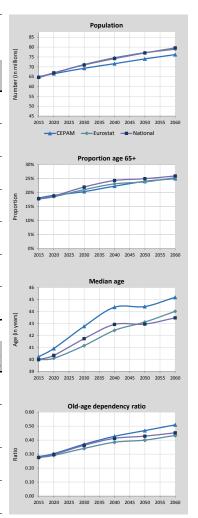
United Kingdom

Detailed Human Capital projections to 2060

Comparison of CEPAM projections with other sources

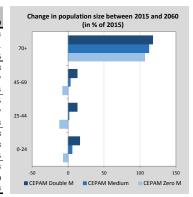
Demographic indicators - CEPAN	· ····cuiuiii occiiuiii						
		2015	2020	2030	2040	2050	2060
	CEPAM	65.40	66.92	69.68	72.00	74.44	76.61
Population (in millions)	Eurostat	64.88	67.24	71.56	75.00	77.57	79.34
	National	65.10	67.36	71.35	74.59	77.46	80.00
	CEPAM	18.1%	19.1%	20.4%	22.3%	24.1%	25.1%
Proportion age 65+	Eurostat	17.7%	18.6%	21.1%	23.2%	23.9%	25.4%
	National	17.8%	18.8%	22.0%	24.4%	25.0%	26.0%
	CEPAM	23.4%	23.4%	23.3%	22.1%	21.6%	21.5%
Proportion below age 20	Eurostat	23.6%	23.1%	22.8%	22.2%	21.9%	21.6%
	National	23.5%	23.4%	23.2%	22.4%	22.1%	22.1%
	CEPAM	40.2	40.9	42.8	44.4	44.4	45.2
Median age	Eurostat	40.0	40.1	41.2	42.4	43.1	44.0
	National	40.0	40.3	41.7	42.9	43.0	43.5
Old ddti-	CEPAM	0.28	0.30	0.37	0.43	0.47	0.51
Old-age dependency ratio (65+/15-64)	Eurostat	0.27	0.29	0.34	0.39	0.40	0.43
(03+713-04)	National	0.28	0.30	0.36	0.41	0.43	0.45
	CEPAM	0.27	0.29	0.29	0.28	0.29	0.29
Young-age dependency ratio (0-14/15-64)	Eurostat	0.27	0.28	0.27	0.28	0.28	0.28
(0-14/13-04/	National	0.27	0.28	0.28	0.28	0.29	0.29
	CEPAM	0.13	0.14	0.18	0.26	0.36	0.47
Parent support ratio (85+/50-64)	Eurostat	0.13	0.13	0.17	0.24	0.28	0.34
(03+/30-04/	National	0.13	0.13	0.20	0.29	0.36	0.43

Demographic assumptions underlying projections									
		2010- 2015	2015- 2020	2025- 2030	2035- 2040	2045- 2050	2055- 2060		
	CEPAM	1.92	1.95	1.94	1.94	1.93	1.90		
Total fertility rate	Eurostat	1.80	1.81	1.81	1.82	1.84	1.85		
	National	1.83	1.87	1.88	1.89	1.89	1.89		
Life expectancy at birth (in years)									
	CEPAM	80.0	81.0	82.0	84.0	86.0	88.0		
Male	Eurostat	79.8	80.6	81.3	82.6	83.9	85.1		
	National	80.2	81.4	82.4	83.9	85.2	86.4		
	CEPAM	83.5	84.5	85.6	87.7	89.7	91.8		
Female	Eurostat	83.5	84.3	85.0	86.3	87.6	88.8		
	National	83.7	84.6	85.4	86.8	87.9	89.1		
Five-year net migration flow	CEPAM	412.5	460.3	504.3	584.6	647.5	688.1		
(in thousands)	Eurostat	1361.4	1228.8	1151.1	860.7	744.7	628.0		
,	National	1080.5	925.1	925.1	925.1	925.1	925.1		



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

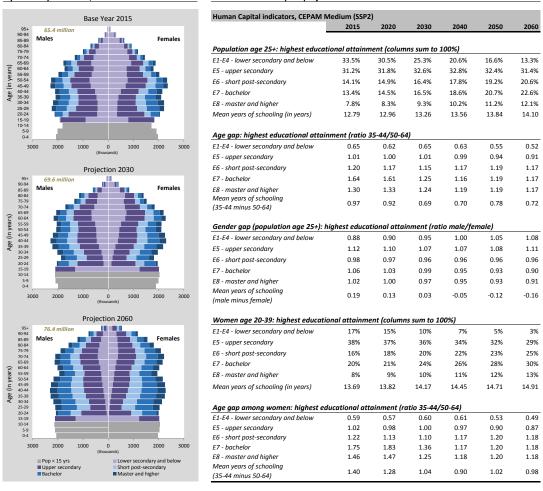
,	• •	2045	2020	2020	2010	2050	2050
		2015	2020	2030	2040	2050	2060
	Zero M	65.40	66.47	68.00	68.74	69.27	69.24
Population (in millions)	Medium	65.40	66.92	69.68	72.00	74.44	76.61
	Double M	65.40	67.37	71.30	75.05	79.10	83.06
	Zero M	19.46	19.32	19.66	18.95	18.38	18.18
Population 0-24 (in millions)	Medium	19.46	19.46	20.24	20.11	20.15	20.57
	Double M	19.46	19.61	20.81	21.20	21.75	22.64
	Zero M	17.31	17.18	15.83	15.16	15.85	15.25
Population 25-44 (in millions)	Medium	17.31	17.43	16.65	16.41	17.57	17.57
	Double M	17.31	17.68	17.43	17.56	19.08	19.53
	Zero M	20.44	20.60	21.23	20.63	19.60	18.88
Population 45-69 (in millions)	Medium	20.44	20.64	21.49	21.42	21.11	21.08
	Double M	20.44	20.69	21.74	22.18	22.51	23.05
	Zero M	8.19	9.38	11.28	14.00	15.44	16.93
Population 70+ (in millions)	Medium	8.19	9.38	11.30	14.06	15.60	17.40
	Double M	8.19	9.39	11.32	14.12	15.76	17.83



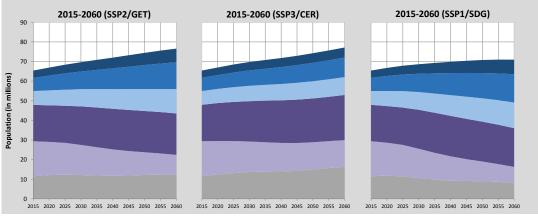
United Kingdom (Continued)

Pyramids by education, CEPAM Medium

Detailed Human Capital projections to 2060



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)

United Kingdom (Continued)

Alternative scenarios to 2100

SSP1 - Rapid Development

SSP2 - CEPAM Zero Migration

SSP2 - CEPAM Double Migration

SSP3 - Stalled Development

SSP1 - Rapid Development SSP2 - CEPAM Zero Migration

SSP2 - CEPAM Double Migration

SSP3 - Stalled Development

SSP2 - CEPAM Medium

SSP2 - CEPAM Medium

41.1

41.1

40.9

40.7

40.7

9.1%

9.0%

9.0%

40.2

40.2

40.2

40.2

8.9%

8.9%

8.9% 9.2%

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

44.0

43.3

42.8

42.3

41.8

10.1%

9.9%

9.7%

45.6

44.4

43.6

39.9

11.2%

12.2%

11.5%

10.8%

51.8

46.5

45.2

44.4

38.7

11.5%

12.0%

11.1%

10.3%

48.4

46.8

45.9

37.9

11.8%

12.4%

11.2%

10.5%

62.4

50.6

48.8

48.1

37.9

12.2%

11.1%

10.1%

9.7% 8.6% Proportion age 65+ Proportion RLE < 15 years

Projection results by scenario	(SSP1-SSP3)							
	2015	2020	2030	2050	2060	2075	2100	Population
Population (in millions)								106
SSP1 - Rapid Development	65.40	66.75	68.63	70.79	70.96	70.49	68.52	
SSP2 - CEPAM Zero Migration	65.40	66.47	68.00	69.27			68.70	96
SSP2 - CEPAM Medium	65.40	66.92	69.68	74.44	76.61	79.94	86.08	€ 86
SSP2 - CEPAM Double Migration	65.40	67.37	71.30	79.10	83.06	89.12	99.20	
SSP3 - Stalled Development	65.40	66.96	69.76	74.25	77.17	82.73	97.65	± 76 -
Duamantian and CC:								86 To Junior State of the State
Proportion age 65+	40.40/	40.00/	22.40/	20.00/	24.00/	20.50/	40.70/	ž Ť
SSP1 - Rapid Development	18.1%	19.3%	23.4%	30.9%		39.5%	48.7%	56
SSP2 - CEPAM Zero Migration	18.1%	19.2%	22.8%	28.2%		31.2%	35.6%	46
SSP2 - CEPAM Medium	18.1%	19.1%	22.3%	26.7%		29.2%	33.3%	2015 2025 2035 2045 2055 2065 2075 2085
SSP2 - CEPAM Double Migration	18.1%	18.9%	21.9%	25.5%		28.1%	32.5%	SSP1 - Rapid Development
SSP3 - Stalled Development	18.1%	18.9%	21.5%	23.8%	23.7%	21.3%	21.7%	SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium
Proportion below age 20								SSP2 - CEPAM Double Migration
SSP1 - Rapid Development	23.4%	23.0%	21.3%	17.0%	15.9%	13.8%	11.7%	SSP3 - Stalled Development
SSP2 - CEPAM Zero Migration	23.4%	23.4%	23.2%	21.2%	21.0%	19.8%	18.4%	
SSP2 - CEPAM Medium	23.4%	23.4%	23.3%	21.6%	21.5%	20.5%	19.1%	Mean years of schooling, age 25-
SSP2 - CEPAM Double Migration	23.4%	23.4%	23.5%	22.0%	21.9%	20.9%	19.4%	15.5
SSP3 - Stalled Development	23.4%	23.8%	25.4%	26.3%	27.6%	27.8%	27.9%	
								15.0
Proportion of women age 20	-39 with post-	secondary	education					£ 14.5
SSP1 - Rapid Development	42.0%	46.7%	54.1%	68.4%	73.1%	78.8%	82.5%	14.0 - 14.0 - 14.0 - 13.5 - 13.5 - 14.0 - 14
SSP2 - CEPAM Zero Migration	42.0%	46.6%	52.7%	61.9%	65.7%	70.6%	76.3%	U 14.0
SSP2 - CEPAM Medium	42.0%	45.6%	51.2%	60.0%	63.7%	68.7%	74.7%	I 13.5
SSP2 - CEPAM Double Migration	42.0%	44.7%	49.7%	58.6%	62.3%	67.4%	73.7%	2 133
SSP3 - Stalled Development	42.0%	38.9%	38.1%	37.8%	38.1%	37.7%	37.7%	13.0
Mean years of schooling, age								2015 2025 2035 2045 2055 2065 2075 2085
SSP1 - Rapid Development	12.8	13.0	13.3	14.0		14.8	15.3	
SSP2 - CEPAM Zero Migration	12.8	13.0	13.4	14.1		14.8	15.2	Proportion age 65+
SSP2 - CEPAM Medium	12.8	13.0	13.3	13.8	14.1	14.5	15.0	60%
SSP2 - CEPAM Double Migration	12.8	12.9	13.1	13.6		14.2	14.8	
SSP3 - Stalled Development	12.8	12.9	13.1	13.5	13.6	13.6	13.6	50%
								40%
Demographic assumptions ur	nderlying SSPs							ē o
	2045 2020		2020 2025	2050 2055	2000 2005	2075 2000	2007 2400	30%
	2015-2020 2	2020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100	20%
Total fertility rate	1.79	1.68	1.52	1.43	1.42	1.41	1.39	
SSP1 - Rapid Development SSP2 - CEPAM Zero Migration	1.79	1.08	1.52	1.43		1.41	1.85	10%
SSP2 - CEPAM Medium	1.92	1.95	1.94	1.91		1.88	1.85	0%
SSP2 - CEPAM Double Migration	1.92	1.95	1.94	1.91		1.88	1.85	2015 2025 2035 2045 2055 2065 2075 2085
SSP3 - Stalled Development	2.06	2.26	2.44	2.50	2.48	2.48	2.50	
								Proportion of women age 20-39 with post-secondary education
Life expectancy at birth for fe								90% J
SSP1 - Rapid Development	84.0	85.5	88.6	94.8			108.7	80%
SSP2 - CEPAM Zero Migration	83.5	84.5	86.6 86.6	90.9			100.3	70%
SSP2 - CEPAM Medium SSP2 - CEPAM Double Migration	83.5 83.5	84.5 84.5	86.6 86.6	90.8 90.7		96.0 95.9	100.2 100.1	60%
SSP3 - Stalled Development	83.0	83.5	84.6	86.8		89.4	91.5	it 50%
								00 40%
Migration – net flow over fiv								30%
SSP1 - Rapid Development	412.5	455.8	520.6	603.5		589.4	502.3	20%
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0			0.0	10%
SSP2 - CEPAM Medium	412.5	460.3	546.0	670.7		697.9	627.1	10%
SSP2 - CEPAM Double Migration SSP3 - Stalled Development	825.0 275.2	905.1 156.7	1038.1	1197.9 0.7		1136.8 0.9	922.6 1.1	2015 2025 2035 2045 2055 2065 2075 2085
Stanca Development	213.2	130.7	0.5	0.7	0.8	0.5	1.1	
Ageing indicators by scenario)							Ageing in CEPAM Medium Scenario
	2015	2020	2030	2050	2060	2075	2095	35%
Median age								30%
CCD4 Denid Denidence :	40.0			40.4			co. 4	

United Kingdom (Continued)

Labour force projections to 2060

Labour force indicators							labarra faran dan
	2015	2020	2030	2040	2050	2060	Labour force size (CEPAM Medium)
Labour force size, by participation and mi	gration scen	ario (in mill	ions)				41
Constant (CEPAM Zero Migration)	33.38	33.28	32.75	32.53	31.91	31.38	39
onstant (CEPAM Medium)	33.38	33.52	33.64	34.29	34.75	35.33	⊋ 37 ·
onstant (CEPAM Double Migration)	33.38	33.75	34.49	35.92	37.29	38.73	<u>0</u> 35 ⋅
wedish (CEPAM Zero Migration)	33.38	33.60	33.68	34.02	33.99	33.88	35 35 33 31 29 31 29 29 29 29 29 29 29 29 29 29 29 29 29
wedish (CEPAM Medium)	33.38	33.83	34.59	35.86	37.00	38.14	S 31
wedish (CEPAM Double Migration)	33.38	34.07	35.47	37.57	39.70	41.82	Ĕ 29
qualization (CEPAM Zero Migration)	33.38	33.56	33.51	33.69	33.47	33.22	27
qualization (CEPAM Medium)	33.38	33.80	34.43	35.55	36.50	37.49	25
qualization (CEPAM Double Migration)	33.38	34.04	35.33	37.28	39.22	41.18	
, , , , , , , , , , , , , , , , , , , ,	33.38					31.77	2015 2020 2025 2030 2035 2040 2045 2050 2055
onstant (CEPAM Medium-low fertility) wedish (CEPAM Medium-low fertility)	33.38	33.52 33.83	33.63 34.58	33.81 35.34	32.95 35.10	34.35	
							Constant ──Swedish ←Equalization
qualization (CEPAM Medium-low fertility)	33.38	33.80	34.42	35.07	34.65	33.77	
abour force participation rates, age 15+,	by participa	tion scenar	io (CEPAM I	Medium)			Labour force participation rates Population 15+ (CEPAM Medium)
OTAL (Constant)	61.9%	61.2%	58.4%	56.9%	55.8%	55.0%	64%
OTAL (Swedish)	61.9%	61.7%	60.1%	59.5%	59.4%	59.3%	62%
OTAL (Equalization)	61.9%	61.7%	59.8%	59.0%	58.6%	58.3%	
(ALE (Constant)	67.9%	66.8%	63.7%	61.9%	60.8%	59.8%	60%
1ALE (Swedish)	67.9%	67.2%	64.8%	63.8%	63.4%	62.9%	<u>ğ</u> 58%
(ALE (Equalization)	67.9%	66.8%	63.7%	61.9%	60.8%	59.8%	og 56%
EMALE (Constant)	56.2%	55.7%	53.4%	52.1%	51.0%	50.3%	<u>Q</u> 56%
EMALE (Swedish)	56.2%	56.5%	55.6%	55.4%	55.6%	56.0%	54% -
EMALE (Equalization)	56.2%	56.7%	56.2%	56.2%	56.5%	57.0%	52% -
· · · · · · · · · · · · · · · · · · ·							52%
abour force (15+) by highest level of edu	cational atta	inment. Col	lumns sum	to 100%.			50%
CEPAM Medium; Constant participation)							2015 2020 2025 2030 2035 2040 2045 2050 2055
OTAL E1-E4 - lower secondary and below	22.8%	20.8%	17.1%	13.7%	10.8%	8.8%	
OTAL E5 - upper secondary	37.4%	36.4%	35.5%	34.7%	33.4%	31.9%	Labour force dependency ratio Inactive population / Active population (CEPAM Medi
OTAL E6 - short post-secondary	15.2%	16.1%	17.3%	18.6%	20.0%	21.3%	1.4
OTAL E7 - bachelor	16.1%	17.7%	20.2%	22.2%	23.9%	25.5%	1.2
OTAL E8 - master and higher	8.4%	9.0%	10.0%	10.8%	11.8%	12.6%	
1ALE E1-E4 - lower secondary and below	24.6%	22.7%	19.0%	15.4%	12.3%	10.0%	1.0
1ALE E5 - upper secondary	37.7%	36.8%	36.2%	36.0%	35.2%	34.2%	0.8
IALE E6 - short post-secondary	14.5%	15.4%	16.8%	18.2%	19.7%	21.0%	i i i i i i i i i i i i i i i i i i i
1ALE E7 - bachelor	15.4%	16.7%	18.7%	20.3%	21.8%	23.2%	₾ 0.6
1ALE E8 - master and higher	7.9%	8.5%	9.3%	10.1%	10.9%	11.7%	0.4
EMALE E1-E4 - lower secondary and below	20.9%	18.7%	14.9%	11.7%	9.2%	7.4%	
EMALE E5 - upper secondary	37.1%	35.9%	34.6%	33.3%	31.4%	29.2%	0.2
EMALE E6 - short post-secondary	16.1%	16.9%	17.9%	18.9%	20.3%	21.6%	0.0
EMALE E7 - bachelor	17.0%	18.8%	21.8%	24.3%	26.4%	28.1%	2015 2020 2025 2030 2035 2040 2045 2050 2055
FEMALE E8 - master and higher	9.0%	9.7%	10.8%	11.7%	12.8%	13.6%	

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

