# Zambia

**Detailed Human Capital projections to 2060**

**Pyramids by education, CEPAM Medium Scenario**

### Demographic indicators, CEPAM Medium Scenario (SSP2)

| | 2015 | 2020 | 2030 | 2040 | 2050 | 2060 |
|---|---|---|---|---|---|---|
| *Population (in millions)* | 16.10 | 18.72 | 24.49 | 30.65 | 36.79 | 42.29 |
| *Proportion age 65+* | 2.5% | 2.5% | 2.7% | 3.5% | 4.7% | 6.1% |
| *Proportion below age 20* | 56.6% | 55.2% | 51.5% | 47.3% | 42.9% | 38.5% |
| | 2015-2020 | 2020-2025 | 2030-2035 | 2040-2045 | 2050-2055 | 2055-2060 |
| *Total Fertility Rate* | 4.92 | 4.52 | 3.77 | 3.17 | 2.69 | 2.49 |
| *Life expectancy at birth (in years)* | | | | | | |
| *Male* | 59.6 | 60.3 | 61.7 | 63.1 | 64.6 | 65.3 |
| *Female* | 65.0 | 65.7 | 66.9 | 68.2 | 69.5 | 70.8 |
| *Five-year net-migration flow (in thousands)* | -5.6 | -12.0 | -27.4 | -45.0 | -63.2 | -71.9 |

### Human Capital indicators, CEPAM Medium Scenario (SSP2)

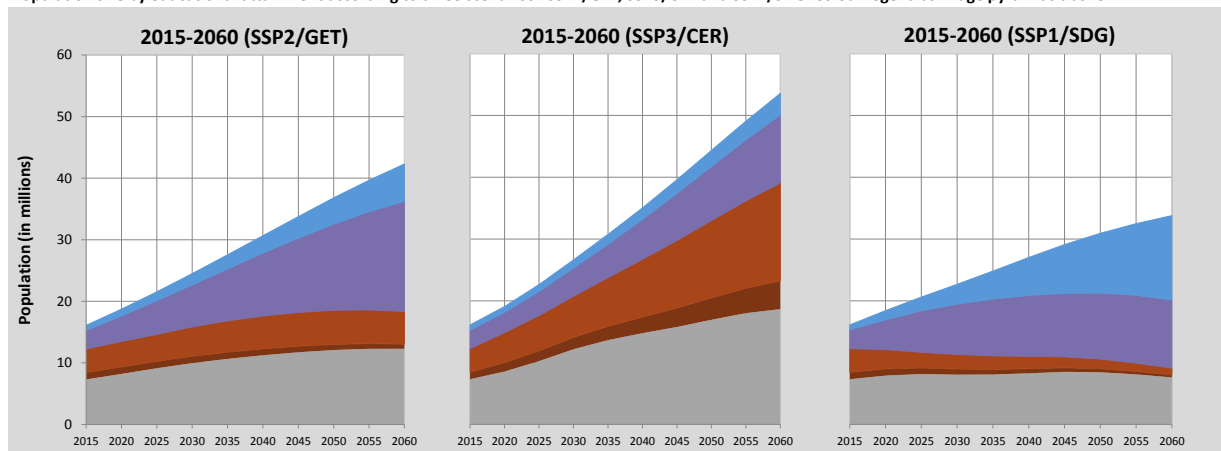| | 2015 | 2020 | 2030 | 2040 | 2050 | 2060 |
|---|---|---|---|---|---|---|
| ***Population age 25+: highest educational attainment (columns sum to 100%)*** | | | | | | |
| *E1 - no education* | 16.1% | 13.7% | 9.9% | 7.1% | 4.9% | 3.2% |
| *E2 - incomplete primary* | 21.7% | 19.7% | 15.3% | 11.6% | 8.3% | 5.7% |
| *E3 - primary* | 21.1% | 21.5% | 21.6% | 20.3% | 18.1% | 15.4% |
| *E4 - lower secondary* | 17.8% | 19.2% | 21.6% | 22.8% | 23.1% | 22.5% |
| *E5 - upper secondary* | 10.3% | 12.0% | 15.8% | 20.4% | 25.1% | 29.6% |
| *E6 - post-secondary* | 12.9% | 13.9% | 15.7% | 17.9% | 20.5% | 23.4% |
| *Mean years of schooling (in years)* | 7.6 | 8.0 | 8.8 | 9.6 | 10.3 | 10.9 |
| ***Gender gap (population age 25+): highest educational attainment (ratio male/female)*** | | | | | | |
| *E1 - no education* | 0.50 | 0.55 | 0.65 | 0.74 | 0.83 | 0.92 |
| *E2 - incomplete primary* | 0.67 | 0.66 | 0.68 | 0.71 | 0.75 | 0.78 |
| *E3 - primary* | 1.01 | 0.98 | 0.94 | 0.91 | 0.91 | 0.92 |
| *E4 - lower secondary* | 1.33 | 1.22 | 1.05 | 0.97 | 0.92 | 0.90 |
| *E5 - upper secondary* | 2.07 | 1.80 | 1.45 | 1.27 | 1.16 | 1.09 |
| *E6 - post-secondary* | 1.67 | 1.53 | 1.34 | 1.23 | 1.17 | 1.13 |
| *Mean years of schooling (male minus female)* | 1.0 | 0.9 | 0.6 | 0.4 | 0.3 | 0.2 |
| ***Women age 20-39: highest educational attainment (columns sum to 100%)*** | | | | | | |
| *E1 - no education* | 11.4% | 9.1% | 5.7% | 3.5% | 1.9% | 1.0% |
| *E2 - incomplete primary* | 18.7% | 15.5% | 9.9% | 6.2% | 3.6% | 1.9% |
| *E3 - primary* | 21.5% | 21.5% | 20.8% | 17.8% | 14.1% | 10.5% |
| *E4 - lower secondary* | 21.2% | 22.3% | 23.9% | 24.0% | 22.9% | 20.5% |
| *E5 - upper secondary* | 15.7% | 18.3% | 23.5% | 29.5% | 35.1% | 40.1% |
| *E6 - post-secondary* | 11.5% | 13.3% | 16.2% | 19.0% | 22.4% | 26.1% |
| *Mean years of schooling (in years)* | 7.6 | 8.3 | 9.5 | 10.4 | 11.2 | 11.8 |

*Education scenarios*

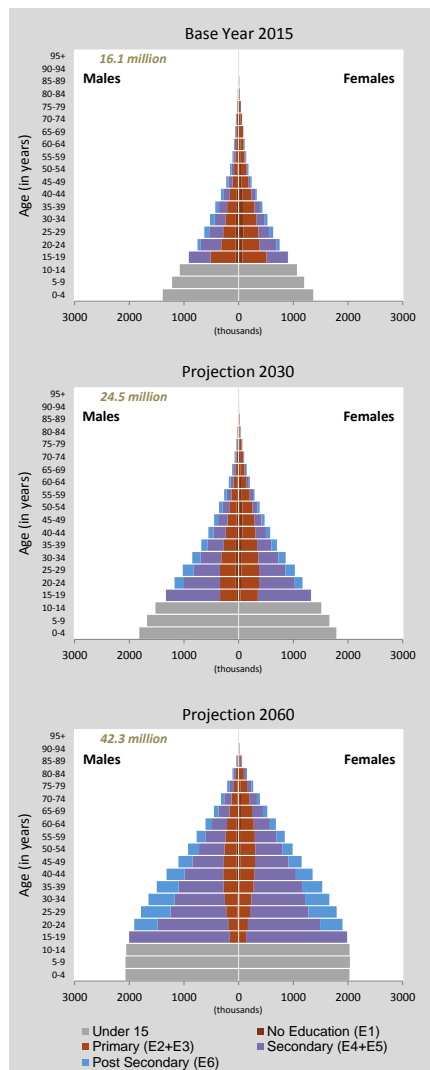*SSP2/GET: Global Education Trend Scenario (Medium assumption)*

*SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)*

*SSP1/SDG: Sustainable Development Goal Scenario (universal primary and secondary education by 2030)*
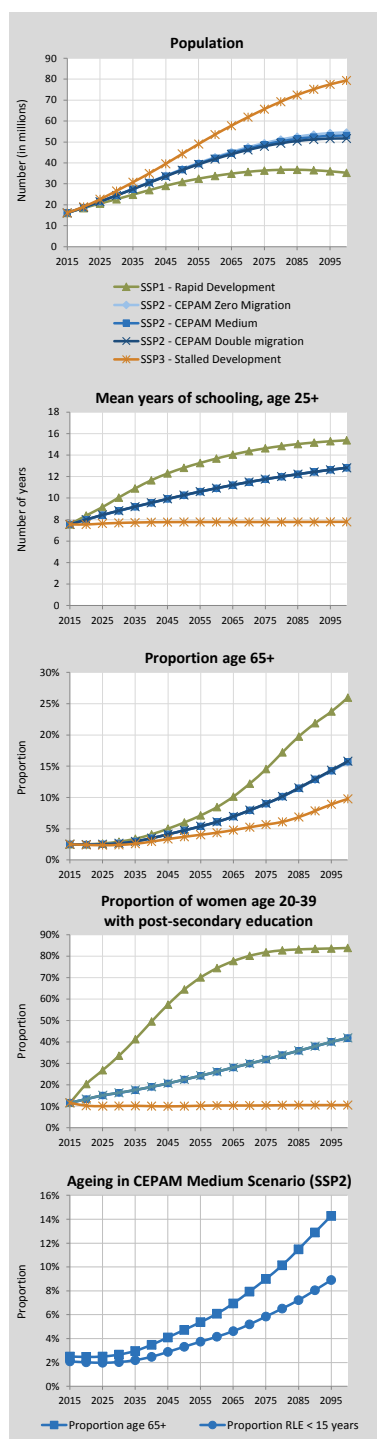


Base Year 2015 — 16.1 million

Projection 2030 — 24.5 million

Projection 2060 — 42.3 million

Legend: Under 15 · No Education (E1) · Primary (E2+E3) · Secondary (E4+E5) · Post Secondary (E6)

**Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG. Colour legend as in age pyramids above.**



2015-2060 (SSP2/GET)

2015-2060 (SSP3/CER)

2015-2060 (SSP1/SDG)

# Zambia (Continued)

## Alternative Scenarios to 2100



### Population



- SSP1 - Rapid Development
- SSP2 - CEPAM Zero Migration
- SSP2 - CEPAM Medium
- SSP2 - CEPAM Double migration
- SSP3 - Stalled Development

### Mean years of schooling, age 25+



### Proportion age 65+



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



### Ageing in CEPAM Medium Scenario (SSP2)



- Proportion age 65+
- Proportion RLE < 15 years

**Projection Results by Scenario (SSP1-3)**

| | 2015 | 2020 | 2030 | 2050 | 2060 | 2075 | 2100 |
|---|---|---|---|---|---|---|---|
| *Population (in millions)* | | | | | | | |
| SSP1 - Rapid Development | 16.10 | 18.42 | 22.66 | 30.92 | 33.79 | 36.38 | 35.30 |
| SSP2 - CEPAM *Zero Migration* | 16.10 | 18.73 | 24.53 | 37.04 | 42.72 | 49.50 | 54.58 |
| SSP2 - CEPAM *Medium* | 16.10 | 18.72 | 24.49 | 36.79 | 42.29 | 48.72 | 53.13 |
| SSP2 - CEPAM *Double Migration* | 16.10 | 18.71 | 24.45 | 36.54 | 41.86 | 47.95 | 51.69 |
| SSP3 - Stalled Development | 16.10 | 19.07 | 26.62 | 44.34 | 53.57 | 65.72 | 79.40 |
| *Proportion age 65+* | | | | | | | |
| SSP1 - Rapid Development | 2.5% | 2.5% | 2.9% | 6.0% | 8.5% | 14.5% | 26.0% |
| SSP2 - CEPAM *Zero Migration* | 2.5% | 2.5% | 2.7% | 4.7% | 6.1% | 9.0% | 15.6% |
| SSP2 - CEPAM *Medium* | 2.5% | 2.5% | 2.7% | 4.7% | 6.1% | 9.0% | 15.7% |
| SSP2 - CEPAM *Double Migration* | 2.5% | 2.5% | 2.7% | 4.7% | 6.1% | 9.0% | 15.8% |
| SSP3 - Stalled Development | 2.5% | 2.4% | 2.4% | 3.7% | 4.4% | 5.7% | 9.8% |
| *Proportion below age 20* | | | | | | | |
| SSP1 - Rapid Development | 56.6% | 54.4% | 47.3% | 36.1% | 30.9% | 24.3% | 17.0% |
| SSP2 - CEPAM *Zero Migration* | 56.6% | 55.1% | 51.5% | 42.8% | 38.4% | 32.2% | 24.9% |
| SSP2 - CEPAM *Medium* | 56.6% | 55.2% | 51.5% | 42.9% | 38.5% | 32.3% | 24.9% |
| SSP2 - CEPAM *Double Migration* | 56.6% | 55.2% | 51.6% | 43.0% | 38.6% | 32.3% | 25.0% |
| SSP3 - Stalled Development | 56.6% | 56.0% | 55.6% | 49.0% | 45.1% | 38.8% | 32.2% |
| *Proportion of women age 20-39 with post-secondary education* | | | | | | | |
| SSP1 - Rapid Development | 11.5% | 20.3% | 33.5% | 64.4% | 74.4% | 81.8% | 83.8% |
| SSP2 - CEPAM *Zero Migration* | 11.5% | 13.2% | 16.1% | 22.3% | 26.0% | 31.7% | 41.8% |
| SSP2 - CEPAM *Medium* | 11.5% | 13.3% | 16.2% | 22.4% | 26.1% | 31.8% | 41.8% |
| SSP2 - CEPAM *Double Migration* | 11.5% | 13.3% | 16.3% | 22.4% | 26.1% | 31.8% | 41.9% |
| SSP3 - Stalled Development | 11.5% | 10.2% | 10.1% | 10.0% | 10.3% | 10.3% | 10.5% |
| *Mean years of schooling, age 25+* | | | | | | | |
| SSP1 - Rapid Development | 7.6 | 8.4 | 10.0 | 12.8 | 13.7 | 14.6 | 15.4 |
| SSP2 - CEPAM *Zero Migration* | 7.6 | 8.0 | 8.8 | 10.3 | 10.9 | 11.7 | 12.8 |
| SSP2 - CEPAM *Medium* | 7.6 | 8.0 | 8.8 | 10.3 | 10.9 | 11.8 | 12.8 |
| SSP2 - CEPAM *Double Migration* | 7.6 | 8.0 | 8.8 | 10.3 | 10.9 | 11.8 | 12.8 |
| SSP3 - Stalled Development | 7.6 | 7.5 | 7.7 | 7.8 | 7.8 | 7.8 | 7.8 |

**Demographic assumptions underlying SSPs**

| | 2015-2020 | 2020-2025 | 2030-2035 | 2050-2055 | 2060-2065 | 2075-2080 | 2095-2100 |
|---|---|---|---|---|---|---|---|
| *Total fertility rate* | | | | | | | |
| SSP1 - Rapid Development | 4.44 | 3.64 | 2.78 | 2.02 | 1.75 | 1.48 | 1.28 |
| SSP2 - CEPAM *Zero Migration* | 4.92 | 4.53 | 3.77 | 2.69 | 2.32 | 1.97 | 1.71 |
| SSP2 - CEPAM *Medium* | 4.92 | 4.52 | 3.77 | 2.69 | 2.32 | 1.97 | 1.71 |
| SSP2 - CEPAM *Double Migration* | 4.92 | 4.52 | 3.77 | 2.69 | 2.32 | 1.97 | 1.71 |
| SSP3 - Stalled Development | 5.46 | 5.54 | 4.96 | 3.41 | 2.92 | 2.52 | 2.26 |
| *Life expectancy at birth for females (in years)* | | | | | | | |
| SSP1 - Rapid Development | 65.7 | 67.1 | 69.9 | 74.6 | 76.7 | 80.1 | 84.5 |
| SSP2 - CEPAM *Zero Migration* | 65.0 | 65.7 | 66.9 | 69.5 | 70.8 | 72.7 | 75.2 |
| SSP2 - CEPAM *Medium* | 65.0 | 65.7 | 66.9 | 69.5 | 70.8 | 72.7 | 75.2 |
| SSP2 - CEPAM *Double Migration* | 65.0 | 65.7 | 67.0 | 69.5 | 70.8 | 72.7 | 75.2 |
| SSP3 - Stalled Development | 64.5 | 64.3 | 64.0 | 63.5 | 63.2 | 62.9 | 62.8 |
| *Migration – net flow over five years (in thousands)* | | | | | | | |
| SSP1 - Rapid Development | -5.6 | -11.2 | -22.6 | -47.2 | -56.7 | -66.4 | -68.2 |
| SSP2 - CEPAM *Zero Migration* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SSP2 - CEPAM *Medium* | -5.6 | -12.0 | -27.4 | -63.2 | -80.0 | -100.4 | -114.2 |
| SSP2 - CEPAM *Double Migration* | -11.1 | -24.3 | -55.5 | -126.7 | -159.7 | -198.5 | -222.7 |
| SSP3 - Stalled Development | -3.7 | -4.3 | 0.0 | -0.1 | -0.1 | -0.1 | -0.1 |

**Ageing indicators, CEPAM Medium Scenario (SSP2)**

| | 2015 | 2020 | 2030 | 2050 | 2060 | 2075 | 2095 |
|---|---|---|---|---|---|---|---|
| *Median age* | 17.1 | 17.7 | 19.3 | 23.8 | 26.5 | 30.9 | 36.8 |
| *Proportion age 65+* | 2.5% | 2.5% | 2.7% | 4.7% | 6.1% | 9.0% | 14.3% |
| *Proportion RLE < 15 years* | 2.2% | 2.1% | 2.2% | 3.3% | 4.2% | 5.9% | 9.0% |