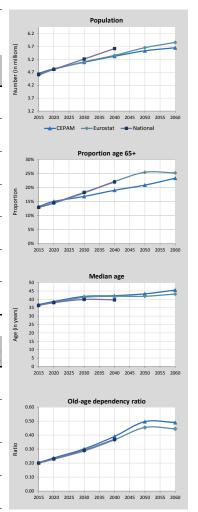
### **Ireland**

### Detailed Human Capital projections to 2060

### Comparison of CEPAM projections with other sources

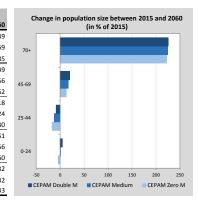
		2015	2020	2030	2040	2050	2060
	CERAM						
Description (in william)	CEPAM	4.70	4.88	5.13	5.36	5.57	5.69
Population (in millions)	Eurostat	4.63	4.85	5.15	5.40	5.69	5.90
	National	4.66	4.86	5.25	5.66	-	-
	CEPAM	13.2%	15.1%	16.9%	19.1%	20.9%	23.4%
Proportion age 65+	Eurostat	13.0%	14.5%	18.1%	22.2%	25.5%	25.3%
	National	13.0%	14.6%	18.3%	22.1%	-	-
	CEPAM	27.5%	27.6%	24.5%	22.3%	22.6%	21.8%
Proportion below age 20	Eurostat	28.2%	28.5%	26.2%	23.2%	23.9%	24.1%
	National	28.5%	28.7%	26.2%	24.3%	-	-
	CEPAM	36.9	38.7	41.8	42.2	43.3	45.5
Median age	Eurostat	36.5	38.1	41.2	41.8	41.9	43.2
	National	36.4	38.1	40.0	39.7	-	-
Old dd	CEPAM	0.20	0.24	0.30	0.39	0.50	0.49
Old-age dependency ratio (65+/15-64)	Eurostat	0.20	0.23	0.29	0.37	0.45	0.45
(03+713-04)	National	0.20	0.23	0.29	0.37	-	-
Variation described	CEPAM	0.33	0.33	0.28	0.28	0.31	0.28
Young-age dependency ratio (0-14/15-64)	Eurostat	0.34	0.35	0.30	0.28	0.33	0.31
10 17/13 07/	National	0.34	0.35	0.30	0.31	-	-
	CEPAM	0.08	0.09	0.11	0.20	0.35	0.43
Parent support ratio (85+/50-64)	Eurostat	0.08	0.09	0.11	0.17	0.29	0.37
(85+/50-04)	National	0.08	0.09	0.12	0.21	_	

Demographic assumptions underl	ying projections						
		2010- 2015	2015- 2020	2025- 2030	2035- 2040	2045- 2050	2055- 2060
	CEPAM	2.00	2.00	1.98	1.95	1.93	1.90
Total fertility rate	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)							
	CEPAM	79.8	80.7	81.7	83.7	85.6	87.6
Male	Eurostat	79.7	80.5	81.2	82.5	83.8	85.0
	National	80.1	81.3	82.4	84.1	-	-
	CEPAM	83.7	84.7	85.7	87.8	89.8	91.9
Female	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	CEPAM	6.6	8.7	11.1	15.8	18.9	21.5
(in thousands)	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 CEP	AM projections to	2060					
		2015	2020	2030	2040	2050	2060
	Zero M	4.70	4.87	5.09	5.28	5.44	5.49
Population (in millions)	Medium	4.70	4.88	5.13	5.36	5.57	5.69
	Double M	4.70	4.88	5.16	5.43	5.68	5.85
	Zero M	1.55	1.61	1.60	1.49	1.50	1.49
Population 0-24 (in millions)	Medium	1.55	1.62	1.62	1.52	1.55	1.56
	Double M	1.55	1.62	1.63	1.55	1.59	1.62
	Zero M	1.41	1.29	1.12	1.28	1.31	1.18
Population 25-44 (in millions)	Medium	1.41	1.30	1.14	1.31	1.36	1.24
	Double M	1.41	1.30	1.15	1.33	1.40	1.30
	Zero M	1.33	1.46	1.67	1.60	1.45	1.51
Population 45-69 (in millions)	Medium	1.33	1.46	1.68	1.62	1.48	1.56
	Double M	1.33	1.46	1.68	1.63	1.51	1.60
	Zero M	0.41	0.50	0.70	0.91	1.18	1.32
Population 70+ (in millions)	Medium	0.41	0.50	0.70	0.91	1.18	1.32
	Double M	0.41	0.50	0.70	0.91	1.19	1.33



## **Ireland (Continued)**

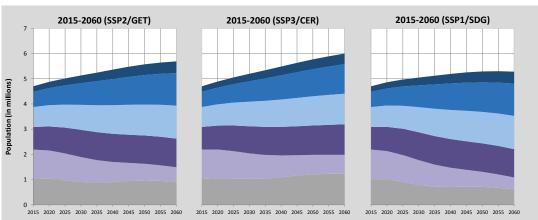
### Pyramids by education, CEPAM Medium

# Base Year 2015 Age (in years) Projection 2030 100 Projection 2060 5.7 million

#### **Detailed Human Capital projections to 2060**

Human Capital indicators, CEPAM N	2015	2020	2030	2040	2050	206
Population age 25+: highest educat						
E1-E4 - lower secondary and below	30.8%	27.8%	21.6%	16.0%	11.9%	9.19
E5 - upper secondary	22.2%	22.3%	22.5%	22.4%	22.0%	21.29
E6 - short post-secondary	22.8%	23.8%	25.7%	27.4%	28.7%	29.69
E7 - bachelor	17.5%	18.9%	21.8%	24.7%	27.0%	29.0
E8 - master and higher	6.8%	7.3%	8.4%	9.4%	10.3%	11.0
Mean years of schooling (in years)	11.79	12.12	12.80	13.45	13.97	14.3
Age gap: highest educational attair	ment (ratio	35-44/50-6	(4)			
E1-E4 - lower secondary and below	0.40	0.41	0.59	0.60	0.48	0.5
E5 - upper secondary	0.95	0.87	0.97	0.95	0.89	0.9
E6 - short post-secondary	1.40	1.20	1.00	1.08	1.13	1.0
E7 - bachelor	1.91	1.83	1.34	1.14	1.14	1.0
E8 - master and higher	2.18	1.82	1.16	1.08	1.14	1.0
Mean years of schooling (35-44 minus 50-64)	2.53	2.71	2.23	1.05	0.63	0.4
(33-44 IIIIIUS 30-04)						
Gender gap (population age 25+): h	ighest educa	tional atta	inment (ra	tio male/fe	male)	
E1-E4 - lower secondary and below	1.16	1.17	1.17	1.18	1.19	1.1
E5 - upper secondary	0.95	0.96	1.00	1.05	1.09	1.1
E6 - short post-secondary	0.85	0.85	0.85	0.85	0.84	0.8
E7 - bachelor	1.00	1.00	1.00	1.00	1.00	1.0
E8 - master and higher	1.05	1.06	1.07	1.08	1.08	1.0
Mean years of schooling (male minus female)	-0.21	-0.18	-0.11	-0.05	-0.02	0.0
Women age 20-39: highest education	anal attainm	ant (calum	nc cum to 1	00%)		
E1-E4 - lower secondary and below	9%	8%	5%	4%	3%	2
E5 - upper secondary	26%	26%	26%	24%	22%	22'
E6 - short post-secondary	29%	29%	31%	33%	34%	34
E6 - snort post-secondary E7 - bachelor	29% 27%	29% 28%	31% 30%	33% 31%	34% 32%	
	27% 9%			31% 9%	32% 9%	33
E8 - master and higher  Mean years of schooling (in years)	9% 14.22	8% 14.51	8% 14.71	9% 14.90	9% 15.01	9º 15.0
wieun yeurs of schooling (in yeurs)	14.22	14.51	14./1	14.90	15.01	15.0
Age gap among women: highest ed						
E1-E4 - lower secondary and below	0.35	0.38	0.60	0.63	0.47	0.5
E5 - upper secondary	0.85	0.75	0.91	0.93	0.85	0.8
E6 - short post-secondary	1.36	1.17	1.03	1.10	1.13	1.0
E7 - bachelor E8 - master and higher	2.03 2.63	1.90 2.11	1.31 1.07	1.11 1.00	1.13 1.13	1.0
E8 - master and nigner Mean years of schooling	2.03	2.11	1.07	1.00	1.13	1.0
(35-44 minus 50-64)	3.53	3.42	2.74	1.18	0.78	0.6

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

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

38.8

38.7

38.7

38.5

6.6%

6.6%

6.6% 7.1%

36.9

36.9

36.9

6.1%

6.1%

6.1% 6.4%

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

42.0

41.8

41.6

40.5

8.3%

8.3%

8.3%

43.7

43.3

43.0

39.2

10.1%

10.8%

10.6%

10.4%

46.1

45.5

45.1

39.0

11.9%

12.7%

12.3%

12.0%

47.6

46.6

46.1

37.9

13.2%

11.7%

11.1%

10.8%

50.7

49.7

49.2

39.2

11.4%

11.6%

11.1%

10.8%

9.9%

2015 2025 2035 2045 2055 2065 2075 2085 2095

Proportion age 65+ Proportion RLE < 15 years

Projection results by scenario (	(SSP1-SSP3)							
	2015	2020	2030	2050	2060	2075	2100	Population
Population (in millions)								7.8
SSP1 - Rapid Development	4.70	4.86	5.05	5.29	5.28	5.15	4.87	7.3
SSP2 - CEPAM Zero Migration	4.70	4.87	5.09	5.44	5.49	5.48	5.57	K   Company of the co
SSP2 - CEPAM Medium	4.70	4.88	5.13	5.57	5.69	5.80	6.11	6.3
SSP2 - CEPAM Double Migration	4.70	4.88	5.16	5.68	5.85	6.04	6.45	U.S 5.8
SSP3 - Stalled Development	4.70	4.89	5.20	5.77	6.00	6.40	7.42	iii 3.8 iii 1.5 ii 1.5
D								(suo) 6.8 (suo) 6.3 (suo)
Proportion age 65+	42.20/	45.20/	20.00/	24 70/	2440/	20.00/	40.70/	Ž 43
SSP1 - Rapid Development	13.2%	15.3%	20.0%	31.7%	34.1%	39.9%	49.7%	3.8
SSP2 - CEPAM Zero Migration	13.2%	15.1%	19.2%	28.0%	28.4%	30.2%	35.4%	3.3
SSP2 - CEPAM Medium	13.2%	15.1%	19.1%	27.4%	27.6%	29.1%	34.1%	2015 2025 2035 2045 2055 2065 2075 2085
SSP2 - CEPAM Double Migration	13.2%	15.1%	19.0%	27.0%	27.1%	28.5%	33.6%	SSP1 - Rapid Development
SSP3 - Stalled Development	13.2%	15.0%	18.2%	23.9%	22.3%	21.0%	22.3%	SSP2 - CEPAM Zero Migration SSP2 - CEPAM Medium
Proportion below age 20								SSP2 - CEPAM Double Migration
SSP1 - Rapid Development	27.5%	27.2%	22.6%	17.9%	16.3%	13.7%	11.5%	SSP3 - Stalled Development
SSP2 - CEPAM Zero Migration	27.5%	27.6%	24.5%	22.4%	21.5%	20.0%	18.3%	
SSP2 - CEPAM Medium	27.5%	27.6%	24.5%	22.6%	21.8%	20.4%	18.8%	Mean years of schooling, age 25-
SSP2 - CEPAM Double Migration	27.5%	27.6%	24.6%	22.8%	22.1%	20.7%	19.1%	18
SSP3 - Stalled Development	27.5%	28.0%	26.6%	27.2%	27.4%	27.3%	26.5%	16
								14
Proportion of women age 20-3	9 with post-s	econdary	education					₹ 12
SSP1 - Rapid Development	60.6%	61.9%	66.3%	75.0%	76.5%	80.3%	82.1%	Number of years
SSP2 - CEPAM Zero Migration	60.6%	63.7%	68.7%	75.3%	76.4%	79.4%	81.2%	» »
SSP2 - CEPAM Medium	60.6%	61.9%	66.0%	72.5%	73.5%	76.7%	79.0%	Ē 6
SSP2 - CEPAM Double Migration	60.6%	60.1%	63.5%	69.9%	71.0%	74.5%	77.2%	2 4
SSP3 - Stalled Development	60.6%	59.1%	58.1%	59.6%	58.9%	59.4%	59.2%	2
Mean years of schooling, age 2	25+							0
SSP1 - Rapid Development	11.8	12.1	12.8	14.0	14.4	15.0	15.4	2015 2025 2035 2045 2055 2065 2075 2085
SSP2 - CEPAM Zero Migration	11.8	12.2	13.0	14.2	14.7	15.2	15.5	
SSP2 - CEPAM Medium	11.8	12.1	12.8	14.0	14.4	14.9	15.2	Proportion age 65+
SSP2 - CEPAM Double Migration	11.8	12.0	12.6	13.7	14.1	14.6	15.0	80%
SSP3 - Stalled Development	11.8	12.1	12.8	14.0	14.4	14.7	14.7	50%
								40%
Demographic assumptions und	lerlying SSPs							00 30% - 00
	2015-2020 2	020-2025	2030-2035	2050-2055	2060-2065	2075-2080	2095-2100	Progo
Total fertility rate								20%
SSP1 - Rapid Development	1.86	1.73	1.54	1.43	1.42	1.40	1.39	10%
SSP2 - CEPAM Zero Migration	1.99	1.99	1.97	1.91	1.89	1.87	1.85	
SSP2 - CEPAM Medium	2.00	2.00	1.96 1.96	1.91 1.91	1.89 1.89	1.87 1.87	1.85 1.85	2015 2025 2035 2045 2055 2065 2075 2085
SSP2 - CEPAM Double Migration SSP3 - Stalled Development	2.00	2.00	2.43	2.45	2.42	2.40	2.38	2013 2023 2033 2043 2033 2003 2075 2085
S. S. Stanca Development	2.14	2.23	2.43	2.43	2.42	2.40	2.30	Proportion of women age 20-39
ife expectancy at birth for fen	nales (in year	rs)						with post-secondary education
SSP1 - Rapid Development	84.2	85.7	88.7	94.9	97.9	102.5	108.6	
SSP2 - CEPAM Zero Migration	83.7	84.7	86.8	90.9	93.0	96.1	100.2	80% - 70% -
SSP2 - CEPAM Medium	83.7	84.7	86.7	90.8	92.9	96.0	100.1	60%
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	87.9	89.5	91.5	6 40% -
Migration – net flow over five	years (in tho	usands)						2 40%
SSP1 - Rapid Development	6.6	8.4	12.1	16.6	17.8	18.4	13.5	20%
SSP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10%
SSP2 - CEPAM Medium	6.6	8.7	13.6	20.2	22.6	23.3	17.4	
SSP2 - CEPAM Double Migration SSP3 - Stalled Development	13.1 4.4	16.6 3.1	24.7 0.0	33.5 0.0	35.9 0.0	34.0 0.1	18.8 0.1	2015 2025 2035 2045 2055 2065 2075 2085
51 5 Stalled Development	4.4	3.1	0.0	0.0	0.0	0.1	0.1	
Ageing indicators by scenario	***	2022	2026		2056	2025	2005	Ageing in CEPAM Medium Scenario (
Median age	2015	2020	2030	2050	2060	2075	2095	30%
SSP1 - Rapid Development	36.9	38.9	43.1	47.7	51.6	57.5	63.0	5U%
SSP1 - Rupiu Development	36.9	20.9	43.1	47.7	J1.0 46.1	47.6	50.7	25%

## **Ireland (Continued)**

Labour force projections to 2060

Labour force indicators							
	2015	2020	2030	2040	2050	2060	Labour force size (CEPAM Medium)
Labour force size, by participation and mi	gration scen	ario (in mill	ions)				3.0
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	2.8
Constant (CEPAM Double Migration)	2.22	2.26	2.37	2.42	2.41	2.50	<u>0</u> 2.6
Swedish (CEPAM Zero Migration)	2.22	2.31	2.51	2.62	2.62	2.74	E ⊆ 2.4
Swedish (CEPAM Medium)	2.22	2.31	2.52	2.64	2.68	2.84	9 2.2
Swedish (CEPAM Double Migration)	2.22	2.30	2.52	2.66	2.72	2.91	5
Equalization (CEPAM Zero Migration)	2.22	2.29	2.46	2.53	2.51	2.58	2 2.0
Equalization (CEPAM Medium)	2.22	2.29	2.46	2.56	2.57	2.68	1.8
Equalization (CEPAM Double Migration)	2.22	2.29	2.47	2.57	2.61	2.76	1.6
Constant (CEPAM Medium-low fertility)	2.22	2.26	2.37	2.39	2.27	2.21	2015 2020 2025 2030 2035 2040 2045 2050 2055 20
Swedish (CEPAM Medium-low fertility)	2.22	2.31	2.52	2.61	2.55	2.56	Constant → Swedish ← Equalization
Equalization (CEPAM Medium-low fertility)	2.22	2.29	2.46	2.53	2.45	2.43	
7							Labour force participation rates
Labour force participation rates, age 15+,	by participa	tion scenari	io (CEPAM I	Medium)			Population 15+ (CEPAM Medium)
TOTAL (Constant)	60.4%	58.8%	56.2%	54.1%	51.5%	51.2%	62%
TOTAL (Swedish)	60.4%	60.0%	59.6%	59.2%	58.0%	59.4%	60%
TOTAL (Equalization)	60.4%	59.6%	58.3%	57.3%	55.6%	56.1%	58%
MALE (Constant)	68.2%	66.2%	62.9%	60.6%	58.2%	57.9%	56%
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%	5 54%
FEMALE (Constant)	52.8%	51.7%	49.8%	47.9%	45.2%	44.8%	£ 52%
FEMALE (Swedish)	52.8%	53.3%	54.4%	54.8%	53.9%	55.8%	50%
FEMALE (Equalization)	52.8%	53.3%	53.9%	54.0%	53.2%	54.4%	48% -
Labour force (15+) by highest level of edu (CEPAM Medium; Constant participation)		15.1%	10.5%	7.6%	5.9%	4.7%	46% - 2015 2020 2025 2030 2035 2040 2045 2050 2055 20
TOTAL E1-E4 - lower secondary and below TOTAL E5 - upper secondary	25.4%	25.3%	24.7%	23.3%	22.4%	21.8%	Labour force dependency ratio
TOTAL E6 - short post-secondary	26.4%	26.8%	27.5%	28.2%	28.8%	29.5%	Inactive population / Active population (CEPAM Medium
TOTAL E7 - bachelor	22.0%	23.6%	27.1%	29.8%	31.2%	32.1%	1.4
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%	1.2
MALE E5 - upper secondary	26.0%	26.1%	26.2%	25.4%	24.7%	24.3%	1.0
MALE E6 - short post-secondary	23.4%	23.9%	24.9%	25.6%	26.2%	26.9%	8.0 gg
MALE E7 - bachelor	20.0%	21.8%	25.4%	28.4%	30.0%	31.1%	0.6
MALE E8 - master and higher	7.9%	8.6%	9.7%	10.8%	11.5%	11.8%	0.4
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%	0.2
FEMALE E6 - short post-secondary	30.2%	30.4%	30.7%	31.4%	32.0%	32.7%	0.0
FEMALE E7 - bachelor	24.4%	25.9%	29.0%	31.5%	32.6%	33.3%	2015 2020 2025 2030 2035 2040 2045 2050 2055 206
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)

