

## Population mobility indicators at regional level: an analysis based on information from Facebook's "Data for Good" Initiative

Taking advantage of Facebook's "Data for Good" initiative, the figure below shows the proportion of the population "staying put" between 1 March 2020 and 9 May 2021, namely the minimum, average and maximum values calculated based on the NUTS 3 sub-regions. The proportion of population that "stayed put" is based on the number of Facebook users associated with a single reference grid of 600mx600m during 8 am and 8 pm on day x, requiring at least three occurrences during that time period.

It is possible to observe that on Sundays there is generally less mobility of the population than on other days of the week. It is also noteworthy that after the first confirmed cases of COVID-19 and following the declaration of the first State of Emergency, there is a decrease in the mobility of the population, followed by an increase in the levels of mobility after the implementation of the de-confinement measures.

Considering the moving average of the last 7 days there has been an overall reduction in the average levels of mobility following the declaration of the State of Emergency on November 9 and subsequent renewals. In this context, the days before Christmas and after New Year are the exception, where there is an increase in mobility due to the general cancelling of measures restricting circulation. This tendency to reduce mobility is accentuated after the entry into force, on January 15, 2021, of extraordinary measures to limit the spread of the pandemic, including a new confinement period, followed by the closing of schools on January 22.

From the second week of February there is an overall upward trend in mobility levels, which is accentuated following the gradual lifting of restrictive measures and the reopening of schools for the different levels of education according to the different phases of the de-confinement process (reopening of crèches, pre-school and 1<sup>st</sup> cycle on 15 March, 2<sup>nd</sup> and 3<sup>rd</sup> cycle on 5 April and secondary and higher education on 19 April). There was, however, a slight increase in the proportion of the population that "stayed at home" during the days associated with school holidays and the Easter period.

Proportion of the population "staying put" between 1 March 2020 and 9 May 2021 – minimum, average and maximum values of NUTS 3 sub-regions

