

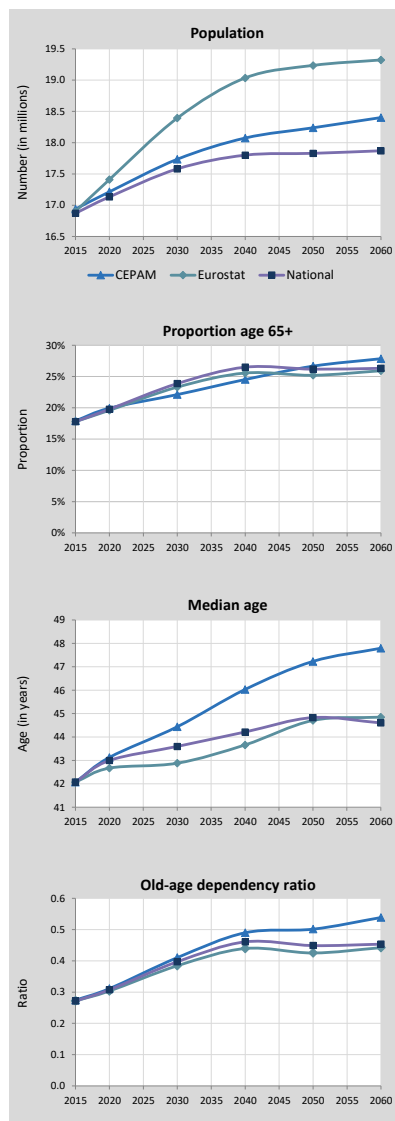
Netherlands

Detailed Human Capital projections to 2060

Comparison of CEPAM projections with other sources

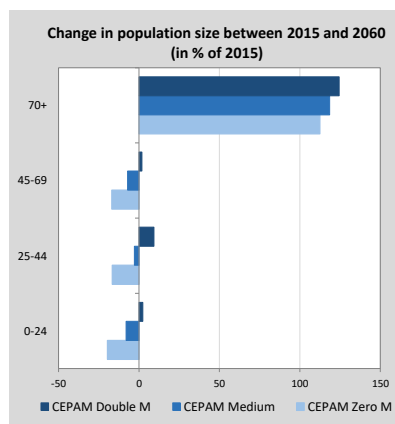
Demographic indicators - CEPAM Medium Scenario (SSP2), Eurostat and national projections							
		2015	2020	2030	2040	2050	2060
Population (in millions)	CEPAM	16.94	17.21	17.74	18.07	18.24	18.40
	Eurostat	16.90	17.41	18.39	19.04	19.24	19.32
	National	16.87	17.13	17.58	17.80	17.83	17.87
Proportion age 65+	CEPAM	17.9%	19.9%	22.1%	24.5%	26.7%	27.9%
	Eurostat	17.8%	19.6%	23.3%	25.6%	25.2%	25.9%
	National	17.8%	19.8%	23.9%	26.5%	26.2%	26.3%
Proportion below age 20	CEPAM	22.7%	21.9%	20.8%	20.5%	19.8%	19.5%
	Eurostat	22.7%	21.8%	21.2%	21.7%	21.1%	20.7%
	National	22.6%	21.9%	21.2%	21.4%	20.9%	20.8%
Median age	CEPAM	42.1	43.1	44.4	46.0	47.2	47.8
	Eurostat	42.1	42.7	42.9	43.7	44.7	44.8
	National	42.1	43.0	43.6	44.2	44.8	44.6
Old-age dependency ratio (65+/15-64)	CEPAM	0.27	0.31	0.41	0.49	0.50	0.54
	Eurostat	0.27	0.30	0.38	0.44	0.43	0.44
	National	0.27	0.31	0.40	0.46	0.45	0.45
Young-age dependency ratio (0-14/15-64)	CEPAM	0.26	0.25	0.26	0.27	0.26	0.26
	Eurostat	0.26	0.25	0.26	0.28	0.26	0.26
	National	0.26	0.25	0.27	0.28	0.27	0.27
Parent support ratio (85+/50-64)	CEPAM	0.10	0.11	0.17	0.30	0.39	0.49
	Eurostat	0.10	0.11	0.17	0.28	0.32	0.35
	National	0.10	0.11	0.17	0.28	0.35	0.39

Demographic assumptions underlying projections							
		2010-2015	2015-2020	2025-2030	2035-2040	2045-2050	2055-2060
Total fertility rate	CEPAM	1.76	1.76	1.76	1.79	1.78	1.78
	Eurostat	1.71	1.73	1.74	1.75	1.77	1.79
	National	1.74	1.75	1.75	1.75	1.75	1.75
Life expectancy at birth (in years)							
Male	CEPAM	80.3	81.4	82.4	84.5	86.6	88.7
	Eurostat	80.2	81.0	81.7	82.9	84.1	85.3
	National	80.5	81.3	82.2	83.8	85.3	86.7
Female	CEPAM	83.8	84.8	85.9	88.1	90.2	92.4
	Eurostat	83.7	84.5	85.1	86.4	87.6	88.8
	National	83.7	84.3	85.0	86.5	88.1	89.5
Five-year net migration flow (in thousands)	CEPAM	106.2	117.9	128.5	148.0	165.0	177.5
	Eurostat	349.9	324.9	309.1	204.9	169.8	147.4
	National	159.0	102.8	93.5	85.6	82.1	69.1



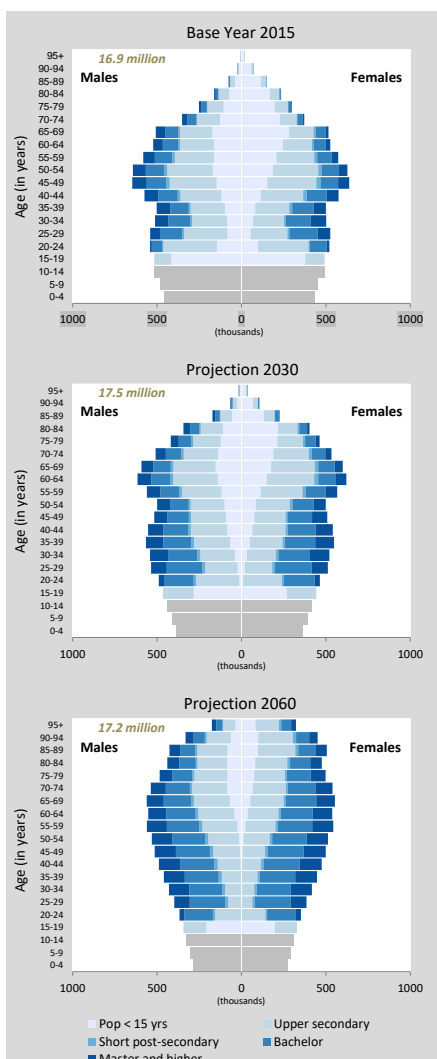
Changes in population size and structure according to CEPAM scenarios (impact of migration)

Population size according to CEPAM projections to 2060							
		2015	2020	2030	2040	2050	2060
Population (in millions)	Zero M	16.94	17.10	17.31	17.25	16.95	16.56
	Medium	16.94	17.21	17.74	18.07	18.24	18.40
	Double M	16.94	17.33	18.15	18.85	19.43	20.06
Population 0-24 (in millions)	Zero M	4.91	4.75	4.51	4.37	4.15	3.95
	Medium	4.91	4.78	4.65	4.65	4.58	4.52
	Double M	4.91	4.82	4.79	4.92	4.97	5.03
Population 25-44 (in millions)	Zero M	4.23	4.14	4.13	3.83	3.61	3.53
	Medium	4.23	4.20	4.34	4.15	4.05	4.11
	Double M	4.23	4.27	4.54	4.45	4.44	4.63
Population 45-69 (in millions)	Zero M	5.78	5.79	5.51	5.12	5.02	4.81
	Medium	5.78	5.80	5.58	5.32	5.41	5.37
	Double M	5.78	5.81	5.64	5.51	5.78	5.89
Population 70+ (in millions)	Zero M	2.01	2.43	3.16	3.94	4.16	4.27
	Medium	2.01	2.43	3.17	3.95	4.20	4.40
	Double M	2.01	2.43	3.17	3.97	4.25	4.52



Netherlands (Continued)

Pyramids by education, CEPAM Medium

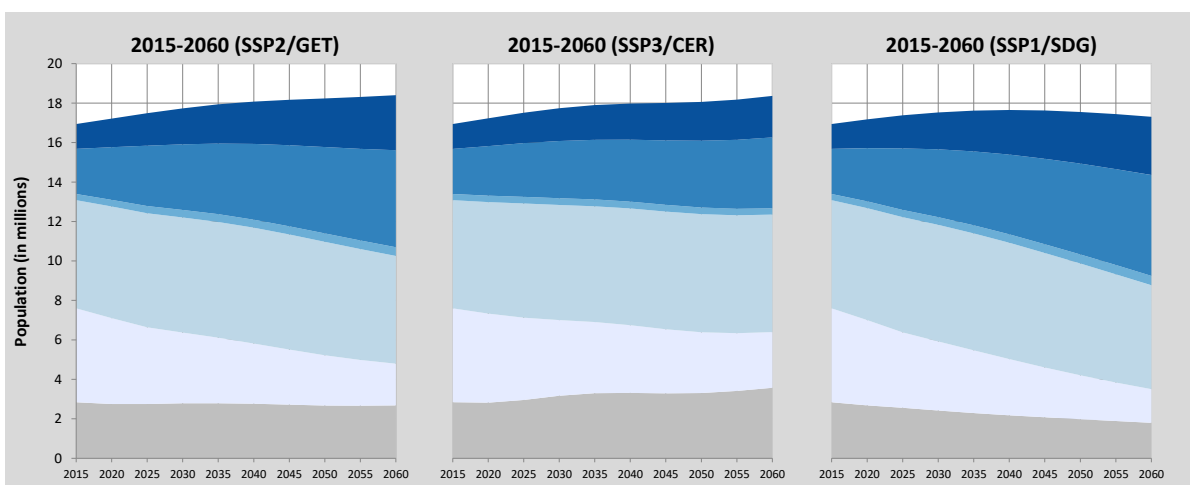


Detailed Human Capital projections to 2060

Human Capital indicators, CEPAM Medium (SSP2)

	2015	2020	2030	2040	2050	2060
Population age 25+: highest educational attainment (columns sum to 100%)						
E1-E4 - lower secondary and below	31.0%	28.0%	22.5%	17.9%	14.1%	11.3%
E5 - upper secondary	38.7%	38.8%	38.8%	38.5%	37.4%	35.6%
E6 - short post-secondary	2.5%	2.6%	2.7%	2.8%	2.9%	2.9%
E7 - bachelor	17.7%	19.4%	22.6%	25.5%	28.5%	31.3%
E8 - master and higher	10.2%	11.3%	13.3%	15.3%	17.1%	18.9%
Mean years of schooling (in years)	11.98	12.21	12.63	13.00	13.35	13.67
Age gap: highest educational attainment (ratio 35-44/50-64)						
E1-E4 - lower secondary and below	0.59	0.62	0.63	0.57	0.57	0.69
E5 - upper secondary	1.06	0.93	0.89	0.94	0.90	0.87
E6 - short post-secondary	1.07	0.81	0.77	1.09	1.19	1.14
E7 - bachelor	1.35	1.50	1.44	1.23	1.18	1.14
E8 - master and higher	1.57	1.53	1.34	1.21	1.18	1.14
Mean years of schooling (35-44 minus 50-64)	0.98	0.90	0.77	0.71	0.65	0.62
Gender gap (population age 25+): highest educational attainment (% males - %females)						
E1-E4 - lower secondary and below	-8.96	-7.03	-3.88	-1.42	0.41	1.38
E5 - upper secondary	4.43	3.71	2.81	2.44	2.57	3.21
E6 - short post-secondary	-0.25	-0.24	-0.21	-0.16	-0.05	0.09
E7 - bachelor	1.48	0.83	-0.37	-1.45	-2.44	-3.27
E8 - master and higher	3.31	2.74	1.66	0.59	-0.49	-1.41
Mean years of schooling (male minus female)	0.60	0.50	0.30	0.10	-0.10	-0.20
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1-E4 - lower secondary and below	15%	13%	9%	7%	6%	5%
E5 - upper secondary	44%	41%	39%	36%	34%	32%
E6 - short post-secondary	2%	2%	2%	3%	3%	3%
E7 - bachelor	27%	30%	34%	37%	39%	41%
E8 - master and higher	12%	14%	16%	17%	18%	19%
Mean years of schooling (in years)	13.04	13.32	13.77	14.07	14.34	14.56
Age gap among women: highest educational attainment (ratio 35-44/50-64)						
E1-E4 - lower secondary and below	0.49	0.53	0.55	0.54	0.54	0.64
E5 - upper secondary	1.09	0.90	0.84	0.91	0.87	0.85
E6 - short post-secondary	1.13	0.79	0.64	0.99	1.18	1.14
E7 - bachelor	1.53	1.71	1.53	1.22	1.18	1.14
E8 - master and higher	2.02	1.92	1.56	1.25	1.18	1.14
Mean years of schooling (35-44 minus 50-64)	1.32	1.21	1.00	0.79	0.70	0.68

Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG



Colour legend as in pyramids above

Education scenarios

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

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

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

Netherlands (Continued)

Alternative scenarios to 2100

Projection results by scenario (SSP1-SSP3)

	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	16.94	17.18	17.53	17.55	17.31	16.89	16.09
SSP2 - CEPAM Zero Migration	16.94	17.10	17.31	16.95	16.56	16.08	15.36
SSP2 - CEPAM Medium	16.94	17.22	17.74	18.24	18.40	18.84	19.70
SSP2 - CEPAM Double Migration	16.94	17.33	18.15	19.43	20.06	21.23	23.20
SSP3 - Stalled Development	16.94	17.23	17.74	18.06	18.37	19.22	21.55

Proportion age 65+

SSP1 - Rapid Development	17.9%	20.1%	25.6%	33.0%	36.7%	42.7%	51.6%
SSP2 - CEPAM Zero Migration	17.9%	20.1%	25.1%	30.2%	32.0%	34.6%	38.9%
SSP2 - CEPAM Medium	17.9%	19.9%	24.5%	28.5%	29.9%	32.2%	36.0%
SSP2 - CEPAM Double Migration	17.9%	19.8%	24.0%	27.1%	28.4%	30.7%	34.7%
SSP3 - Stalled Development	17.9%	19.8%	23.7%	25.3%	24.9%	23.9%	23.9%

Proportion below age 20

SSP1 - Rapid Development	22.7%	21.5%	19.0%	15.5%	14.3%	12.8%	10.8%
SSP2 - CEPAM Zero Migration	22.7%	21.9%	20.6%	19.3%	18.8%	18.3%	16.9%
SSP2 - CEPAM Medium	22.7%	21.9%	20.8%	19.8%	19.5%	19.0%	17.8%
SSP2 - CEPAM Double Migration	22.7%	21.9%	21.0%	20.2%	19.9%	19.5%	18.2%
SSP3 - Stalled Development	22.7%	22.3%	22.9%	24.5%	25.4%	26.2%	26.1%

Proportion of women age 20-39 with post-secondary education

SSP1 - Rapid Development	41.2%	47.7%	57.4%	71.8%	76.6%	80.9%	83.5%
SSP2 - CEPAM Zero Migration	41.2%	48.0%	57.3%	68.8%	73.3%	78.0%	82.1%
SSP2 - CEPAM Medium	41.2%	47.2%	55.8%	66.8%	71.2%	75.9%	80.3%
SSP2 - CEPAM Double Migration	41.2%	46.4%	54.5%	65.2%	69.7%	74.5%	79.4%
SSP3 - Stalled Development	41.2%	43.1%	44.4%	43.3%	44.0%	43.5%	43.8%

Mean years of schooling, age 25+

SSP1 - Rapid Development	12.0	12.2	12.7	13.5	13.9	14.3	14.9
SSP2 - CEPAM Zero Migration	12.0	12.3	12.7	13.5	13.9	14.4	14.9
SSP2 - CEPAM Medium	12.0	12.2	12.6	13.4	13.7	14.1	14.6
SSP2 - CEPAM Double Migration	12.0	12.2	12.5	13.2	13.5	13.9	14.5
SSP3 - Stalled Development	12.0	12.2	12.6	13.2	13.3	13.5	13.5

Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.63	1.52	1.39	1.33	1.33	1.32	1.32
SSP2 - CEPAM Zero Migration	1.76	1.76	1.78	1.78	1.78	1.77	1.76
SSP2 - CEPAM Medium	1.76	1.76	1.78	1.78	1.77	1.76	1.76
SSP2 - CEPAM Double Migration	1.76	1.76	1.78	1.78	1.77	1.76	1.75
SSP3 - Stalled Development	1.91	2.07	2.28	2.37	2.36	2.36	2.34

Life expectancy at birth for females (in years)

SSP1 - Rapid Development	84.3	85.8	89.0	95.3	98.5	103.2	108.3
SSP2 - CEPAM Zero Migration	83.8	84.9	87.0	91.4	93.5	96.8	101.1
SSP2 - CEPAM Medium	83.8	84.8	87.0	91.3	93.5	96.7	101.0
SSP2 - CEPAM Double Migration	83.8	84.8	87.0	91.3	93.4	96.6	100.9
SSP3 - Stalled Development	83.3	83.8	85.0	87.3	88.5	90.2	92.4

Migration – net flow over five years (in thousands)

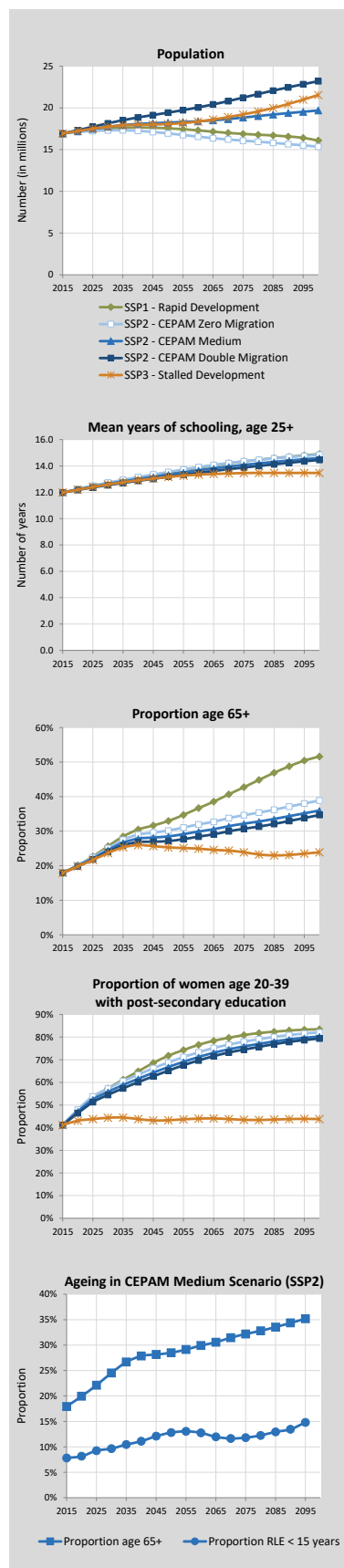
SSP1 - Rapid Development	106.3	116.4	130.7	147.4	148.6	140.7	119.0
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	106.3	117.8	138.4	171.0	179.8	181.9	171.3
SSP2 - CEPAM Double Migration	212.3	232.0	265.9	314.0	322.6	313.9	278.3
SSP3 - Stalled Development	70.8	39.8	0.1	0.2	0.2	0.3	0.3

Ageing indicators by scenario

	2015	2020	2030	2050	2060	2075	2095
Median age							
SSP1 - Rapid Development	42.1	43.4	45.7	51.6	54.5	58.9	65.4
SSP2 - CEPAM Zero Migration	42.1	43.3	45.1	48.5	49.5	51.1	53.9
SSP2 - CEPAM Medium	42.1	43.1	44.4	47.2	47.8	49.0	51.4
SSP2 - CEPAM Double Migration	42.1	42.9	43.9	46.3	46.6	47.9	50.3
SSP3 - Stalled Development	42.1	42.9	43.5	43.0	40.8	40.3	39.9

Proportion with less than 15 years of remaining life expectancy (RLE)

SSP1 - Rapid Development	7.8%	8.1%	9.6%	12.8%	12.8%	11.8%	14.8%
SSP2 - CEPAM Zero Migration	8.2%	9.0%	10.5%	14.2%	13.0%	13.1%	13.4%
SSP2 - CEPAM Medium	8.2%	8.9%	10.2%	13.2%	11.8%	11.5%	11.7%
SSP2 - CEPAM Double Migration	8.2%	8.8%	10.0%	12.4%	10.9%	10.6%	10.8%
SSP3 - Stalled Development	7.8%	9.7%	11.5%	13.9%	11.9%	11.2%	9.1%



Netherlands (Continued)

Labour force projections to 2060

Labour force indicators

	2015	2020	2030	2040	2050	2060
Labour force size, by participation and migration scenario (in millions)						
Constant (CEPAM Zero Migration)	8.99	8.97	8.61	8.27	8.09	7.80
Constant (CEPAM Medium)	8.99	9.03	8.85	8.75	8.85	8.84
Constant (CEPAM Double Migration)	8.99	9.10	9.09	9.19	9.54	9.77
Swedish (CEPAM Zero Migration)	8.99	9.04	8.81	8.58	8.50	8.30
Swedish (CEPAM Medium)	8.99	9.10	9.06	9.06	9.29	9.41
Swedish (CEPAM Double Migration)	8.99	9.17	9.30	9.53	10.02	10.40
Equalization (CEPAM Zero Migration)	8.99	9.03	8.79	8.53	8.42	8.19
Equalization (CEPAM Medium)	8.99	9.10	9.04	9.03	9.22	9.30
Equalization (CEPAM Double Migration)	8.99	9.17	9.29	9.50	9.95	10.30
Constant (CEPAM Medium-low fertility)	8.99	9.03	8.85	8.61	8.38	7.95
Swedish (CEPAM Medium-low fertility)	8.99	9.10	9.06	8.92	8.81	8.50
Equalization (CEPAM Medium-low fertility)	8.99	9.10	9.04	8.89	8.75	8.40

Labour force participation rates, age 15+, by participation scenario (CEPAM Medium)

TOTAL (Constant)	63.7%	62.4%	59.2%	57.1%	56.8%	56.2%
TOTAL (Swedish)	63.7%	62.9%	60.6%	59.2%	59.7%	59.8%
TOTAL (Equalization)	63.7%	62.9%	60.5%	58.9%	59.2%	59.1%
MALE (Constant)	69.8%	68.0%	64.3%	61.8%	61.4%	60.6%
MALE (Swedish)	69.8%	68.3%	65.2%	63.2%	63.2%	63.0%
MALE (Equalization)	69.8%	68.0%	64.3%	61.8%	61.4%	60.6%
FEMALE (Constant)	57.8%	57.0%	54.2%	52.5%	52.4%	51.9%
FEMALE (Swedish)	57.8%	57.6%	56.1%	55.3%	56.2%	56.7%
FEMALE (Equalization)	57.8%	57.9%	56.7%	56.1%	57.1%	57.7%

Labour force (15+) by highest level of educational attainment. Columns sum to 100%. (CEPAM Medium; Constant participation)

TOTAL E1-E4 - lower secondary and below	23.1%	20.0%	15.1%	12.6%	10.4%	8.5%
TOTAL E5 - upper secondary	42.2%	41.6%	39.4%	36.6%	34.0%	31.2%
TOTAL E6 - short post-secondary	2.7%	2.8%	2.8%	2.7%	2.8%	3.1%
TOTAL E7 - bachelor	20.2%	22.6%	27.1%	30.6%	33.6%	36.3%
TOTAL E8 - master and higher	11.8%	13.1%	15.7%	17.6%	19.2%	20.9%
MALE E1-E4 - lower secondary and below	24.3%	21.5%	16.8%	14.3%	11.8%	9.6%
MALE E5 - upper secondary	42.2%	41.8%	40.6%	38.7%	36.7%	34.5%
MALE E6 - short post-secondary	2.4%	2.5%	2.7%	2.7%	3.0%	3.2%
MALE E7 - bachelor	18.9%	21.0%	24.9%	27.9%	30.7%	33.3%
MALE E8 - master and higher	12.2%	13.2%	15.0%	16.4%	17.7%	19.3%
FEMALE E1-E4 - lower secondary and below	21.7%	18.2%	13.1%	10.7%	8.8%	7.2%
FEMALE E5 - upper secondary	42.2%	41.3%	38.0%	34.1%	30.8%	27.5%
FEMALE E6 - short post-secondary	3.1%	3.0%	2.8%	2.6%	2.7%	2.9%
FEMALE E7 - bachelor	21.7%	24.5%	29.7%	33.6%	36.9%	39.8%
FEMALE E8 - master and higher	11.3%	13.0%	16.4%	18.9%	20.8%	22.7%

Labour force size by educational attainment according to three migration scenarios, 2015-2060 (Labour force participation = Constant scenario)

