

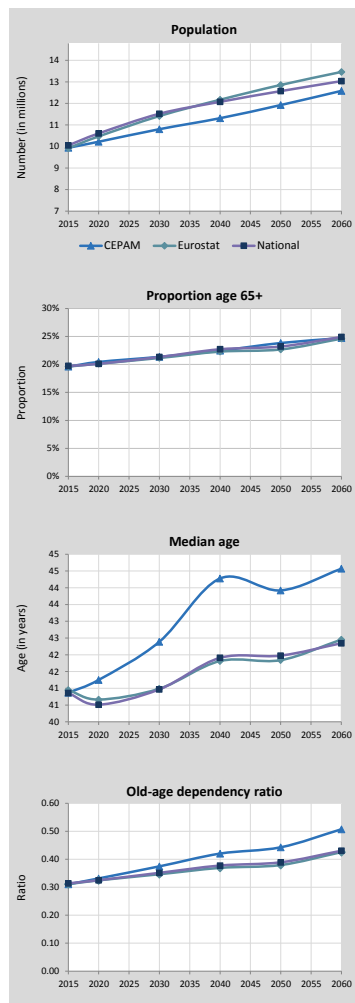
# Sweden

## Detailed Human Capital projections to 2060

### Comparison of CEPAM projections with other sources

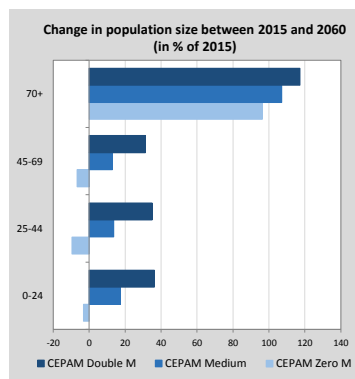
Demographic indicators - CEPAM Medium Scenario (SSP2), Eurostat and national projections		2015	2020	2030	2040	2050	2060
Population (in millions)	CEPAM	9.76	10.05	10.63	11.14	11.75	12.41
	Eurostat	9.75	10.29	11.24	11.99	12.68	13.28
	National	9.88	10.43	11.34	11.90	12.39	12.86
Proportion age 65+	CEPAM	19.6%	20.4%	21.4%	22.5%	23.8%	24.7%
	Eurostat	19.6%	20.1%	21.2%	22.3%	22.7%	24.6%
	National	19.7%	20.1%	21.3%	22.7%	23.2%	24.9%
Proportion below age 20	CEPAM	22.5%	23.1%	23.3%	22.4%	21.9%	22.1%
	Eurostat	22.7%	23.4%	23.8%	23.4%	23.3%	23.4%
	National	22.7%	23.6%	24.0%	23.3%	22.8%	23.0%
Median age	CEPAM	40.9	41.3	42.4	44.3	43.9	44.6
	Eurostat	40.9	40.7	41.0	41.8	41.8	42.5
	National	40.9	40.5	41.0	41.9	42.0	42.3
Old-age dependency ratio (65+/15-64)	CEPAM	0.31	0.33	0.37	0.42	0.44	0.51
	Eurostat	0.31	0.32	0.35	0.37	0.38	0.43
	National	0.31	0.33	0.35	0.38	0.39	0.43
Young-age dependency ratio (0-14/15-64)	CEPAM	0.27	0.29	0.29	0.28	0.29	0.30
	Eurostat	0.27	0.29	0.29	0.29	0.29	0.30
	National	0.28	0.29	0.30	0.28	0.29	0.30
Parent support ratio (85+/50-64)	CEPAM	0.15	0.14	0.20	0.28	0.33	0.47
	Eurostat	0.15	0.14	0.19	0.25	0.26	0.33
	National	0.14	0.14	0.20	0.25	0.28	0.35

Demographic assumptions underlying projections		2010-2015	2015-2020	2025-2030	2035-2040	2045-2050	2055-2060
Total fertility rate	CEPAM	1.93	1.96	1.97	1.99	2.00	1.99
	Eurostat	1.86	1.88	1.90	1.94	1.97	2.00
	National	1.88	1.94	1.92	1.90	1.89	1.89
Life expectancy at birth (in years)							
Male	CEPAM	81.0	82.0	83.1	85.2	87.2	89.3
	Eurostat	80.8	81.4	82.0	83.2	84.4	85.5
	National	80.9	81.8	82.5	83.9	85.2	86.4
Female	CEPAM	84.4	85.4	86.5	88.6	90.8	92.9
	Eurostat	84.5	85.1	85.8	86.9	88.1	89.2
	National	84.3	84.9	85.5	86.7	87.8	88.8
Five-year net migration flow (in thousands)	CEPAM	121.6	130.2	138.1	152.1	162.9	169.7
	Eurostat	396.8	329.3	302.7	209.8	174.5	141.8
	National	421.3	340.4	239.5	156.6	118.6	109.7



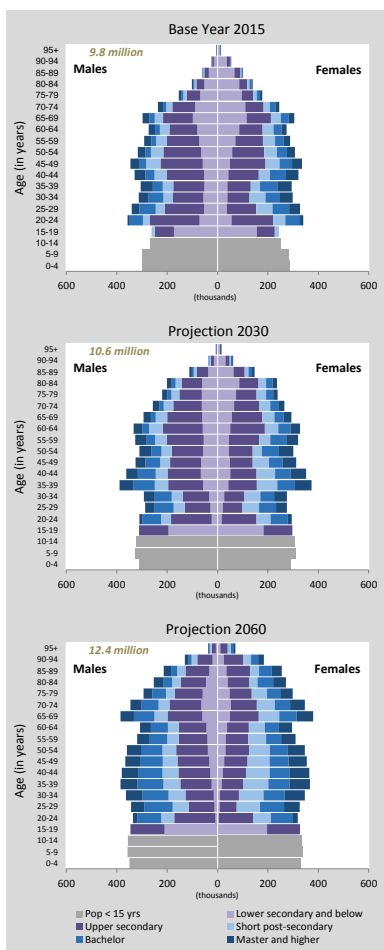
### Changes in population size and structure according to CEPAM scenarios (impact of migration)

Population size according to CEPAM projections to 2060		2015	2020	2030	2040	2050	2060
Population (in millions)	Zero M	9.76	9.91	10.16	10.26	10.39	10.49
	Medium	9.76	10.05	10.63	11.14	11.75	12.41
	Double M	9.76	10.18	11.09	11.99	13.04	14.18
Population 0-24 (in millions)	Zero M	2.89	2.79	2.93	2.84	2.77	2.80
	Medium	2.89	2.83	3.08	3.14	3.22	3.39
	Double M	2.89	2.88	3.23	3.42	3.64	3.94
Population 25-44 (in millions)	Zero M	2.53	2.57	2.38	2.18	2.36	2.29
	Medium	2.53	2.64	2.61	2.52	2.80	2.87
	Double M	2.53	2.72	2.83	2.84	3.22	3.41
Population 45-69 (in millions)	Zero M	3.03	3.03	3.07	3.13	2.92	2.83
	Medium	3.03	3.04	3.14	3.35	3.34	3.42
	Double M	3.03	3.05	3.21	3.57	3.74	3.98
Population 70+ (in millions)	Zero M	1.31	1.53	1.79	2.11	2.34	2.58
	Medium	1.31	1.53	1.80	2.13	2.39	2.72
	Double M	1.31	1.53	1.81	2.14	2.43	2.85



## Sweden (Continued)

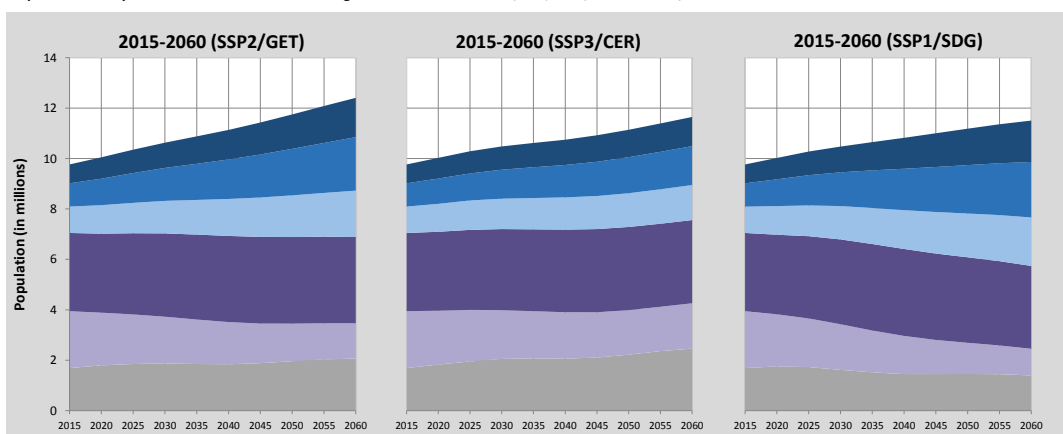
Pyramids by education, CEPAM Medium



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	26.1%	23.4%	19.1%	15.6%	12.9%	10.8%
E5 - upper secondary	37.8%	37.4%	36.7%	35.6%	33.9%	31.7%
E6 - short post-secondary	13.7%	14.5%	15.9%	17.0%	18.0%	19.0%
E7 - bachelor	11.8%	13.3%	15.4%	17.5%	19.6%	21.5%
E8 - master and higher	10.5%	11.4%	12.9%	14.3%	15.6%	16.9%
Mean years of schooling (in years)	12.14	12.38	12.74	13.03	13.27	13.48
<b>Age gap: highest educational attainment (ratio 35-44/50-64)</b>						
E1-E4 - lower secondary and below	0.60	0.82	0.89	0.65	0.55	0.52
E5 - upper secondary	0.95	0.80	0.81	0.94	0.93	0.90
E6 - short post-secondary	0.88	0.91	1.20	1.23	1.17	1.16
E7 - bachelor	1.80	1.82	1.34	1.17	1.18	1.16
E8 - master and higher	1.68	1.54	1.10	1.09	1.17	1.16
Mean years of schooling (35-44 minus 50-64)	0.90	0.64	0.39	0.60	0.70	0.67
<b>Gender gap (population age 25+): highest educational attainment (ratio male/female)</b>						
E1-E4 - lower secondary and below	0.93	0.96	1.02	1.09	1.16	1.19
E5 - upper secondary	1.24	1.23	1.21	1.22	1.23	1.26
E6 - short post-secondary	0.90	0.85	0.80	0.75	0.72	0.69
E7 - bachelor	0.69	0.76	0.86	0.94	1.01	1.08
E8 - master and higher	0.97	0.93	0.88	0.85	0.82	0.81
Mean years of schooling (male minus female)	-0.10	-0.16	-0.22	-0.28	-0.31	-0.32
<b>Women age 20-39: highest educational attainment (columns sum to 100%)</b>						
E1-E4 - lower secondary and below	14%	12%	9%	6%	4%	3%
E5 - upper secondary	37%	34%	34%	32%	29%	27%
E6 - short post-secondary	17%	20%	22%	24%	25%	27%
E7 - bachelor	20%	19%	21%	23%	25%	26%
E8 - master and higher	13%	14%	15%	16%	17%	18%
Mean years of schooling (in years)	13.19	13.27	13.51	13.74	13.97	14.14
<b>Age gap among women: highest educational attainment (ratio 35-44/50-64)</b>						
E1-E4 - lower secondary and below	0.53	0.73	0.86	0.67	0.54	0.48
E5 - upper secondary	0.92	0.75	0.81	0.95	0.89	0.86
E6 - short post-secondary	0.81	1.01	1.52	1.27	1.17	1.16
E7 - bachelor	1.80	1.56	0.96	1.02	1.17	1.16
E8 - master and higher	1.87	1.72	1.17	1.07	1.17	1.16
Mean years of schooling (35-44 minus 50-64)	1.34	0.90	0.61	0.63	0.87	0.88

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)

# Sweden (Continued)

## Alternative scenarios to 2100

### Projection results by scenario (SSP1-SSP3)

	2015	2020	2030	2050	2060	2075	2100
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#### Population (in millions)

SSP1 - Rapid Development	9.76	10.02	10.48	11.18	11.51	11.87	12.01
SSP2 - CEPAM Zero Migration	9.76	9.92	10.16	10.39	10.49	10.58	10.80
SSP2 - CEPAM Medium	9.76	10.05	10.63	11.75	12.41	13.41	15.19
SSP2 - CEPAM Double Migration	9.76	10.18	11.09	13.04	14.18	15.96	18.95
SSP3 - Stalled Development	9.76	10.03	10.48	11.14	11.65	12.52	14.70

#### Proportion age 65+

SSP1 - Rapid Development	19.6%	20.6%	23.6%	29.7%	34.4%	38.7%	46.1%
SSP2 - CEPAM Zero Migration	19.6%	20.7%	23.4%	28.1%	30.9%	31.5%	35.3%
SSP2 - CEPAM Medium	19.6%	20.4%	22.5%	25.6%	28.1%	28.8%	32.6%
SSP2 - CEPAM Double Migration	19.6%	20.2%	21.6%	23.7%	26.1%	27.4%	31.6%
SSP3 - Stalled Development	19.6%	20.3%	21.9%	23.7%	24.7%	22.1%	22.5%

#### Proportion below age 20

SSP1 - Rapid Development	22.5%	22.7%	21.3%	17.4%	16.5%	14.5%	12.7%
SSP2 - CEPAM Zero Migration	22.5%	23.1%	23.1%	21.3%	21.5%	20.3%	19.1%
SSP2 - CEPAM Medium	22.5%	23.1%	23.3%	21.9%	22.1%	21.0%	19.8%
SSP2 - CEPAM Double Migration	22.5%	23.1%	23.5%	22.4%	22.4%	21.4%	20.0%
SSP3 - Stalled Development	22.5%	23.5%	25.3%	26.0%	27.5%	27.5%	27.2%

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

SSP1 - Rapid Development	43.3%	48.4%	55.6%	69.1%	73.6%	78.5%	82.4%
SSP2 - CEPAM Zero Migration	43.3%	48.9%	55.1%	63.8%	67.3%	71.7%	77.1%
SSP2 - CEPAM Medium	43.3%	47.8%	53.4%	61.8%	65.3%	69.9%	75.6%
SSP2 - CEPAM Double Migration	43.3%	46.8%	51.9%	60.4%	64.1%	68.9%	75.0%
SSP3 - Stalled Development	43.3%	44.2%	44.1%	43.8%	44.1%	43.6%	43.8%

#### Mean years of schooling, age 25+

SSP1 - Rapid Development	12.1	12.4	12.8	13.4	13.7	14.1	14.6
SSP2 - CEPAM Zero Migration	12.1	12.4	12.9	13.5	13.8	14.1	14.5
SSP2 - CEPAM Medium	12.1	12.4	12.7	13.3	13.5	13.8	14.2
SSP2 - CEPAM Double Migration	12.1	12.3	12.6	13.1	13.3	13.6	14.1
SSP3 - Stalled Development	12.1	12.3	12.7	13.1	13.1	13.2	13.2

### Demographic assumptions underlying SSPs

	2015-2020	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100
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#### Total fertility rate

SSP1 - Rapid Development	1.80	1.69	1.56	1.50	1.49	1.47	1.44
SSP2 - CEPAM Zero Migration	1.93	1.96	1.99	2.00	1.99	1.96	1.92
SSP2 - CEPAM Medium	1.93	1.96	1.98	2.00	1.98	1.96	1.92
SSP2 - CEPAM Double Migration	1.93	1.95	1.97	1.99	1.98	1.95	1.92
SSP3 - Stalled Development	2.07	2.25	2.45	2.54	2.52	2.48	2.43

#### Life expectancy at birth for females (in years)

SSP1 - Rapid Development	84.9	86.4	89.6	95.8	99.0	103.6	106.9
SSP2 - CEPAM Zero Migration	84.4	85.4	87.6	91.9	94.0	97.3	101.5
SSP2 - CEPAM Medium	84.4	85.4	87.6	91.8	93.9	97.1	101.4
SSP2 - CEPAM Double Migration	84.4	85.4	87.6	91.8	93.9	97.1	101.3
SSP3 - Stalled Development	83.9	84.4	85.6	87.8	89.0	90.6	92.8

#### Migration – net flow over five years (in thousands)

SSP1 - Rapid Development	121.7	129.5	140.6	153.4	153.3	147.0	130.4
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSP2 - CEPAM Medium	121.6	130.2	145.4	166.8	171.6	171.8	161.4
SSP2 - CEPAM Double Migration	243.2	258.0	282.6	312.6	315.2	305.6	273.6
SSP3 - Stalled Development	81.0	44.0	0.2	0.2	0.2	0.2	0.3

### Ageing indicators by scenario

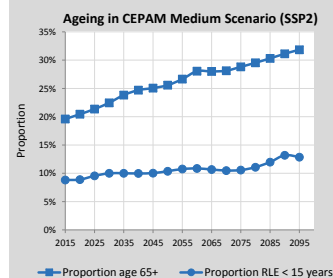
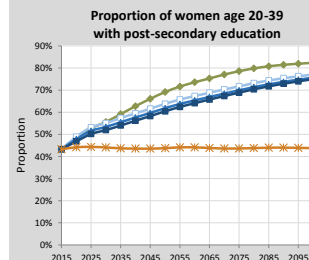
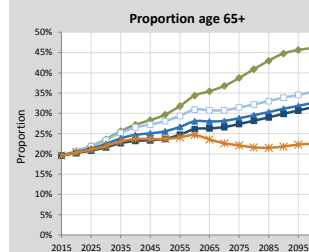
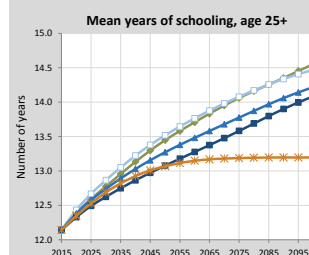
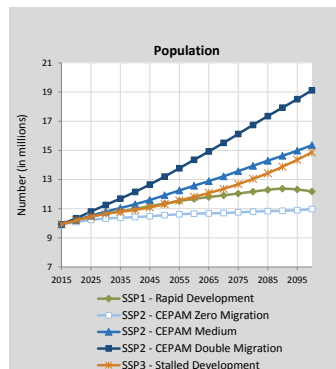
	2015	2020	2030	2050	2060	2075	2095
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#### Median age

SSP1 - Rapid Development	40.9	41.5	43.6	48.7	51.0	55.7	60.7
SSP2 - CEPAM Zero Migration	40.9	41.6	43.3	45.6	46.4	48.2	49.8
SSP2 - CEPAM Medium	40.9	41.3	42.4	43.9	44.6	46.1	47.8
SSP2 - CEPAM Double Migration	40.9	40.9	41.6	42.9	43.5	45.1	47.1
SSP3 - Stalled Development	40.9	41.1	41.8	40.3	39.1	38.3	38.5

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

SSP1 - Rapid Development	8.8%	8.9%	10.0%	10.4%	10.9%	10.6%	12.9%
SSP2 - CEPAM Zero Migration	9.1%	9.6%	11.0%	12.0%	12.0%	12.4%	10.7%
SSP2 - CEPAM Medium	9.1%	9.5%	10.5%	10.7%	10.5%	10.7%	9.5%
SSP2 - CEPAM Double Migration	9.1%	9.4%	10.1%	9.8%	9.4%	9.7%	9.0%
SSP3 - Stalled Development	9.5%	10.2%	11.4%	11.9%	11.1%	11.1%	8.6%



## Sweden (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)	5.27	5.26	5.21	5.15	5.10	4.97
Constant (CEPAM Medium)	5.27	5.34	5.49	5.69	5.93	6.08
Constant (CEPAM Double Migration)	5.27	5.42	5.77	6.21	6.71	7.11
Swedish (CEPAM Zero Migration)	5.27	5.26	5.21	5.15	5.10	4.97
Swedish (CEPAM Medium)	5.27	5.34	5.49	5.69	5.93	6.08
Swedish (CEPAM Double Migration)	5.27	5.42	5.77	6.21	6.71	7.11
Equalization (CEPAM Zero Migration)	5.27	5.28	5.26	5.24	5.21	5.10
Equalization (CEPAM Medium)	5.27	5.36	5.55	5.79	6.07	6.25
Equalization (CEPAM Double Migration)	5.27	5.44	5.83	6.31	6.87	7.32
Constant (CEPAM Medium-low fertility)	5.27	5.34	5.49	5.61	5.64	5.50
Swedish (CEPAM Medium-low fertility)	5.27	5.34	5.49	5.61	5.64	5.50
Equalization (CEPAM Medium-low fertility)	5.27	5.36	5.55	5.71	5.77	5.67

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

TOTAL (Constant)	65.3%	64.7%	62.7%	61.2%	60.5%	58.8%
TOTAL (Swedish)	65.3%	64.7%	62.7%	61.2%	60.5%	58.8%
TOTAL (Equalization)	65.3%	64.9%	63.4%	62.2%	62.0%	60.5%
MALE (Constant)	69.0%	68.2%	65.8%	64.1%	63.4%	61.6%
MALE (Swedish)	69.0%	68.2%	65.8%	64.1%	63.4%	61.6%
MALE (Equalization)	69.0%	68.2%	65.8%	64.1%	63.4%	61.6%
FEMALE (Constant)	61.5%	61.2%	59.6%	58.3%	57.7%	56.0%
FEMALE (Swedish)	61.5%	61.2%	59.6%	58.3%	57.7%	56.0%
FEMALE (Equalization)	61.5%	61.7%	61.0%	60.3%	60.5%	59.3%

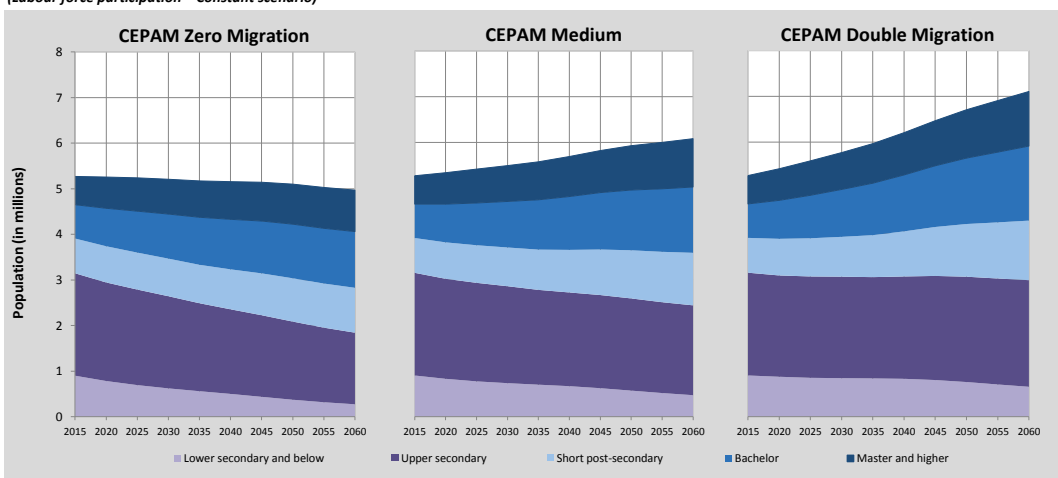
#### Labour force (15+) by highest level of educational attainment. Columns sum to 100%.

##### (CEPAM Medium; Constant participation)

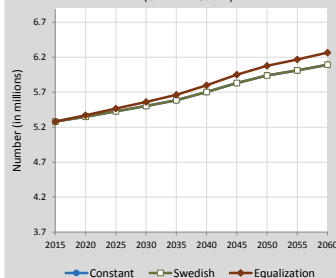
TOTAL E1-E4 - lower secondary and below	17.1%	15.5%	13.3%	11.7%	9.6%	7.7%
TOTAL E5 - upper secondary	42.6%	41.0%	38.6%	36.0%	34.0%	32.3%
TOTAL E6 - short post-secondary	14.5%	14.9%	15.4%	16.4%	17.8%	18.9%
TOTAL E7 - bachelor	14.1%	15.7%	18.3%	20.5%	22.2%	23.7%
TOTAL E8 - master and higher	11.8%	12.9%	14.3%	15.4%	16.4%	17.4%
MALE E1-E4 - lower secondary and below	19.0%	17.5%	15.1%	13.2%	10.8%	8.6%
MALE E5 - upper secondary	45.9%	44.2%	41.8%	39.4%	37.4%	35.9%
MALE E6 - short post-secondary	13.0%	13.3%	13.2%	13.3%	14.1%	15.1%
MALE E7 - bachelor	11.2%	13.3%	17.1%	20.4%	23.0%	24.8%
MALE E8 - master and higher	10.9%	11.7%	12.8%	13.7%	14.6%	15.6%
FEMALE E1-E4 - lower secondary and below	14.9%	13.3%	11.4%	10.0%	8.3%	6.8%
FEMALE E5 - upper secondary	39.0%	37.4%	35.1%	32.3%	30.3%	28.3%
FEMALE E6 - short post-secondary	16.0%	16.8%	17.9%	19.8%	21.8%	23.1%
FEMALE E7 - bachelor	17.3%	18.3%	19.7%	20.6%	21.4%	22.4%
FEMALE E8 - master and higher	12.8%	14.2%	15.9%	17.3%	18.3%	19.4%

#### Labour force size by educational attainment according to three migration scenarios, 2015-2060

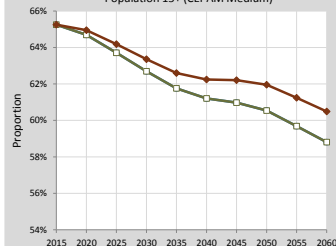
(Labour force participation = Constant scenario)



#### Labour force size (CEPAM Medium)



#### Labour force participation rates Population 15+ (CEPAM Medium)



#### Labour force dependency ratio Inactive population / Active population (CEPAM Medium)

