



EUROPEAN COMMISSION
EUROSTAT

Directorate C: Macro-economic statistics
Unit C2: National accounts production

Country specific metadata associated with national estimates for 2022Q3

The information below summarises metadata collected from countries in relation to the compilation and publication of European estimates of national accounts main aggregates for the 2022Q3.

The most recent metadata refer to data published in time for Eurostat's [7 December 2022 news release on GDP, employment and main aggregates](#). Estimates from countries were provided in the end November and were accompanied with the metadata explanations. Updated estimates are going to be provided in mid of January for T+110 database update. For further details see: QNA [PDF release calendar](#)

Previously published: [2022Q3 metadata](#), [2022Q2 metadata](#), [2022Q1 metadata](#), [2021Q4 metadata](#), [2021Q3 metadata](#), [2021Q2 metadata](#), [2021Q1 metadata](#), [2020Q4 metadata](#), [2020Q3 metadata](#), [2020Q2 metadata](#), [2020Q1 metadata](#).

CONTENTS

METADATA FOR PUBLISHED T+30 PRELIMINARY GDP ESTIMATES	2
METADATA FOR PUBLISHED T+45 FLASH ESTIMATES	5
METADATA FOR PUBLISHED T+2 MONTHS GDP AND EMP ESTIMATES	7

	METADATA FOR PUBLISHED T+30 PRELIMINARY GDP ESTIMATES
Belgium	<p>COVID-19 impact: Some for the whole 2022Q3. Moderate for specific sectors. Other sectors are less impacted.</p> <p>Estimation techniques: Use of usual regression technique (Chow-Lin / Fernández). Then, extra adjustments were eventually made to correct smoothed residuals based on the indicators and other secondary information sources. For the estimation of non-market output, estimation methods were adapted to incorporate the impact of COVID-19 as good as possible. Imputations were made for missing source data based on ARIMA modelling and other relevant information sources.</p> <p>National information: News release : https://www.nbb.be/doc/dq/e/dq3/histo/nefe22iii.pdf COVID-19 related explanations or metadata: General nbb.be</p>
Czechia	<p>COVID-19 impact: No impact during 2022Q3, no kind of significant restrictions.</p> <p>Estimation techniques: No special adaptation to estimation techniques in terms of estimating the effect of reintroduction of measures.</p> <p>National information: News release: https://www.czso.cz/csu/czso/quarterly-national-accounts-gdp-resources-and-uses-and-gdp-preliminary-estimate</p>
Germany	<p>COVID-19 impact: No impact during 2022Q3. Mandatory mask-wearing in public transport, in hospitals, care homes and medical practices.</p> <p>Estimation techniques: The estimation methods in 2022Q3 remained mostly unchanged.</p> <p>National information: News release: https://www.destatis.de/EN/Press/2022/10/PE22_457_811.html Dedicated section on COVID-19 statistics: link</p>
Spain	<p>COVID-19 impact: Some impact during 2022Q3. Almost no COVID-19 related restrictions.</p> <p>Estimation techniques: Estimates were adjusted, by usage of ARIMA techniques with intervention analysis together with a plausibility check of the results against the various new sources that have complemented those normally used (e.g. information on daily transactions with bank cards, as well as advanced STS (industry) data and trade of goods data, and advanced information on spending by general government).</p> <p>National information: News release : News release COVID-19 related explanations or metadata : https://www.ine.es/en/covid/covid_inicio_en.htm https://www.ine.es/daco/daco42/daco4214/nota_tecnica_avance_cntr022021.pdf</p>
France	<p>COVID-19 impact: No impact. No specific COVID-19 related restrictions were put in place for 2022Q3.</p> <p>Estimation techniques: Benchmarking estimates were adjusted to better reflect indicators, series estimated by smoothing annual data were replaced with ad-hoc estimates when relevant.</p> <p>National information: News release: https://www.insee.fr/en/statistiques/6654735 COVID-19 related explanations or metadata(FR): link</p>

Italy	<p>COVID-19 impact: Some impact. Pretty complete unlockdown of all the economic activities, but still voluntary measures to contain the evolution of the pandemic (mandatory in some cases) especially in public transports, public offices (smart working up to 50%) and in food service activities, entertainment and recreation.</p> <p>Estimation techniques: No relevant changes have been operated after that fine-tuning on seasonal adjustment models (augmenting the specification by dummy variables) was stopped from the release of end September.</p> <p>National information: News release: https://www.istat.it/en/archivio/276779 National website: Istat.it english</p>
Latvia	<p>COVID-19 impact: No impact during 2022Q3, as there were no restrictions due to COVID-19.</p> <p>Estimation techniques: The estimation methods were not changed. Some imputations were made for the short-term indicators. The imputations for non-responding units were based on the information and development trends of the responding units.</p> <p>National information: News release: News Release COVID-19 related explanations or metadata: Covid-19 thematic section Oficiālās statistikas portāls Seasonal Adjustment of Time Series During COVID-19 Crisis Other useful information: link</p>
Lithuania	<p>COVID-19 impact: No impact during 2022Q3. There were no restrictions that could negatively affect the economy. Nevertheless, the results of the last two quarters show an increase in bankruptcies linked to the suspension of the government's COVID-19 support measures. The effect is likely to persist over the reference period as rising inflation contributes to deteriorating business conditions.</p> <p>Estimation techniques: GDP and EMP calculations did not differ.</p> <p>National information: News release: News Release COVID-19 related explanations or metadata: Corona STOP (lrv.lt)</p>
Austria	<p>COVID-19 impact: No impact, there were no significant government restrictions during the reference period.</p> <p>Estimation techniques: Some adjustments in techniques and sources (e.g. weekly adjustment in the profile of turnovers of affected industries).</p> <p>National information: News release: News release</p>
Portugal	<p>COVID-19 impact: No impact. No specific COVID-19 restrictions measures with significant impact on economic activity, only some preventive measures. The year-on-year evolution of 2022Q3 compares with reference period 2021Q3, in which there was a gradual decrease of the restrictions to mobility imposed by the pandemic.</p> <p>Estimation techniques: In September 2022, external trade of goods and the short-term indicators were based on advanced preliminary data but complemented with administrative data.</p> <p>National information: News release: News release Statistics Portugal - Web Portal (ine.pt)</p>

Sweden	COVID-19 impact: No impact during 2022Q3 as there were no restrictions. National information: News release: News Release COVID-19 related explanations or metadata: https://www.scb.se/en/finding-statistics/coronavirus/press-releases-relating-to-coronavirus-covid-19/
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	METADATA FOR PUBLISHED T+45 FLASH ESTIMATES
Bulgaria	<p>COVID-19 impact: No impact during 2022Q3, no significant COVID-19 restrictions.</p> <p>Estimation techniques and quality: There were no particularities related to COVID-19 that have led to a change in data sources and methods, nor to a change in the quality and reliability of our estimates for 2022Q3.</p> <p>LFS: There are no changes regarding the labor force survey.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: COVID-19 National statistical institute (nsi.bg)</p>
Denmark	<p>COVID-19 impact: No impact in 2022Q3, all restrictions were raised from 1st February 2022.</p> <p>Estimation techniques: No particularities in relation to methods or sources affecting estimates.</p> <p>National information: News release (GDP) (DK): News Release COVID-19 related explanations or metadata: Nationalregnskab - Danmarks Statistik (dst.dk), see under "COVID-19 og Nationalregnskab"</p>
Cyprus	<p>COVID-19 impact: No impact, as no government restrictions for COVID-19 were imposed for the 2022Q3. All activities operated normally.</p> <p>Estimation techniques: Standard sources of data were used in order to produce the estimates for GDP and employment.</p> <p>National information: News release: News release Other useful information: Release Calendar (cystat.gov.cy)</p>
Hungary	<p>COVID-19 impact: No impact during 2022Q3. There were no significant government restriction during the period.</p> <p>Estimation techniques: The estimation methods in 2022Q3 remained unchanged.</p> <p>National information: News release: News release Other useful information: A KSH kiadványkatalógusa</p>
Netherlands	<p>COVID-19 impact: No impact during 2022Q3, as there were no restrictions.</p> <p>Estimation techniques: There were no COVID-19 related particularities regarding data sources and methods in the reference period.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: Economic impact of COVID-19 (cbs.nl) Other useful information: Well-being in times of coronavirus</p>

Poland	<p>COVID-19 impact: No impact during 2022Q3. From 28th March 2022 onwards all COVID-19 restrictions were lifted with the exception of the obligation to wear face coverings in medical entities and pharmacies.</p> <p>Estimation techniques: No COVID-19 impact on estimation techniques.</p> <p>National information: News release : News Release Other useful information: Statistics Poland / Yearly calendar</p>
Romania	<p>COVID-19 impact: No impact during 2022Q3. There were no COVID-19 restrictions during this period.</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release Other useful information (RO): COVID-19. Economic impact National Institute of Statistics (insse.ro)</p>
Slovenia	<p>COVID-19 impact: No impact during 2022Q3. There were no restrictions and all activities were open. There was also no requirement for COVID-19 certificate. Government measures to support the economy ended 31st March 2022.</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release</p>
Slovakia	<p>COVID-19 impact: No impact during 2022Q3. There were no special government restrictions during this period. Some health measures still apply indoors.</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release Other useful information: Coronavirus (COVID-19) in the Slovak Republic - Koronavírus a Slovensko (gov.sk)</p>
Finland	<p>COVID-19 impact: No impact during 2022Q3, regarding COVID-19 related restrictions.</p> <p>Estimation techniques: No particular technique or adjustment on estimates due to COVID-19.</p> <p>National information: News release: News Release</p>

	METADATA FOR PUBLISHED T+2 MONTHS GDP AND EMP ESTIMATES
Belgium	<p>COVID-19 impact: Some for the whole 2022Q3. Moderate for specific sectors. Other sectors are less impacted.</p> <p>Estimation techniques: Use of usual regression technique (Chow-Lin / Fernández). Then, extra adjustments were eventually made to correct smoothed residuals based on the indicators and other secondary information sources. For the estimation of non-market output, estimation methods were adapted to incorporate the impact of COVID-19 as good as possible. Imputations were made for missing source data based on ARIMA modelling and other relevant information sources.</p> <p>National information: News release: https://www.nbb.be/doc/dq/e/dq3/histo/neat22iii.pdf COVID-19 related explanations or metadata: General nbb.be</p>
Bulgaria	<p>COVID-19 impact: No impact during 2022Q3, no significant COVID-19 restrictions.</p> <p>Estimation techniques: There were no particularities related to COVID-19 that have led to a change in data sources and methods, nor to a change in the quality and reliability of our estimates for 2022Q3.</p> <p>LFS: There are no changes regarding the labor force survey.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: COVID-19 National statistical institute (nsi.bg)</p>
Czechia	<p>COVID-19 impact: No impact during 2022Q3, no kind of significant restrictions.</p> <p>Estimation techniques: No special adaptation to estimation techniques in terms of estimating the effect of reintroduction of measures.</p> <p>National information: News release: GDP Resources and Uses - 3. quarter of 2022 CZSO</p>
Denmark	<p>COVID-19 impact: No impact in 2022Q3, all restrictions were raised from 1st February 2022.</p> <p>Estimation techniques: No particularities in relation to methods or sources affecting estimates.</p> <p>National information: News release (GDP) (DK): News Release COVID-19 related explanations or metadata: Nationalregnskab - Danmarks Statistik (dst.dk), see under "COVID-19 og Nationalregnskab"</p>
Germany	<p>COVID-19 impact: No impact during 2022Q3. Mandatory mask-wearing in public transport, in hospitals, care homes and medical practices.</p> <p>Estimation techniques: The estimation methods in 2022Q3 remained mostly unchanged.</p> <p>National information: News release: https://www.destatis.de/EN/Press/2022/11/PE22_493_811.html Dedicated section on COVID-19 statistics: link</p>

Estonia	<p>COVID-19 impact: No impact during 2022Q3, not many restrictions. Mostly mandatory masks in indoor public spaces and limits on the number of people allowed to events.</p> <p>Estimation techniques: No adjustment to the methodology was required. Source data had no accessibility issues. Quality of the estimates can vary if the COVID-19 has affected the reporting of data by providers.</p> <p>National information: News release: News Release</p>
Ireland	<p>COVID-19 impact: No impact during 2022Q3. No restrictions since February 2022. The removal of remaining government restrictions permitted a significantly greater degree of economic & social activity in 2022Q1 and 2022Q2 than had been feasible in 2021 and this continued in 2022Q3.</p> <p>Estimation techniques: <u>GDP:</u> No changes of estimation methods, but some data sources were impacted which have made the provision of sub-aggregate of Personal Consumption Expenditure (PCE) more difficult. The unavailability of certain normally available data source breakdowns between goods and services, with the consequent need to examine and utilise supplementary alternative data sources such as Central Bank Credit and Debit Card data, has led to the goods and services sub-breakdown estimates being of somewhat lower reliability than usual.</p> <p>National information: News release: News Release Dedicated section on COVID-19 statistics: Economic Life and COVID-19 in Ireland, 2020-2021 - CSO - Central Statistics Office</p>
Greece	<p>COVID-19 impact: Some impact during 2022Q3. One sub-period can be distinguished (the whole quarter 2022Q3) with no government restrictions in the market.</p> <p>Estimation techniques: Standard methods of data were used in order to produce estimates for QNA. Some alternative data sources such as administrative data have been exploited for some industries.</p> <p>National information: News release: News Release</p>
Spain (same as published at T+30)	<p>COVID-19 impact: Some minor impact. Almost no COVID-19 related restrictions. The educational activity continues normally.</p> <p>Estimation techniques: Estimates were adjusted, by usage of ARIMA techniques with intervention analysis together with a plausibility check of the results against the various new sources, which have complemented those normally used e.g. information on daily transactions with bankcards, as well as advanced STS (industry) data and trade of goods data, and advanced information on spending by general government.</p> <p>National information: News release (ES): News Release COVID-19 related explanations or metadata(ES): Microsoft Word - Nota técnica sobre avance de la CNTR T3-2021 (1).docx (ine.es)</p>

<p>France (same as published at T+30)</p>	<p>COVID-19 impact: No impact during 2022Q3. No specific COVID-19 related restrictions were put in place.</p> <p>Estimation techniques: Benchmarking estimates were adjusted to better reflect indicators, series estimated by smoothing annual data were replaced with ad-hoc estimates when relevant.</p> <p>National information: News release: https://www.insee.fr/en/statistiques/6671017 COVID-19 related explanations or metadata(FR): link</p>
<p>Croatia</p>	<p>COVID-19 impact: No impact during 2022Q3.</p> <p>Estimation techniques: No changes to the methodology of the estimates neither imputations were done.</p> <p>National information: News release: News Release COVID-19 related explanations or metadata: Effects of the COVID-19 pandemic</p>
<p>Italy</p>	<p>COVID-19 impact: Some impact during 2022Q3. Pretty complete unlockdown of all the economic activities, but still voluntary measures to contain the evolution of the pandemic (mandatory in some cases) especially in public transports, public offices (smart working up to 50%) and in food service activities, entertainment and recreation.</p> <p>Estimation techniques: No relevant changes have been operated after the fine-tuning on seasonal adjustment models (augmenting the specification by dummy variables) was stopped from the release of end September 2022.</p> <p>National information: News release: https://www.istat.it/en/archivio/278327 COVID-19 related explanations or metadata: Istat.it Covid 19</p>
<p>Cyprus</p>	<p>COVID-19 impact: No impact, as no government restrictions for COVID-19 were imposed for the 2022Q3. All activities operated normally.</p> <p>Estimation techniques: Standard sources of data were used in order to produce the estimates for GDP and employment.</p> <p>National information: News release: News Release Other useful information: Release Calendar (cystat.gov.cy)</p>
<p>Latvia</p>	<p>COVID-19 impact: No impact during 2022Q3, as there were no restrictions due to COVID-19.</p> <p>Estimation techniques: The estimation methods were not changed. Some imputations were made for the short-term indicators. The imputations for non-responding units were based on the information and development trends of the responding units.</p> <p>National information: News release: News Release COVID-19 related explanations or metadata: Covid-19 thematic section Oficiālās statistikas portāls Seasonal Adjustment of Time Series During COVID-19 Crisis Other useful information: Press release calendar</p>

Lithuania	<p>COVID-19 impact: No impact during 2022Q3. There were no restrictions that could negatively affect the economy. Nevertheless, the results of the last two quarters show an increase in bankruptcies linked to the suspension of the government's COVID-19 support measures. The effect is likely to persist over the reference period as rising inflation contributes to deteriorating business conditions.</p> <p>Estimation techniques: GDP and EMP calculations did not differ.</p> <p>National information: News release: News Release COVID-19 related explanations or metadata: https://koronastop.lrv.lt/en</p>
Luxembourg	<p>COVID-19 impact: No impact during 2022Q3, no kind of significant restrictions.</p> <p>Estimation techniques: <u>GDP</u>: Some adaptations to the methods used, e.g. in case of low coverage of turnover; model using actual employment activity rate and production data; Actual activity rate estimated on the basis of "partial unemployment" information from Administrative data.</p> <p><u>EMP</u>: Estimates did not change.</p> <p>National information: News release: News Release Other useful information : Covid Pandemic</p>
Hungary	<p>COVID-19 impact: No impact during 2022Q3. There were no significant government restriction during the period.</p> <p>Estimation techniques: The estimation methods in 2022Q3 remained unchanged.</p> <p>National information: News release: News Release Other useful information: A KSH kiadványkatalógusa</p>
Malta	<p>COVID-19 impact: No impact during 2022Q3. No restrictions during the period.</p> <p>Estimation techniques: The estimation methods remained unchanged.</p> <p>National information: News release: News Release</p>
Netherlands (same as published at T+45)	<p>COVID-19 impact: No impact during 2022Q3, as there were no restrictions.</p> <p>Estimation techniques: There were no COVID-19 related particularities regarding data sources and methods in the reference period.</p> <p>National information: News release: News Release COVID-19 related explanations or metadata: Economic impact of COVID-19 (cbs.nl) Other useful information: Well-being in times of coronavirus</p>
Austria	<p>COVID-19 impact: No impact, there were no significant government restrictions during the reference period.</p> <p>Estimation techniques: Some adjustments in techniques and sources (e.g. weekly adjustment in the profile of turnovers of affected industries).</p> <p>National information: News release: News Release</p>
Poland	<p>COVID-19 impact: No impact during 2022Q3. From 28th March 2022 onwards all COVID-19 restrictions were lifted with the exception of the obligation to wear face coverings in medical entities and pharmacies.</p> <p>Estimation techniques: No COVID-19 impact on estimation techniques.</p> <p>National information: News release: News Release Other useful information: Statistics Poland / Yearly calendar</p>

<p>Portugal</p>	<p>COVID-19 impact: No impact. No specific COVID-19 restrictions measures with significant impact on economic activity, only some preventive measures. The year-on-year evolution of 2022Q3 compares with reference period 2021Q3, in which there was a gradual decrease of the restrictions to mobility imposed by the pandemic.</p> <p>Estimation techniques: In September 2022, external trade of goods and the short-term indicators were based on advanced preliminary data but complemented with administrative data.</p> <p>National information: News release: News release Other information: News Release Calendar</p>
<p>Romania</p>	<p>COVID-19 impact: No impact during 2022Q3. There were no COVID-19 restrictions during this period.</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release Other useful information (RO): COVID-19. Economic impact National Institute of Statistics (insse.ro)</p>
<p>Slovenia</p>	<p>COVID-19 impact: No impact during 2022Q3. There were no restrictions and all activities were open. There was also no requirement for COVID-19 certificate. Government measures to support the economy ended 31st March 2022.</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release</p>
<p>Slovakia</p>	<p>COVID-19 impact: No impact during 2022Q3. There were no special government restrictions during this period. Some health measures still apply indoors.</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release Other useful information: Coronavirus (COVID-19) in the Slovak Republic - Koronavírus a Slovensko (gov.sk)</p>
<p>Finland</p>	<p>COVID-19 impact: No impact during 2022Q3, regarding COVID-19 related restrictions.</p> <p>Estimation techniques: No particular technique or adjustment on estimates due to COVID-19.</p> <p>National information: News release: News Release</p>
<p>Sweden</p>	<p>COVID-19 impact: No impact during 2022Q3 as there were no restrictions.</p> <p>National information: News release: GDP increased in the third quarter 2022 (scb.se) COVID-19 related explanations or metadata: Coronavirus (COVID-19) (scb.se)</p>

Iceland	<p>COVID-19 impact: No impact. No specific COVID-19-related restrictions were put in place for 2022Q3.</p> <p>Estimation techniques: The estimation methods were not changed.</p> <p>National information:</p> <p>News release: National accounts, 3rd quarter 2022 - Statistics Iceland (statice.is)</p> <p>COVID-19 related explanations or metadata: https://www.government.is/government/covid-19/</p> <p>Other useful information: https://www.covid.is/english</p>
Norway (published T+48 days)	<p>COVID-19 impact: No impact of COVID-19 during 2022Q3.</p> <p>Estimation techniques: No estimation techniques related to COVID-19 has been applied.</p> <p>National information:</p> <p>News release: News release</p>
Switzerland	<p>COVID-19 impact: Some impact. Positive impact on growth during entire 2022Q3.</p> <p>Estimation techniques: Some changes to estimates were made. Imputations: ARIMA(X) models, growth rates of alternative indicators. Alternative source data were used: e.g. short-time work figures, figures on medical treatments. Adjustment of seasonal adjustment methods where indicated.</p> <p>National information:</p> <p>News release: News release</p>
Serbia	<p>COVID-19 impact: No impact during 2022Q3.</p> <p>Estimation techniques: No changes to the methodology of the estimates or imputations were done</p> <p>National information:</p> <p>News release: News release</p>