

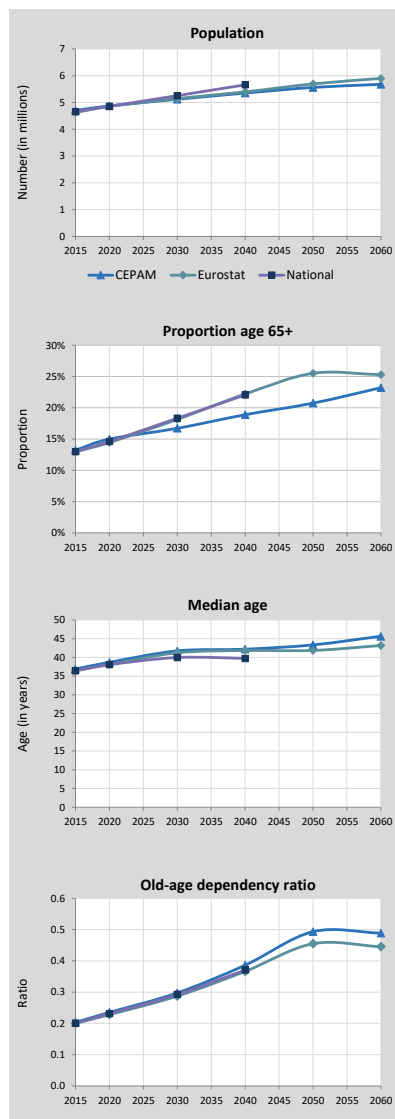
# Ireland

## Detailed Human Capital projections to 2060

### Comparison of CEPAM projections with other sources

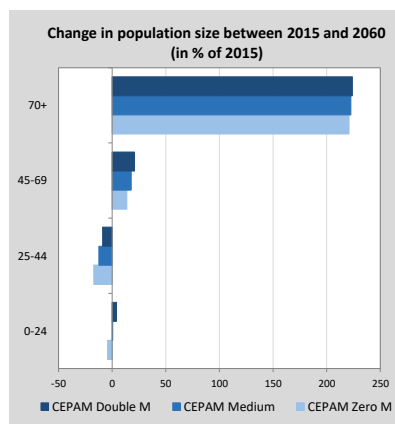
Demographic indicators - CEPAM Medium Scenario (SSP2), Eurostat and national projections							
		2015	2020	2030	2040	2050	2060
Population (in millions)	CEPAM	4.70	4.87	5.12	5.35	5.56	5.68
	Eurostat	4.63	4.85	5.15	5.40	5.69	5.90
	National	4.66	4.86	5.25	5.66	-	-
Proportion age 65+	CEPAM	13.2%	15.0%	16.7%	18.9%	20.7%	23.2%
	Eurostat	13.0%	14.5%	18.1%	22.2%	25.5%	25.3%
	National	13.0%	14.6%	18.3%	22.1%	-	-
Proportion below age 20	CEPAM	27.5%	27.6%	24.5%	22.2%	22.6%	21.7%
	Eurostat	28.2%	28.5%	26.2%	23.2%	23.9%	24.1%
	National	28.5%	28.7%	26.2%	24.3%	-	-
Median age	CEPAM	36.9	38.7	41.7	42.2	43.3	45.6
	Eurostat	36.5	38.1	41.2	41.8	41.9	43.2
	National	36.4	38.1	40.0	39.7	-	-
Old-age dependency ratio (65+/15-64)	CEPAM	0.20	0.24	0.30	0.39	0.49	0.49
	Eurostat	0.20	0.23	0.29	0.37	0.45	0.45
	National	0.20	0.23	0.29	0.37	-	-
Young-age dependency ratio (0-14/15-64)	CEPAM	0.33	0.33	0.28	0.28	0.31	0.28
	Eurostat	0.34	0.35	0.30	0.28	0.33	0.31
	National	0.34	0.35	0.30	0.31	-	-
Parent support ratio (85+/50-64)	CEPAM	0.08	0.08	0.11	0.19	0.34	0.42
	Eurostat	0.08	0.09	0.11	0.17	0.29	0.37
	National	0.08	0.09	0.12	0.21	-	-

Demographic assumptions underlying projections							
		2010-2015	2015-2020	2025-2030	2035-2040	2045-2050	2055-2060
Total fertility rate	CEPAM	2.00	1.98	1.96	1.94	1.92	1.89
	Eurostat	1.95	1.96	1.96	1.96	1.96	1.96
	National	2.10	2.10	2.10	2.10	-	-
Life expectancy at birth (in years)							
Male	CEPAM	79.8	80.7	81.7	83.7	85.6	87.6
	Eurostat	79.7	80.5	81.2	82.5	83.8	85.0
	National	80.1	81.3	82.4	84.1	-	-
Female	CEPAM	83.7	84.7	85.7	87.8	89.8	91.9
	Eurostat	83.8	84.5	85.2	86.5	87.8	89.0
	National	84.3	85.2	86.1	87.6	-	-
Five-year net migration flow (in thousands)	CEPAM	6.6	8.7	11.1	15.8	18.9	21.5
	Eurostat	53.8	40.9	35.0	61.2	67.6	62.9
	National	-16.1	47.6	50.0	50.0	-	-



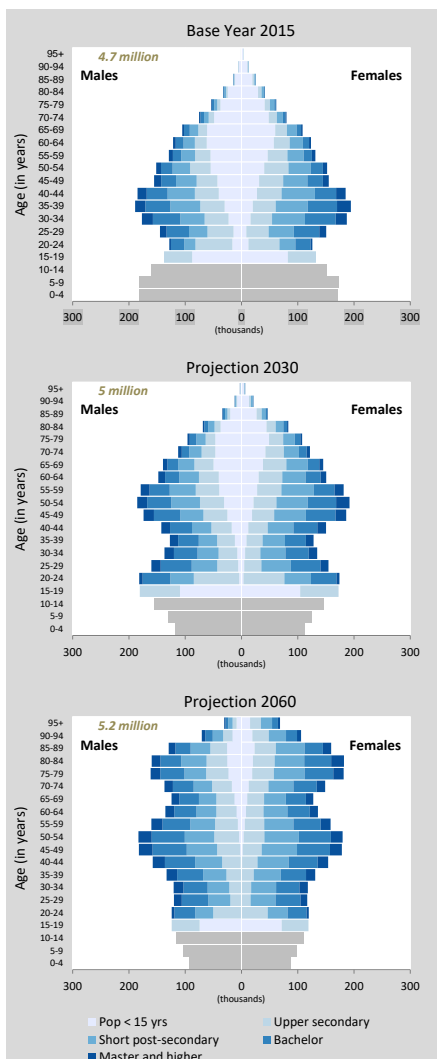
### Changes in population size and structure according to CEPAM scenarios (impact of migration)

Population size according to CEPAM projections to 2060							
		2015	2020	2030	2040	2050	2060
Population (in millions)	Zero M	4.70	4.87	5.09	5.27	5.43	5.48
	Medium	4.70	4.87	5.12	5.35	5.56	5.68
	Double M	4.70	4.88	5.15	5.42	5.67	5.83
Population 0-24 (in millions)	Zero M	1.55	1.61	1.60	1.48	1.49	1.48
	Medium	1.55	1.62	1.61	1.52	1.54	1.55
	Double M	1.55	1.62	1.62	1.54	1.58	1.61
Population 25-44 (in millions)	Zero M	1.41	1.29	1.13	1.28	1.32	1.17
	Medium	1.41	1.30	1.14	1.31	1.36	1.24
	Double M	1.41	1.30	1.16	1.34	1.40	1.29
Population 45-69 (in millions)	Zero M	1.33	1.46	1.68	1.61	1.45	1.52
	Medium	1.33	1.46	1.68	1.62	1.49	1.57
	Double M	1.33	1.46	1.69	1.64	1.51	1.61
Population 70+ (in millions)	Zero M	0.41	0.50	0.68	0.90	1.17	1.31
	Medium	0.41	0.50	0.69	0.90	1.17	1.32
	Double M	0.41	0.50	0.69	0.90	1.18	1.32



# Ireland (Continued)

Pyramids by education, CEPAM Medium

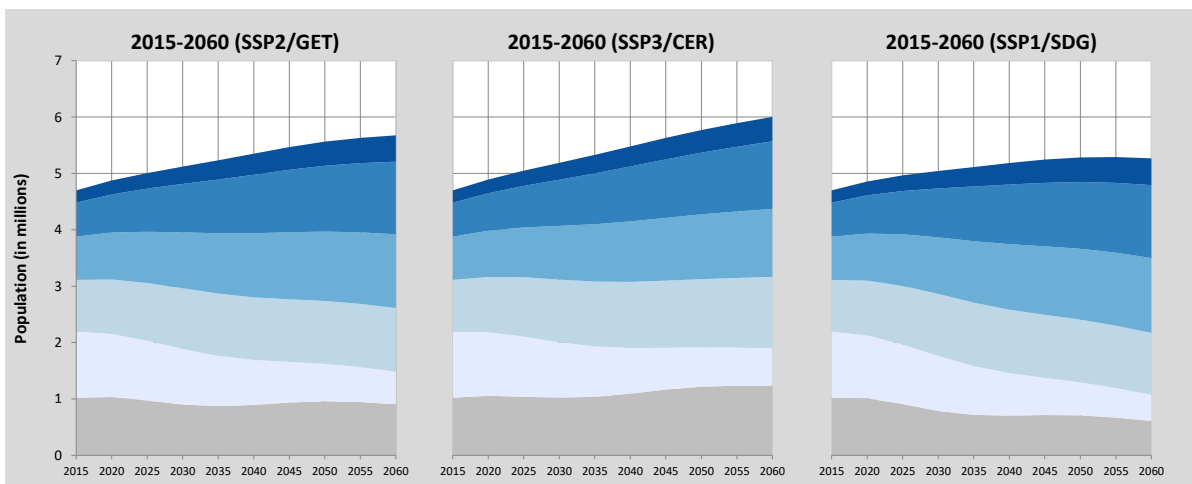


Detailed Human Capital projections to 2060

Human Capital indicators, CEPAM Medium (SSP2)

	2015	2020	2030	2040	2050	2060
<b>Population age 25+: highest educational attainment (columns sum to 100%)</b>						
E1-E4 - lower secondary and below	30.7%	27.6%	21.2%	15.4%	11.3%	8.6%
E5 - upper secondary	22.2%	22.5%	22.9%	23.0%	22.7%	22.1%
E6 - short post-secondary	22.8%	23.8%	25.7%	27.4%	28.7%	29.5%
E7 - bachelor	17.5%	18.8%	21.8%	24.7%	27.0%	28.9%
E8 - master and higher	6.8%	7.3%	8.4%	9.4%	10.3%	11.0%
Mean years of schooling (in years)	11.82	12.16	12.84	13.49	14.00	14.43
<b>Age gap: highest educational attainment (ratio 35-44/50-64)</b>						
E1-E4 - lower secondary and below	0.40	0.41	0.54	0.55	0.51	0.66
E5 - upper secondary	0.95	0.87	0.99	0.99	0.91	0.91
E6 - short post-secondary	1.40	1.20	1.00	1.07	1.10	1.06
E7 - bachelor	1.90	1.84	1.34	1.13	1.11	1.06
E8 - master and higher	2.18	1.82	1.16	1.07	1.11	1.06
Mean years of schooling (35-44 minus 50-64)	1.97	2.48	2.10	0.91	0.56	0.37
<b>Gender gap (population age 25+): highest educational attainment (% males - %females)</b>						
E1-E4 - lower secondary and below	4.58	4.34	3.46	2.75	2.33	1.94
E5 - upper secondary	-1.23	-0.83	0.21	1.23	2.05	2.77
E6 - short post-secondary	-3.70	-3.88	-4.19	-4.61	-5.01	-5.32
E7 - bachelor	0.00	-0.05	-0.02	-0.04	-0.11	-0.16
E8 - master and higher	0.35	0.41	0.54	0.67	0.73	0.77
Mean years of schooling (male minus female)	-0.20	-0.20	-0.10	0.00	0.00	0.00
<b>Women age 20-39: highest educational attainment (columns sum to 100%)</b>						
E1-E4 - lower secondary and below	9%	8%	6%	4%	4%	3%
E5 - upper secondary	26%	27%	27%	25%	24%	24%
E6 - short post-secondary	29%	29%	30%	32%	32%	32%
E7 - bachelor	27%	28%	29%	30%	31%	31%
E8 - master and higher	9%	8%	8%	9%	9%	9%
Mean years of schooling (in years)	14.26	14.55	14.74	14.92	15.04	15.09
<b>Age gap among women: highest educational attainment (ratio 35-44/50-64)</b>						
E1-E4 - lower secondary and below	0.36	0.38	0.54	0.57	0.48	0.60
E5 - upper secondary	0.85	0.75	0.92	0.96	0.89	0.89
E6 - short post-secondary	1.36	1.17	1.04	1.09	1.10	1.06
E7 - bachelor	2.03	1.90	1.32	1.10	1.10	1.06
E8 - master and higher	2.63	2.11	1.08	1.00	1.10	1.06
Mean years of schooling (35-44 minus 50-64)	2.07	2.58	2.01	0.79	0.55	0.38

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)

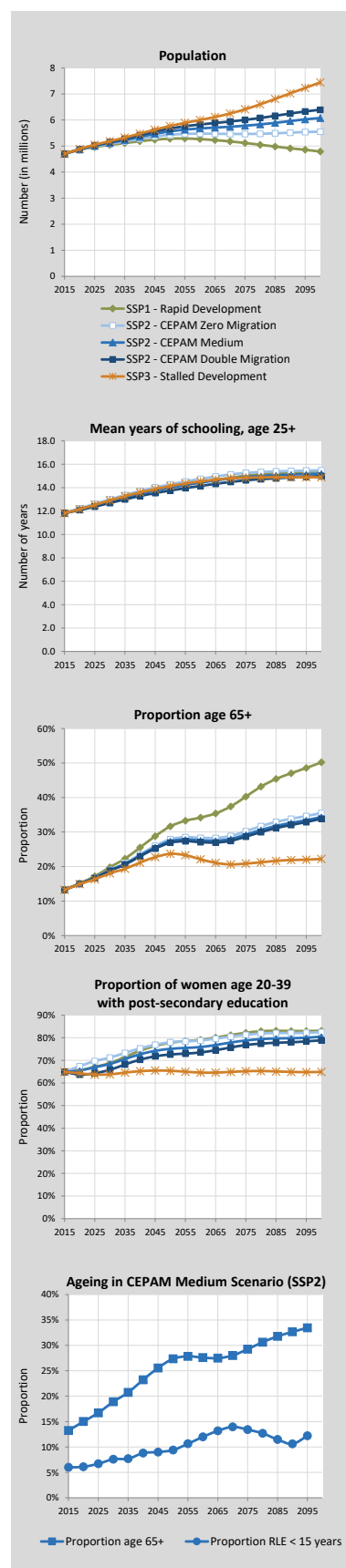
SSP3/CER : Constant Enrollment Rates Scenario (assumption of no future improvements)

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

# Ireland (Continued)

## Alternative scenarios to 2100

Projection results by scenario (SSP1-SSP3)							
	2015	2020	2030	2050	2060	2075	2100
<b>Population (in millions)</b>							
SSP1 - Rapid Development	4.70	4.86	5.04	5.28	5.27	5.12	4.79
SSP2 - CEPAM Zero Migration	4.70	4.87	5.09	5.43	5.48	5.47	5.55
SSP2 - CEPAM Medium	4.70	4.87	5.12	5.56	5.68	5.78	6.08
SSP2 - CEPAM Double Migration	4.70	4.88	5.15	5.67	5.83	6.01	6.39
SSP3 - Stalled Development	4.70	4.89	5.19	5.77	6.00	6.41	7.44
<b>Proportion age 65+</b>							
SSP1 - Rapid Development	13.2%	15.2%	19.8%	31.7%	34.2%	40.3%	50.2%
SSP2 - CEPAM Zero Migration	13.2%	15.0%	19.0%	27.9%	28.3%	30.2%	35.5%
SSP2 - CEPAM Medium	13.2%	15.0%	18.9%	27.3%	27.6%	29.3%	34.3%
SSP2 - CEPAM Double Migration	13.2%	15.0%	18.8%	26.9%	27.1%	28.7%	33.9%
SSP3 - Stalled Development	13.2%	14.9%	18.0%	23.7%	22.1%	20.9%	22.2%
<b>Proportion below age 20</b>							
SSP1 - Rapid Development	27.5%	27.2%	22.6%	17.8%	16.2%	13.6%	11.4%
SSP2 - CEPAM Zero Migration	27.5%	27.6%	24.4%	22.3%	21.4%	19.9%	18.2%
SSP2 - CEPAM Medium	27.5%	27.6%	24.5%	22.6%	21.7%	20.3%	18.7%
SSP2 - CEPAM Double Migration	27.5%	27.6%	24.6%	22.8%	21.9%	20.6%	18.9%
SSP3 - Stalled Development	27.5%	28.0%	26.5%	27.4%	27.5%	27.3%	26.5%
<b>Proportion of women age 20-39 with post-secondary education</b>							
SSP1 - Rapid Development	64.9%	65.6%	68.8%	77.8%	79.1%	82.2%	83.1%
SSP2 - CEPAM Zero Migration	64.9%	67.4%	71.2%	78.0%	78.8%	81.3%	82.5%
SSP2 - CEPAM Medium	64.9%	65.5%	68.4%	75.1%	75.9%	78.8%	80.5%
SSP2 - CEPAM Double Migration	64.9%	63.7%	65.8%	72.6%	73.5%	76.8%	78.9%
SSP3 - Stalled Development	64.9%	64.3%	63.8%	65.4%	64.6%	65.2%	64.9%
<b>Mean years of schooling, age 25+</b>							
SSP1 - Rapid Development	11.8	12.2	12.8	14.0	14.5	15.0	15.4
SSP2 - CEPAM Zero Migration	11.8	12.2	13.0	14.3	14.8	15.3	15.5
SSP2 - CEPAM Medium	11.8	12.2	12.8	14.0	14.4	14.9	15.2
SSP2 - CEPAM Double Migration	11.8	12.1	12.7	13.8	14.2	14.6	15.0
SSP3 - Stalled Development	11.8	12.2	12.9	14.1	14.5	14.9	14.9
<b>Demographic assumptions underlying SSPs</b>							
	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
<b>Total fertility rate</b>							
SSP1 - Rapid Development	1.85	1.71	1.53	1.43	1.41	1.40	1.39
SSP2 - CEPAM Zero Migration	2.00	1.98	1.96	1.91	1.89	1.87	1.85
SSP2 - CEPAM Medium	2.00	1.98	1.95	1.90	1.88	1.86	1.85
SSP2 - CEPAM Double Migration	2.00	1.98	1.95	1.90	1.87	1.86	1.84
SSP3 - Stalled Development	2.15	2.28	2.44	2.45	2.42	2.40	2.37
<b>Life expectancy at birth for females (in years)</b>							
SSP1 - Rapid Development	84.2	85.7	88.7	94.9	97.9	102.5	107.8
SSP2 - CEPAM Zero Migration	83.7	84.7	86.8	90.9	93.0	96.1	100.2
SSP2 - CEPAM Medium	83.7	84.7	86.7	90.9	92.9	96.0	100.1
SSP2 - CEPAM Double Migration	83.7	84.7	86.7	90.8	92.8	95.9	100.0
SSP3 - Stalled Development	83.2	83.7	84.7	86.9	88.0	89.6	91.6
<b>Migration – net flow over five years (in thousands)</b>							
SSP1 - Rapid Development	6.6	8.4	11.5	14.0	14.3	13.5	7.6
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	6.6	8.7	13.7	20.0	22.2	22.6	16.1
SSP2 - CEPAM Double Migration	13.2	16.5	24.7	32.9	35.1	32.8	16.9
SSP3 - Stalled Development	4.4	3.0	0.0	0.0	0.0	0.1	0.1
<b>Ageing indicators by scenario</b>							
	2015	2020	2030	2050	2060	2075	2095
<b>Median age</b>							
SSP1 - Rapid Development	36.9	38.9	43.0	47.7	51.7	57.8	63.6
SSP2 - CEPAM Zero Migration	36.9	38.7	41.9	43.7	46.2	47.7	50.9
SSP2 - CEPAM Medium	36.9	38.7	41.7	43.3	45.6	46.8	49.9
SSP2 - CEPAM Double Migration	36.9	38.7	41.6	43.1	45.3	46.3	49.5
SSP3 - Stalled Development	36.9	38.5	40.5	39.1	39.0	37.9	39.2
<b>Proportion with less than 15 years of remaining life expectancy (RLE)</b>							
SSP1 - Rapid Development	6.0%	6.1%	7.6%	9.4%	12.0%	13.4%	12.2%
SSP2 - CEPAM Zero Migration	5.7%	6.7%	8.0%	10.8%	13.0%	11.6%	12.1%
SSP2 - CEPAM Medium	5.7%	6.7%	7.9%	10.6%	12.5%	11.0%	11.3%
SSP2 - CEPAM Double Migration	5.7%	6.7%	7.8%	10.4%	12.2%	10.6%	10.9%
SSP3 - Stalled Development	5.8%	7.0%	8.8%	11.3%	12.7%	9.1%	9.9%



# Ireland (Continued)

## Labour force projections to 2060

Labour force indicators	2015	2020	2030	2040	2050	2060
<b>Labour force size, by participation and migration scenario (in millions)</b>						
Constant (CEPAM Zero Migration)	2.22	2.26	2.38	2.40	2.33	2.37
Constant (CEPAM Medium)	2.22	2.26	2.38	2.41	2.38	2.44
Constant (CEPAM Double Migration)	2.22	2.26	2.37	2.42	2.41	2.50
Swedish (CEPAM Zero Migration)	2.22	2.31	2.51	2.62	2.62	2.74
Swedish (CEPAM Medium)	2.22	2.31	2.52	2.64	2.68	2.84
Swedish (CEPAM Double Migration)	2.22	2.30	2.52	2.66	2.72	2.91
Equalization (CEPAM Zero Migration)	2.22	2.29	2.46	2.53	2.51	2.58
Equalization (CEPAM Medium)	2.22	2.29	2.46	2.56	2.57	2.68
Equalization (CEPAM Double Migration)	2.22	2.29	2.47	2.57	2.61	2.76
Constant (CEPAM Medium-low fertility)	2.22	2.26	2.37	2.39	2.27	2.21
Swedish (CEPAM Medium-low fertility)	2.22	2.31	2.52	2.61	2.55	2.56
Equalization (CEPAM Medium-low fertility)	2.22	2.29	2.46	2.53	2.45	2.43
<b>Labour force participation rates, age 15+, by participation scenario (CEPAM Medium)</b>						
TOTAL (Constant)	60.4%	58.8%	56.2%	54.1%	51.5%	51.2%
TOTAL (Swedish)	60.4%	60.0%	59.6%	59.2%	58.0%	59.4%
TOTAL (Equalization)	60.4%	59.6%	58.3%	57.3%	55.6%	56.1%
MALE (Constant)	68.2%	66.2%	62.9%	60.6%	58.2%	57.9%
MALE (Swedish)	68.2%	66.9%	64.9%	63.9%	62.3%	63.1%
MALE (Equalization)	68.2%	66.2%	62.9%	60.6%	58.2%	57.9%
FEMALE (Constant)	52.8%	51.7%	49.8%	47.9%	45.2%	44.8%
FEMALE (Swedish)	52.8%	53.3%	54.4%	54.8%	53.9%	55.8%
FEMALE (Equalization)	52.8%	53.3%	53.9%	54.0%	53.2%	54.4%
<b>Labour force (15+) by highest level of educational attainment. Columns sum to 100%. (CEPAM Medium; Constant participation)</b>						
TOTAL E1-E4 - lower secondary and below	17.6%	15.1%	10.5%	7.6%	5.9%	4.7%
TOTAL E5 - upper secondary	25.4%	25.3%	24.7%	23.3%	22.4%	21.8%
TOTAL E6 - short post-secondary	26.4%	26.8%	27.5%	28.2%	28.8%	29.5%
TOTAL E7 - bachelor	22.0%	23.6%	27.1%	29.8%	31.2%	32.1%
TOTAL E8 - master and higher	8.5%	9.2%	10.2%	11.1%	11.6%	11.9%
MALE E1-E4 - lower secondary and below	22.7%	19.6%	13.8%	9.9%	7.5%	5.9%
MALE E5 - upper secondary	26.0%	26.1%	26.2%	25.4%	24.7%	24.3%
MALE E6 - short post-secondary	23.4%	23.9%	24.9%	25.6%	26.2%	26.9%
MALE E7 - bachelor	20.0%	21.8%	25.4%	28.4%	30.0%	31.1%
MALE E8 - master and higher	7.9%	8.6%	9.7%	10.8%	11.5%	11.8%
FEMALE E1-E4 - lower secondary and below	11.3%	9.5%	6.6%	4.8%	3.9%	3.2%
FEMALE E5 - upper secondary	24.8%	24.3%	22.9%	20.8%	19.6%	18.8%
FEMALE E6 - short post-secondary	30.2%	30.4%	30.7%	31.4%	32.0%	32.7%
FEMALE E7 - bachelor	24.4%	25.9%	29.0%	31.5%	32.6%	33.3%
FEMALE E8 - master and higher	9.3%	9.9%	10.8%	11.5%	11.8%	11.9%

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

