

Vietnam

Detailed Human Capital projections to 2060

| Demographic indicators, CEPAM Medium Scenario (SSP2) | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2015 | 2020 | 2030 | 2040 | 2050 | 2060 |
| Population (in millions) | 93.57 | 97.89 | 103.80 | 106.17 | 106.33 | 103.80 |
| Proportion age 65+ | 6.7% | 8.1% | 12.7% | 17.8% | 23.4% | 29.9% |
| Proportion below age 20 | 30.6% | 29.5% | 26.5% | 21.6% | 18.9% | 17.5% |
| | 2015-2020 | 2020-2025 | 2030-2035 | 2040-2045 | 2050-2055 | 2055-2060 |
| Total Fertility Rate | 1.85 | 1.74 | 1.61 | 1.51 | 1.46 | 1.45 |
| Life expectancy at birth (in years) | | | | | | |
| Male | 71.9 | 73.1 | 75.7 | 78.2 | 80.7 | 82.0 |
| Female | 81.1 | 82.1 | 83.9 | 85.8 | 87.7 | 89.6 |
| Five-year net-migration flow (in thousands) | -348.1 | -363.7 | -383.4 | -388.7 | -385.5 | -380.4 |

| 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 | 5.8% | 4.9% | 3.9% | 3.0% | 2.4% | 1.8% |
| E2 - incomplete primary | 15.8% | 13.6% | 10.4% | 7.7% | 5.6% | 4.0% |
| E3 - primary | 28.7% | 27.5% | 25.5% | 22.6% | 19.2% | 15.9% |
| E4 - lower secondary | 30.6% | 32.1% | 33.6% | 33.6% | 32.4% | 30.5% |
| E5 - upper secondary | 11.0% | 12.7% | 15.5% | 18.9% | 22.4% | 25.7% |
| E6 - post-secondary | 8.1% | 9.2% | 11.2% | 14.2% | 18.0% | 22.1% |
| Mean years of schooling (in years) | 7.4 | 7.8 | 8.4 | 9.1 | 9.8 | 10.4 |
| Gender gap (population age 25+): highest educational attainment (ratio male/female) | | | | | | |
| E1 - no education | 0.48 | 0.52 | 0.60 | 0.68 | 0.72 | 0.76 |
| E2 - incomplete primary | 0.69 | 0.70 | 0.76 | 0.82 | 0.88 | 0.94 |
| E3 - primary | 1.05 | 1.04 | 1.03 | 1.04 | 1.05 | 1.07 |
| E4 - lower secondary | 1.14 | 1.11 | 1.07 | 1.06 | 1.06 | 1.09 |
| E5 - upper secondary | 1.27 | 1.21 | 1.13 | 1.09 | 1.08 | 1.08 |
| E6 - post-secondary | 1.22 | 1.11 | 0.99 | 0.90 | 0.84 | 0.80 |
| Mean years of schooling (male minus female) | 0.4 | 0.3 | 0.2 | 0.1 | 0.0 | -0.1 |
| Women age 20-39: highest educational attainment (columns sum to 100%) | | | | | | |
| E1 - no education | 3.6% | 2.9% | 1.7% | 1.0% | 0.5% | 0.2% |
| E2 - incomplete primary | 8.4% | 6.3% | 2.9% | 1.5% | 0.7% | 0.3% |
| E3 - primary | 26.6% | 23.0% | 16.7% | 11.5% | 6.9% | 3.4% |
| E4 - lower secondary | 33.0% | 34.6% | 35.7% | 31.0% | 25.6% | 19.1% |
| E5 - upper secondary | 17.1% | 20.1% | 26.4% | 32.4% | 36.9% | 40.3% |
| E6 - post-secondary | 11.3% | 13.1% | 16.6% | 22.5% | 29.3% | 36.7% |
| Mean years of schooling (in years) | 8.6 | 9.3 | 10.4 | 11.5 | 12.4 | 13.2 |

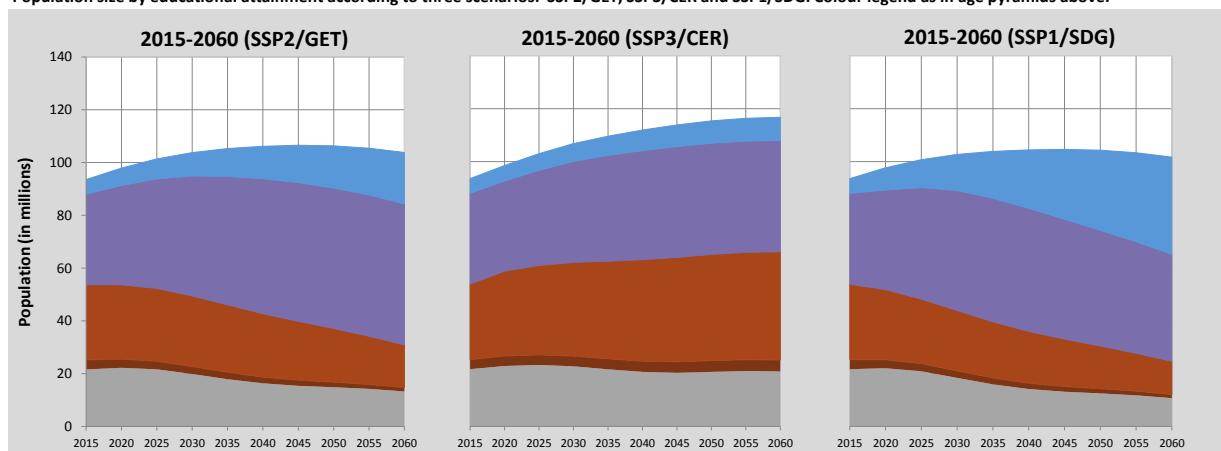
Education scenarios

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

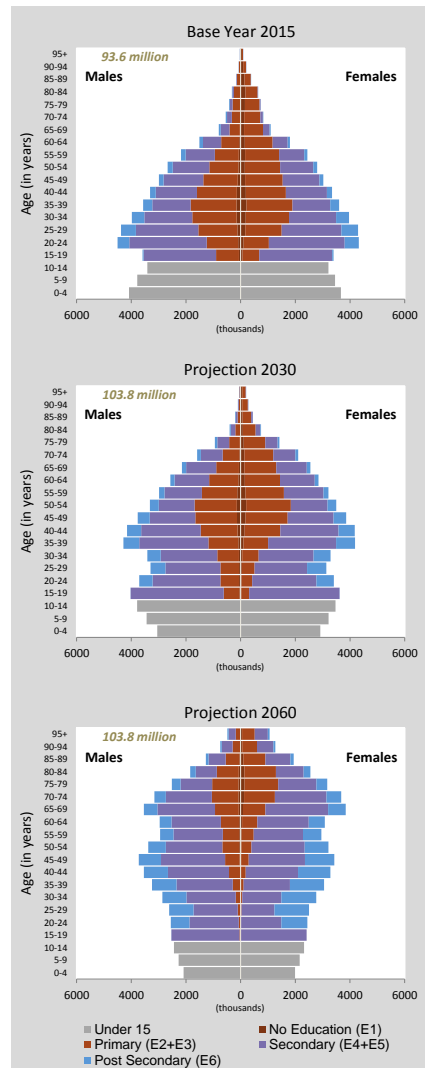
SSP3/CER: Constant Enrollment Rates Scenario (assumption of no future improvements)

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

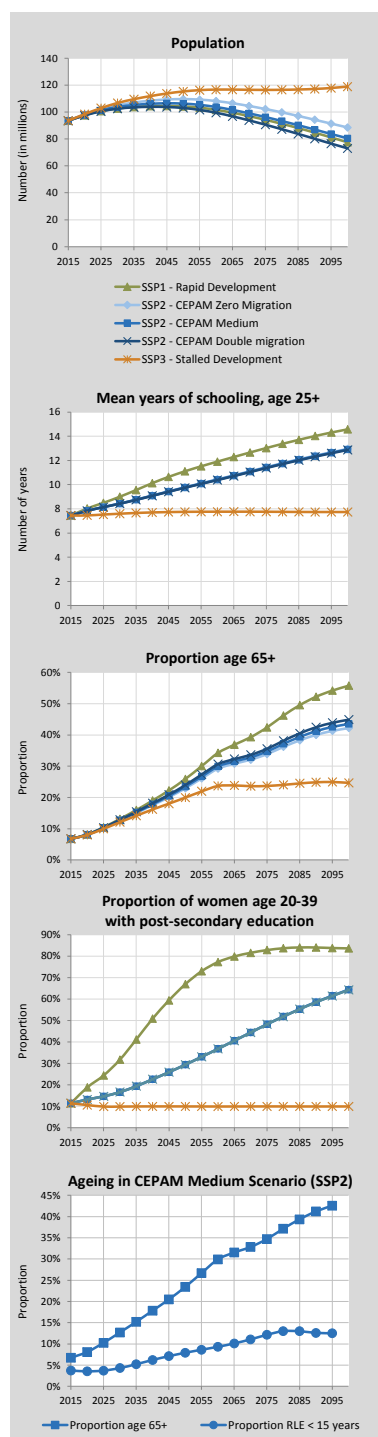
Population size by educational attainment according to three scenarios: SSP2/GET, SSP3/CER and SSP1/SDG. Colour legend as in age pyramids above.



Pyramids by education, CEPAM Medium Scenario



Vietnam (Continued)



Alternative Scenarios to 2100

| Projection Results by Scenario (SSP1-3) | | | | | | | |
|--|-------|-------|--------|--------|--------|--------|--------|
| | 2015 | 2020 | 2030 | 2050 | 2060 | 2075 | 2100 |
| Population (in millions) | | | | | | | |
| SSP1 - Rapid Development | 93.57 | 97.68 | 102.70 | 104.28 | 101.69 | 94.27 | 77.57 |
| SSP2 - CEPAM Zero Migration | 93.57 | 98.27 | 105.08 | 109.67 | 108.23 | 102.30 | 88.60 |
| SSP2 - CEPAM Medium | 93.57 | 97.89 | 103.80 | 106.33 | 103.80 | 96.33 | 80.52 |
| SSP2 - CEPAM Double Migration | 93.57 | 97.52 | 102.52 | 103.06 | 99.52 | 90.65 | 73.08 |
| SSP3 - Stalled Development | 93.57 | 98.48 | 106.78 | 115.36 | 116.75 | 116.52 | 118.99 |
| Proportion age 65+ | | | | | | | |
| SSP1 - Rapid Development | 6.7% | 8.2% | 13.1% | 25.9% | 34.3% | 42.4% | 55.8% |
| SSP2 - CEPAM Zero Migration | 6.7% | 8.1% | 12.6% | 22.9% | 29.2% | 33.9% | 42.2% |
| SSP2 - CEPAM Medium | 6.7% | 8.1% | 12.7% | 23.4% | 29.9% | 34.7% | 43.5% |
| SSP2 - CEPAM Double Migration | 6.7% | 8.1% | 12.8% | 24.0% | 30.6% | 35.6% | 44.9% |
| SSP3 - Stalled Development | 6.7% | 8.0% | 12.1% | 20.0% | 23.7% | 23.7% | 24.7% |
| Proportion below age 20 | | | | | | | |
| SSP1 - Rapid Development | 30.6% | 29.2% | 25.3% | 16.3% | 14.6% | 11.5% | 9.5% |
| SSP2 - CEPAM Zero Migration | 30.6% | 29.4% | 26.5% | 19.1% | 17.7% | 15.4% | 14.1% |
| SSP2 - CEPAM Medium | 30.6% | 29.5% | 26.5% | 18.9% | 17.5% | 15.1% | 13.8% |
| SSP2 - CEPAM Double Migration | 30.6% | 29.5% | 26.5% | 18.8% | 17.4% | 14.8% | 13.4% |
| SSP3 - Stalled Development | 30.6% | 29.8% | 28.4% | 23.6% | 23.7% | 23.3% | 25.1% |
| Proportion of women age 20-39 with post-secondary education | | | | | | | |
| SSP1 - Rapid Development | 11.3% | 18.8% | 31.7% | 66.9% | 77.2% | 82.8% | 83.6% |
| SSP2 - CEPAM Zero Migration | 11.3% | 13.1% | 16.6% | 29.4% | 36.8% | 48.2% | 64.4% |
| SSP2 - CEPAM Medium | 11.3% | 13.1% | 16.6% | 29.3% | 36.7% | 48.2% | 64.3% |
| SSP2 - CEPAM Double Migration | 11.3% | 13.1% | 16.6% | 29.3% | 36.7% | 48.2% | 64.2% |
| SSP3 - Stalled Development | 11.3% | 10.5% | 9.8% | 9.9% | 9.8% | 9.9% | 9.9% |
| Mean years of schooling, age 25+ | | | | | | | |
| SSP1 - Rapid Development | 7.4 | 8.0 | 9.0 | 11.1 | 11.9 | 13.0 | 14.6 |
| SSP2 - CEPAM Zero Migration | 7.4 | 7.8 | 8.4 | 9.8 | 10.4 | 11.4 | 13.0 |
| SSP2 - CEPAM Medium | 7.4 | 7.8 | 8.4 | 9.8 | 10.4 | 11.4 | 12.9 |
| SSP2 - CEPAM Double Migration | 7.4 | 7.8 | 8.4 | 9.7 | 10.4 | 11.4 | 12.9 |
| SSP3 - Stalled Development | 7.4 | 7.5 | 7.6 | 7.8 | 7.8 | 7.8 | 7.7 |

Demographic assumptions underlying SSPs

| | 2015-2020 | 2020-2025 | 2030-2035 | 2050-2055 | 2060-2065 | 2075-2080 | 2095-2100 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total fertility rate | | | | | | | |
| SSP1 - Rapid Development | 1.77 | 1.58 | 1.38 | 1.24 | 1.24 | 1.28 | 1.34 |
| SSP2 - CEPAM Zero Migration | 1.85 | 1.74 | 1.61 | 1.46 | 1.45 | 1.48 | 1.54 |
| SSP2 - CEPAM Medium | 1.85 | 1.74 | 1.61 | 1.46 | 1.45 | 1.48 | 1.54 |
| SSP2 - CEPAM Double Migration | 1.85 | 1.74 | 1.61 | 1.46 | 1.45 | 1.48 | 1.54 |
| SSP3 - Stalled Development | 1.99 | 1.99 | 2.00 | 1.98 | 2.04 | 2.17 | 2.34 |
| Life expectancy at birth for females (in years) | | | | | | | |
| SSP1 - Rapid Development | 81.6 | 83.1 | 86.1 | 91.9 | 94.8 | 99.2 | 105.1 |
| SSP2 - CEPAM Zero Migration | 81.1 | 82.1 | 83.9 | 87.7 | 89.6 | 92.4 | 96.2 |
| SSP2 - CEPAM Medium | 81.1 | 82.1 | 83.9 | 87.7 | 89.6 | 92.4 | 96.2 |
| SSP2 - CEPAM Double Migration | 81.1 | 82.1 | 83.9 | 87.7 | 89.6 | 92.4 | 96.2 |
| SSP3 - Stalled Development | 80.5 | 80.9 | 81.6 | 83.0 | 83.6 | 84.5 | 85.8 |
| Migration – net flow over five years (in thousands) | | | | | | | |
| SSP1 - Rapid Development | -348.4 | -363.5 | -380.9 | -381.7 | -369.8 | -339.3 | -288.6 |
| SSP2 - CEPAM Zero Migration | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SSP2 - CEPAM Medium | -348.1 | -363.7 | -383.4 | -385.5 | -372.9 | -341.5 | -293.5 |
| SSP2 - CEPAM Double Migration | -696.1 | -724.5 | -757.1 | -746.1 | -713.2 | -640.1 | -533.2 |
| SSP3 - Stalled Development | -232.0 | -122.0 | -0.4 | -0.4 | -0.4 | -0.4 | -0.4 |

Ageing indicators, CEPAM Medium Scenario (SSP2)

| | 2015 | 2020 | 2030 | 2050 | 2060 | 2075 | 2095 |
|---------------------------|------|------|-------|-------|-------|-------|-------|
| Median age | 30.4 | 32.6 | 37.4 | 44.8 | 48.4 | 53.9 | 58.3 |
| Proportion age 65+ | 6.7% | 8.1% | 12.7% | 23.4% | 29.9% | 34.7% | 42.6% |
| Proportion RLE < 15 years | 4.1% | 3.8% | 4.1% | 8.1% | 9.8% | 12.8% | 13.3% |