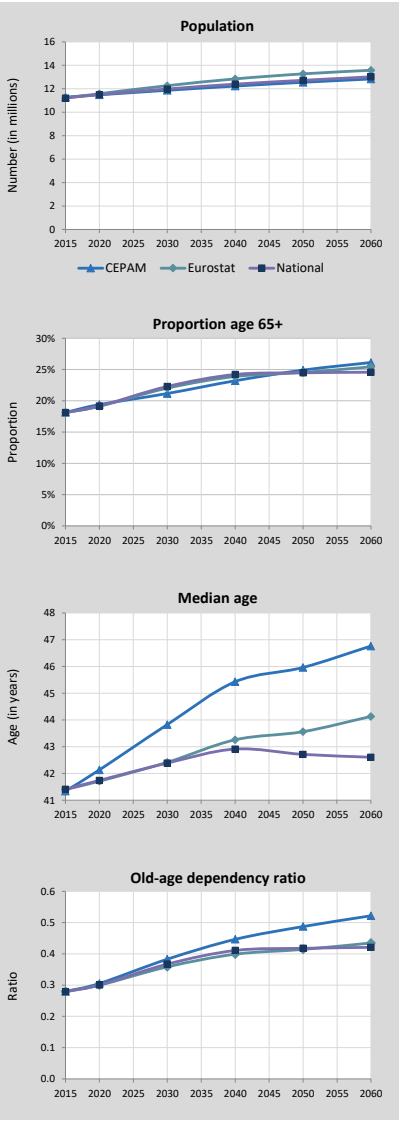
Belgium

Detailed Human Capital projections to 2060

Comparison of CEPAM projections with other sources

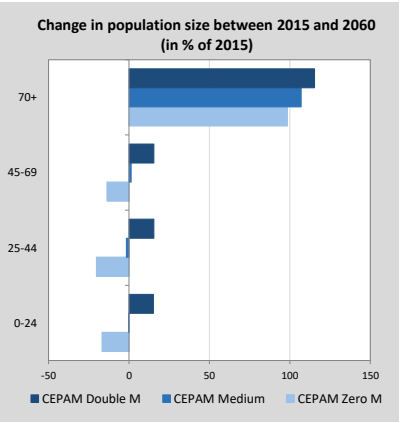
Demographic indicators - CEPAM Medium Scenario (SSP2), Eurostat and national projections		2015	2020	2030	2040	2050	2060
Population (in millions)	*CEPAM*	11.29	11.49	11.87	12.23	12.55	12.83
	Eurostat	11.21	11.58	12.26	12.84	13.27	13.58
	National	11.21	11.50	11.98	12.40	12.72	13.02
Proportion age 65+	*CEPAM*	18.1%	19.4%	21.2%	23.2%	24.9%	26.1%
	Eurostat	18.1%	19.1%	22.0%	23.9%	24.5%	25.4%
	National	18.1%	19.2%	22.3%	24.2%	24.5%	24.6%
Proportion below age 20	*CEPAM*	22.6%	22.5%	21.8%	20.7%	20.3%	20.1%
	Eurostat	22.6%	22.5%	22.2%	21.8%	21.7%	21.6%
	National	22.6%	22.6%	22.7%	22.6%	22.6%	22.7%
Median age	*CEPAM*	41.3	42.1	43.8	45.4	46.0	46.8
	Eurostat	41.4	41.7	42.4	43.3	43.6	44.1
	National	41.4	41.7	42.4	42.9	42.7	42.6
Old-age dependency ratio (65+/15-64)	*CEPAM*	0.28	0.31	0.38	0.45	0.49	0.52
	Eurostat	0.28	0.30	0.36	0.40	0.41	0.43
	National	0.28	0.30	0.37	0.41	0.42	0.42
Young-age dependency ratio (0-14/15-64)	*CEPAM*	0.26	0.27	0.27	0.26	0.27	0.27
	Eurostat	0.26	0.27	0.27	0.27	0.27	0.27
	National	0.26	0.27	0.28	0.29	0.29	0.29
Parent support ratio (85+/50-64)	*CEPAM*	0.13	0.14	0.17	0.26	0.38	0.46
	Eurostat	0.13	0.15	0.17	0.24	0.30	0.34
	National	0.13	0.14	0.17	0.25	0.33	0.36

Demographic assumptions underlying projections		2010-2015	2015-2020	2025-2030	2035-2040	2045-2050	2055-2060
Total fertility rate	*CEPAM*	1.79	1.78	1.78	1.79	1.79	1.78
	Eurostat	1.73	1.73	1.74	1.76	1.77	1.79
	National	1.75	1.85	1.85	1.87	1.86	1.86
Life expectancy at birth (in years)							
Male	*CEPAM*	79.0	80.1	81.1	83.2	85.3	87.4
	Eurostat	79.0	79.9	80.7	82.1	83.4	84.7
	National	79.2	80.2	81.2	83.1	84.7	86.2
Female	*CEPAM*	83.7	84.8	85.9	88.1	90.3	92.4
	Eurostat	83.9	84.7	85.3	86.6	87.8	88.9
	National	83.8	84.5	85.1	86.3	87.4	88.4
Five-year net migration flow (in thousands)	*CEPAM*	110.9	119.5	127.4	141.4	153.0	161.2
	Eurostat	286.4	261.9	249.8	199.5	178.0	152.6
	National	219.7	142.0	115.2	112.1	99.8	92.5



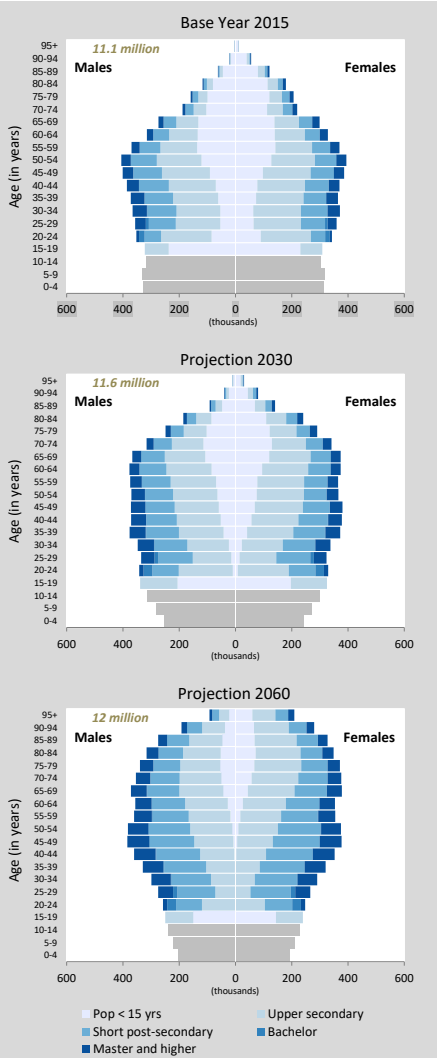
Changes in population size and structure according to CEPAM scenarios (impact of migration)

Population size according to CEPAM projections to 2060		2015	2020	2030	2040	2050	2060
Population (in millions)	*Zero M*	11.29	11.37	11.44	11.42	11.30	11.08
	Medium	11.29	11.49	11.87	12.23	12.55	12.83
	Double M	11.29	11.61	12.29	13.01	13.74	14.47
Population 0-24 (in millions)	*Zero M*	3.25	3.18	3.11	2.93	2.80	2.70
	Medium	3.25	3.22	3.26	3.21	3.20	3.24
	Double M	3.25	3.26	3.40	3.48	3.59	3.74
Population 25-44 (in millions)	*Zero M*	2.96	2.88	2.64	2.53	2.52	2.36
	Medium	2.96	2.95	2.86	2.84	2.93	2.91
	Double M	2.96	3.02	3.06	3.14	3.32	3.41
Population 45-69 (in millions)	*Zero M*	3.64	3.71	3.68	3.49	3.27	3.14
	Medium	3.64	3.72	3.75	3.69	3.65	3.68
	Double M	3.64	3.73	3.82	3.89	4.01	4.20
Population 70+ (in millions)	*Zero M*	1.45	1.59	2.00	2.47	2.72	2.88
	Medium	1.45	1.60	2.01	2.49	2.77	3.00
	Double M	1.45	1.60	2.01	2.50	2.81	3.12



Belgium (Continued)

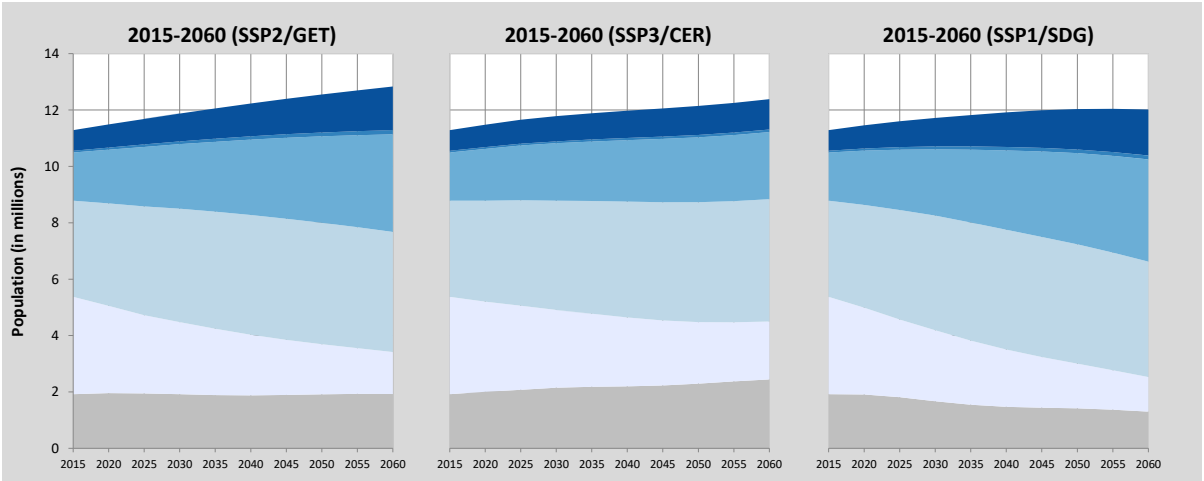
Pyramids by education, CEPAM Medium



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	34.9%	31.1%	24.6%	19.3%	15.1%	12.0%
E5 - upper secondary	35.9%	37.4%	39.8%	40.9%	40.9%	40.1%
E6 - short post-secondary	19.9%	21.4%	24.2%	26.9%	29.6%	32.2%
E7 - bachelor	0.3%	0.4%	0.5%	0.6%	0.7%	0.7%
E8 - master and higher	8.9%	9.6%	11.0%	12.3%	13.7%	15.0%
Mean years of schooling (in years)	11.38	11.65	12.11	12.48	12.81	13.10
Age gap: highest educational attainment (ratio 35-44/50-64)						
E1-E4 - lower secondary and below	0.51	0.56	0.67	0.57	0.55	0.70
E5 - upper secondary	1.26	1.14	0.99	0.98	0.92	0.87
E6 - short post-secondary	1.34	1.23	1.18	1.22	1.22	1.17
E7 - bachelor	11.91	16.74	6.14	1.53	1.22	1.16
E8 - master and higher	1.38	1.42	1.28	1.21	1.22	1.17
Mean years of schooling (35-44 minus 50-64)	1.14	0.86	0.52	0.63	0.67	0.62
Gender gap (population age 25+): highest educational attainment (% males - %females)						
E1-E4 - lower secondary and below	-3.17	-3.13	-3.09	-2.98	-2.64	-2.07
E5 - upper secondary	-0.24	-0.43	-0.76	-0.86	-0.82	-0.66
E6 - short post-secondary	3.41	3.32	3.17	2.82	2.24	1.44
E7 - bachelor	0.08	0.09	0.10	0.11	0.13	0.14
E8 - master and higher	-0.08	0.15	0.58	0.91	1.09	1.14
Mean years of schooling (male minus female)	0.20	0.20	0.20	0.20	0.20	0.10
Women age 20-39: highest educational attainment (columns sum to 100%)						
E1-E4 - lower secondary and below	20%	17%	11%	9%	8%	8%
E5 - upper secondary	47%	47%	46%	43%	40%	37%
E6 - short post-secondary	22%	24%	29%	32%	35%	38%
E7 - bachelor	2%	2%	3%	3%	3%	4%
E8 - master and higher	9%	10%	11%	12%	14%	14%
Mean years of schooling (in years)	12.21	12.47	13.00	13.34	13.64	13.86
Age gap among women: highest educational attainment (ratio 35-44/50-64)						
E1-E4 - lower secondary and below	0.55	0.59	0.64	0.55	0.54	0.69
E5 - upper secondary	1.30	1.17	1.00	0.97	0.90	0.84
E6 - short post-secondary	1.29	1.23	1.26	1.29	1.27	1.20
E7 - bachelor	12.11	14.71	4.98	1.54	1.28	1.20
E8 - master and higher	1.22	1.27	1.25	1.25	1.27	1.20
Mean years of schooling (35-44 minus 50-64)	1.01	0.77	0.58	0.75	0.77	0.71

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)

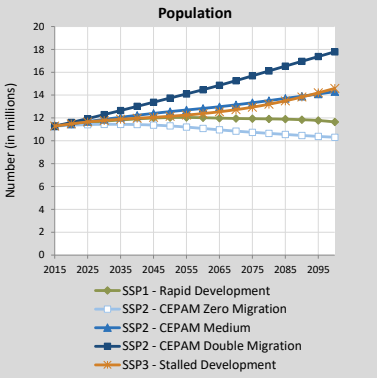
Belgium (Continued)

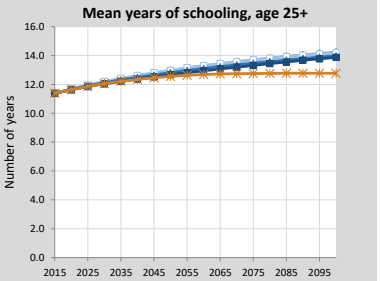
Alternative scenarios to 2100

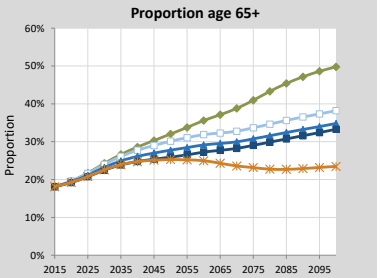
Projection results by scenario (SSP1-SSP3)	2015	2020	2030	2050	2060	2075	2100
Population (in millions)							
SSP1 - Rapid Development	11.29	11.46	11.72	12.04	12.02	11.93	11.65
SSP2 - CEPAM Zero Migration	11.29	11.37	11.44	11.30	11.08	10.75	10.31
SSP2 - CEPAM Medium	11.29	11.49	11.87	12.55	12.84	13.33	14.30
SSP2 - CEPAM Double Migration	11.29	11.61	12.29	13.74	14.47	15.69	17.79
SSP3 - Stalled Development	11.29	11.48	11.78	12.15	12.39	12.94	14.59
Proportion age 65+							
SSP1 - Rapid Development	18.1%	19.6%	24.3%	32.0%	35.6%	41.0%	49.8%
SSP2 - CEPAM Zero Migration	18.1%	19.6%	24.0%	30.1%	31.9%	33.7%	38.2%
SSP2 - CEPAM Medium	18.1%	19.4%	23.2%	27.8%	29.1%	30.8%	34.8%
SSP2 - CEPAM Double Migration	18.1%	19.2%	22.5%	25.9%	27.2%	29.0%	33.3%
SSP3 - Stalled Development	18.1%	19.3%	22.6%	25.3%	25.0%	23.2%	23.5%
Proportion below age 20							
SSP1 - Rapid Development	22.6%	22.1%	19.9%	15.9%	14.9%	13.0%	11.2%
SSP2 - CEPAM Zero Migration	22.6%	22.5%	21.5%	19.7%	19.4%	18.3%	17.0%
SSP2 - CEPAM Medium	22.6%	22.5%	21.8%	20.3%	20.1%	19.2%	18.0%
SSP2 - CEPAM Double Migration	22.6%	22.5%	22.0%	20.9%	20.6%	19.8%	18.5%
SSP3 - Stalled Development	22.6%	22.9%	23.8%	24.9%	25.9%	26.3%	26.2%
Proportion of women age 20-39 with post-secondary education							
SSP1 - Rapid Development	32.1%	38.1%	47.9%	65.8%	72.2%	79.1%	83.1%
SSP2 - CEPAM Zero Migration	32.1%	37.6%	46.1%	60.7%	66.4%	73.6%	80.3%
SSP2 - CEPAM Medium	32.1%	37.2%	45.2%	59.3%	64.9%	72.0%	78.9%
SSP2 - CEPAM Double Migration	32.1%	36.8%	44.5%	58.3%	64.0%	71.1%	78.3%
SSP3 - Stalled Development	32.1%	33.3%	33.4%	33.3%	33.4%	33.3%	33.3%
Mean years of schooling, age 25+							
SSP1 - Rapid Development	11.4	11.7	12.1	13.0	13.3	13.7	14.2
SSP2 - CEPAM Zero Migration	11.4	11.7	12.2	13.0	13.3	13.7	14.2
SSP2 - CEPAM Medium	11.4	11.7	12.1	12.8	13.1	13.5	14.0
SSP2 - CEPAM Double Migration	11.4	11.6	12.0	12.7	12.9	13.3	13.9
SSP3 - Stalled Development	11.4	11.6	12.1	12.6	12.7	12.8	12.8

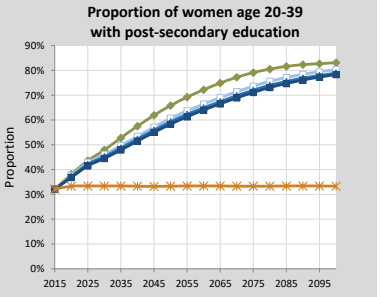
Demographic assumptions underlying SSPs	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
Total fertility rate							
SSP1 - Rapid Development	1.66	1.53	1.39	1.33	1.32	1.32	1.32
SSP2 - CEPAM Zero Migration	1.79	1.78	1.79	1.78	1.78	1.76	1.75
SSP2 - CEPAM Medium	1.79	1.78	1.79	1.78	1.77	1.76	1.75
SSP2 - CEPAM Double Migration	1.79	1.78	1.79	1.78	1.77	1.76	1.75
SSP3 - Stalled Development	1.94	2.09	2.29	2.37	2.37	2.36	2.35
Life expectancy at birth for females (in years)							
SSP1 - Rapid Development	84.2	85.8	89.0	95.4	98.5	103.3	109.0
SSP2 - CEPAM Zero Migration	83.7	84.8	87.0	91.4	93.6	96.9	101.3
SSP2 - CEPAM Medium	83.7	84.8	87.0	91.3	93.5	96.8	101.2
SSP2 - CEPAM Double Migration	83.7	84.8	86.9	91.3	93.5	96.8	101.1
SSP3 - Stalled Development	83.2	83.8	84.9	87.3	88.5	90.2	92.5
Migration – net flow over five years (in thousands)							
SSP1 - Rapid Development	111.0	118.6	129.0	139.3	138.9	131.9	114.2
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	110.9	119.4	134.6	156.8	162.7	164.6	157.1
SSP2 - CEPAM Double Migration	221.7	236.5	262.0	295.5	301.6	297.4	273.1
SSP3 - Stalled Development	73.9	40.2	0.1	0.2	0.2	0.2	0.3

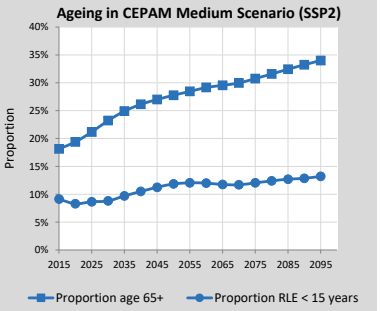
Ageing indicators by scenario	2015	2020	2030	2050	2060	2075	2095
Median age							
SSP1 - Rapid Development	41.3	42.4	45.0	50.5	53.0	57.8	63.7
SSP2 - CEPAM Zero Migration	41.3	42.4	44.7	47.8	48.8	50.8	53.1
SSP2 - CEPAM Medium	41.3	42.1	43.8	46.0	46.8	48.3	50.4
SSP2 - CEPAM Double Migration	41.3	41.9	43.0	44.7	45.5	46.9	49.1
SSP3 - Stalled Development	41.3	42.0	43.1	42.0	40.6	39.8	39.8
Proportion with less than 15 years of remaining life expectancy (RLE)							
SSP1 - Rapid Development	9.1%	8.3%	8.8%	11.8%	12.0%	12.0%	13.2%
SSP2 - CEPAM Zero Migration	9.5%	9.1%	9.7%	13.2%	13.1%	13.4%	12.6%
SSP2 - CEPAM Medium	9.5%	9.0%	9.4%	12.0%	11.4%	11.5%	10.8%
SSP2 - CEPAM Double Migration	9.5%	8.9%	9.1%	11.0%	10.2%	10.4%	9.9%
SSP3 - Stalled Development	9.8%	9.7%	10.6%	12.7%	12.1%	11.2%	9.2%







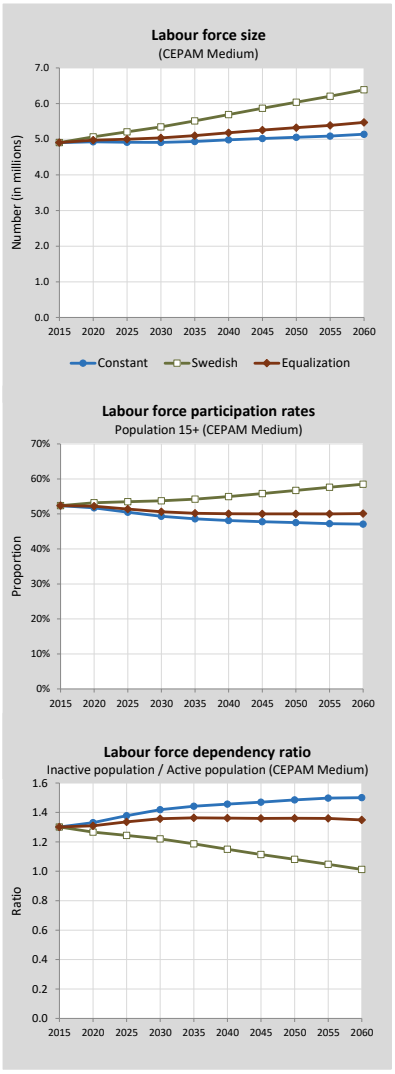




Belgium (Continued)

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)	4.90	4.86	4.68	4.56	4.42	4.28
Constant (CEPAM Medium)	4.90	4.93	4.91	4.98	5.05	5.14
Constant (CEPAM Double Migration)	4.90	4.99	5.13	5.39	5.66	5.93
Swedish (CEPAM Zero Migration)	4.90	5.00	5.11	5.23	5.29	5.35
Swedish (CEPAM Medium)	4.90	5.07	5.35	5.69	6.04	6.39
Swedish (CEPAM Double Migration)	4.90	5.13	5.58	6.14	6.74	7.36
Equalization (CEPAM Zero Migration)	4.90	4.91	4.80	4.74	4.64	4.55
Equalization (CEPAM Medium)	4.90	4.97	5.04	5.18	5.32	5.47
Equalization (CEPAM Double Migration)	4.90	5.04	5.27	5.61	5.96	6.32
Constant (CEPAM Medium-low fertility)	4.90	4.93	4.91	4.94	4.83	4.64
Swedish (CEPAM Medium-low fertility)	4.90	5.07	5.34	5.63	5.75	5.78
Equalization (CEPAM Medium-low fertility)	4.90	4.97	5.03	5.14	5.09	4.95
Labour force participation rates, age 15+, by participation scenario (CEPAM Medium)						
TOTAL (Constant)	52.4%	51.7%	49.3%	48.1%	47.5%	47.1%
TOTAL (Swedish)	52.4%	53.2%	53.7%	55.0%	56.7%	58.5%
TOTAL (Equalization)	52.4%	52.2%	50.6%	50.0%	50.0%	50.1%
MALE (Constant)	58.8%	57.7%	54.6%	53.0%	52.3%	51.8%
MALE (Swedish)	58.8%	59.1%	58.6%	59.3%	60.8%	62.4%
MALE (Equalization)	58.8%	57.7%	54.6%	53.0%	52.3%	51.8%
FEMALE (Constant)	46.2%	45.9%	44.3%	43.4%	42.9%	42.6%
FEMALE (Swedish)	46.2%	47.6%	49.1%	50.9%	52.8%	54.8%
FEMALE (Equalization)	46.2%	46.9%	46.8%	47.2%	47.8%	48.5%
Labour force (15+) by highest level of educational attainment. Columns sum to 100%. (CEPAM Medium; Constant participation)						
TOTAL E1-E4 - lower secondary and below	20.0%	16.5%	11.6%	8.8%	6.4%	4.8%
TOTAL E5 - upper secondary	43.1%	43.6%	43.2%	41.0%	38.0%	34.7%
TOTAL E6 - short post-secondary	24.9%	26.8%	29.9%	33.1%	36.5%	39.7%
TOTAL E7 - bachelor	0.8%	1.0%	1.3%	1.6%	1.7%	1.9%
TOTAL E8 - master and higher	11.2%	12.1%	13.9%	15.6%	17.3%	19.0%
MALE E1-E4 - lower secondary and below	20.5%	17.0%	12.2%	9.5%	7.2%	5.5%
MALE E5 - upper secondary	42.0%	42.7%	42.6%	41.1%	39.2%	36.8%
MALE E6 - short post-secondary	25.8%	27.4%	30.0%	32.3%	35.0%	37.6%
MALE E7 - bachelor	0.8%	1.0%	1.3%	1.5%	1.6%	1.7%
MALE E8 - master and higher	10.9%	12.0%	14.0%	15.6%	17.0%	18.4%
FEMALE E1-E4 - lower secondary and below	19.4%	15.9%	11.0%	7.9%	5.5%	3.9%
FEMALE E5 - upper secondary	44.3%	44.7%	43.9%	40.8%	36.7%	32.2%
FEMALE E6 - short post-secondary	24.0%	26.0%	29.8%	33.9%	38.2%	42.2%
FEMALE E7 - bachelor	0.9%	1.1%	1.4%	1.7%	1.9%	2.0%
FEMALE E8 - master and higher	11.5%	12.3%	13.8%	15.6%	17.7%	19.6%



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