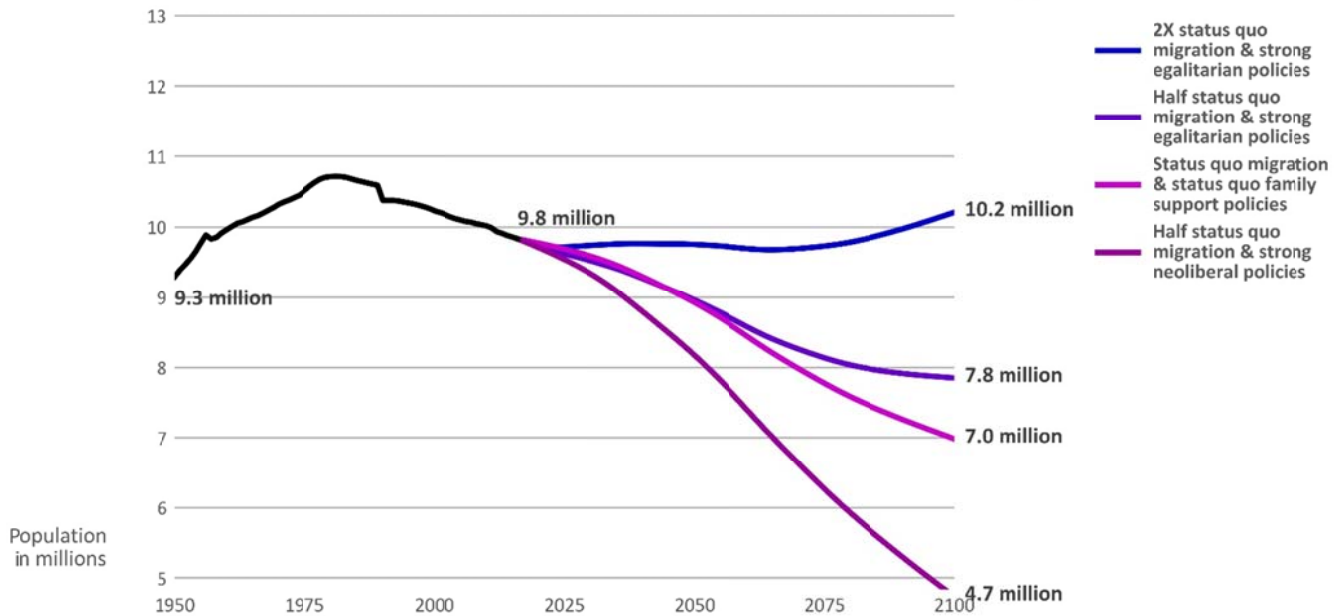
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.33	13,652	9.76	9.49	9.06	8.53	7.87	7.19	6.55	6.01	5.51
Moderate neo-liberal policy shift	1.48	13,652	9.77	9.54	9.17	8.72	8.16	7.58	7.05	6.61	6.21
Status quo social and economic policies	1.63	13,652	9.77	9.58	9.29	8.92	8.45	7.98	7.58	7.26	6.98
Moderate egalitarian policy shift	1.78	13,652	9.77	9.63	9.41	9.12	8.75	8.40	8.13	7.95	7.82
Strong egalitarian policy shift	1.93	13,652	9.78	9.68	9.53	9.32	9.06	8.84	8.71	8.69	8.73

Hungary (continued)

3. A

Hungary Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.98	27,304	9.75	9.74	9.76	9.75	9.69	9.69	9.79	9.97	10.21
½ status quo net migration & strong egalitarian policies	1.91	6,826	9.73	9.52	9.27	8.96	8.59	8.26	8.03	7.91	7.85
Status quo net migration & status quo family support policies	1.63	13,652	9.77	9.58	9.29	8.92	8.45	7.98	7.58	7.26	6.98
½ status quo net migration & strong neoliberal policies	1.31	6,826	9.71	9.34	8.79	8.17	7.41	6.63	5.92	5.30	4.73

Ireland

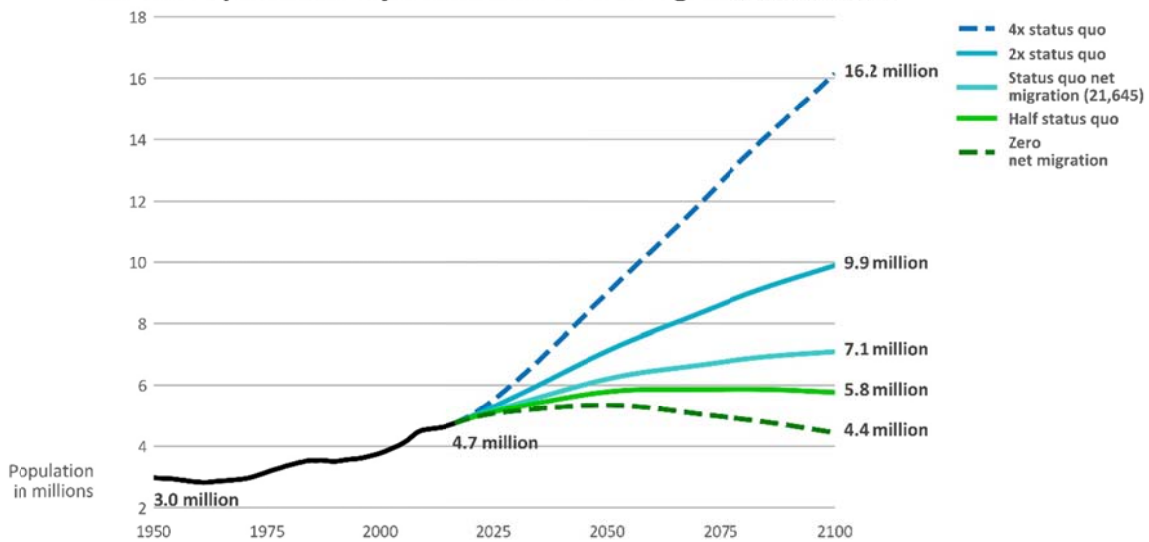
Population in 1950: 3.0 million

Current (2016) population: 4.7 million

Current (2016) total fertility rate: 1.81

Current (2016) net migration level: 24,801

Status quo annual net migration (20-year average, 1998-2017): 21,645

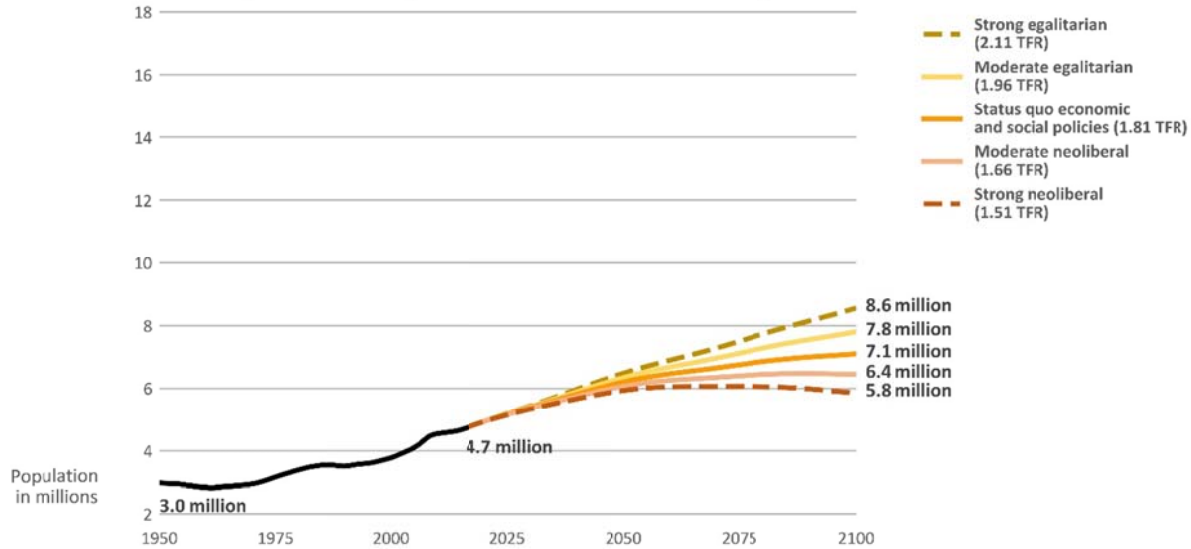
1. A**Ireland Population Projections Under Five Migration Scenarios****1. B****Population in millions**

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.76	0	4.92	5.16	5.29	5.34	5.25	5.06	4.89	4.68	4.44
½ status quo net migration	1.78	10,822	4.93	5.28	5.56	5.78	5.86	5.86	5.87	5.84	5.77
Status quo net migration	1.81	21,645	4.93	5.38	5.82	6.20	6.46	6.65	6.85	6.99	7.09
2X status quo net migration	1.86	43,290	4.96	5.64	6.39	7.11	7.74	8.32	8.91	9.42	9.89
4X status quo net migration	2.01	86,580	5.01	6.14	7.54	8.99	10.42	11.87	13.36	14.77	16.15

Ireland (continued)

2. A

Ireland Population Projections Under Five Fertility Scenarios



2. B

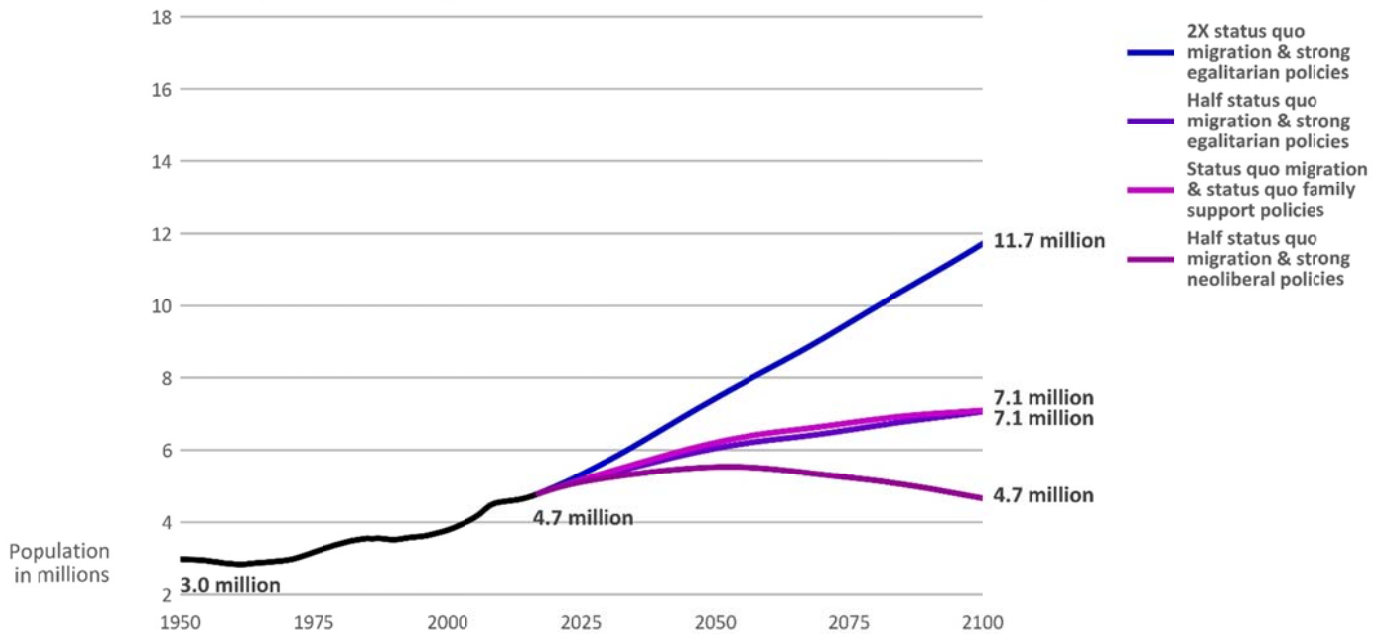
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.51	21,645	4.93	5.33	5.66	5.93	6.05	6.05	6.05	5.98	5.84
Moderate neo-liberal policy shift	1.66	21,645	4.93	5.36	5.74	6.06	6.25	6.35	6.44	6.47	6.44
Status quo social and economic policies	1.81	21,645	4.93	5.38	5.82	6.20	6.46	6.65	6.85	6.99	7.09
Moderate egalitarian policy shift	1.96	21,645	4.93	5.41	5.89	6.34	6.68	6.96	7.28	7.55	7.80
Strong egalitarian policy shift	2.11	21,645	4.94	5.44	5.97	6.48	6.89	7.28	7.73	8.14	8.55

Ireland (continued)

3. A

Ireland Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.16	43,290	4.97	5.70	6.56	7.43	8.24	9.07	9.96	10.83	11.71
½ status quo net migration & strong egalitarian policies	2.08	10,822	4.93	5.33	5.71	6.04	6.27	6.44	6.67	6.87	7.06
Status quo net migration & status quo family support policies	1.81	21,645	4.93	5.38	5.82	6.20	6.46	6.65	6.85	6.99	7.09
½ status quo net migration & strong neoliberal policies	1.48	10,822	4.92	5.23	5.41	5.52	5.48	5.31	5.14	4.92	4.65

Italy

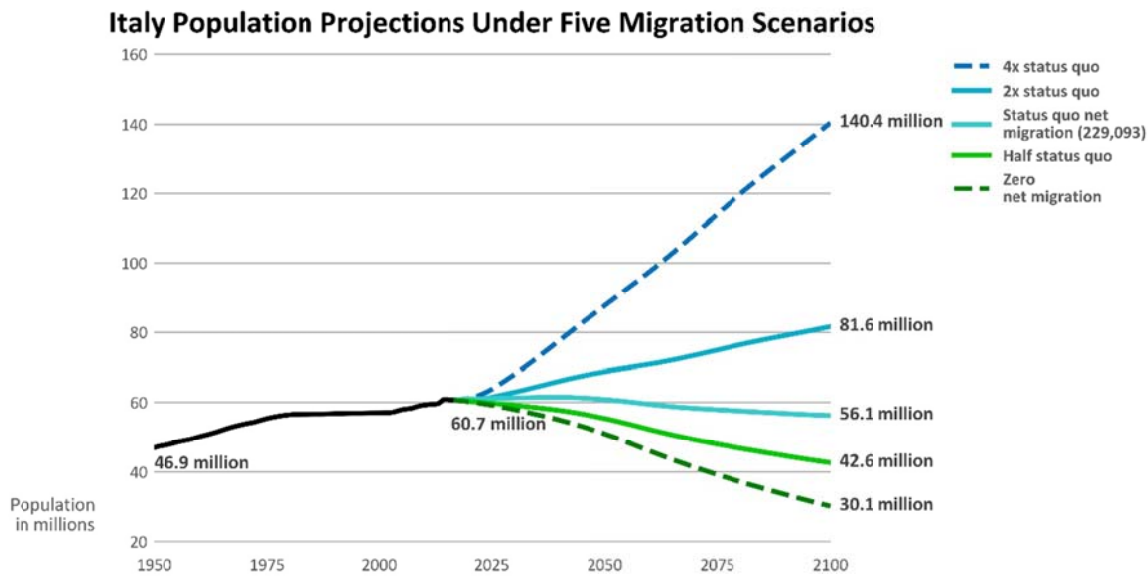
Population in 1950: 46.9 million

Current (2016) population: 60.7 million

Current (2016) total fertility rate: 1.34

Current (2016) net migration level: 65,717

Status quo annual net migration (20-year average, 1998-2017): 229,093

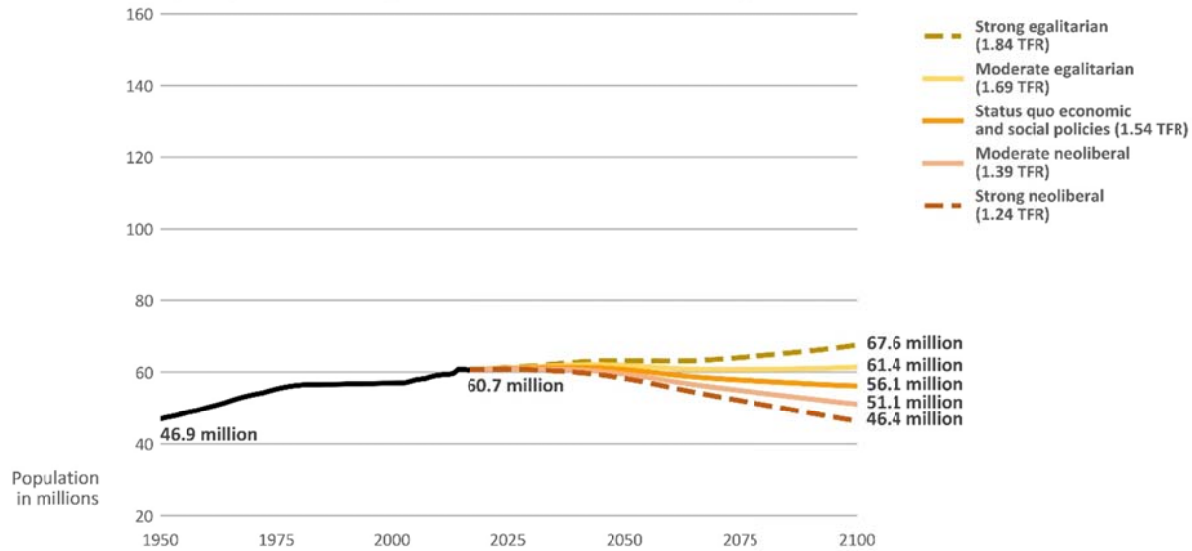
1. A**1. B****Population in millions**

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.49	0	60.13	57.84	54.81	50.82	45.92	41.23	37.16	33.47	30.10
½ status quo net migration	1.52	114,547	60.25	59.08	57.59	55.25	52.07	49.15	46.77	44.59	42.61
Status quo net migration	1.54	229,093	60.88	61.21	61.37	60.73	59.34	58.20	57.44	56.72	56.15
2X status quo net migration	1.59	458,186	60.62	62.82	66.00	68.71	70.84	73.43	76.37	79.02	81.59
4X status quo net migration	1.74	916,372	61.12	67.93	77.71	87.67	97.54	108.42	119.65	130.14	140.42

Italy (continued)

2. A

Italy Population Projections Under Five Fertility Scenarios



2. B

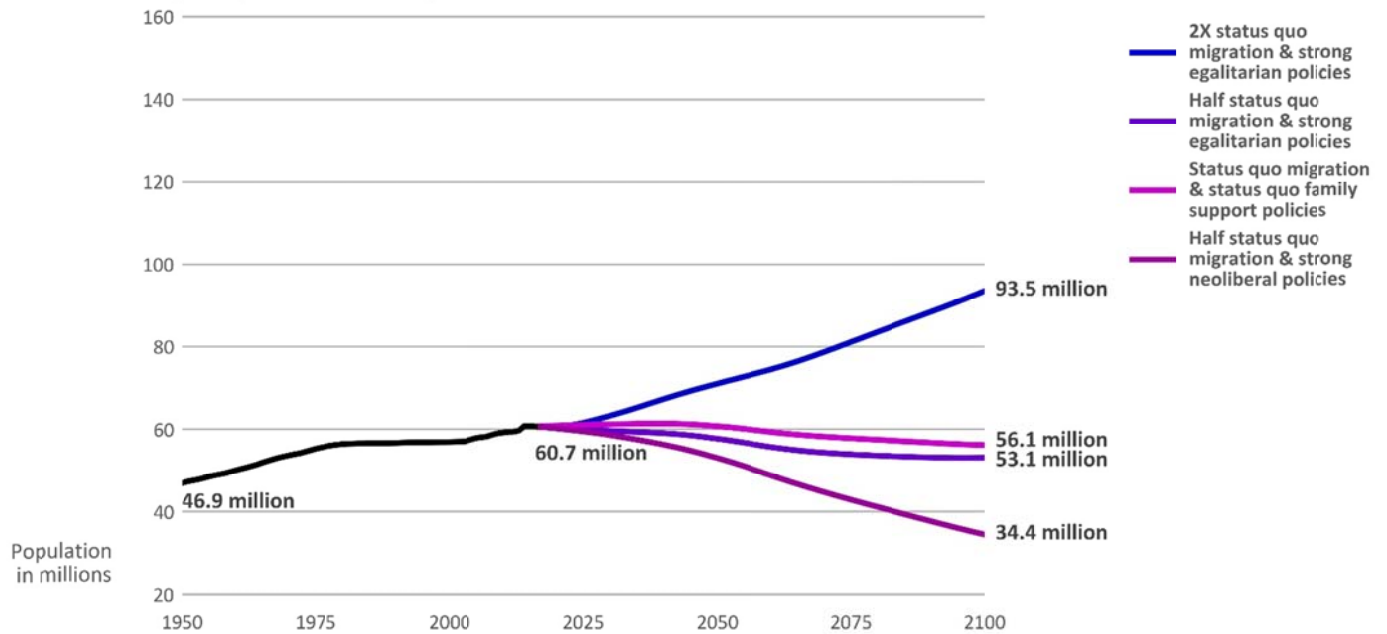
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.24	229,093	60.83	60.69	59.91	58.26	55.71	53.16	50.87	48.58	46.37
Moderate neo-liberal policy shift	1.39	229,093	60.86	60.95	60.64	59.50	57.51	55.64	54.08	52.53	51.07
Status quo social and economic policies	1.54	229,093	60.88	61.21	61.37	60.73	59.34	58.20	57.44	56.72	56.15
Moderate egalitarian policy shift	1.69	229,093	60.90	61.45	62.04	61.89	61.09	60.72	60.82	61.01	61.44
Strong egalitarian policy shift	1.84	229,093	60.94	61.74	62.82	63.22	63.09	63.59	64.68	65.95	67.58

Italy (continued)

3. A

Italy Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.89	458,186	60.66	63.26	67.31	71.04	74.44	78.71	83.63	88.46	93.51
½ status quo net migration & strong egalitarian policies	1.82	114,547	60.31	59.62	59.04	57.69	55.71	54.30	53.59	53.17	53.11
Status quo net migration & status quo family support policies	1.54	229,093	60.88	61.21	61.37	60.73	59.34	58.20	57.44	56.72	56.15
½ status quo net migration & strong neoliberal policies	1.22	114,547	60.20	58.58	56.25	53.01	48.84	44.73	41.10	37.68	34.44

Latvia

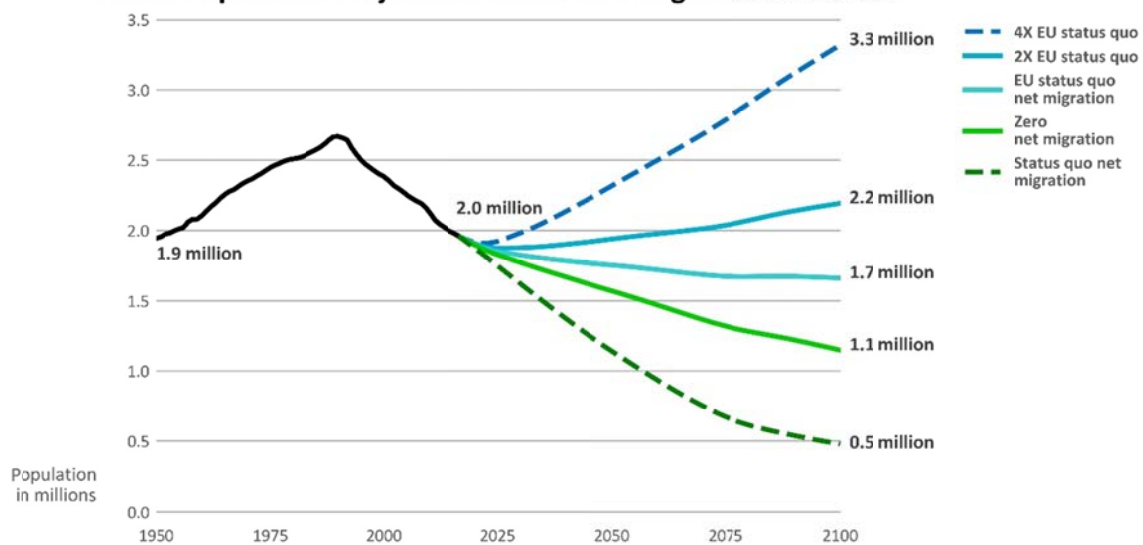
Population in 1950: 1.9 million

Current (2016) population: 2.0 million

Current (2016) total fertility rate: 1.74

Current (2016) net migration level: -12,229

20-year average annual net migration (1998-2017): -14,362

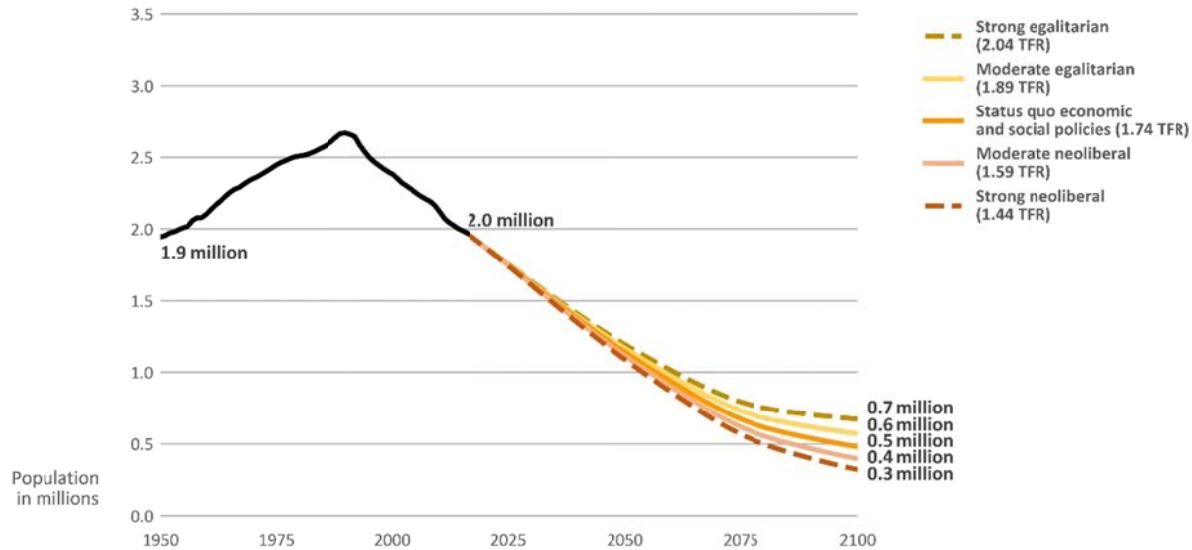
1. A**Latvia Population Projections Under Five Migration Scenarios****1. B****Population in millions**

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.74	Linear increase till 0 by 2100	1.87	1.62	1.37	1.14	0.93	0.75	0.62	0.54	0.48
Zero net migration	1.74	0	1.90	1.77	1.67	1.57	1.47	1.36	1.28	1.22	1.15
EU status quo net migration	1.79	4,680	1.90	1.82	1.78	1.75	1.72	1.68	1.67	1.67	1.66
2X EU status quo net migration	1.84	9,361	1.91	1.88	1.90	1.94	1.98	2.01	2.07	2.14	2.19
4X EU status quo net migration	1.94	18,721	1.92	1.98	2.14	2.32	2.50	2.69	2.90	3.12	3.32

Latvia (continued)

2. A

Latvia Population Projections Under Five Fertility Scenarios



2. B

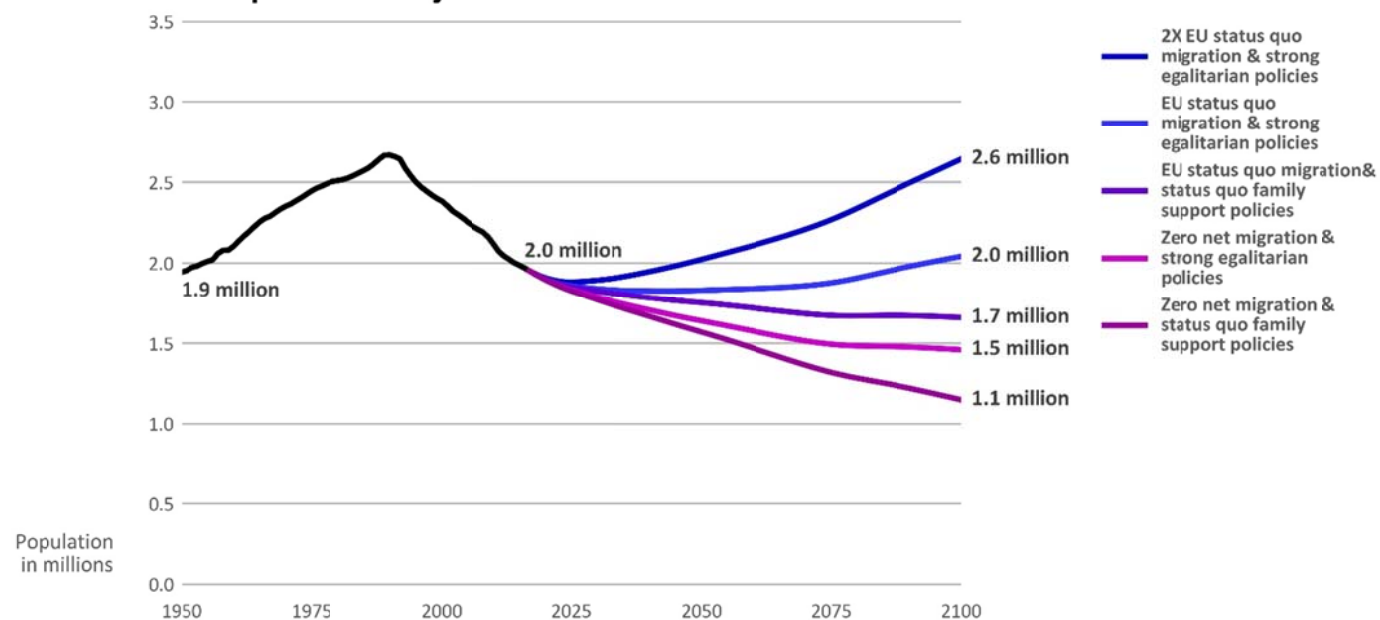
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.44	Linear increase till 0 by 2100	1.87	1.61	1.34	1.09	0.86	0.65	0.50	0.40	0.32
Moderate neo-liberal policy shift	1.59	Linear increase till 0 by 2100	1.87	1.61	1.35	1.11	0.90	0.70	0.55	0.47	0.40
Status quo social and economic policies	1.74	Linear increase till 0 by 2100	1.87	1.62	1.37	1.14	0.93	0.75	0.62	0.54	0.48
Moderate egalitarian policy shift	1.89	Linear increase till 0 by 2100	1.87	1.63	1.39	1.17	0.97	0.80	0.68	0.62	0.57
Strong egalitarian policy shift	2.04	Linear increase till 0 by 2100	1.87	1.63	1.40	1.19	1.01	0.85	0.75	0.70	0.67

Latvia (continued)

3. A

Latvia Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	2.14	9,361	1.91	1.89	1.95	2.02	2.11	2.21	2.34	2.49	2.64
EU status quo net migration & strong egalitarian policies	2.09	4,680	1.90	1.84	1.83	1.83	1.84	1.86	1.91	1.98	2.04
EU status quo net migration & status quo family support policies	1.79	4,680	1.90	1.82	1.78	1.75	1.72	1.68	1.67	1.67	1.66
Zero net migration & strong egalitarian policies	2.04	0	1.90	1.79	1.71	1.64	1.58	1.51	1.48	1.48	1.46
Zero net migration & status quo family support policies	1.74	0	1.90	1.77	1.67	1.57	1.47	1.36	1.28	1.22	1.15

Lithuania

Population in 1950: 2.6 million

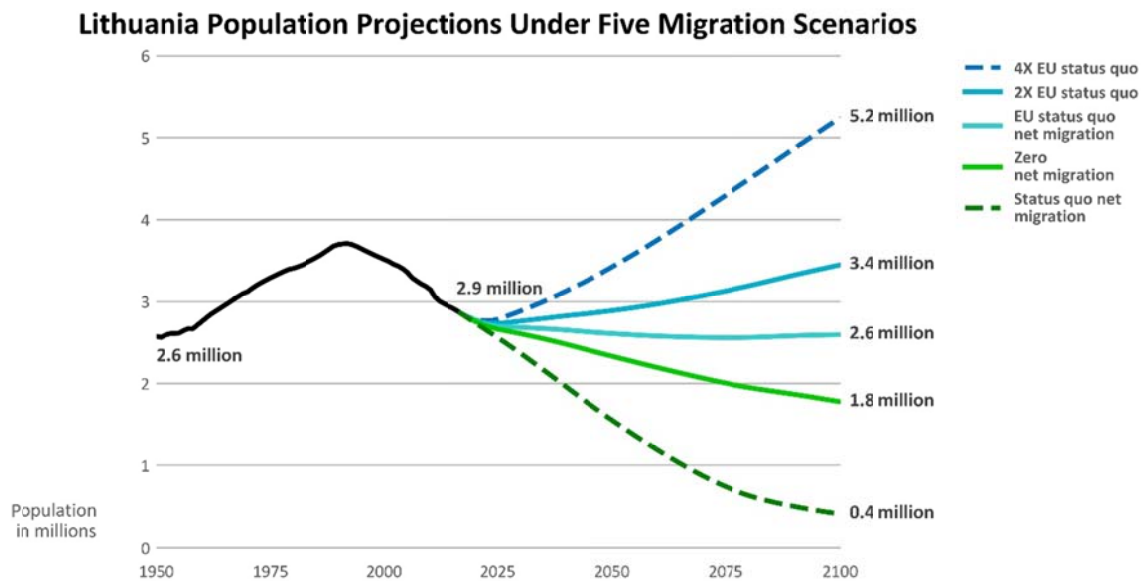
Current (2016) population: 2.9 million

Current (2016) total fertility rate: 1.69

Current (2016) net migration level: -30,171

20-year average annual net migration (1998-2017): -27,212

1. A



1. B

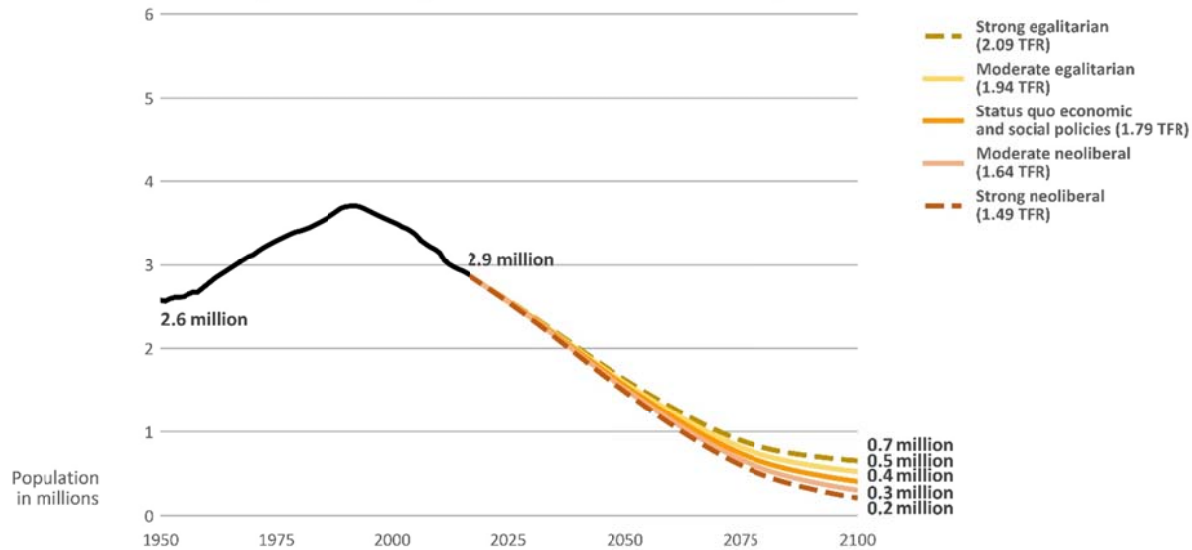
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.79	Linear increase till 0 by 2100	2.74	2.37	1.96	1.55	1.19	0.87	0.63	0.50	0.41
Zero net migration	1.79	0	2.76	2.61	2.48	2.33	2.19	2.06	1.95	1.87	1.78
EU status quo net migration	1.84	6,835	2.77	2.68	2.65	2.61	2.58	2.56	2.56	2.58	2.59
2X EU status quo net migration	1.89	13,670	2.77	2.76	2.83	2.89	2.97	3.07	3.19	3.32	3.45
4X EU status quo net migration	1.99	27,340	2.78	2.88	3.13	3.42	3.75	4.11	4.48	4.87	5.25

Lithuania (continued)

2. A

Lithuania Population Projections Under Five Fertility Scenarios



2. B

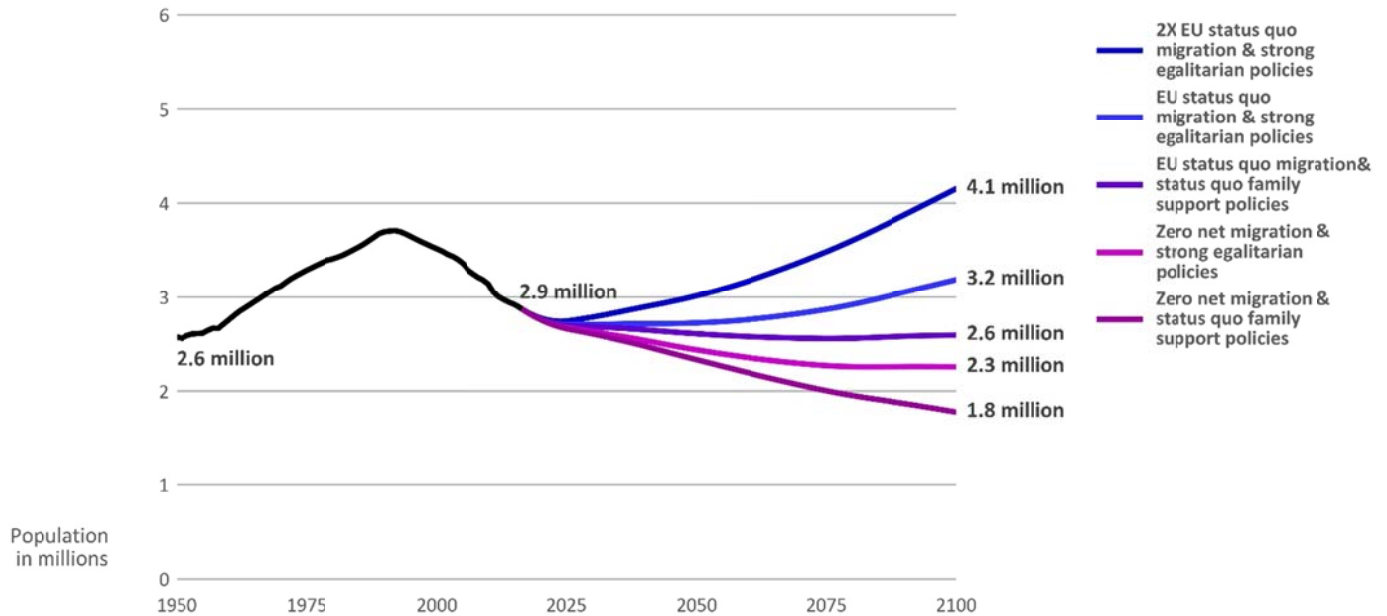
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.49	Linear increase till 0 by 2100	2.74	2.34	1.91	1.48	1.09	0.74	0.48	0.32	0.21
Moderate neo-liberal policy shift	1.64	Linear increase till 0 by 2100	2.74	2.35	1.93	1.52	1.13	0.80	0.55	0.40	0.30
Status quo social and economic policies	1.79	Linear increase till 0 by 2100	2.74	2.37	1.96	1.55	1.19	0.87	0.63	0.50	0.41
Moderate egalitarian policy shift	1.94	Linear increase till 0 by 2100	2.7	2.4	2.0	1.6	1.2	0.9	0.7	0.6	0.5
Strong egalitarian policy shift	2.09	Linear increase till 0 by 2100	2.74	2.39	2.00	1.62	1.29	1.01	0.81	0.71	0.65

Lithuania (continued)

3. A

Lithuania Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	2.19	13,670	2.78	2.79	2.90	3.01	3.17	3.37	3.60	3.87	4.15
EU status quo net migration & strong egalitarian policies	2.14	6,835	2.77	2.71	2.72	2.72	2.76	2.83	2.92	3.05	3.19
EU status quo net migration & status quo family support policies	1.84	6,835	2.77	2.68	2.65	2.61	2.58	2.56	2.56	2.58	2.59
Zero net migration & strong egalitarian policies	2.09	0	2.76	2.63	2.54	2.44	2.35	2.29	2.26	2.26	2.26
Zero net migration & status quo family support policies	1.79	0	2.76	2.61	2.48	2.33	2.19	2.06	1.95	1.87	1.78

Luxembourg

Population in 1950: 0.3 million

Current (2016) population: 0.6 million

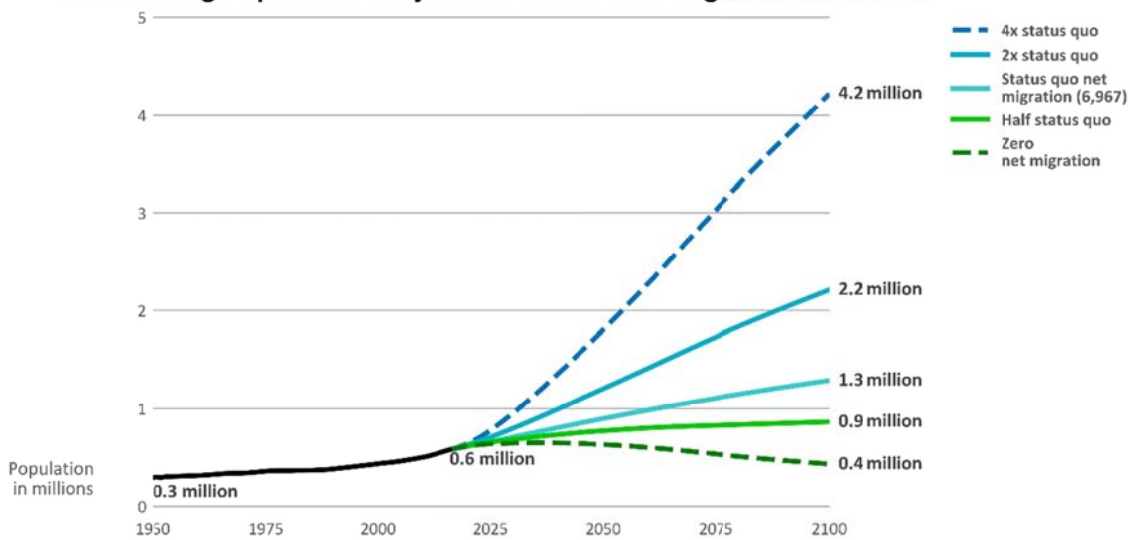
Current (2016) total fertility rate: 1.41

Current (2016) net migration level: 9,446

Status quo annual net migration (20-year average, 1998-2017): 6,967

1. A

Luxembourg Population Projections Under Five Migration Scenarios



1. B

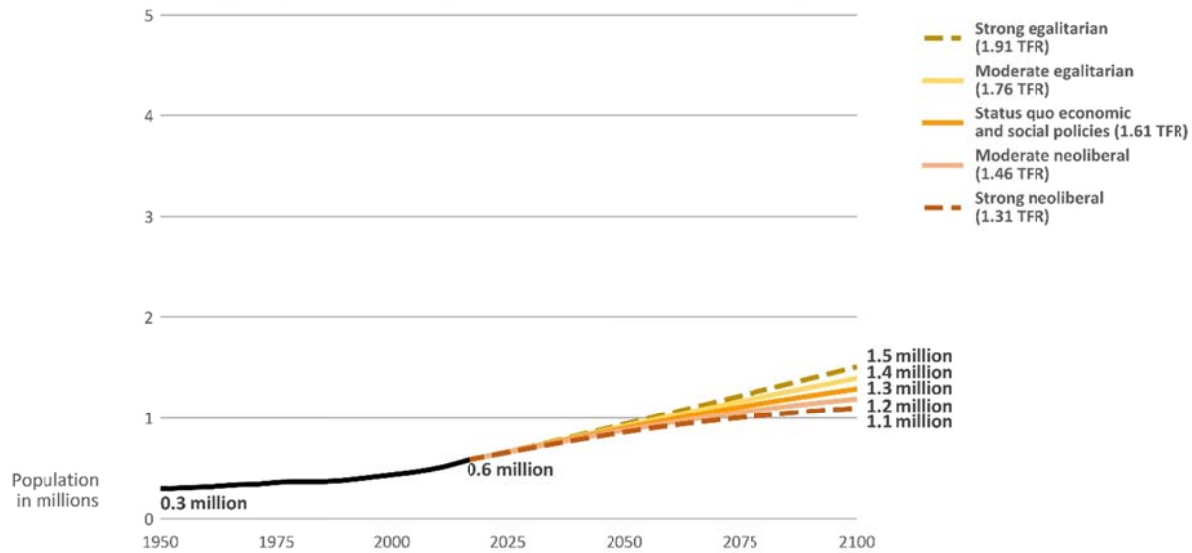
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.56	0	0.61	0.64	0.65	0.63	0.60	0.56	0.51	0.47	0.43
½ status quo net migration	1.59	3,484	0.62	0.68	0.73	0.77	0.80	0.82	0.83	0.85	0.86
Status quo net migration	1.61	6,967	0.61	0.71	0.80	0.90	0.98	1.07	1.14	1.22	1.29
2X status quo net migration	1.66	13,934	0.63	0.80	1.00	1.20	1.41	1.63	1.83	2.02	2.21
4X status quo net migration	1.81	27,869	0.64	0.95	1.36	1.80	2.28	2.78	3.28	3.76	4.22

Luxembourg (continued)

2. A

Luxembourg Population Projections Under Five Fertility Scenarios



2. B

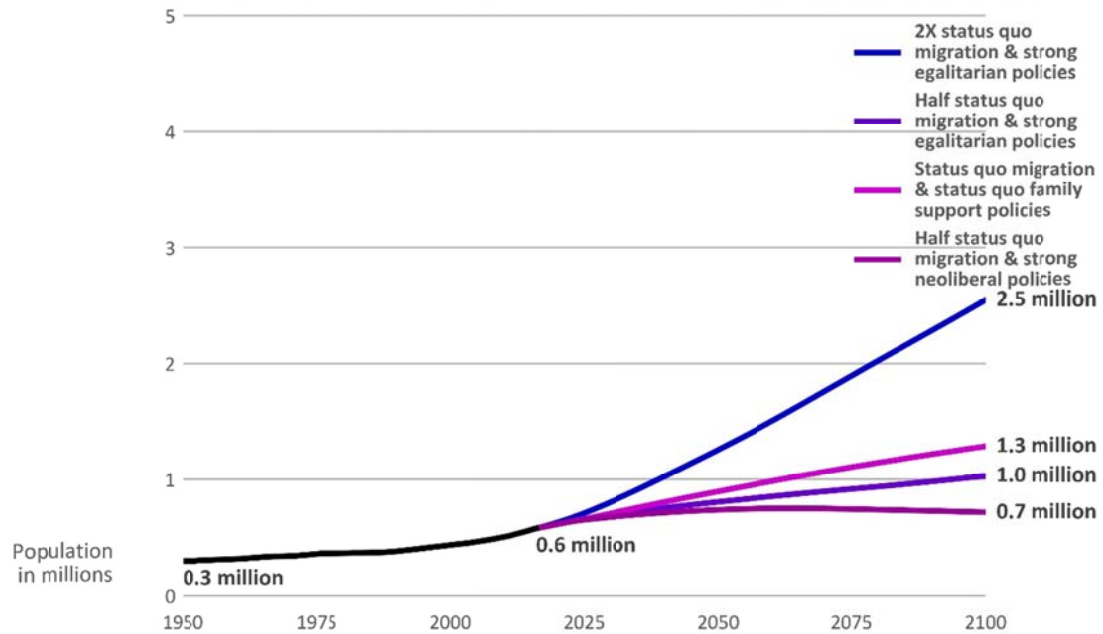
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.31	6,967	0.61	0.70	0.78	0.86	0.92	0.98	1.02	1.06	1.09
Moderate neo-liberal policy shift	1.46	6,967	0.61	0.70	0.79	0.88	0.95	1.02	1.08	1.14	1.19
Status quo social and economic policies	1.61	6,967	0.61	0.71	0.80	0.90	0.98	1.07	1.14	1.22	1.29
Moderate egalitarian policy shift	1.76	6,967	0.61	0.71	0.81	0.92	1.01	1.11	1.21	1.30	1.39
Strong egalitarian policy shift	1.91	6,967	0.61	0.71	0.82	0.93	1.05	1.16	1.27	1.39	1.51

Luxembourg (continued)

3. A

Luxembourg Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.96	13,934	0.63	0.81	1.02	1.25	1.50	1.76	2.02	2.28	2.55
½ status quo net migration & strong egalitarian policies	1.89	3,484	0.62	0.69	0.75	0.80	0.85	0.90	0.94	0.98	1.03
Status quo net migration & status quo family support policies	1.61	6,967	0.61	0.71	0.80	0.90	0.98	1.07	1.14	1.22	1.29
½ status quo net migration & strong neoliberal policies	1.29	3,484	0.62	0.67	0.71	0.74	0.75	0.75	0.74	0.73	0.72

Malta

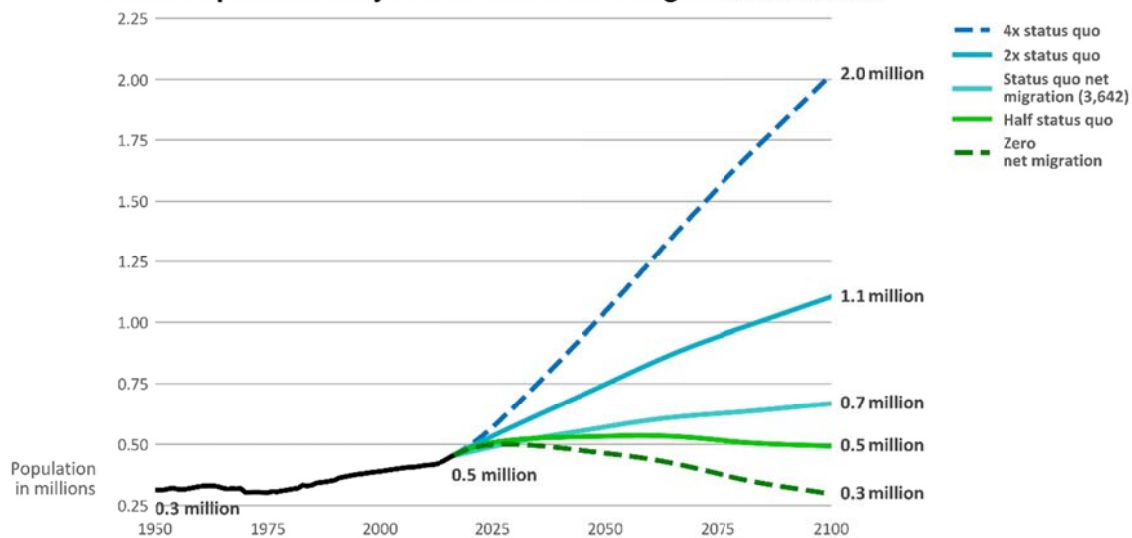
Population in 1950: 0.3 million

Current (2016) population: 0.5 million

Current (2016) total fertility rate: 1.37

Current (2016) net migration level: 8,748

Status quo annual net migration (20-year average, 1998-2017): 3,642

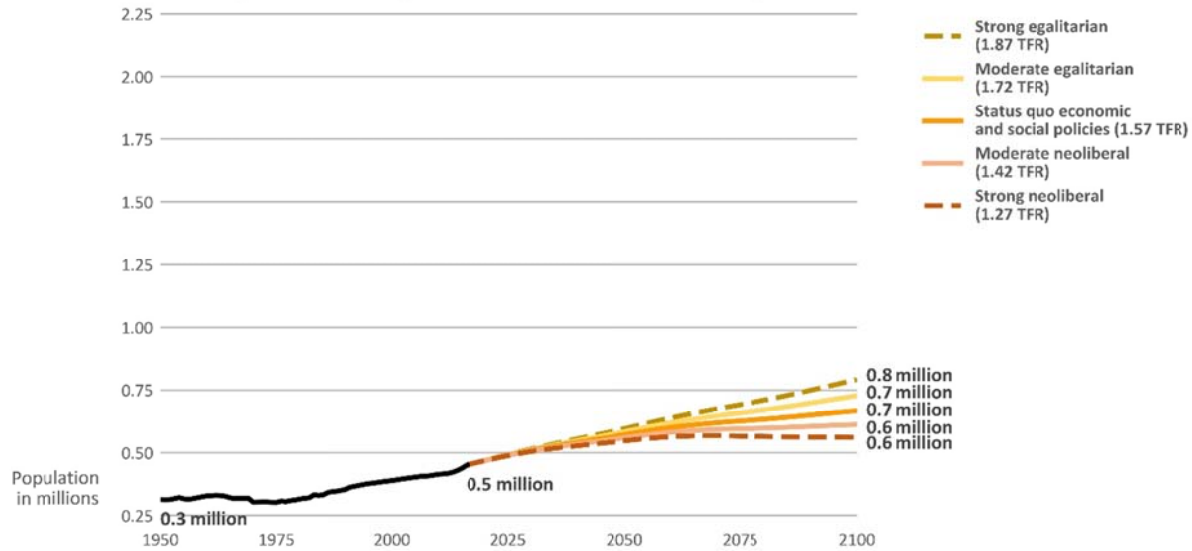
1. A**Malta Population Projections Under Five Migration Scenarios****1. B****Population in millions**

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.52	0	0.48	0.50	0.48	0.46	0.44	0.40	0.36	0.32	0.30
½ status quo net migration	1.55	1,821	0.48	0.52	0.53	0.53	0.54	0.53	0.51	0.50	0.49
Status quo net migration	1.57	3,642	0.47	0.51	0.54	0.57	0.60	0.62	0.63	0.65	0.67
2X status quo net migration	1.62	7,285	0.49	0.58	0.66	0.75	0.83	0.91	0.97	1.04	1.10
4X status quo net migration	1.77	14,569	0.50	0.66	0.85	1.04	1.25	1.46	1.65	1.84	2.02

Malta (continued)

2. A

Malta Population Projections Under Five Fertility Scenarios



2. B

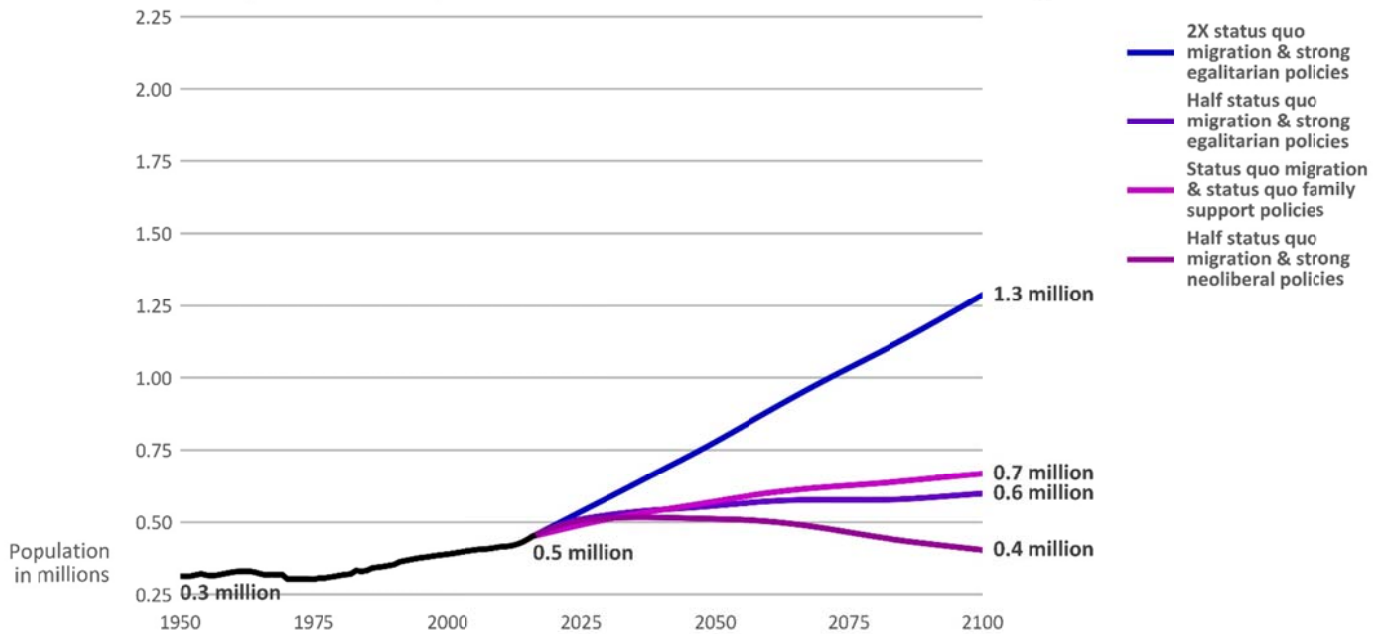
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.27	3,642	0.47	0.50	0.53	0.55	0.56	0.57	0.56	0.56	0.56
Moderate neo-liberal policy shift	1.42	3,642	0.47	0.51	0.53	0.56	0.58	0.59	0.60	0.60	0.61
Status quo social and economic policies	1.57	3,642	0.47	0.51	0.54	0.57	0.60	0.62	0.63	0.65	0.67
Moderate egalitarian policy shift	1.72	3,642	0.47	0.51	0.55	0.58	0.62	0.65	0.67	0.70	0.73
Strong egalitarian policy shift	1.87	3,642	0.47	0.51	0.56	0.60	0.64	0.68	0.71	0.75	0.79

Malta (continued)

3. A

Malta Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.92	7,285	0.49	0.58	0.68	0.78	0.88	0.99	1.08	1.18	1.29
½ status quo net migration & strong egalitarian policies	1.85	1,821	0.48	0.52	0.54	0.56	0.57	0.58	0.58	0.58	0.60
Status quo net migration & status quo family support policies	1.57	3,642	0.47	0.51	0.54	0.57	0.60	0.62	0.63	0.65	0.67
½ status quo net migration & strong neoliberal policies	1.25	1,821	0.48	0.51	0.52	0.51	0.50	0.48	0.45	0.42	0.40

Netherlands

Population in 1950: 10.0 million

Current (2016) population: 17.0 million

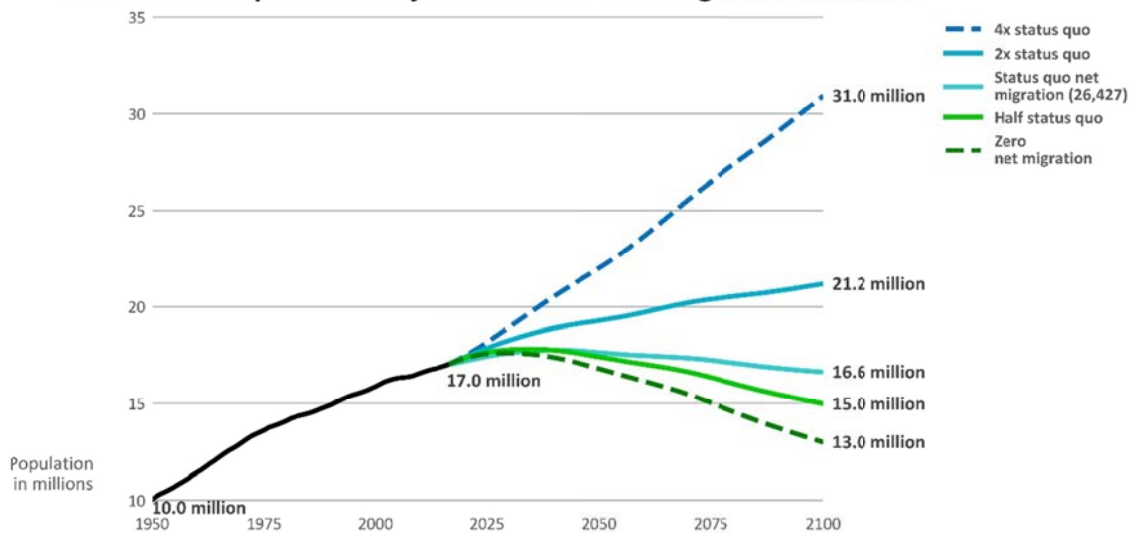
Current (2016) total fertility rate: 1.66

Current (2016) net migration level 78,864

Status quo annual net migration (20-year average, 1998-2017): 26,427

1. A

Netherlands Population Projections Under Five Migration Scenarios



1. B

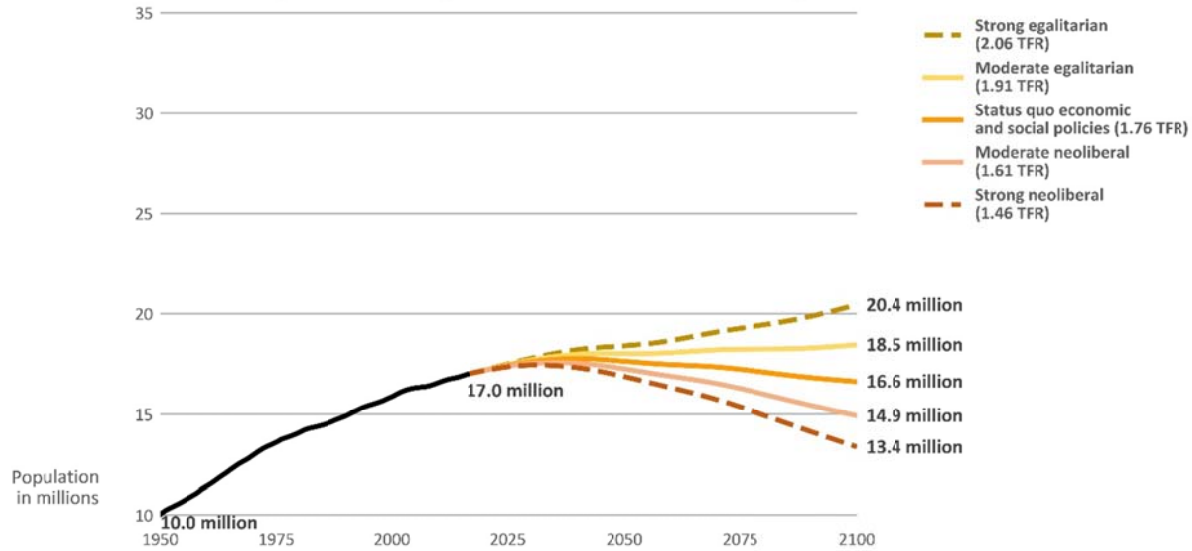
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.71	0	17.32	17.61	17.36	16.79	16.14	15.43	14.56	13.72	12.97
½ status quo net migration	1.74	13,213	17.34	17.77	17.74	17.40	17.02	16.61	16.02	15.45	14.96
Status quo net migration	1.76	26,427	17.18	17.61	17.76	17.63	17.46	17.34	17.08	16.81	16.61
2X status quo net migration	1.81	52,853	17.38	18.26	18.89	19.28	19.71	20.21	20.52	20.81	21.18
4X status quo net migration	1.96	105,706	17.45	18.96	20.55	22.00	23.66	25.58	27.35	29.08	30.95

Netherlands (continued)

2. A

Netherlands Population Projections Under Five Fertility Scenarios



2. B

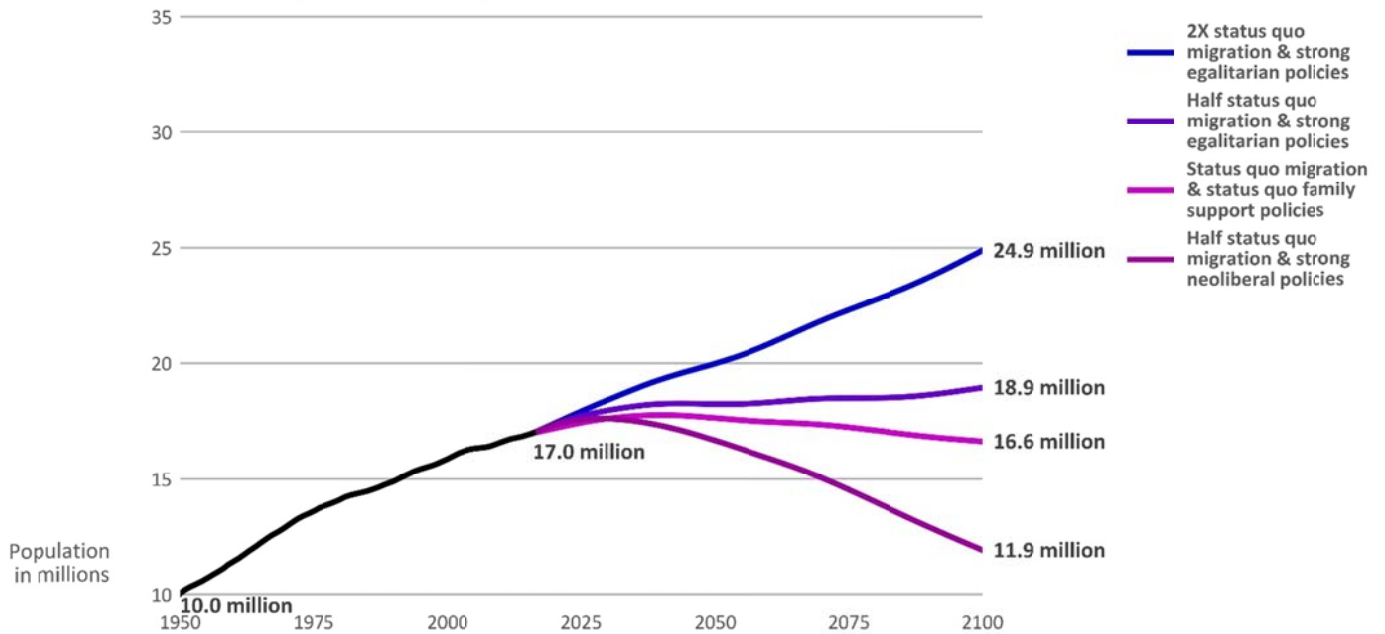
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.46	26,427	17.17	17.44	17.30	16.86	16.31	15.70	14.95	14.14	13.36
Moderate neo-liberal policy shift	1.61	26,427	17.17	17.52	17.53	17.24	16.88	16.50	15.99	15.43	14.92
Status quo social and economic policies	1.76	26,427	17.18	17.61	17.76	17.63	17.46	17.34	17.08	16.81	16.61
Moderate egalitarian policy shift	1.91	26,427	17.19	17.69	17.98	18.01	18.06	18.20	18.24	18.29	18.45
Strong egalitarian policy shift	2.06	26,427	17.20	17.78	18.21	18.40	18.66	19.09	19.44	19.86	20.44

Netherlands (continued)

3. A

Netherlands Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.11	52,853	17.40	18.41	19.31	19.98	20.82	21.85	22.75	23.72	24.89
½ status quo net migration & strong egalitarian policies	2.04	13,213	17.35	17.96	18.24	18.23	18.30	18.47	18.50	18.63	18.94
Status quo net migration & status quo family support policies	1.76	26,427	17.18	17.61	17.76	17.63	17.46	17.34	17.08	16.81	16.61
½ status quo net migration & strong neoliberal policies	1.44	13,213	17.32	17.60	17.29	16.65	15.89	15.03	13.98	12.91	11.90

Poland

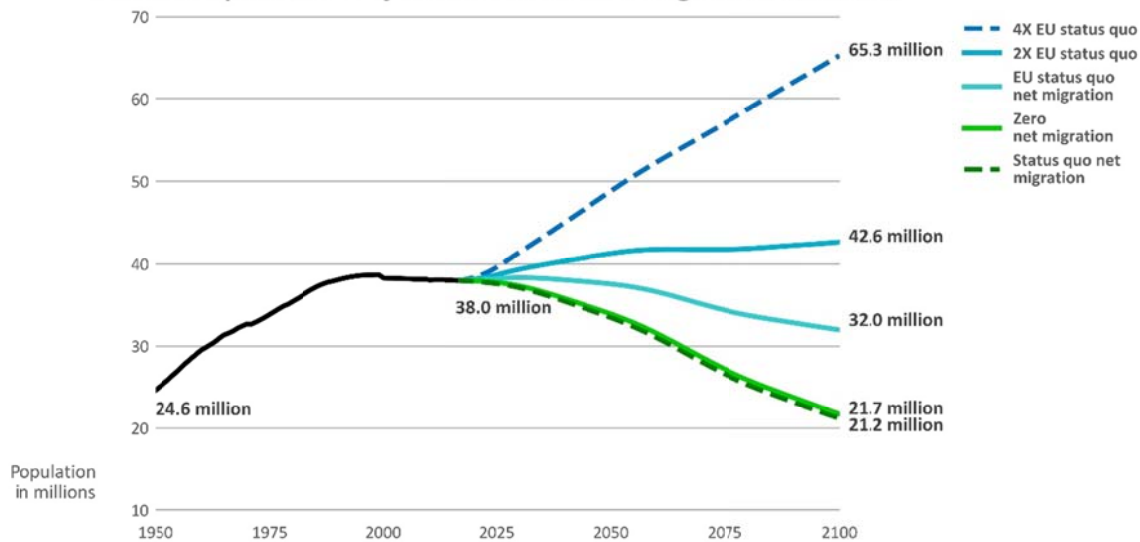
Population in 1950: 24.6 million

Current (2016) population: 38.0 million

Current (2016) total fertility rate: 1.39

Current (2016) net migration level: 11,507

20-year average annual net migration (1998-2017): -11,722

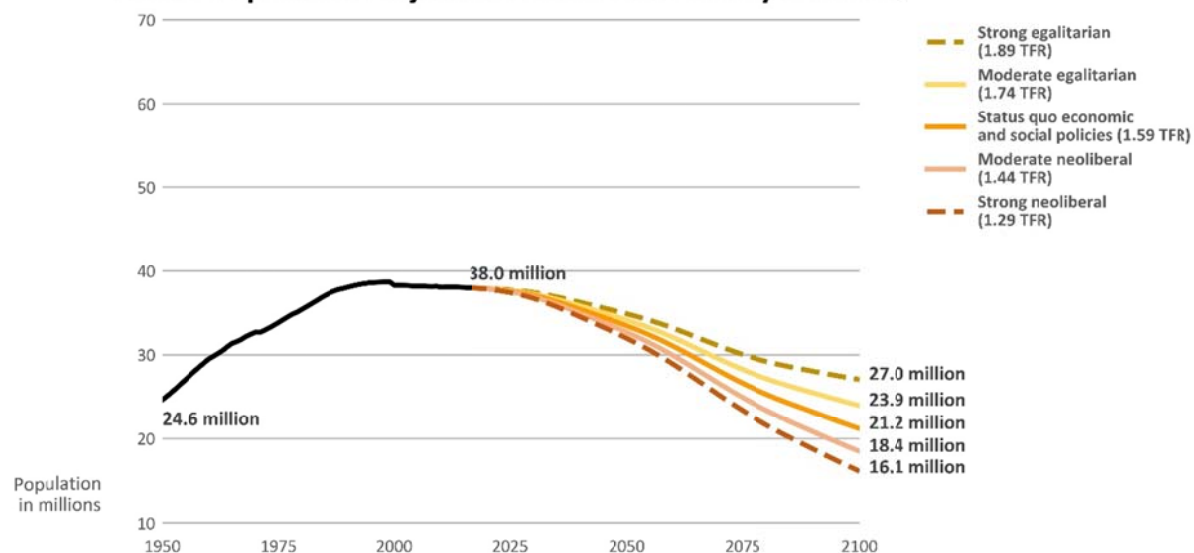
1. A**Poland Population Projections Under Five Migration Scenarios****1. B****Population in millions**

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.59	Linear increase till 0 by 2100	37.85	37.07	35.39	33.44	31.00	28.06	25.28	23.15	21.16
Zero net migration	1.59	0	37.93	37.29	35.73	33.88	31.52	28.55	25.87	23.72	21.69
EU status quo net migration	1.64	91,135	38.03	38.32	38.03	37.54	36.59	35.07	33.75	32.82	31.96
2X EU status quo net migration	1.69	182,270	38.13	39.34	40.36	41.25	41.75	41.72	41.84	42.23	42.63
4X EU status quo net migration	1.79	364,540	38.33	41.41	45.07	48.82	52.32	55.47	58.68	61.98	65.25

Poland (continued)

2. A

Poland Population Projections Under Five Fertility Scenarios



2. B

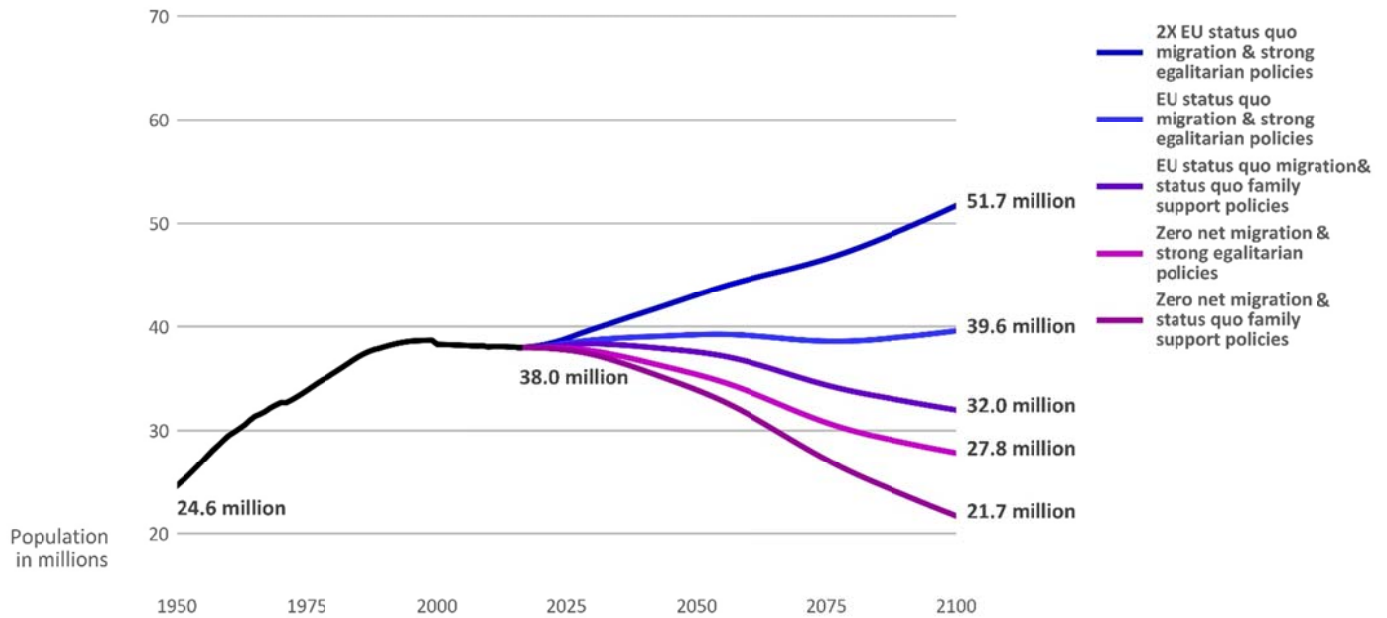
Population in millions

Policy based scenario	TFR from 2036	Net migration	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.29	Linear increase till 0 by 2100	37.81	36.70	34.49	31.95	28.84	25.09	21.64	18.76	16.08
Moderate neo-liberal policy shift	1.44	Linear increase till 0 by 2100	37.83	36.88	34.93	32.67	29.88	26.47	23.37	20.82	18.44
Status quo social and economic policies	1.59	Linear increase till 0 by 2100	37.85	37.07	35.39	33.44	31.00	28.06	25.28	23.15	21.16
Moderate egalitarian policy shift	1.74	Linear increase till 0 by 2100	37.87	37.23	35.80	34.13	32.03	29.42	27.15	25.46	23.91
Strong egalitarian policy shift	1.89	Linear increase till 0 by 2100	37.89	37.41	36.24	34.87	33.14	30.98	29.20	28.03	27.04

Poland (continued)

3. A

Poland Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	1.99	182,270	38.17	39.73	41.39	43.07	44.57	45.83	47.42	49.46	51.70
EU status quo net migration & strong egalitarian policies	1.94	91,135	38.07	38.69	39.00	39.21	39.13	38.70	38.60	39.00	39.57
EU status quo net migration & status quo family support policies	1.64	91,135	38.03	38.32	38.03	37.54	36.59	35.07	33.75	32.82	31.96
Zero net migration & strong egalitarian policies	1.89	0	37.97	37.65	36.62	35.37	33.75	31.67	29.94	28.79	27.80
Zero net migration & status quo family support policies	1.59	0	37.93	37.29	35.73	33.88	31.52	28.55	25.87	23.72	21.69

Portugal

Population in 1950: 8.4 million

Current (2016) population: 10.3 million

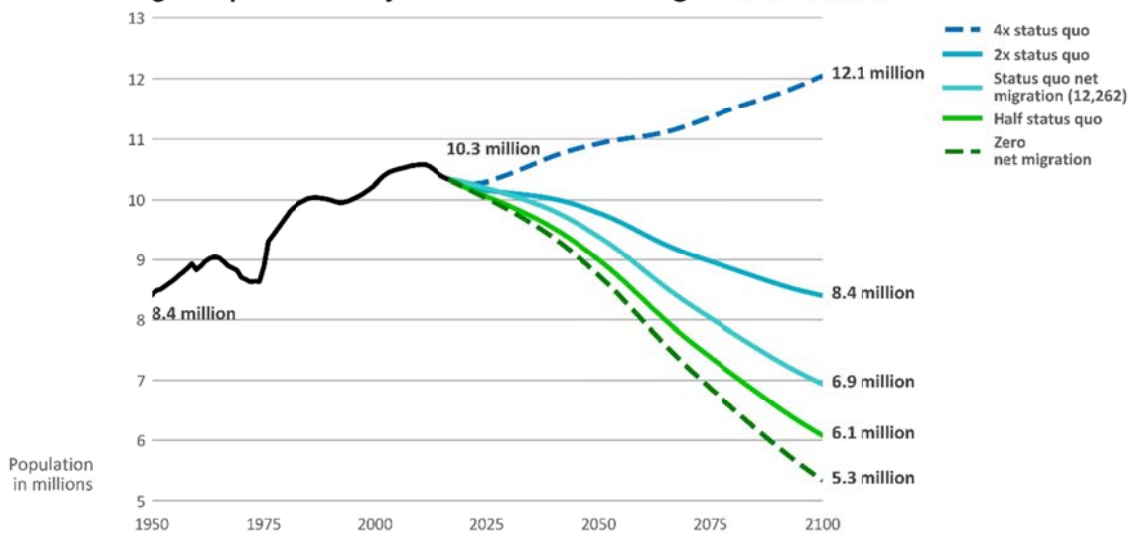
Current (2016) total fertility rate: 1.36

Current (2016) net migration level -8,310

Status quo annual net migration (20-year average, 1998-2017): 12,262

1. A

Portugal Population Projections Under Five Migration Scenarios



1. B

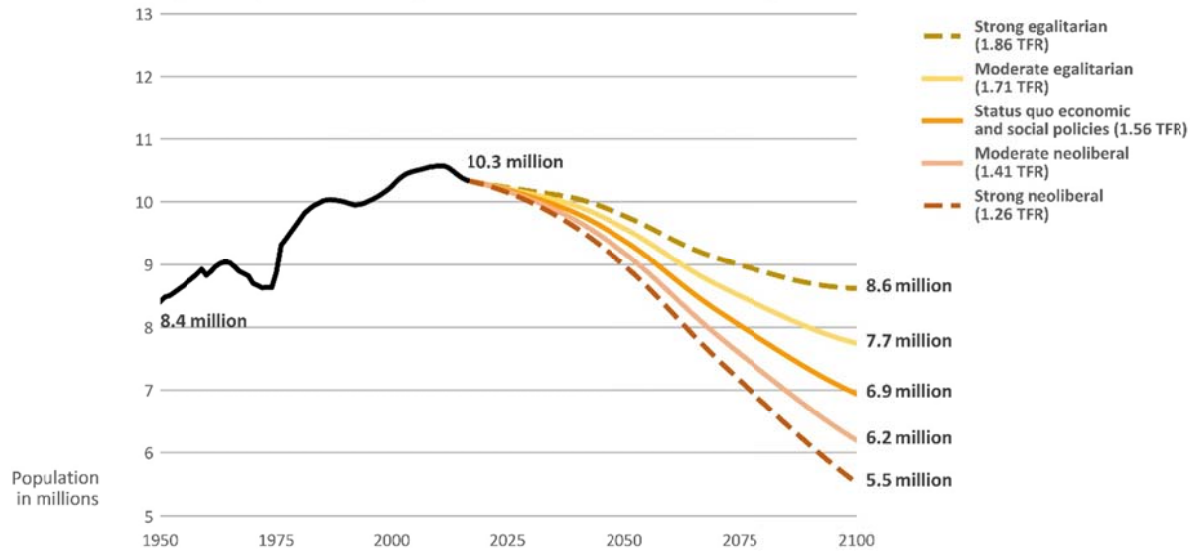
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.51	0	10.20	9.82	9.36	8.73	7.97	7.20	6.53	5.89	5.33
½ status quo net migration	1.54	6,131	10.21	9.90	9.52	8.99	8.33	7.66	7.10	6.55	6.08
Status quo net migration	1.56	12,262	10.28	10.08	9.81	9.38	8.82	8.26	7.79	7.32	6.93
2X status quo net migration	1.61	24,524	10.23	10.11	10.01	9.78	9.43	9.09	8.84	8.59	8.40
4X status quo net migration	1.76	49,049	10.26	10.42	10.72	10.92	11.04	11.23	11.50	11.75	12.05

Portugal (continued)

2. A

Portugal Population Projections Under Five Fertility Scenarios



2. B

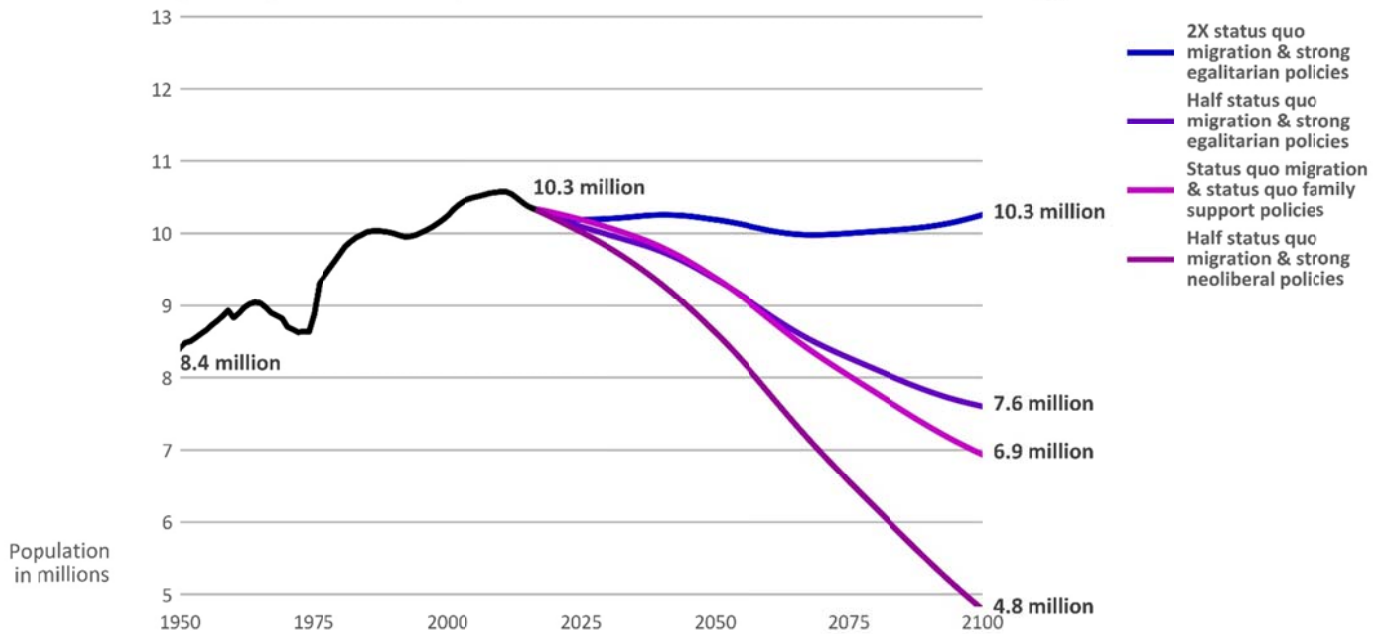
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.26	12,262	10.27	9.99	9.57	8.99	8.26	7.49	6.80	6.12	5.52
Moderate neo-liberal policy shift	1.41	12,262	10.28	10.03	9.69	9.18	8.54	7.87	7.28	6.70	6.19
Status quo social and economic policies	1.56	12,262	10.28	10.08	9.81	9.38	8.82	8.26	7.79	7.32	6.93
Moderate egalitarian policy shift	1.71	12,262	10.29	10.12	9.93	9.58	9.11	8.67	8.32	7.99	7.74
Strong egalitarian policy shift	1.86	12,262	10.29	10.17	10.05	9.78	9.41	9.10	8.89	8.70	8.62

Portugal (continued)

3. A

Portugal Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.91	24,524	10.24	10.20	10.25	10.19	10.04	9.98	10.03	10.09	10.25
½ status quo net migration & strong egalitarian policies	1.84	6,131	10.22	9.98	9.75	9.37	8.88	8.44	8.11	7.81	7.60
Status quo net migration & status quo family support policies	1.56	12,262	10.28	10.08	9.81	9.38	8.82	8.26	7.79	7.32	6.93
½ status quo net migration & strong neoliberal policies	1.24	6,131	10.20	9.81	9.29	8.62	7.80	6.95	6.18	5.45	4.79

Romania

Population in 1950: 16.4 million

Current (2016) population: 19.8 million

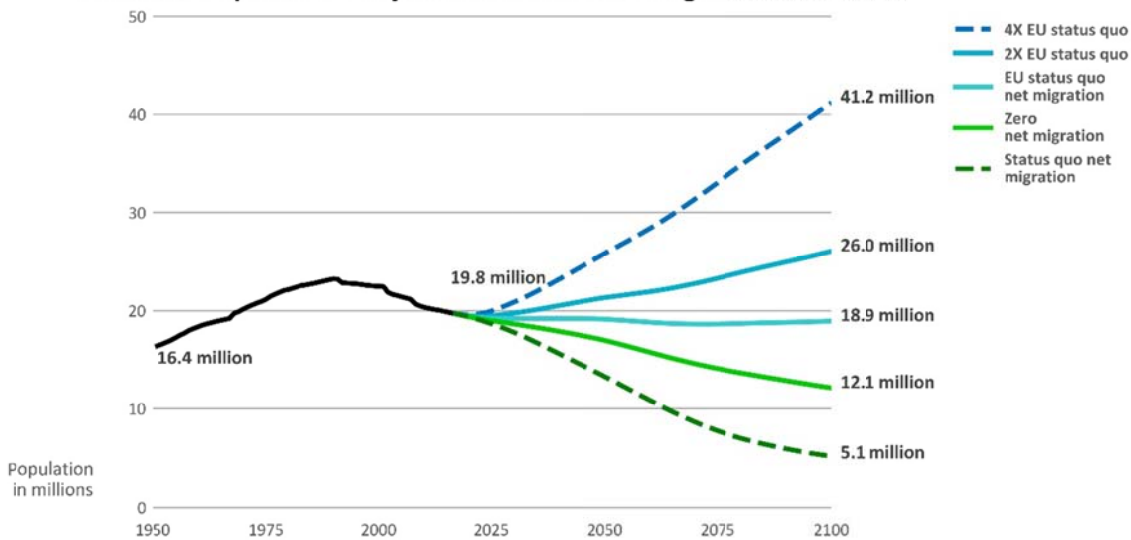
Current (2016) total fertility rate: 1.64

Current (2016) net migration level: -58,758

20-year average annual net migration (1998-2017): -103,807

1. A

Romania Population Projections Under Five Migration Scenarios



1. B

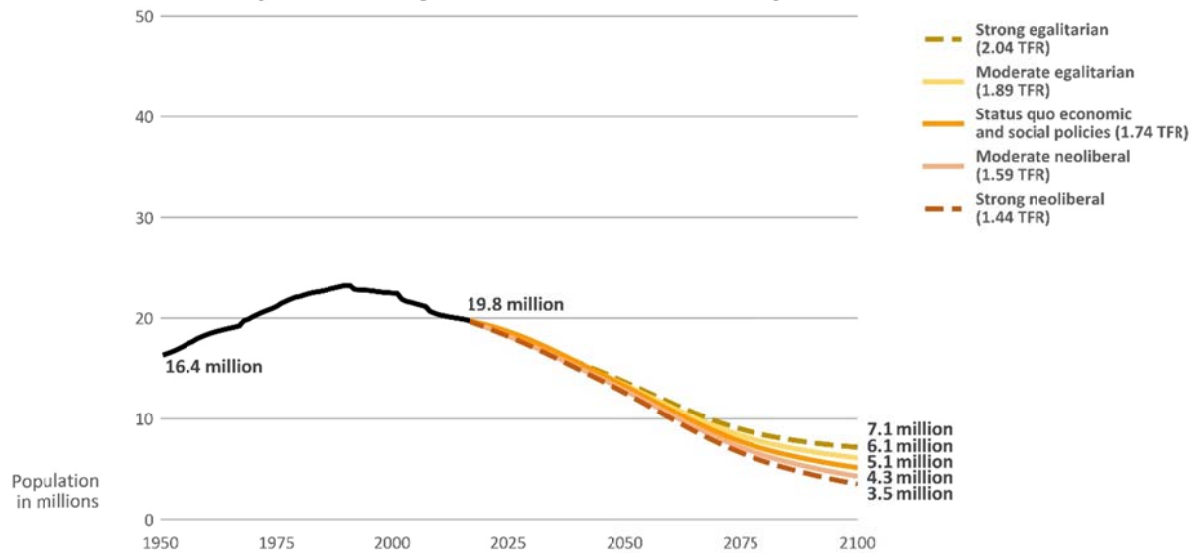
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.74	Linear increase till 0 by 2100	19.34	17.75	15.55	13.24	10.81	8.60	6.99	5.90	5.12
Zero net migration	1.74	0	19.35	18.61	17.85	16.94	15.72	14.54	13.63	12.84	12.09
EU status quo net migration	1.79	47,146	19.41	19.17	19.17	19.10	18.79	18.60	18.67	18.78	18.91
2X EU status quo net migration	1.84	94,293	19.46	19.73	20.51	21.30	21.92	22.77	23.87	24.94	26.03
4X EU status quo net migration	1.94	188,586	19.56	20.86	23.22	25.81	28.38	31.41	34.75	37.96	41.21

Romania (continued)

2. A

Romania Population Projections Under Five Fertility Scenarios



2. B

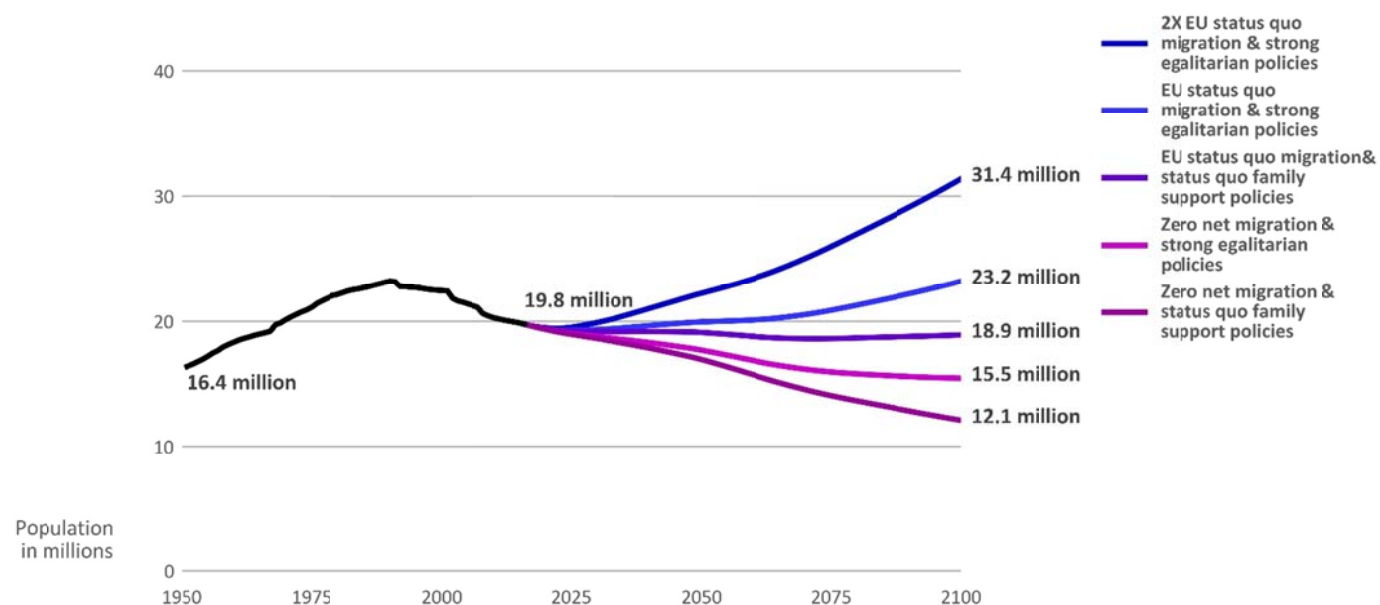
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.44	Linear increase till 0 by 2100	19.09	17.16	14.91	12.56	9.99	7.59	5.76	4.46	3.49
Moderate neo-liberal policy shift	1.59	Linear increase till 0 by 2100	19.10	17.23	15.08	12.83	10.37	8.07	6.35	5.15	4.27
Status quo social and economic policies	1.74	Linear increase till 0 by 2100	19.34	17.75	15.55	13.24	10.81	8.60	6.99	5.90	5.12
Moderate egalitarian policy shift	1.89	Linear increase till 0 by 2100	19.12	17.37	15.41	13.37	11.14	9.11	7.66	6.73	6.09
Strong egalitarian policy shift	2.04	Linear increase till 0 by 2100	19.12	17.44	15.58	13.64	11.55	9.67	8.37	7.61	7.15

Romania (continued)

3. A

Romania Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	2.14	94,293	19.48	19.91	21.03	22.25	23.43	25.03	27.02	29.10	31.36
EU status quo net migration & strong egalitarian policies	2.09	47,146	19.42	19.34	19.65	19.95	20.10	20.54	21.31	22.20	23.22
EU status quo net migration & status quo family support policies	1.79	47,146	19.41	19.17	19.17	19.10	18.79	18.60	18.67	18.78	18.91
Zero net migration & strong egalitarian policies	2.04	0	19.37	18.78	18.29	17.69	16.86	16.17	15.80	15.58	15.45
Zero net migration & status quo family support policies	1.74	0	19.35	18.61	17.85	16.94	15.72	14.54	13.63	12.84	12.09

Slovakia

Population in 1950: 3.4 million

Current (2016) population: 5.4 million

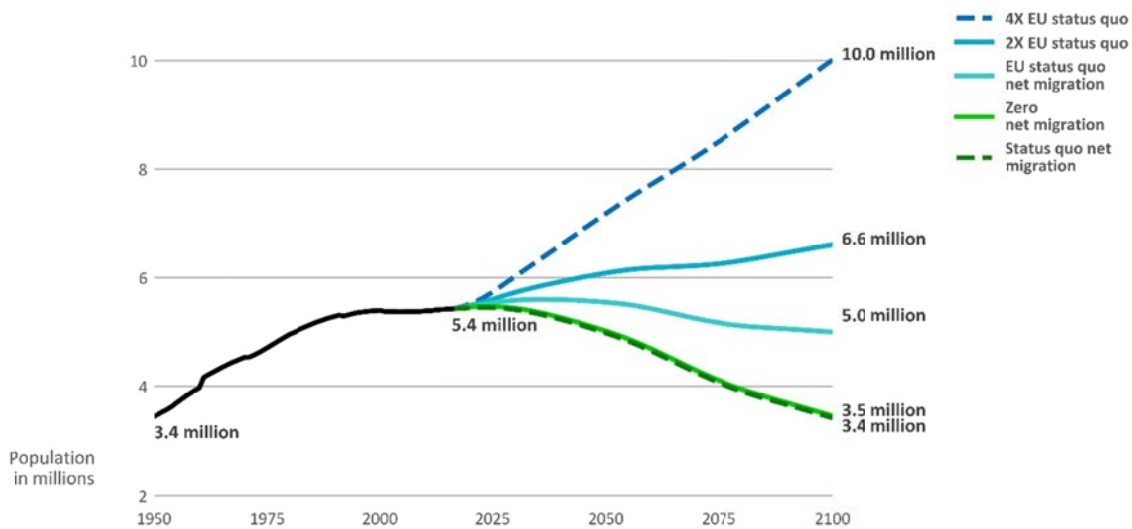
Current (2016) total fertility rate: 1.48

Current (2016) net migration level: -3,885

Status quo annual net migration (20-year average, 1998-2017): -305

1. A

Slovakia Population Projections Under Five Migration Scenarios



1. B

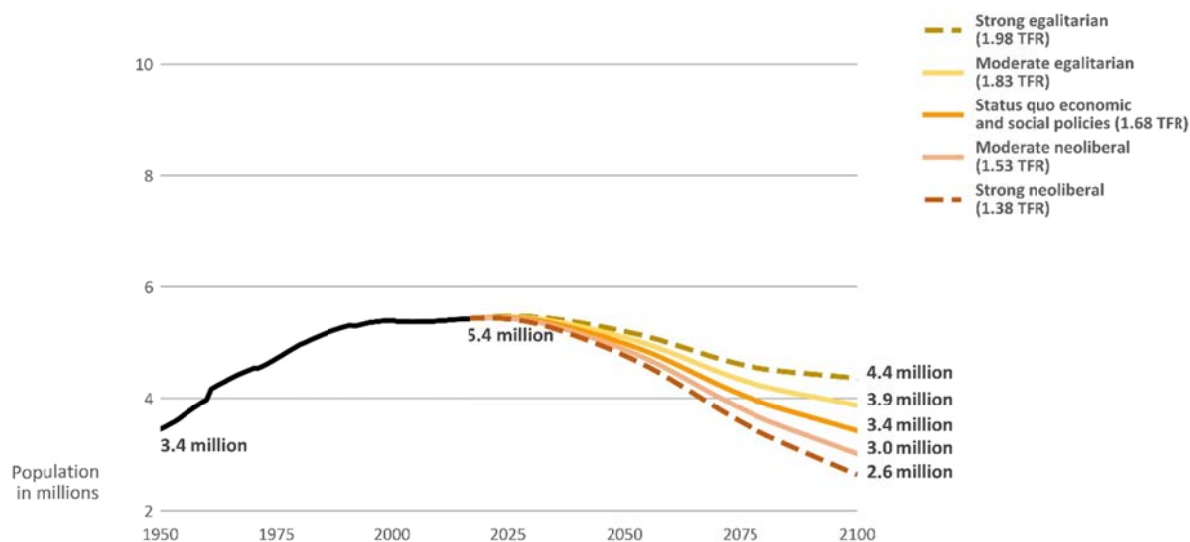
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Status quo net migration	1.68	Linear increase till 0 by 2100	5.45	5.41	5.23	4.98	4.65	4.25	3.91	3.66	3.42
Zero net migration	1.68	0	5.46	5.44	5.26	5.02	4.69	4.29	3.95	3.70	3.45
EU status quo net migration	1.73	13,045	5.47	5.58	5.59	5.55	5.43	5.25	5.12	5.06	5.00
2X EU status quo net migration	1.78	26,090	5.49	5.73	5.93	6.09	6.18	6.22	6.31	6.46	6.61
4X EU status quo net migration	1.88	52,179	5.52	6.03	6.61	7.18	7.72	8.24	8.80	9.41	10.02

Slovakia (continued)

2. A

Slovakia Population Projections Under Five Fertility Scenarios



2. B

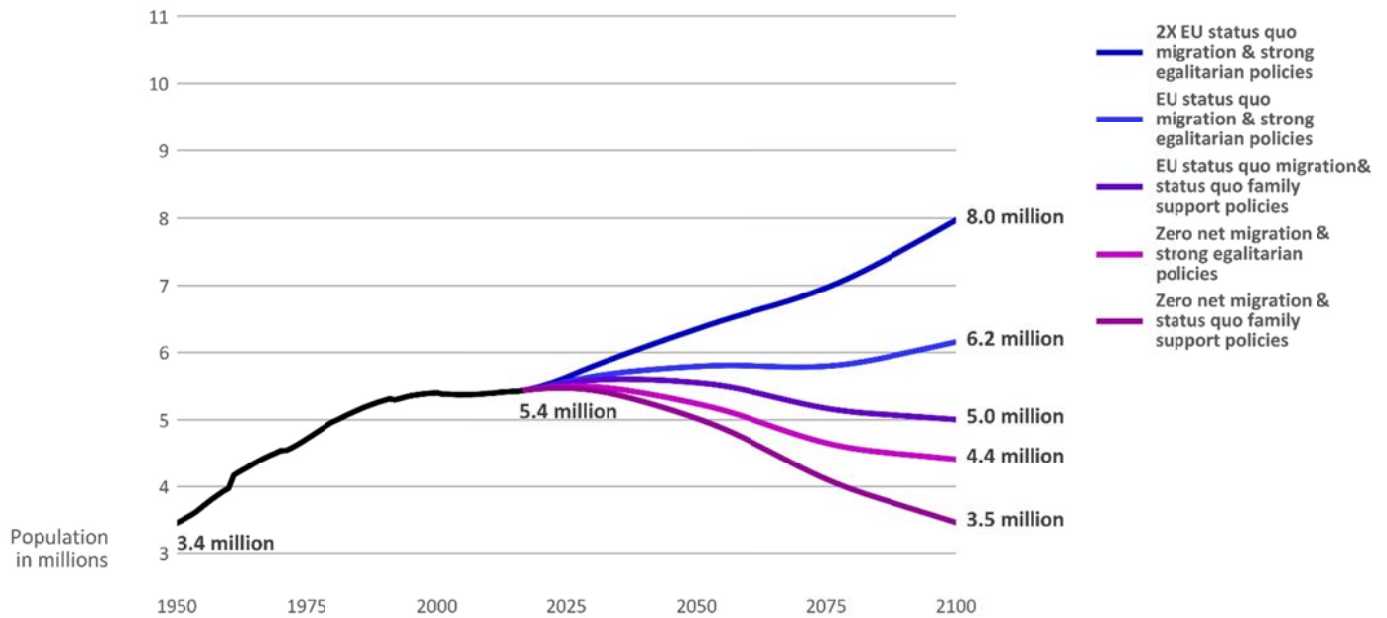
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.38	Linear increase till 0 by 2100	5.44	5.36	5.10	4.77	4.33	3.82	3.36	2.99	2.63
Moderate neo-liberal policy shift	1.53	Linear increase till 0 by 2100	5.44	5.39	5.17	4.87	4.49	4.03	3.63	3.31	3.00
Status quo social and economic policies	1.68	Linear increase till 0 by 2100	5.45	5.41	5.23	4.98	4.65	4.25	3.91	3.66	3.42
Moderate egalitarian policy shift	1.83	Linear increase till 0 by 2100	5.45	5.44	5.30	5.09	4.81	4.48	4.21	4.04	3.87
Strong egalitarian policy shift	1.98	Linear increase till 0 by 2100	5.45	5.46	5.36	5.20	4.98	4.72	4.53	4.44	4.36

Slovakia (continued)

3. A

Slovakia Population Projections Under Five Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X EU status quo migration & strong egalitarian policies	2.08	26,090	5.49	5.79	6.08	6.35	6.59	6.82	7.14	7.54	7.97
EU status quo net migration & strong egalitarian policies	2.03	13,045	5.48	5.64	5.73	5.79	5.80	5.78	5.83	5.98	6.15
EU status quo net migration & status quo family support policies	1.73	13,045	5.47	5.58	5.59	5.55	5.43	5.25	5.12	5.06	5.00
Zero net migration & strong egalitarian policies	1.98	0	5.46	5.49	5.39	5.24	5.02	4.76	4.57	4.48	4.41
Zero net migration & status quo family support policies	1.68	0	5.46	5.44	5.26	5.02	4.69	4.29	3.95	3.70	3.45

Slovenia

Population in 1950: 1.5 million

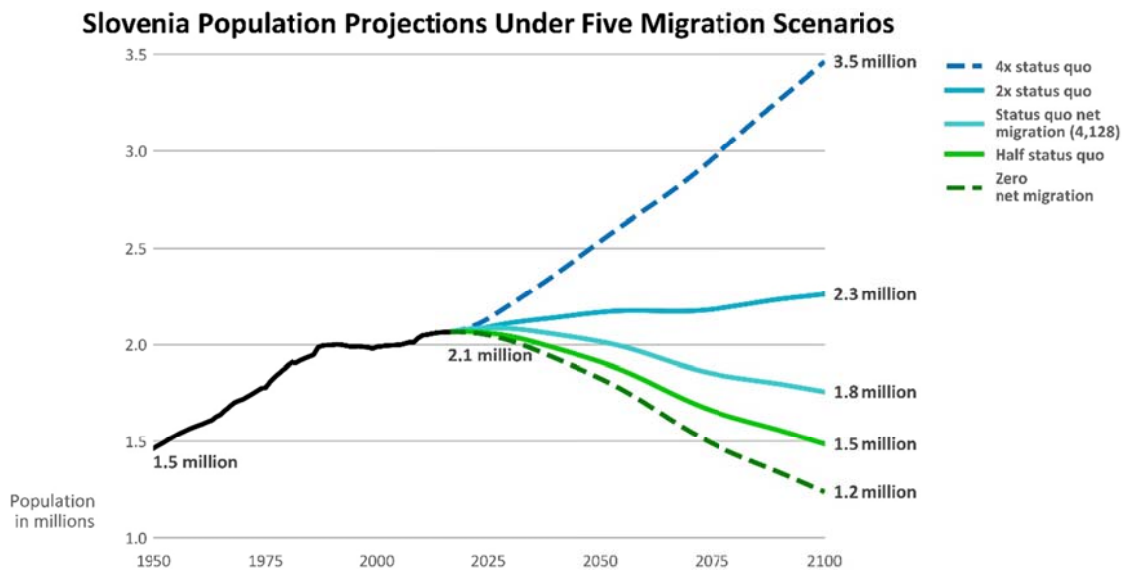
Current (2016) population: 2.1 million

Current (2016) total fertility rate: 1.58

Current (2016) net migration level: 1,051

Status quo annual net migration (20-year average, 1998-2017): 4,128

1. A



1. B

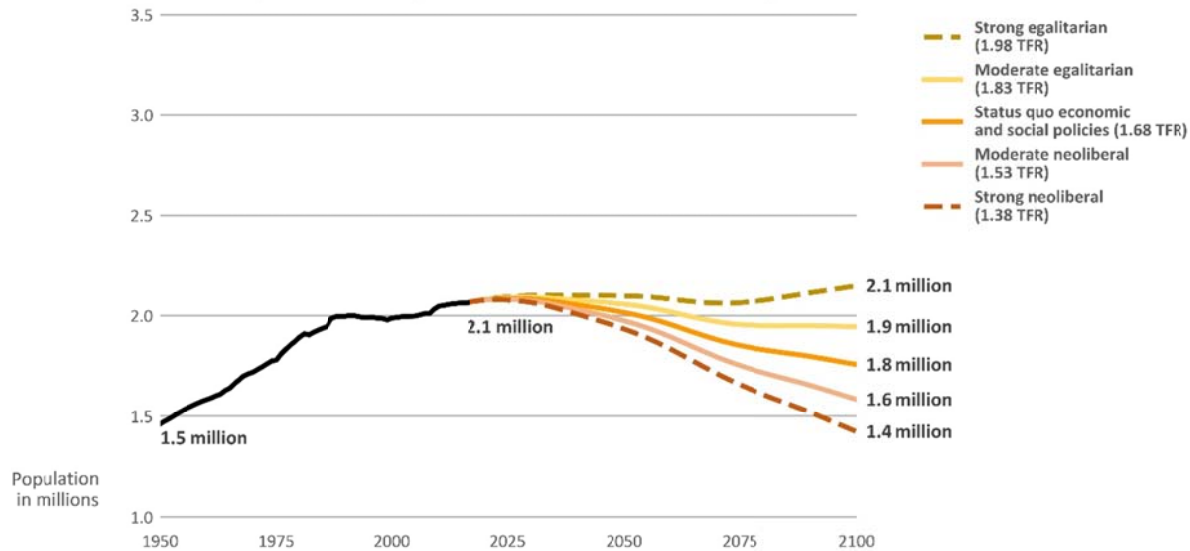
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.63	0	2.06	2.02	1.93	1.83	1.70	1.55	1.43	1.34	1.23
½ status quo net migration	1.66	2,064	2.07	2.04	1.98	1.91	1.81	1.70	1.62	1.56	1.48
Status quo net migration	1.68	4,128	2.08	2.08	2.05	2.02	1.96	1.88	1.83	1.80	1.76
2X status quo net migration	1.73	8,257	2.07	2.11	2.14	2.17	2.18	2.17	2.20	2.24	2.26
4X status quo net migration	1.88	16,514	2.08	2.21	2.37	2.54	2.70	2.87	3.06	3.27	3.46

Slovenia (continued)

2. A

Slovenia Population Projections Under Five Fertility Scenarios



2. B

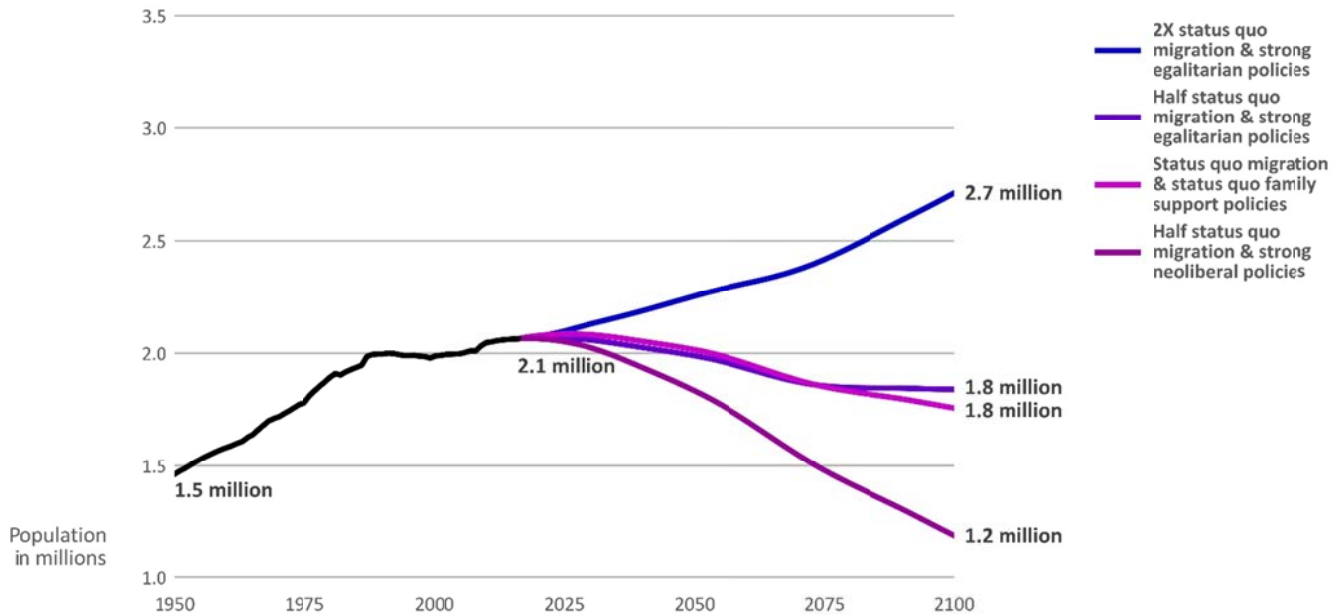
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.38	4,128	2.08	2.07	2.01	1.93	1.83	1.71	1.61	1.52	1.42
Moderate neo-liberal policy shift	1.53	4,128	2.08	2.07	2.03	1.97	1.89	1.79	1.72	1.65	1.58
Status quo social and economic policies	1.68	4,128	2.08	2.08	2.05	2.02	1.96	1.88	1.83	1.80	1.76
Moderate egalitarian policy shift	1.83	4,128	2.08	2.09	2.08	2.06	2.02	1.97	1.95	1.95	1.94
Strong egalitarian policy shift	1.98	4,128	2.08	2.10	2.10	2.10	2.08	2.06	2.08	2.11	2.15

Slovenia (continued)

3. A

Slovenia Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.03	8,257	2.07	2.13	2.19	2.26	2.31	2.37	2.47	2.59	2.71
½ status quo net migration & strong egalitarian policies	1.96	2,064	2.07	2.06	2.03	1.99	1.93	1.87	1.85	1.84	1.84
Status quo net migration & status quo family support policies	1.68	4,128	2.08	2.08	2.05	2.02	1.96	1.88	1.83	1.80	1.76
½ status quo net migration & strong neoliberal policies	1.36	2,064	2.06	2.02	1.94	1.83	1.70	1.55	1.42	1.30	1.18

Spain

Population in 1950: 27.8 million

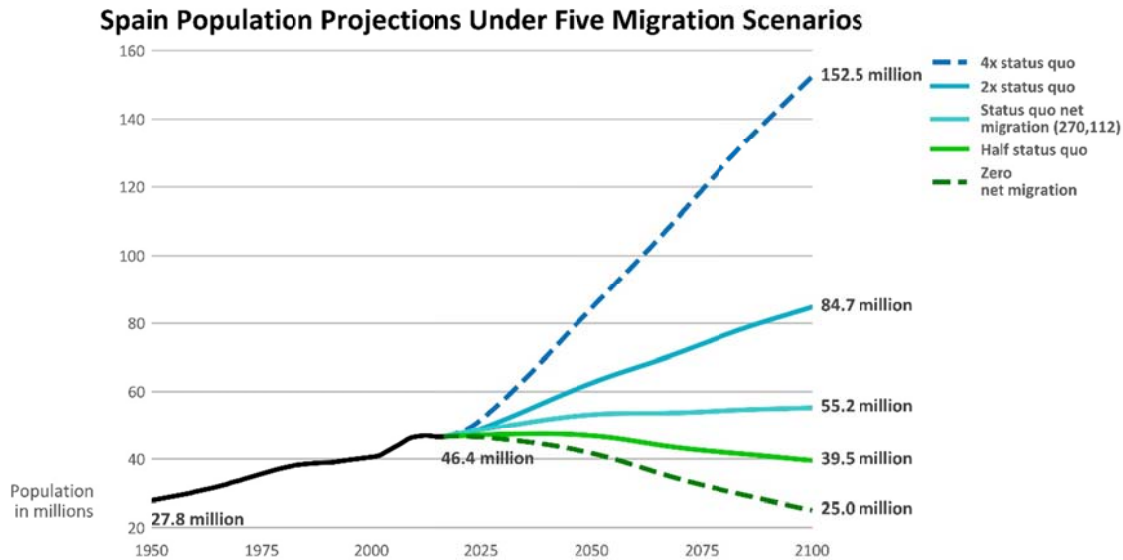
Current (2016) population: 46.4 million

Current (2016) total fertility rate: 1.34

Current (2016) net migration level: 87,422

Status quo annual net migration (20-year average, 1998-2017): 270,112

1. A



1. B

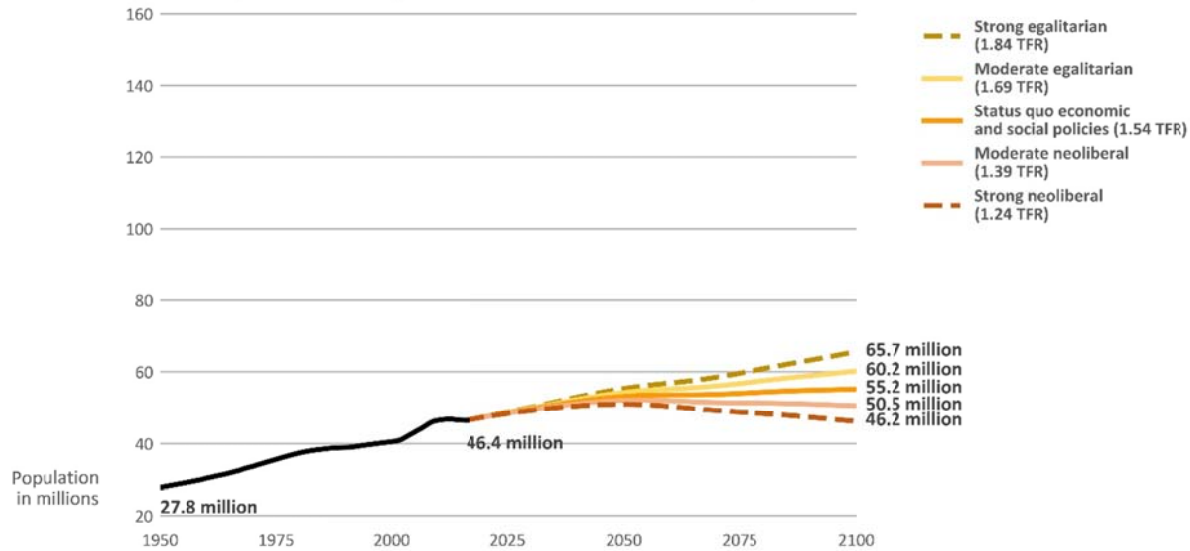
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.49	0	46.56	45.73	44.10	41.60	37.95	33.98	30.73	27.81	24.97
½ status quo net migration	1.51	135,056	46.70	47.18	47.32	46.76	45.11	43.18	41.89	40.72	39.48
Status quo net migration	1.54	270,112	47.41	49.63	51.68	53.11	53.54	53.69	54.29	54.81	55.18
2X status quo net migration	1.59	540,224	47.12	51.53	57.09	62.43	66.94	71.38	76.27	80.70	84.69
4X status quo net migration	1.74	1,080,448	47.70	57.46	70.63	84.39	97.84	111.79	126.23	139.67	152.48

Spain (continued)

2. A

Spain Population Projections Under Five Fertility Scenarios



2. B

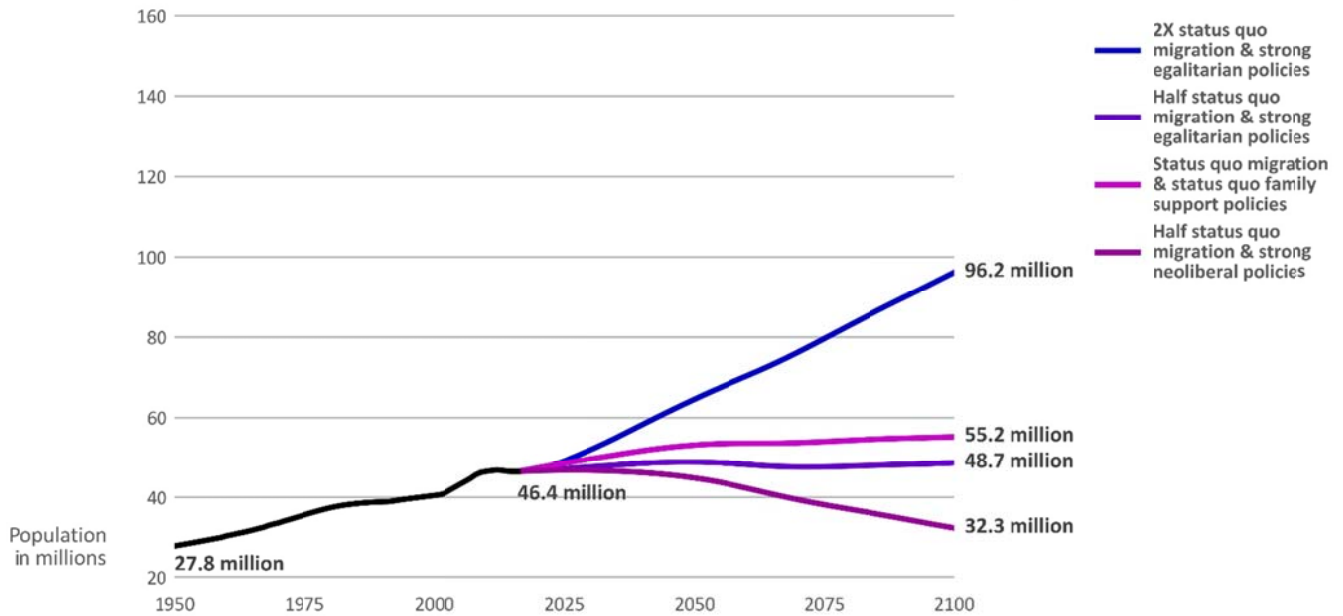
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.24	270,112	47.36	49.18	50.43	50.93	50.30	49.18	48.33	47.35	46.16
Moderate neo-liberal policy shift	1.39	270,112	47.39	49.41	51.06	52.02	51.91	51.40	51.24	50.96	50.49
Status quo social and economic policies	1.54	270,112	47.41	49.63	51.68	53.11	53.54	53.69	54.29	54.81	55.18
Moderate egalitarian policy shift	1.69	270,112	47.43	49.85	52.31	54.21	55.20	56.07	57.50	58.90	60.24
Strong egalitarian policy shift	1.84	270,112	47.45	50.07	52.94	55.32	56.89	58.52	60.85	63.23	65.68

Spain (continued)

3. A

Spain Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	1.89	540,224	47.16	51.91	58.25	64.57	70.28	76.32	83.15	89.75	96.21
½ status quo net migration & strong egalitarian policies	1.81	135,056	46.74	47.62	48.53	48.86	48.23	47.60	47.81	48.21	48.67
Status quo net migration & status quo family support policies	1.54	270,112	47.41	49.63	51.68	53.11	53.54	53.69	54.29	54.81	55.18
½ status quo net migration & strong neoliberal policies	1.21	135,056	46.65	46.77	46.20	44.83	42.32	39.36	36.95	34.64	32.27

Sweden

Population in 1950: 7.0 million

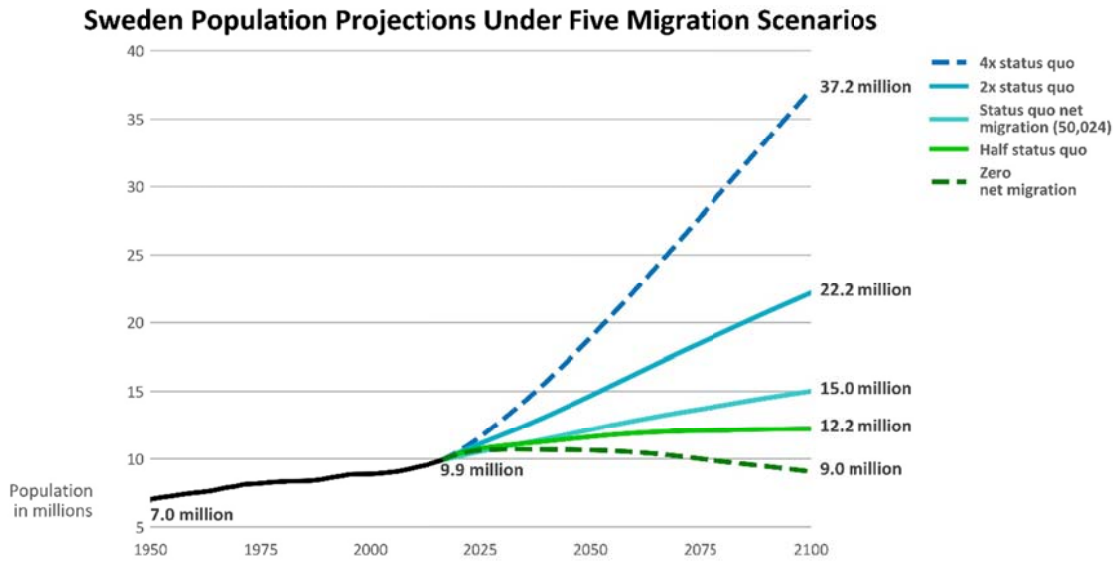
Current (2016) population: 9.9 million

Current (2016) total fertility rate: 1.85

Current (2016) net migration level: 117,693

Status quo annual net migration (20-year average, 1998-2017): 50,024

1. A



1. B

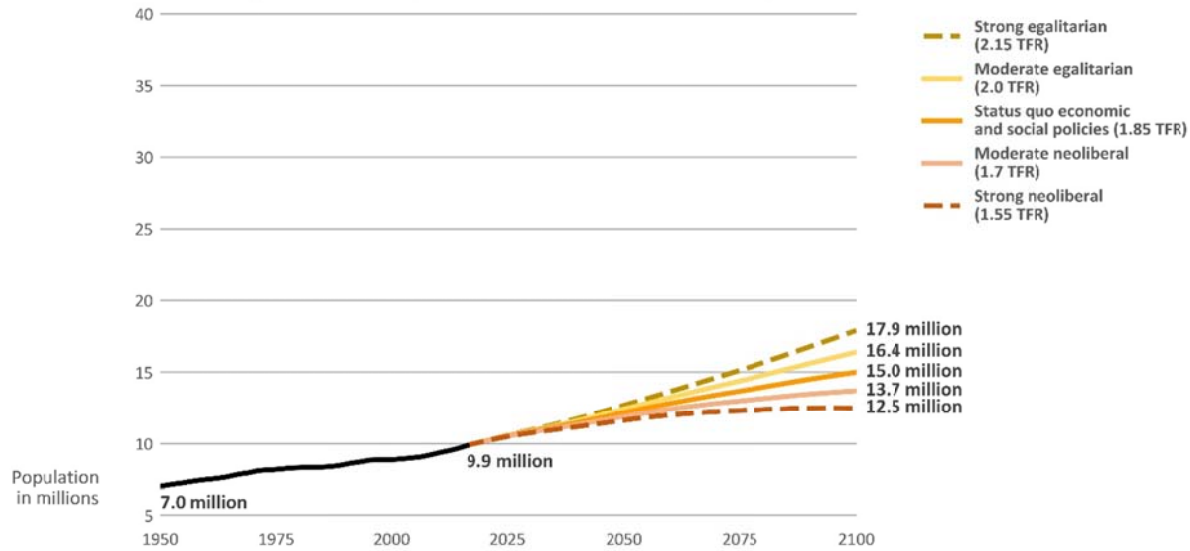
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.80	0	10.32	10.69	10.68	10.63	10.48	10.18	9.78	9.43	9.03
½ status quo net migration	1.83	25,012	10.34	10.96	11.30	11.63	11.90	12.05	12.11	12.19	12.23
Status quo net migration	1.85	50,024	10.16	10.86	11.48	12.16	12.82	13.41	13.94	14.50	15.00
2X status quo net migration	1.90	100,049	10.42	11.78	13.15	14.65	16.22	17.77	19.25	20.74	22.17
4X status quo net migration	2.05	200,097	10.53	12.90	15.72	18.90	22.35	25.99	29.69	33.43	37.18

Sweden (continued)

2. A

Sweden Population Projections Under Five Fertility Scenarios



2. B

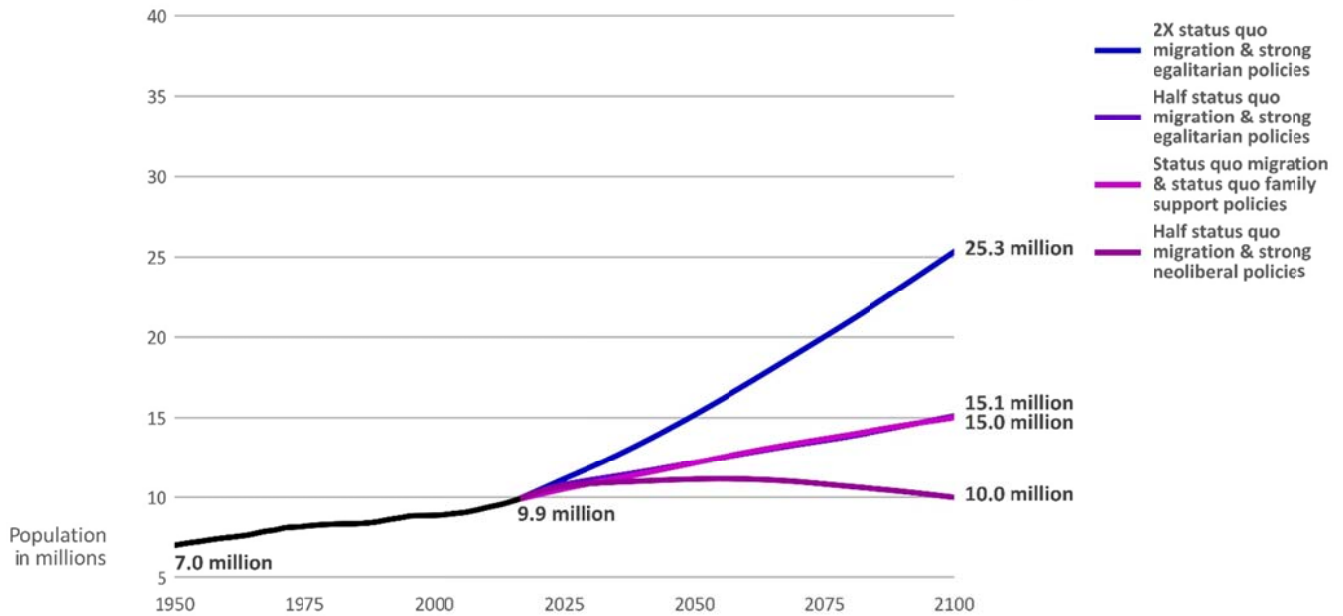
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.55	50,024	10.15	10.76	11.19	11.65	12.02	12.25	12.38	12.48	12.48
Moderate neo-liberal policy shift	1.70	50,024	10.15	10.81	11.34	11.90	12.41	12.82	13.14	13.46	13.69
Status quo social and economic policies	1.85	50,024	10.16	10.86	11.48	12.16	12.82	13.41	13.94	14.50	15.00
Moderate egalitarian policy shift	2.00	50,024	10.16	10.91	11.62	12.42	13.23	14.01	14.78	15.60	16.40
Strong egalitarian policy shift	2.15	50,024	10.17	10.96	11.76	12.68	13.65	14.64	15.65	16.77	17.91

Sweden (continued)

3. A

Sweden Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.20	100,049	10.43	11.87	13.42	15.17	17.06	19.04	21.05	23.17	25.34
½ status quo net migration & strong egalitarian policies	2.13	25,012	10.35	11.07	11.60	12.18	12.76	13.32	13.84	14.46	15.10
Status quo net migration & status quo family support policies	1.85	50,024	10.16	10.86	11.48	12.16	12.82	13.41	13.94	14.50	15.00
½ status quo net migration & strong neoliberal policies	1.53	25,012	10.33	10.86	11.01	11.13	11.14	10.97	10.67	10.36	9.98

United Kingdom

Population in 1950: 50.5 million

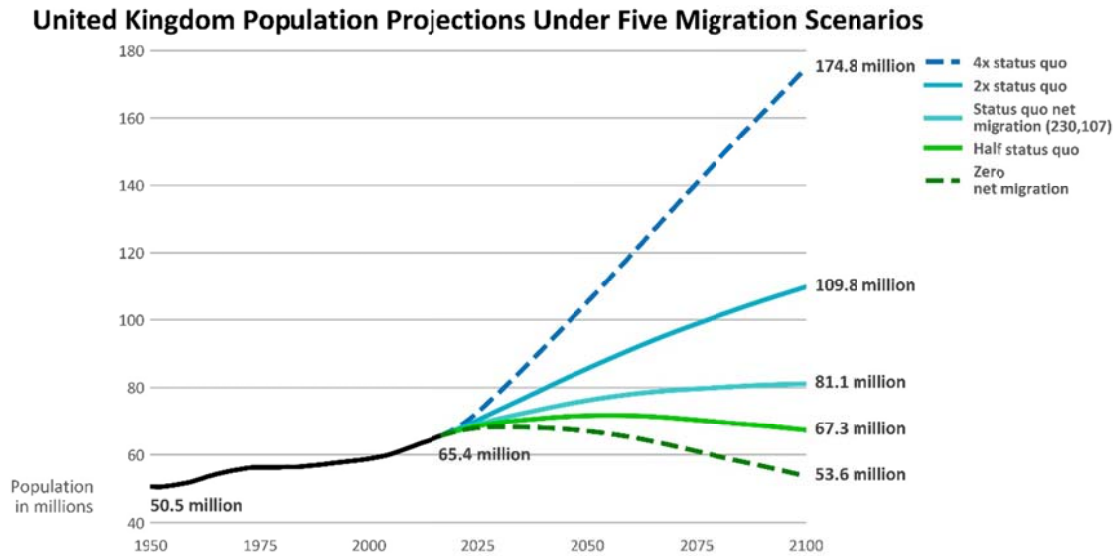
Current (2016) population: 65.4 million

Current (2016) total fertility rate: 1.79

Current (2016) net migration level: 247,286

Status quo annual net migration (20-year average, 1998-2017): 230,107

1. A



1. B

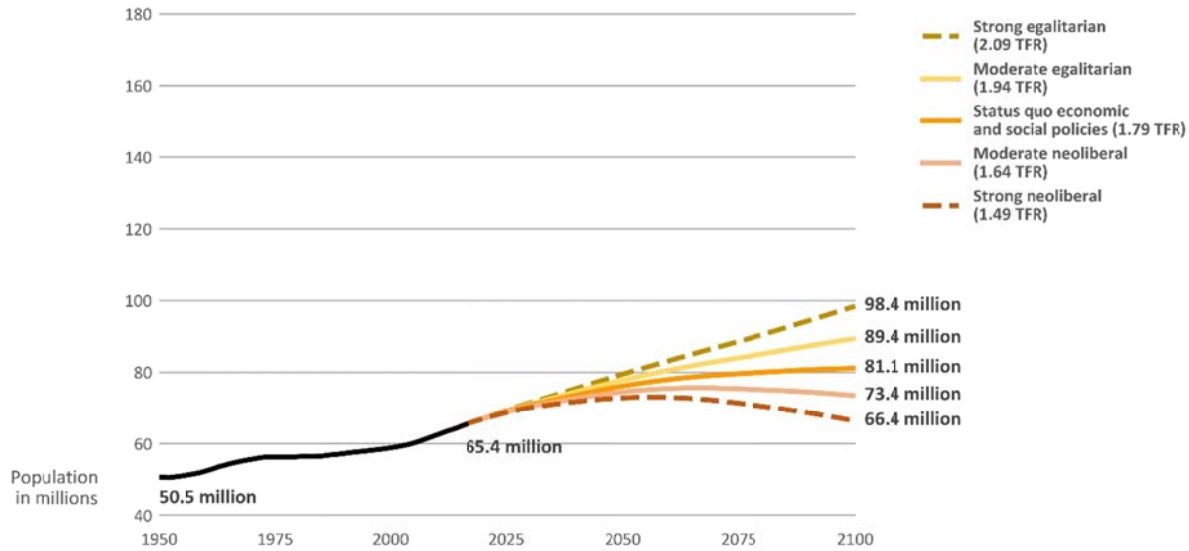
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Zero net migration	1.74	0	66.84	68.25	67.94	66.98	65.15	62.47	59.45	56.63	53.61
½ status quo net migration	1.76	115,054	66.97	69.54	70.83	71.58	71.60	70.84	69.68	68.60	67.27
Status quo net migration	1.79	230,107	67.04	70.74	73.62	76.10	77.97	79.18	79.94	80.66	81.09
2X status quo net migration	1.84	460,215	67.34	73.42	79.56	85.57	91.24	96.47	101.17	105.66	109.82
4X status quo net migration	1.99	920,430	67.85	78.75	91.77	105.33	119.34	133.69	147.61	161.24	174.83

United Kingdom (continued)

2. A

United Kingdom Population Projections Under Five Fertility Scenarios



2. B

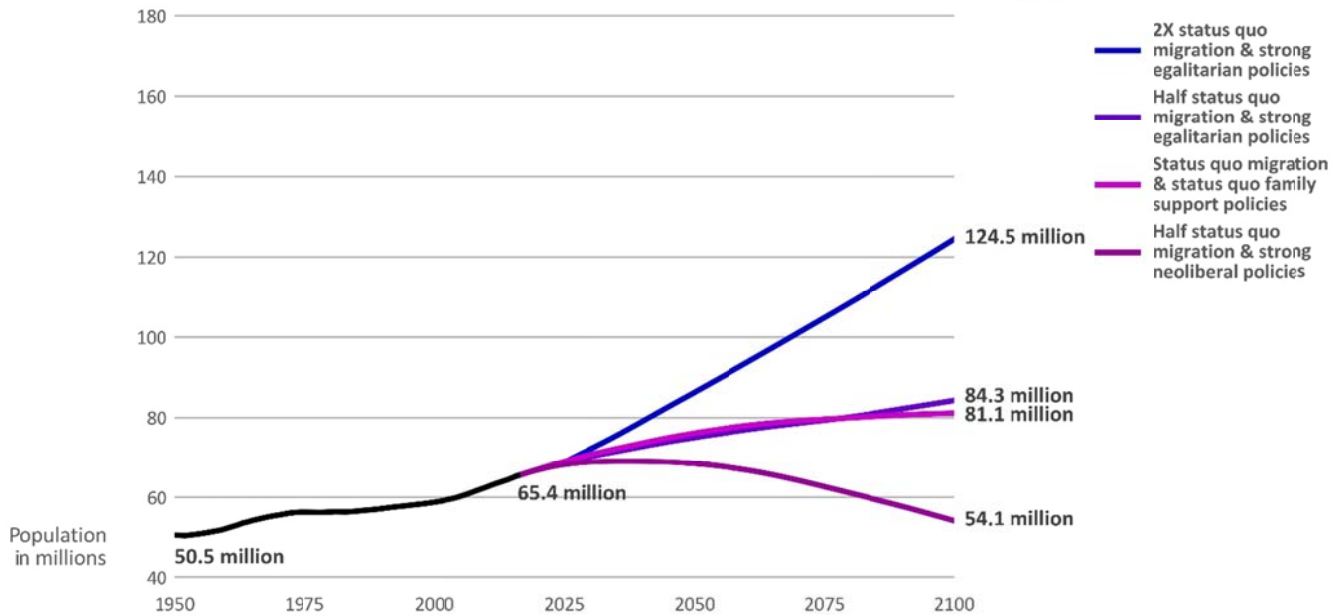
Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
Strong neo-liberal policy shift	1.49	230,107	66.97	70.06	71.76	72.82	72.95	72.05	70.46	68.65	66.37
Moderate neo-liberal policy shift	1.64	230,107	67.01	70.40	72.69	74.46	75.43	75.55	75.08	74.45	73.42
Status quo social and economic policies	1.79	230,107	67.04	70.74	73.62	76.10	77.97	79.18	79.94	80.66	81.09
Moderate egalitarian policy shift	1.94	230,107	67.07	71.08	74.55	77.76	80.56	82.95	85.05	87.29	89.41
Strong egalitarian policy shift	2.09	230,107	67.11	71.42	75.49	79.43	83.21	86.85	90.41	94.35	98.40

United Kingdom (continued)

3. A

United Kingdom Population Projections Under Four Combined Scenarios



3. B

Population in millions

Policy based scenario	TFR from 2036	Net migration from 2026	2020	2030	2040	2050	2060	2070	2080	2090	2100
2X status quo migration & strong egalitarian policies	2.14	460,215	67.04	72.11	79.06	86.30	93.59	101.11	108.74	116.57	124.48
½ status quo net migration & strong egalitarian policies	2.06	115,054	67.04	70.27	72.77	75.01	76.94	78.58	80.16	82.17	84.26
Status quo net migration & status quo family support policies	1.79	230,107	67.04	70.74	73.62	76.10	77.97	79.18	79.94	80.66	81.09
½ status quo net migration & strong neoliberal policies	1.46	115,054	66.90	68.87	69.03	68.46	66.87	64.22	60.99	57.71	54.09

Philip Cafaro (✉). Colorado State University, Department of Philosophy. Colorado, USA.
E-mail: philip.cafaro@colostate.edu
URL: www.philipcafaro.com

Patrícia Dérer. University of Gothenburg. Department of Biological & Environmental Sciences. Gothenburg, Sweden. E-mail:
patricia.derer@bioenv.gu.se
URL: <https://bioenv.gu.se/english/staff?languageId=100001&userId=xderpa>

Comparative Population Studies

www.comparativepopulationstudies.de

ISSN: 1869-8980 (Print) – 1869-8999 (Internet)

Published by

Prof. Dr. Norbert F. Schneider

Federal Institute for Population Research
D-65180 Wiesbaden / Germany

 2019

Managing Editor

Prof. Philip Rees
Dr. Katrin Schiefer

Copy Editor

Julia Luther

Editorial Assistant

Beatriz Feiler-Fuchs
Wiebke Hamann

Layout

Beatriz Feiler-Fuchs

E-mail: cpos@bib.bund.de

Scientific Advisory Board

Karsten Hank (Cologne)
Michaela Kreyenfeld (Berlin)
Marc Luy (Vienna)
Natalie Nitsche (Vienna)
Peter Preisendörfer (Mainz)
Zsolt Spéder (Budapest)
Rainer Wehrhahn (Kiel)

Board of Reviewers

Martin Abraham (Erlangen)
Laura Bernardi (Lausanne)
Hansjörg Bucher (Bonn)
Claudia Diehl (Konstanz)
Andreas Diekmann (Zurich)
Gabriele Doblhammer-Reiter (Rostock)
Jürgen Dorbritz (Wiesbaden)
Anette Eva Fasang (Berlin)
E.-Jürgen Flöthmann (Bielefeld)
Alexia Fürnkranz-Prskawetz (Vienna)
Beat Fux (Salzburg)
Joshua Goldstein (Berkeley)
Sonja Haug (Regensburg)
Hill Kulu (Liverpool)
Aart C. Liefbroer (The Hague)
Kurt Lüscher (Konstanz)
Emma Lundholm (Umeå)
Nadja Milewski (Rostock)
Dimiter Philipov (Vienna)
Roland Rau (Rostock)
Tomáš Sobotka (Vienna)
Jeroen Spijker (Barcelona)
Olivier Thévenon (Paris)
Helga de Valk (Brussels)
Heike Trappe (Rostock)
Michael Wagner (Cologne)