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Workshop

“Are countries of the Visegrad Group (V4) ready for the consequences of population aging?”

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Population projections
between 2020 and 2050

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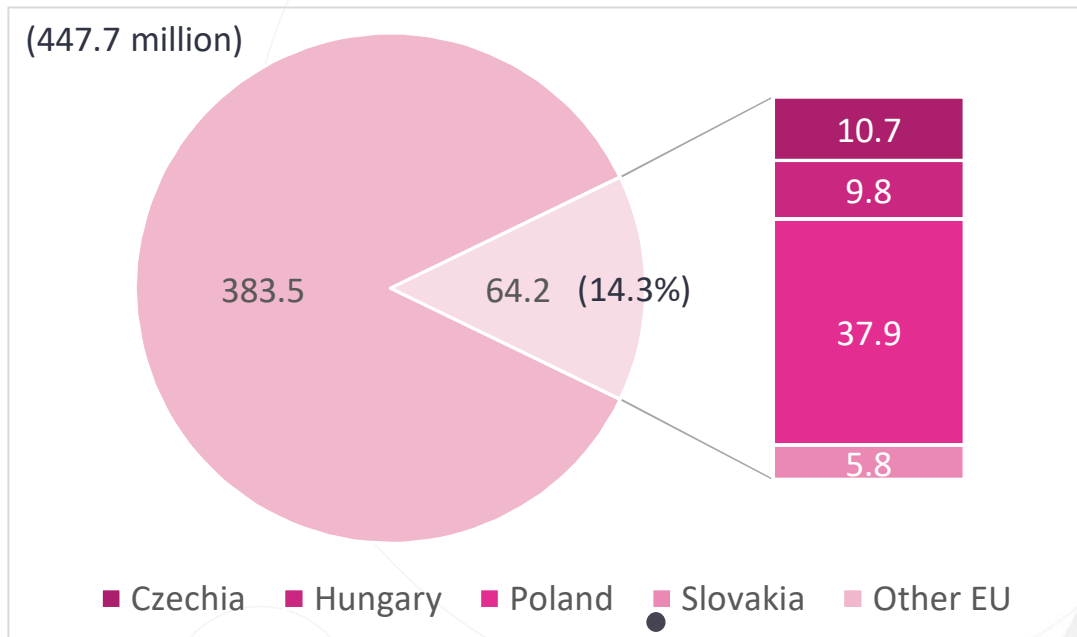


AGENDA

1. Introduction
2. Population projections at EU level, with special attention to V4 countries
3. Population projections of V4 countries based on different scenarios of assumptions on fertility, mortality, and migration levels
4. Old age and total dependency ratios in V4 countries
5. Population projections in NUTS 2 level regions of V4 countries
6. Comparison of population projection by EU, UN, and OECD
7. Concluding remarks

Population projections at EU level, with special attention to V4 countries

EU-27 population on 1 Jan 2020 (in millions)

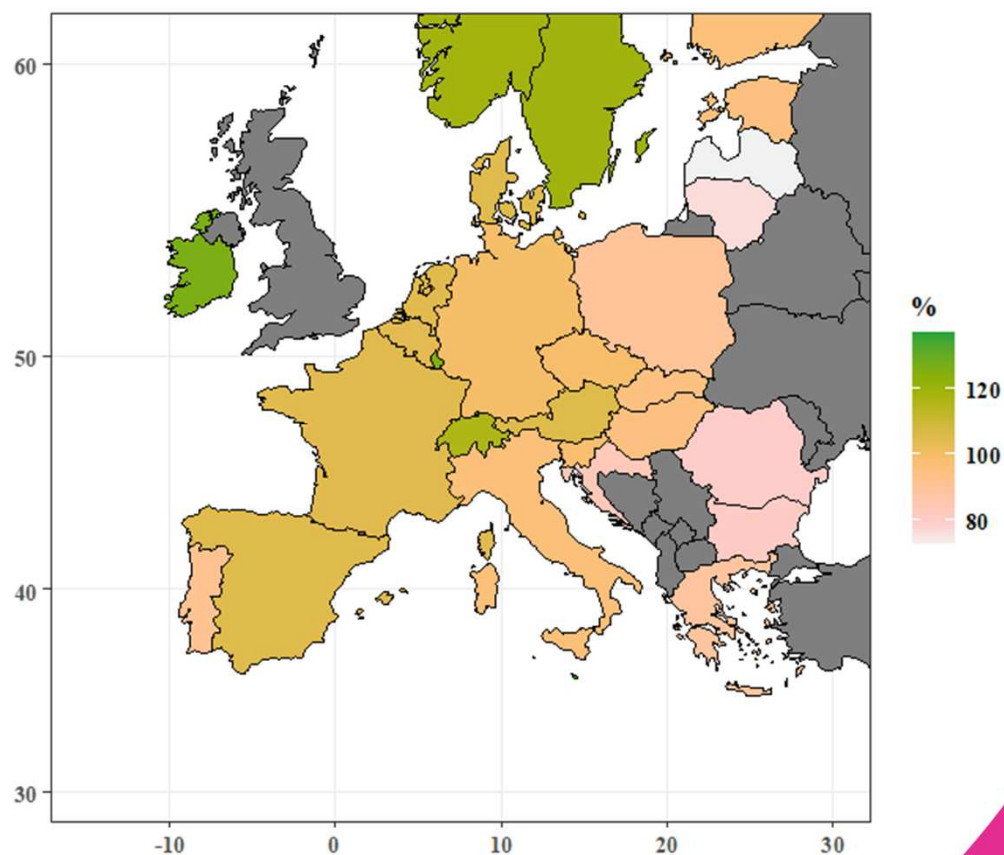


Source: Authors' own composition based on Eurostat (2020b)



Population projections at EU level, with special attention to V4 countries

Projected population of EU (+some other European) countries in 2050 compared to 2019 (%)



Source: Authors' own composition based on Eurostat (2020a)

Greatest increase (>20%):

Iceland (37.06%), Malta (35.42%), Ireland (26.69%), Luxembourg (25.27%)

High increase (10%<..<<20%):

Sweden, Cyprus, Norway, Switzerland, Lichtenstein

Moderate increase (1%<..<<5%):

Austria, Spain, Denmark, The Netherlands, France, Belgium

Moderate decrease (-11%<..<<-1%):

Czechia (-1.12%), Hungary (-5.14%), Slovakia (-5.56%), Poland (-10.11%), Germany, Slovenia, Italy, Finland, Estonia, Portugal, Greece

High decrease (-27%<..<<-16%):

Croatia, Bulgaria, Romania, Lithuania, Latvia

EU-27: -1.26%; Eurozone: +0.79%



Population projections at EU level, with special attention to V4 countries

Population change between
2019 and 2050:

Czechia:

10.6 million → 10.5 million

Hungary:

9.8 million → 9.3 million

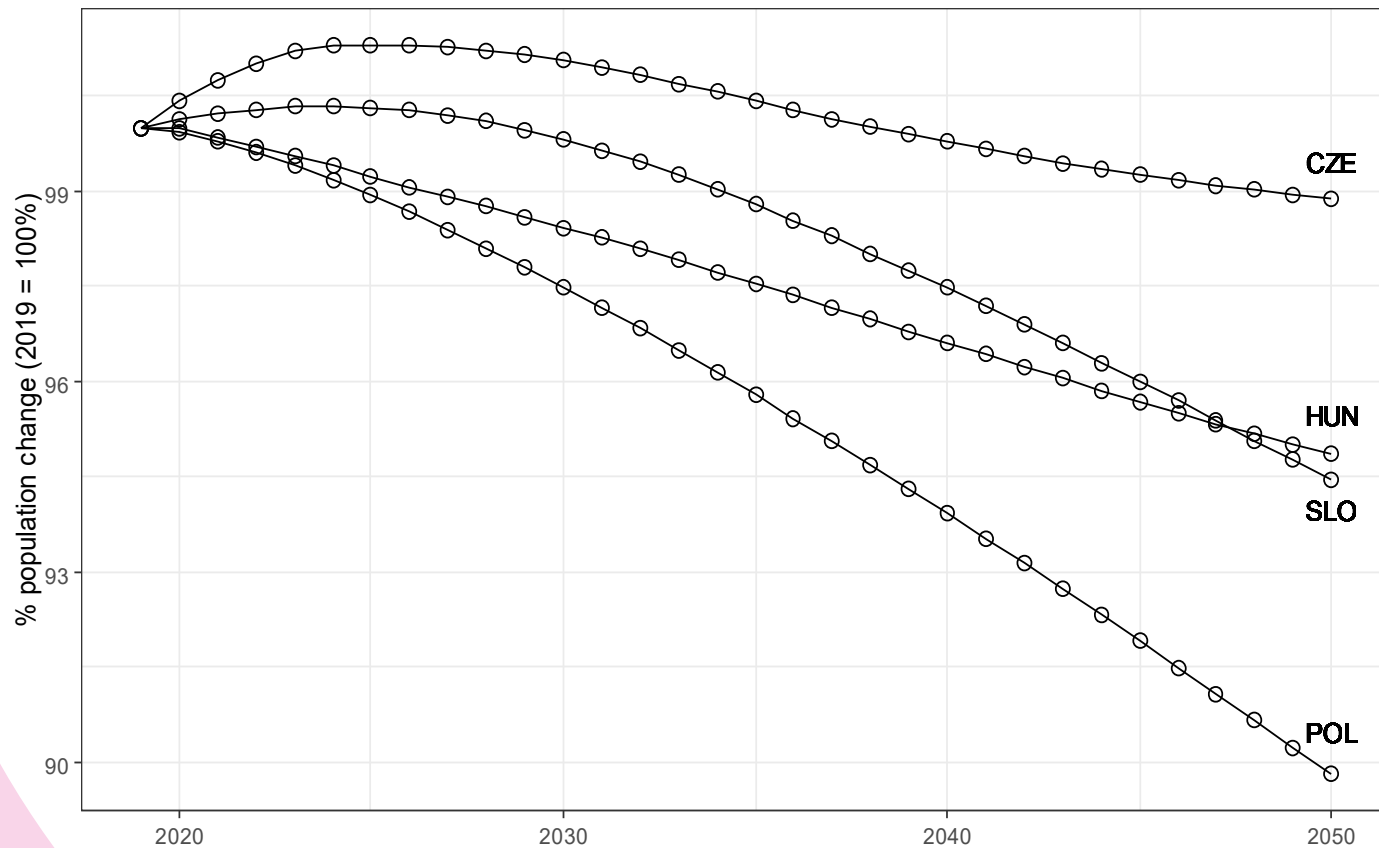
Poland:

37.9 million → 34.1 million

Slovakia:

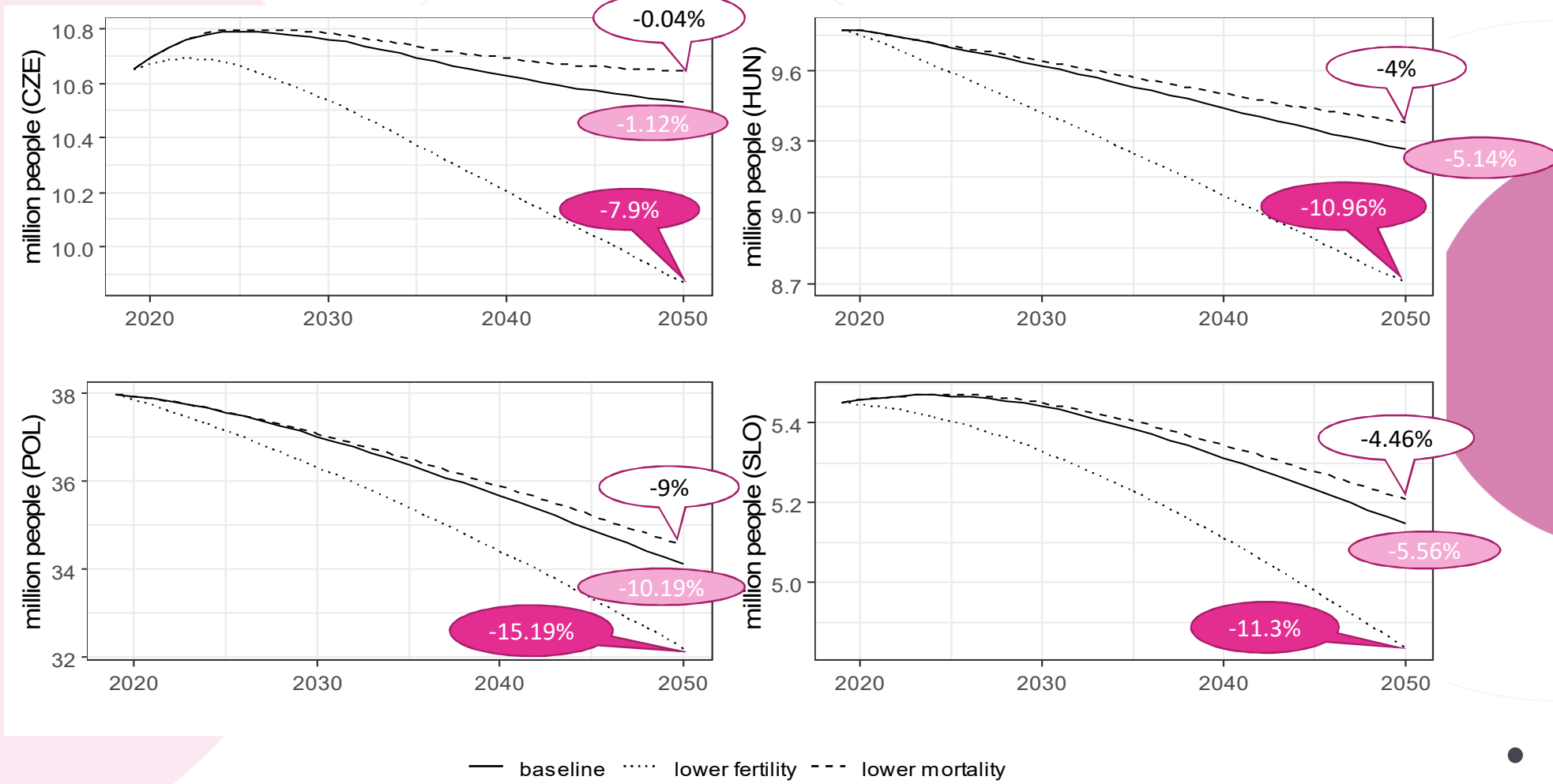
5.4 million → 5.1 million

The rate of population change of V4 countries between 2019 and 2050



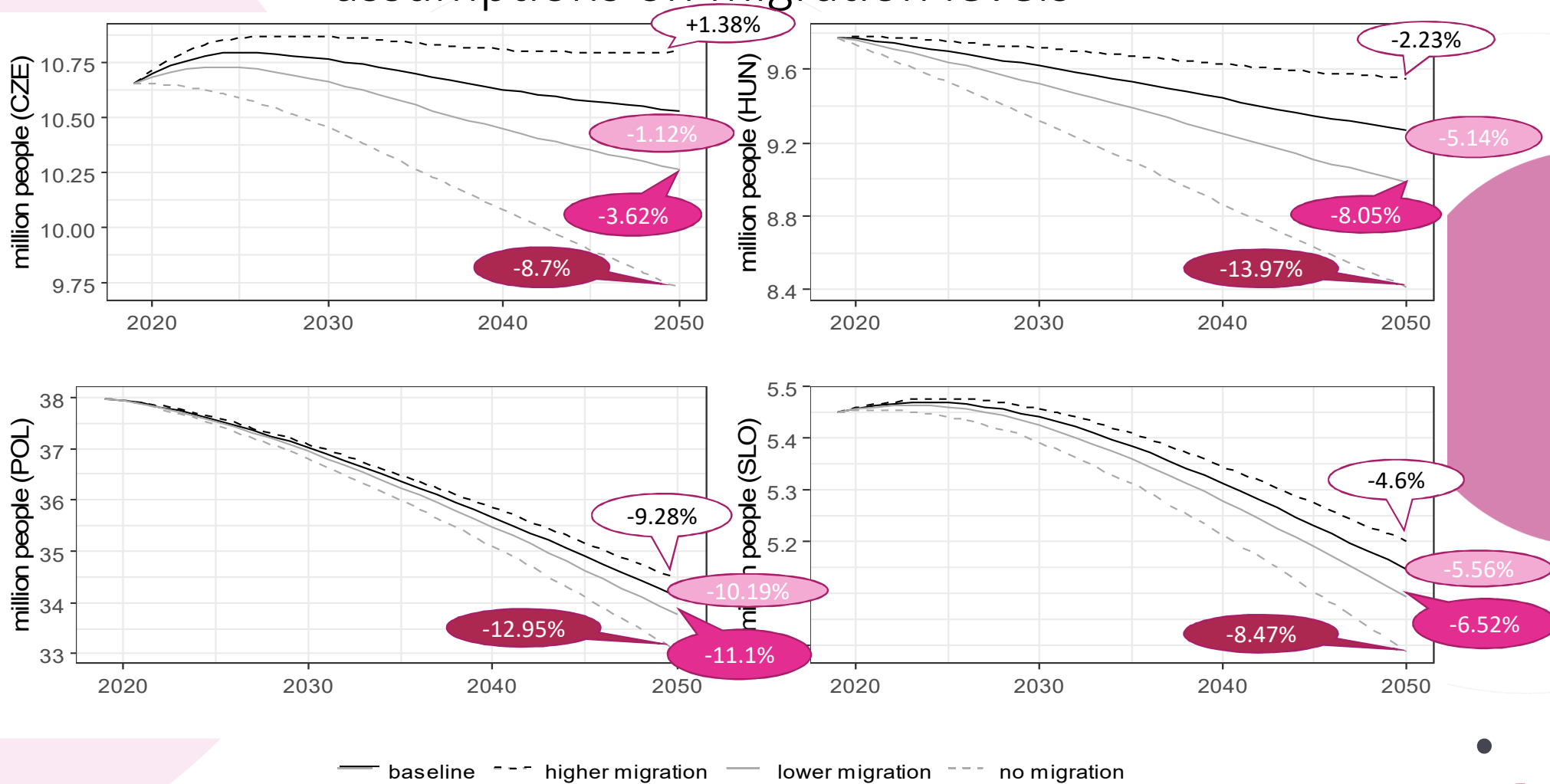
Source: Authors' own composition based on Eurostat (2020a)

Population projections of V4 countries based on different scenarios of assumptions on fertility and mortality levels



Source: Authors' own composition based on Eurostat (2020a)

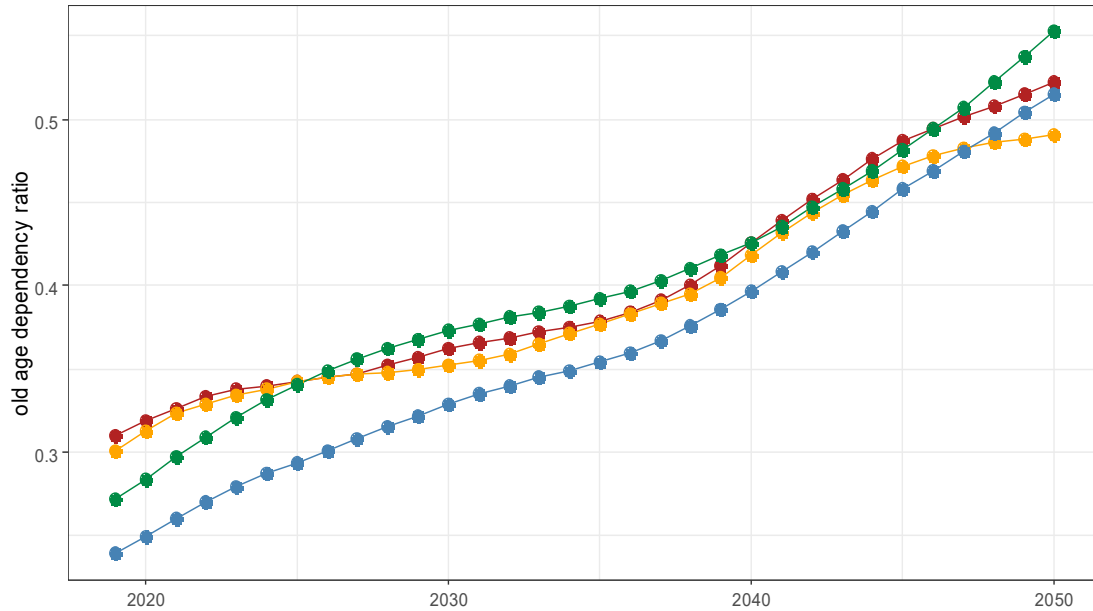
Population projections of V4 countries based on different scenarios of assumptions on migration levels



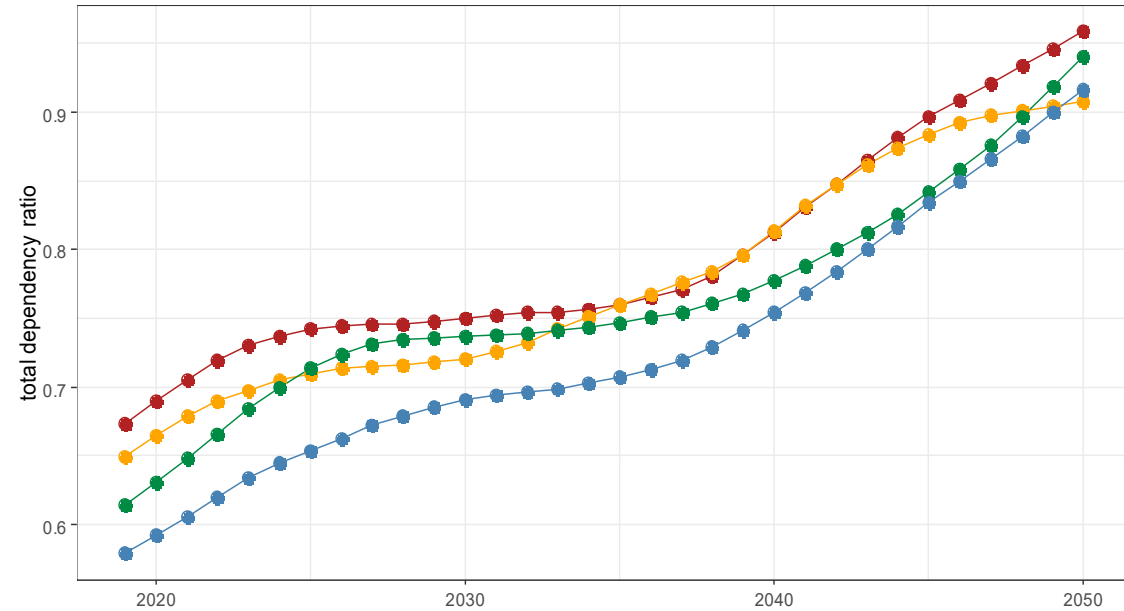
Source: Authors' own composition based on Eurostat (2020a)



Old age and total dependency ratios in V4 countries



● Czechia ● Hungary ● Poland ● Slovakia



● Czechia ● Hungary ● Poland ● Slovakia

Source: Authors' own composition based on OECD (2020)

$$\text{Old age dependency} = \frac{\text{No. of people aged 65 or above}}{\text{No. of people aged 15 - 64}}$$

EU-28: 0.313 (2019) → 0.507 (2050)

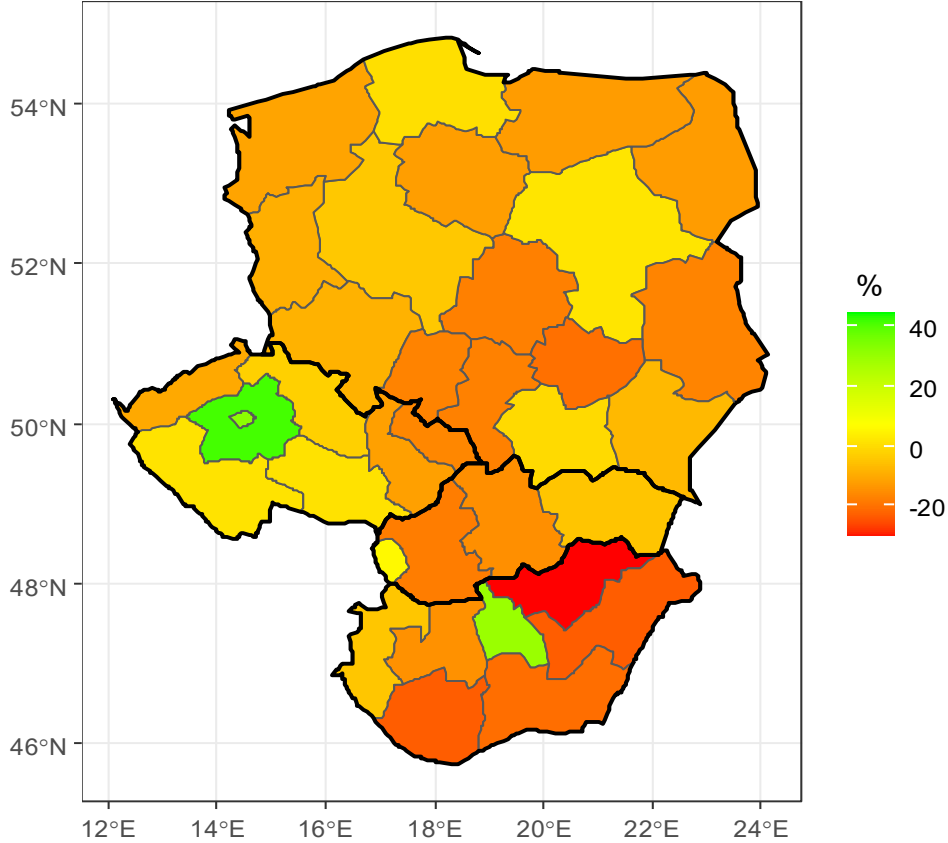
$$\text{Total dependency} = \frac{\text{No. of people aged under 20 and 65 or above}}{\text{No. of people aged 20 - 64}}$$

EU-28: 0.86 (2019) → 0.93 (2050)



Population projections in NUTS 2 level regions of V4 countries

Projected change of population by NUTS 2 regions in V4 countries, 2015-2050



Greatest increase (>30%):

Strední Čechy (CZE) (41.97%), Praha (CZE) (32.68%), Közép-Magyarország (HUN) (30.14%)

Moderate increase (0%<..

Bratislavský kraj (SLO) (6.19%), Mazowieckie (POL) (2.23%), Jihozápad (CZE) (1.73%), Jihovýchod (CZE) (1.59%), Pomorskie (POL) (0.85%)

High decrease (-16%<..

Swietokrzyskie (POL) (-19.75%), Západné Slovensko (SLO) (-17.6%), Łódzkie (POL), Slaskie (POL), Opolskie (POL), Lubelskie (POL) (-16-17%)

Highest decrease (-20%>):

Észak-Magyarország (HUN) (-35.16%), Dél-Dunántúl (HUN), Észak-Alföld (HUN), Dél-Alföld (HUN) (-20-23%)

Source: Authors' own composition based on Eurostat (2016)



Population projections in NUTS 2 level regions of V4 countries

Highest (>60%):

Západné Slovensko (SLO), Észak-Magyarország (HUN), Swietokrzyskie (POL)

High (50%<..<60%):

Majority of V4 regions

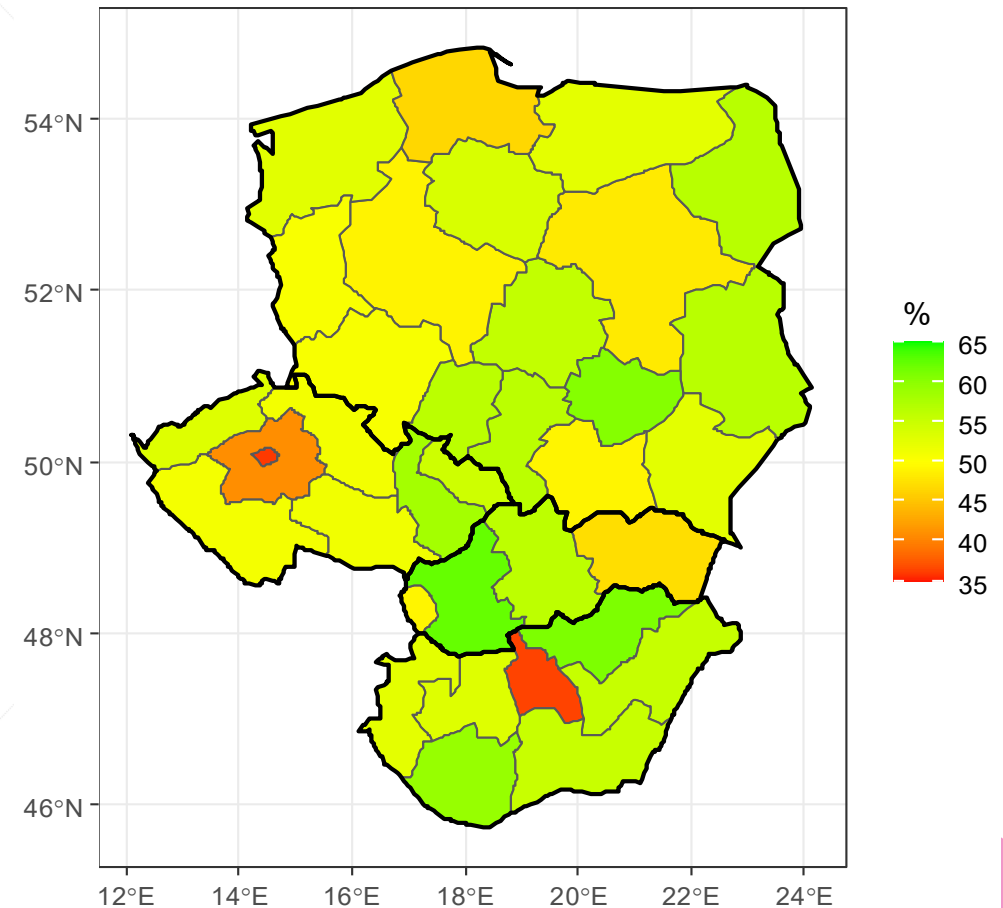
Moderate (40%<..<50%):

Malopolskie (POL), Bratislavský kraj (SLO), Wielkopolskie (POL), Mazowieckie (POL), Východné Slovensko (SLO), Pomorskie (POL), Strední Čechy (CZE)

Low (36%):

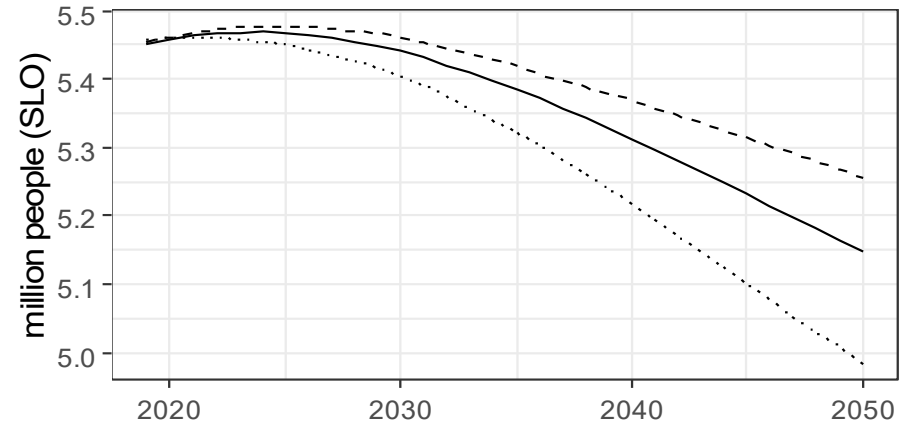
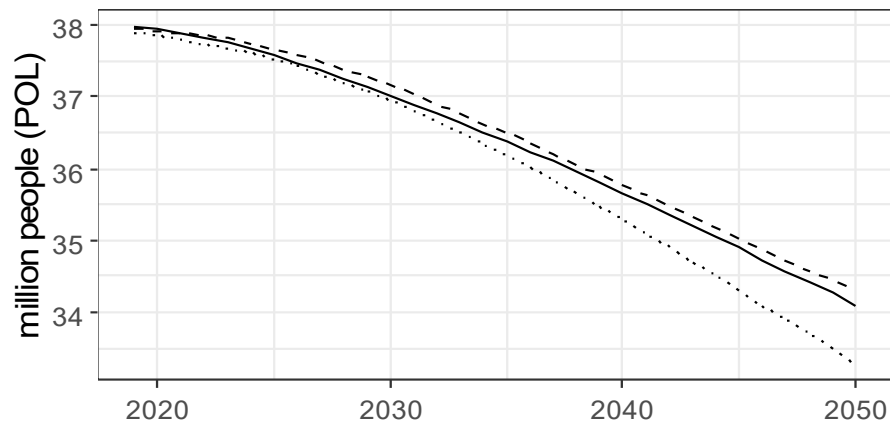
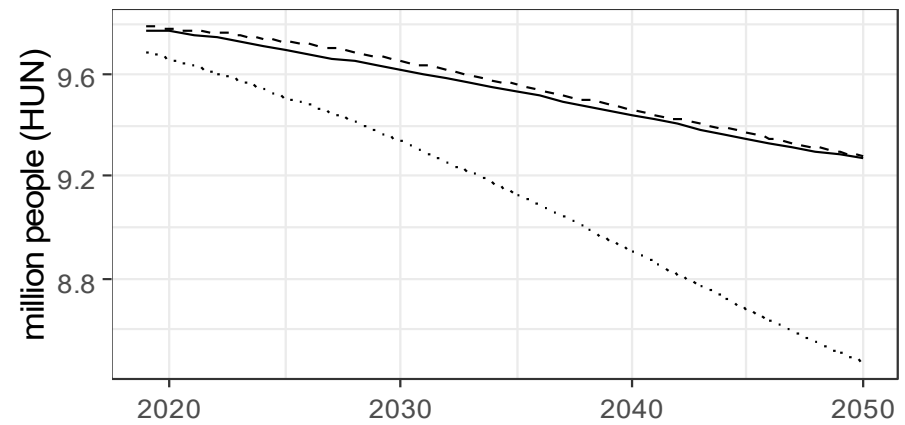
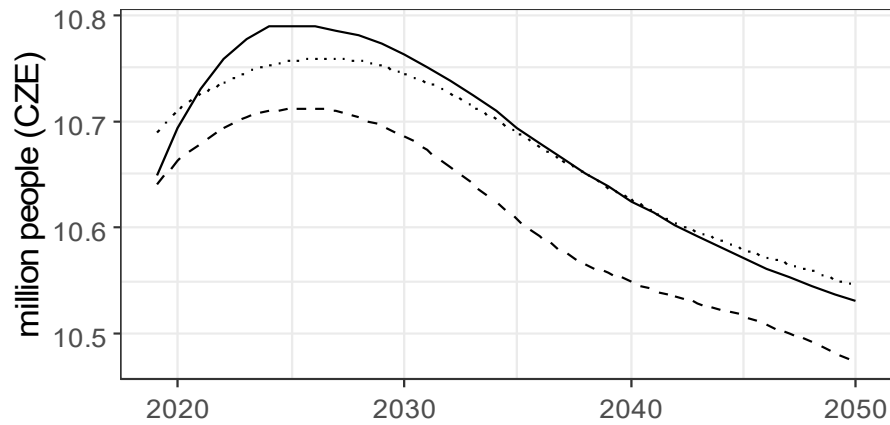
Közép-Magyarország (HUN), Praha (CZE)

Projected old age dependency ratio (%) in V4 regions, 2015-2050



Source: Authors' own composition based on Eurostat (2016)

Comparison of population projections of V4 by EU, UN, and OECD




— EU - - - OECD ····· UN

Source: Authors' own composition based on Eurostat (2016, 2020a), OECD (2020)



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Thank you for your
attention!



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