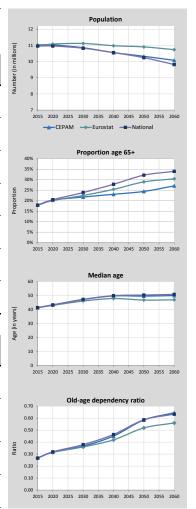
# **Czech Republic**

**Detailed Human Capital projections to 2060** 

#### Comparison of CEPAM projections with other sources

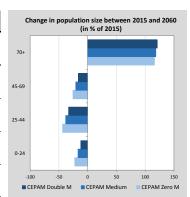
		2015	2020	2030	2040	2050	2060
	CEPAM	10.60	10.60	10.42	10.13	9.90	9.65
Population (in millions)	Eurostat	10.54	10.65	10.69	10.55	10.48	10.31
	National	10.53	10.53	10.40	10.13	9.81	9.39
	CEPAM	18.0%	20.3%	21.8%	23.1%	24.4%	27.1%
Proportion age 65+	Eurostat	17.8%	20.1%	22.5%	25.4%	29.0%	30.4%
	National	17.9%	20.5%	23.9%	27.8%	32.2%	34.0%
	CEPAM	19.4%	20.2%	19.3%	17.6%	18.0%	18.4%
Proportion below age 20	Eurostat	19.6%	20.5%	20.3%	19.2%	19.8%	20.5%
	National	19.5%	19.9%	18.4%	16.7%	17.0%	17.0%
	CEPAM	41.4	43.4	47.2	49.7	49.6	50.0
Median age	Eurostat	41.3	43.0	46.1	47.9	46.8	47.0
	National	41.3	43.3	47.3	50.0	50.4	50.9
014 44	CEPAM	0.27	0.32	0.37	0.45	0.58	0.65
Old-age dependency ratio (65+/15-64)	Eurostat	0.27	0.31	0.36	0.42	0.52	0.56
(05.715.04)	National	0.27	0.32	0.38	0.46	0.59	0.63
Young-age dependency ratio	CEPAM	0.23	0.25	0.22	0.21	0.25	0.26
(0-14/15-64)	Eurostat	0.23	0.25	0.24	0.23	0.27	0.28
10 1 1/15 0 1/	National	0.23	0.24	0.21	0.20	0.23	0.23
Parent support ratio	CEPAM	0.09	0.10	0.12	0.21	0.31	0.49
(85+/50-64)	Eurostat	0.09	0.11	0.13	0.20	0.27	0.40
103.730 0.7	National	0.09	0.11	0.15	0.25	0.34	0.47

Demographic assumptions underl	ying projections						
		2010- 2015	2015- 2020	2025- 2030	2035- 2040	2045- 2050	2055- 2060
	CEPAM	1.53	1.59	1.61	1.66	1.69	1.71
Total fertility rate	Eurostat	1.64	1.70	1.73	1.76	1.78	1.80
	National	-	-	-	-	-	-
Life expectancy at birth (in years)							
	CEPAM	76.0	77.1	78.2	80.3	82.4	84.5
Male	Eurostat	76.3	77.3	78.2	79.9	81.6	83.1
	National	-	-	-	-	-	-
	CEPAM	81.8	82.8	83.9	86.0	88.1	90.2
Female	Eurostat	82.2	83.0	83.8	85.2	86.5	87.8
	National	-	-	-	-	-	-
Five year not migration flow	CEPAM	26.7	31.7	36.8	46.7	55.0	61.2
Five-year net migration flow (in thousands)	Eurostat	103.8	95.1	88.3	98.0	77.7	54.9
(in diododinas)	National	-	-	-	-	-	-



### 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		
	Zero M	10.60	10.57	10.31	9.90	9.54	9.12		
Population (in millions)	Medium	10.60	10.60	10.42	10.13	9.90	9.65		
	Double M	10.60	10.63	10.53	10.34	10.23	10.13		
	Zero M	2.67	2.59	2.56	2.26	2.12	2.07		
Population 0-24 (in millions)	Medium	2.67	2.60	2.59	2.33	2.23	2.22		
	Double M	2.67	2.61	2.63	2.40	2.33	2.36		
	Zero M	3.25	2.98	2.24	2.04	2.12	1.83		
Population 25-44 (in millions)	Medium	3.25	3.00	2.29	2.14	2.25	2.01		
	Double M	3.25	3.01	2.35	2.23	2.37	2.17		
	Zero M	3.45	3.53	3.71	3.63	2.84	2.56		
Population 45-69 (in millions)	Medium	3.45	3.53	3.73	3.68	2.95	2.73		
	Double M	3.45	3.53	3.75	3.74	3.05	2.89		
	Zero M	1.23	1.47	1.81	1.97	2.46	2.66		
Population 70+ (in millions)	Medium	1.23	1.47	1.81	1.97	2.47	2.69		
	Double M	1.23	1.47	1.81	1.98	2.48	2.71		



### **Czech Republic (Continued)**

Pyramids by education, CEPAM Medium

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

2030

8.8%

66.2%

5.9%

3.4%

15.7%

13.04

0.80

0.90

1.27

1.91

0.69

1.11

0.91

60%

7%

11%

19%

0.88

0.94

1.94

1.85

2040

7.0%

64.5%

6.6%

4.5%

17 4%

13.39

0.62

0.95

1.14

1.30

0.86

1.11

0.79

0.81

-0.17

2%

55%

8%

13%

22%

0.55

0.93

1.02

1.31

1.20

2050

5.7%

62.1%

7.5%

5.4%

19 4%

13.73

0.48

0 93

1.23

1.23

1.04

1.13

0.77

-0.34

1%

50%

10%

13%

26%

0.44

n 89

1.26

1.26

0.85

2060

4.9%

59.2%

8.3%

6.3%

21 3%

14.04

0.50

0.91

1.20

1.21

1.15

1.17

0.95

0.70

-0.47

1%

46%

10%

15%

28%

15.09

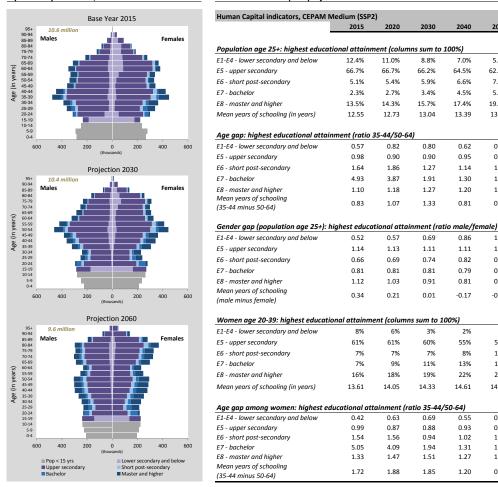
0.48

0.85

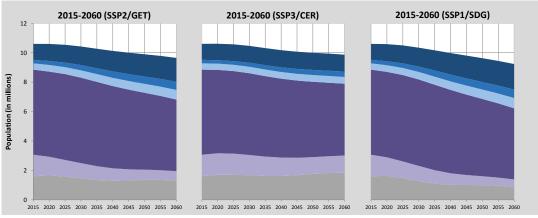
1.24

1.24

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)

## **Czech Republic (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

41.4

41.4

41.4

41.4

10.1%

10.1%

10.1%

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

43.4

43.4

43.3

43.2

11.0%

11.0%

10.9%

47.5

47.2

46.9

46.2

13.0%

12.9%

12.8%

50.6

49.6

48.9

44.4

12.6%

13.9%

13.4%

13.0%

Projection results by scenario								
	2015	2020	2030	2050	2060	2075	2100	Population
Population (in millions)								
SP1 - Rapid Development	10.60	10.59	10.35	9.63	9.23	8.44	7.35	11
SP2 - CEPAM Zero Migration	10.60	10.57	10.32	9.54	9.12	8.33	7.59	10
SP2 - CEPAM Medium	10.60	10.60	10.42	9.90	9.65	9.15	8.93	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SP2 - CEPAM Double Migration	10.60	10.63	10.53	10.24	10.13	9.87	10.06	E 9
SP3 - Stalled Development	10.60	10.61	10.47	10.00	9.87	9.76	10.70	<u>=</u> 8
								mpe upper
roportion age 65+							_	Ž 7
SP1 - Rapid Development	18.0%	20.5%	24.2%	36.5%	41.1%	44.4%	51.7%	6 -
SP2 - CEPAM Zero Migration	18.0%	20.3%	23.3%	32.8%	35.3%	34.3%	37.8%	
SP2 - CEPAM Medium	18.0%	20.3%	23.1%	31.8%	33.9%	32.7%	35.8%	2015 2025 2035 2045 2055 2065 2075 2085 20
SP2 - CEPAM Double Migration	18.0%	20.2%	22.8%	31.0%	32.8%	31.6%	34.6%	SSP1 - Rapid Development
SP3 - Stalled Development	18.0%	20.1%	22.0%	27.8%	27.6%	22.9%	22.4%	SSP2 - CEPAM Zero Migration
								SSP2 - CEPAM Medium
roportion below age 20								SSP2 - CEPAM Double Migration
SP1 - Rapid Development	19.4%	19.9%	17.7%	13.8%	13.2%	11.3%	10.2%	──SSP3 - Stalled Development
SP2 - CEPAM Zero Migration	19.4%	20.2%	19.3%	17.8%	18.1%	17.2%	16.7%	
SP2 - CEPAM Medium	19.4%	20.2%	19.3%	18.0%	18.4%	17.6%	17.1%	Mean years of schooling, age 25+
SP2 - CEPAM Double Migration	19.4%	20.2%	19.4%	18.2%	18.6%	17.9%	17.4%	18
SP3 - Stalled Development	19.4%	20.6%	21.3%	22.8%	24.6%	25.6%	26.4%	16
								14
Proportion of women age 20	-39 with post-s	econdary	education					<u>\$</u> 12
SP1 - Rapid Development	26.0%	28.9%	33.6%	46.7%	52.2%	60.5%	69.7%	Number of years
SP2 - CEPAM Zero Migration	26.0%	28.8%	32.6%	41.3%		51.2%	60.1%	9er 04
SP2 - CEPAM Medium	26.0%	28.7%	32.4%	40.9%	44.7%	50.8%	59.7%	Ā 8
SP2 - CEPAM Double Migration	26.0%	28.6%	32.4%	40.3%	44.7%	50.6%	59.5%	2 6
SP3 - Stalled Development	26.0%	24.8%	22.8%	23.3%	23.1%	23.0%	22.9%	4
								2
Mean years of schooling, age	25+							0
SP1 - Rapid Development	12.6	12.7	13.0	13.8	14.1	14.7	15.4	2015 2025 2035 2045 2055 2065 2075 2085 20
SP2 - CEPAM Zero Migration	12.6	12.8	13.1	13.9	14.2	14.7	15.2	
SP2 - CEPAM Medium	12.6	12.7	13.0	13.7	14.2	14.7	15.1	Proportion age 65+
	12.6	12.7	13.0	13.6	13.9	14.5	15.1	60%
SP2 - CEPAM Double Migration								50%
SP3 - Stalled Development	12.6	12.7	13.0	13.5	13.7	13.8	13.8	30%
								40%
emographic assumptions ur	nderlying SSPs							tio
	2015-2020 2	020 2025	2020 2025	2050 2055	2000 2005	2075 2000	2005 2400	30%
	2013-2020 2	020-2025	2030-2033	2030-2033	2000-2003	2075-2080	2095-2100	20% *** ** **
otal fertility rate	4.42	1 27	1.20	1.20	1 27	4.27	1 27	T I I I I I I I I I I I
SP1 - Rapid Development SP2 - CEPAM Zero Migration	1.43 1.53	1.37 1.59	1.28 1.63	1.26 1.70	1.27 1.71	1.27 1.71	1.27 1.71	10% -
SP2 - CEPAINI Zero Migration SP2 - CFPAM Medium	1.53	1.59	1.63	1.70	1.71	1.71	1.71	
SP2 - CEPAIN Mealum SP2 - CEPAM Double Migration	1.53	1.59	1.64	1.70	1.71	1.71	1.71	2015 2025 2035 2045 2055 2065 2075 2085 20
SP3 - Stalled Development	1.65	1.88	2.09	2.27	2.30	2.34	2.38	
								Proportion of women age 20-39
ife expectancy at birth for fe	emales (in vear	s)						with post-secondary education
SP1 - Rapid Development	82.3	83.8	87.0	93.2	96.3	101.0	107.2	
SP2 - CEPAM Zero Migration	81.8	82.8	85.0	89.2		94.5	98.8	70%
SP2 - CEPAM Medium	81.8	82.8	85.0	89.2	91.3	94.5	98.7	60%
SP2 - CEPAM Double Migration	81.8	82.8	84.9	89.2	91.3	94.4	98.7	⊆ 50%
SP3 - Stalled Development	81.3	81.8	82.9	85.2	86.3	87.9	90.0	in 40%
								6
Aigration – net flow over fiv								ā 30%
SP1 - Rapid Development	26.7	31.3	39.3	51.5	54.6	57.2	53.6	20%
SP2 - CEPAM Zero Migration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10%
SP2 - CEPAM Medium	26.7	31.7	41.9	58.3	63.9	69.3	68.3	
SP2 - CEPAM Double Migration	53.4	62.6	80.9	109.1	117.8	125.0	118.8	2015 2025 2035 2045 2055 2065 2075 2085 20
SSP3 - Stalled Development	17.8	10.8	0.1	0.1	0.1	0.1	0.1	
geing indicators by scenario								Ageing in CEPAM Medium Scenario (SS
Semig mulcators by scenario	2015	2020	2030	2050	2060	2075	2095	Ageing in CEPAM Medium Scenario (SS
Лedian age	2013	2020	2030	2030	2000	20/3	2033	35%
SCD1 - Panid Davelonment	41.4	42 E	19.2	55.0	56.5	60.0	65.6	

56.5

51.0

50.0

49.3

43.0

15.6%

16.9%

16.1%

15.4%

60.9

52.3

50.9

50.0

40.2

17.1%

16.1%

15.1%

14.3%

65.6

53.0

51.5

50.6

39.7

14.0%

13.5%

12.5%

11.9% 10.3% → Proportion age 65+ → Proportion RLE < 15 years

# **Czech Republic (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)				5.8 -
Constant (CEPAM Zero Migration)	5.40	5.27	4.98	4.48	3.99	3.71	5.3
Constant (CEPAM Medium)	5.40	5.28	5.03	4.60	4.18	3.99	(S)
onstant (CEPAM Double Migration)	5.40	5.29	5.09	4.71	4.36	4.24	₫ 4.8
wedish (CEPAM Zero Migration)	5.40	5.35	5.24	4.94	4.54	4.30	E 4.3
wedish (CEPAM Medium)	5.40	5.37	5.30	5.06	4.76	4.63	90 43
wedish (CEPAM Double Migration)	5.40	5.38	5.36	5.19	4.96	4.93	43 43 43 43 44 44 44 44 44 44 44 44 44 4
qualization (CEPAM Zero Migration)	5.40	5.32	5.12	4.73	4.31	4.05	
qualization (CEPAM Medium)	5.40	5.34	5.18	4.86	4.52	4.36	3.3
qualization (CEPAM Double Migration)	5.40	5.35	5.24	4.97	4.72	4.64	2.8
onstant (CEPAM Medium-low fertility)	5.40	5.28	5.03	4.56	4.03	3.65	2015 2020 2025 2030 2035 2040 2045 2050 2055
wedish (CEPAM Medium-low fertility)	5.40	5.37	5.30	5.01	4.55	4.21	Constant → Swedish → Equalization
qualization (CEPAM Medium-low fertility)	5.40	5.34	5.18	4.82	4.35	3.98	
							Labour force participation rates
abour force participation rates, age 15+,	by participa	tion scenari	io (CEPAM I	Medium)			Population 15+ (CEPAM Medium)
OTAL (Constant)	60.0%	59.1%	56.1%	52.1%	49.0%	47.8%	70%
OTAL (Swedish)	60.0%	60.1%	59.1%	57.4%	55.7%	55.5%	60%
OTAL (Equalization)	60.0%	59.7%	57.8%	55.0%	52.9%	52.2%	50% -
AALE (Constant)	69.0%	67.5%	63.6%	59.5%	56.1%	54.5%	
1ALE (Swedish)	69.0%	68.1%	65.6%	63.2%	60.7%	59.7%	00 40%
AALE (Equalization)	69.0%	67.5%	63.6%	59.5%	56.1%	54.5%	o 30%
EMALE (Constant)	51.5%	51.1%	49.0%	45.0%	42.2%	41.4%	£ 300
EMALE (Swedish)	51.5%	52.4%	52.9%	51.8%	50.9%	51.4%	20% -
EMALE (Equalization)	51.5%	52.3%	52.2%	50.7%	49.9%	50.1%	10%
abour force (15+) by highest level of educ CEPAM Medium; Constant participation)	cational atta	inment. Co	lumns sum	to 100%.			2015 2020 2025 2030 2035 2040 2045 2050 2055
OTAL E1-E4 - lower secondary and below	6.7%	5.7%	4.7%	3.9%	3.0%	2.4%	Labour force dependency ratio
OTAL E5 - upper secondary	69.5%	68.5%	65.6%	61.7%	58.4%	55.4%	Inactive population / Active population (CEPAM Media
OTAL E6 - short post-secondary	5.3%	5.7%	6.8%	7.8%	8.6%	9.4%	
OTAL E7 - bachelor	3.2% 15.3%	3.9% 16.3%	5.2% 17.7%	6.5% 20.1%	7.4% 22.6%	8.2% 24.6%	1.4
OTAL E8 - master and higher  MALE E1-E4 - lower secondary and below	6.5%	5.7%	5.0%	4.3%	3.4%	24.6%	1.2
MALE E1-E4 - lower secondary and below MALE E5 - upper secondary	71.7%	70.9%	69.1%	4.3% 66.0%	63.4%	61.5%	1.0
1ALE E6 - short post-secondary	4.4%	5.1%	6.4%	8.0%	9.3%	10.1%	± 0.8 −
IALE E7 - bachelor	2.6%	3.2%	4.2%	5.2%	5.9%	6.5%	
ALE E8 - master and higher	14.8%	15.1%	15.3%	16.4%	17.9%	19.2%	0.6
EMALE E1-E4 - lower secondary and below	6.9%	5.6%	4.4%	3.4%	2.5%	2.0%	0.4
EMALE E5 - upper secondary	66.7%	65.5%	61.4%	56.1%	51.9%	47.8%	0.2
EMALE E6 - short post-secondary	6.3%	6.5%	7.2%	7.5%	7.8%	8.6%	0.0
	4.0%	4.7%	6.4%	8.1%	9.3%	10.3%	2015 2020 2025 2030 2035 2040 2045 2050 2055
EMALE E7 - bachelor	4.0%	4.770	0.170	0.170	0.0		

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

