

· Change in average:

Year 2012, average: 8.7351661
Year 2022, average: 8.0222057

Year 2022, average: 8.0222057Difference \(\Delta\) between years: -0.7129604

- Overall result (interpretation): upward change
- Member states with increment of mean in year 2022 with respect to year 2012:
 - AL; ES; GO; MS; MT; PE; PR; RJ; RR; RS; SC; SP
- Member states with decrement of means in year 2022 with respect to year 2012:
 - AC; AM; AP; BA; CE; DF; MA; MG; PA; PB; PI; RN; RO; SE; TO

Beta convergence

Beta convergence is a catching-up process in which poorer performing countries grow faster than the best perfoming ones. The red line shows the relationship between the growth of an indicator over a certain period of time and its initial value. Beta convergence exists if that relation is statistically significant and negative. Its coefficient gives an indication of the speed of the process.

Beta summary list:

- · Indicator type: lowBest
- Beta Coefficient: -0.0182802
- · Change in average:
 - Year 2012, average: 8.7351661
 - · Year 2022, average: 8.0222057
 - Difference \(\Delta\) between years: -0.7129604
 - Results for year 2022 with reference year 2012:
 - For beta convergence: convergence

Sigma convergence

Sigma convergence is a reduction in disparities between Member States over time. It can be investigated with the standard deviation or with the coefficient of variation.

Standard Deviation

Standard deviation allows for the comparison across time periods and is preferable if no comparison across indicators is needed because the measure of dispersion will not be affected by changes in its average. Sigma convergence exists if the overall change is negative.

For each year, the above summaries are calculated to assess if a reduction in heterogeneity took place.

Coefficient of variation

The coefficient of variation allows for the comparison across time periods and since it is a scale invariant measure it allows the comparison among different indicators. Sigma convergence exists if the overall change is negative.

For each year, the above summaries are calculated to assess if a reduction in heterogeneity took place.

Sigma summary list: · Indicator type: lowBest · Change in average: Year 2012, average: 8.7351661 Year 2022, average: 8.0222057 Difference \(\Delta\) between years: -0.7129604 • Change in Standard Deviation: Year 2012, standard deviation: 5.6627002 Year 2022, standard deviation: 4.5318348 Difference between years: -1.1308655 Result: convergence • Change in Coefficient of Variation (CV): Year 2012, CV: 64.8264751 Year 2022, CV: 56.4911316 Difference between years: -8.3353435 Result: convergence • Results for year 2022 with reference year 2012: Standard Deviation: Weak upward Convergence Coefficient of Variation: Weak upward Convergence Delta convergence Delta convergence is a reduction of a country distance from the best performing Member State. There is convergence if there is a decrease in the period considered. For each year, the above summaries are calculated to assess if a reduction in the amplitude on the took place.

Delta summary list:

- · Indicator type: lowBest
- Change in average:

 - Year 2012, average: 8.7351661
 Year 2022, average: 8.0222057
 Difference \(\Delta\\) between years: -0.7129604
- · Change in delta values:
 - Year 2012, delta: 188.1176998 Year 2022, delta: 166.538429 Difference between years: -21.5792708 Overall: convergence

Gamma convergence

Gamma convergence captures the movements of the Member States in the country ranking in different points in time. If countries in the first rank fall behind or catch up over time, convergence occurs. Changes in outcomes have been calculated with the Kendall Index (KI). The index can assume values between 0 and 1, where a low value implies that a high number of changes have occurred over time.

Gamma summary list:

- Indicator type: lowBest
- · Change in average:

 - Year 2012, average: 8.7351661 Year 2022, average: 8.0222057 Difference \(\Delta\) between years: -0.7129604
- Gamma value:
 - Year 2012: reference timeYear 2022: last timeKI value: 0.7945326

Member States dynamics
The dynamics of Member States show the differences in the situation of single Member States which can be hidden under the use of a single indicator. Understanding the dynamics is also necessary to better identify possible drivers of convergence and divergence as well as structural deficiencies or sustainable recoveries.
Convergence and divergence patterns
The table represents convergence patterns of the 'aggregation' countries in the chosen time frame. The values in the table refer to the patterns shown in the graphical legend below.
Legend: • Indicator type: lowBest • solid black lines: Member States • solid blue lines: EU average
Legend:
 Indicator type: lowBest solid black lines: Member States solid blue lines: EU average
Total decrease and increase in the gap with the mean
The graph shows the sum of the yearly deviations from European average in each country.

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