



EUROPEAN COMMISSION
EUROSTAT

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

Country specific metadata associated with national estimates for 2022Q2

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 2022Q2.

Due to differences in the national transmission and publication patterns, the information is presented in chronological order, starting with T+30 and T+45 flash estimates published end July and mid-August and T+2 months estimates published in September.

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

Previously published: [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 EMPLOYMENT ESTIMATES	7

	METADATA FOR PUBLISHED T+30 PRELIMINARY GDP ESTIMATES
Belgium	<p>COVID-19 impact: Some for the whole 2022Q2. Moderate for specific sectors. Other sectors are less impacted. Altogether, growth is positive compared to the previous quarter.</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/nefe22ii.pdf COVID-19 related explanations or metadata: General nbb.be</p>
Czechia	<p>COVID-19 impact: No impact during 2022Q2, 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/ari/gdp-preliminary-estimate-2-quarter-of-2022</p>
Germany	<p>COVID-19 impact: Some impact, economic activity is still 0.2% below the level of 2019Q4, the quarter before the outbreak of the COVID-19 pandemic.</p> <p>Estimation techniques: The estimation methods in 2022Q2 remained mostly unchanged. In some cases, deductions were made at the most detailed level possible based on additional data sources and information (e.g. volume measurement in non-market output calculations).</p> <p>National information: News release: https://www.destatis.de/EN/Press/2022/07/PE22_322_811.html Dedicated section on COVID-19 statistics: link</p>
Spain	<p>COVID-19 impact: Some impact during 2022Q2. Almost no COVID-19 related restrictions. The educational activity continued normally until the end of classes at the end of June 2022.</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 2022Q2 that could have significant impact on activity.</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/6480956 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: Apart fine-tuning on seasonal adjustment models (augmenting the specification by dummy variables), no relevant change has been operated.</p> <p>National information: News release: https://www.istat.it/en/archivio/273459 National website: Istat.it english</p>
Latvia	<p>COVID-19 impact: No impact during 2022Q2, as there were no restrictions.</p> <p>Estimation techniques: The estimation methods were not changed.</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 2022Q2. The easing of pandemic restrictions has contributed to a reduced impact of COVID-19 on the economy. The impact of the pandemic on economic development was not felt.</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, as most restrictions were lifted during 2022Q2.</p> <p>National information: News release: https://www.wifo.ac.at/en/news/news_detail?j-cc-id=1658862341586&j-cc-node=news</p>
Portugal	<p>COVID-19 impact: Some impact. Some restrictions measures that still exist were lifted. In year-on-year terms, the evolution partially reflects a base effect, since the 2021Q2 was a period of relief from the measures restrictions, preceded by a quarter in which several measures to mitigate the pandemic were in place, partially restricting economic activity.</p> <p>Estimation techniques: In June 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 2022Q2 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: Some impact during entire 2022Q2. The emergency epidemic situation has been lifted. Measures become advisory.</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 the estimates for 2022Q2.</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 2022Q2, 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 2022Q2. 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 2022Q2. In Hungary, there were no significant government restriction during the period.</p> <p>Estimation techniques: The estimation methods in 2022Q2 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 2022Q2, as there were basically no restrictions</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: Economic impact of COVID-19 (cbs.nl) Other useful information: https://www.cbs.nl/en-gb/visualisations/well-being-in-times-of-corona</p>

<p>Poland</p>	<p>COVID-19 impact: No impact during 2022Q2. From 28 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: Seasonal adjustment performed with an ARIMA model.</p> <p>National information: News release : News Release Other useful information: Statistics Poland / Yearly calendar</p>
<p>Romania</p>	<p>COVID-19 impact: No impact during 2022Q2. 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 2022Q2. There were no restrictions and all activities were open. There was also no requirements for COVID-19 certificate. Government measures to support the economy ended 31 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 2022Q2. 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 2022Q2 of 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 EMPLOYMENT ESTIMATES
Belgium	<p>COVID-19 impact: Some impact during 2022Q2 for specific sectors. Other sectors are less impacted. Altogether, growth is positive compared to the previous quarter.</p> <p>Estimation techniques: <u>GDP:</u> Use of usual regression technique initially (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. <u>EMP:</u> Estimates are based on an earlier version of the administrative data from the social security schemes. Adjustments are foreseen to take into account the possible impact of COVID-19 based on other secondary information sources such as the number of unemployed persons. For self-employed, we use an earlier version of the administrative data from the social security scheme for self-employed.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: General nbb.be Other useful information: link</p>
Bulgaria	<p>COVID-19 impact: Some impact during entire 2022Q2.</p> <p>Estimation techniques: <u>GDP:</u> 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 2022Q2. <u>EMP:</u> There are no changes regarding the Labour Force Survey.</p> <p>National information: COVID-19 related explanations or metadata: COVID-19 National statistical institute (nsi.bg)</p>
Czechia	<p>COVID-19 impact: No impact during 2022Q2.</p> <p>Estimation techniques: No special adaptations to estimation techniques in terms of estimating the effect of reintroduction of measures.</p> <p>National information: News release: News release</p>
Denmark	<p>COVID-19 impact: No impact in 2022Q2, due to the phased out of restrictions, which were raised by 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: www.dst.dk/knr , see under "COVID-19 og Nationalregnskab" Other useful information: https://coronasmitte.dk/en</p>

<p>Germany</p>	<p>COVID-19 impact: Some impact during 2022Q2. The economic activity returned to the level of 2019Q4, the quarter before the outbreak of the COVID-19 pandemic.</p> <p>Estimation techniques: The estimation methods in 2022Q2 remained mostly unchanged.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: Corona in Germany: figures, statistics, facts - German Federal Statistical Office (destatis.de) Other useful information: link</p>
<p>Estonia</p>	<p>COVID-19 impact: No impact. There have been no COVID-19 related restrictions on the economy or impacts on national accounts estimations.</p> <p>Estimation techniques: No changes.</p> <p>National information: News release: News release Other useful information: Calendar Statistikaamet</p>
<p>Ireland</p>	<p>COVID-19 impact: Some impact during 2022Q2. There continued to be a degree of impact in the 2022Q2 reference quarter even after all government restrictions had been lifted on 28th February 2022.</p> <p>Estimation techniques: GDP: 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 COVID-19 related explanations or metadata: Information Note on the Implications of COVID-19 on the Quarterly National Accounts - Quarter 1 2022 Provisional - CSO - Central Statistics Office Other useful information: link</p>
<p>Greece</p>	<p>COVID-19 impact: Some impact during 2022Q2 due to COVID-19. One sub-period can be distinguished (the whole quarter) with no government restrictions in the market.</p> <p>Estimation techniques: Standard method of data were used 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>

<p>Spain (same as published at T+30)</p>	<p>COVID-19 impact: Some impact during 2022Q2. Almost no COVID-19 related restrictions. The educational activity continued normally until the end of classes at the end of June 2022.</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>
<p>France (same as published at T+30)</p>	<p>COVID-19 impact: No impact. No specific COVID-19 related restrictions were put in place for 2022Q2 that could have significant impact on activity.</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: News release COVID-19 related explanations or metadata(FR): link</p>
<p>Croatia</p>	<p>COVID-19 impact: No impact during 2022Q2.</p> <p>Estimation techniques: No changes to the methodology of the estimates neither imputations were done.</p> <p>National information: News release : News release Other useful information: link</p>
<p>Italy</p>	<p>COVID-19 impact: Some impact during 2022Q2. Pretty complete unlock down 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 until 50%) and in food service activities, entertainment and recreation</p> <p>Estimation techniques: Apart fine-tuning on seasonal adjustment models (augmenting the specification by dummy variables), no relevant change have been operated.</p> <p>National information: News release: News release</p>
<p>Cyprus</p>	<p>COVID-19 impact: No impact. No government restrictions during the 2022Q2. All activities operated normally.</p> <p>Estimation techniques: Standard sources of data were used in order to produce the estimates for QNA and employment.</p> <p>National information: News release (GDP): News release</p>
<p>Latvia</p>	<p>COVID-19 impact: No impact. All restrictions due to COVID-19 were lifted.</p> <p>Estimation techniques: No changes</p> <p>National information: News release: News release</p>

<p>Lithuania</p>	<p>COVID-19 impact: Some impact during 2022Q2. The easing of pandemic restrictions has contributed to a reduced impact of COVID-19 on the economy. However, now the indirect side effects of COVID-19 are starting to show - during the pandemic, companies actively used support measures and now, after most of the support measures have ended, soft loans and tax deferrals are no longer provided, for some companies that have not been able to adapt, the only option left is bankruptcy.</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) Other useful information: link</p>
<p>Hungary</p>	<p>COVID-19 impact: No impact during 2022Q2. There were no significant government restrictions during the period.</p> <p>Estimation techniques: The estimation methods in 2022Q2 remained unchanged.</p> <p>National information: News release: News release Other useful information: A KSH kiadványkatalógusa</p>
<p>Malta</p>	<p>COVID-19 impact: No impact during 2022Q2.</p> <p>Estimation techniques: The estimation methods in 2022Q2 remained unchanged and all restrictions were lifted.</p> <p>National information: News release: News release</p>
<p>Netherlands (same as published at T+45)</p>	<p>COVID-19 impact: No impact during 2022Q2, as there were basically no restrictions.</p> <p>Estimation techniques: The estimation methods and sources remained unchanged.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: Economic impact of COVID-19 (cbs.nl) Other useful information: https://www.cbs.nl/en-gb/visualisations/well-being-in-times-of-corona</p>
<p>Austria</p>	<p>COVID-19 impact: No impact during 2022Q2, no restrictions.</p> <p>Estimation techniques: No adaptations due to COVID-19</p> <p>National information: News release: News Release</p>
<p>Poland</p>	<p>COVID-19 impact: No impact during 2022Q2 for GDP, some for EMP. All COVID-19 restrictions are lifted with the exception of the obligation to wear face coverings in medical entities and pharmacies.</p> <p>Estimation techniques: <u>GDP:</u> Seasonal adjustment performed with an ARIMA model. <u>EMP:</u> No changes in the estimation techniques.</p> <p>National information: News release (GDP): News Release News release (EMP): News Release Other useful information: Statistics Poland / Yearly calendar</p>

Portugal	<p>COVID-19 impact: Some impact. State of alert extended until 30th June 2022.</p> <p>Estimation techniques: No changes to estimation techniques.</p> <p>National information: News release: News release COVID-19 related issues: https://www.ine.pt/xportal/xmain?xpgid=ine_covid_dossier&xpid=INE&xlang=en</p>
Romania	<p>COVID-19 impact: No impact during 2022Q2. There were no COVID-19 restrictions during this period.</p> <p>Estimation techniques: The estimation methods 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 in 2022Q2. Government measures to support Slovenian economy ended 31st March 2022.</p> <p>Estimation techniques: There were no different estimation techniques implemented in 2022Q2.</p> <p>National information: News release: News release</p>
Slovakia	<p>COVID-19 impact: No impact during 2022Q1. There were no special government restrictions during this period. Some health measures still apply indoors.</p> <p>Estimation techniques: No particular technique or adjustment on estimates due to COVID-19.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: Coronavirus (COVID-19) in the Slovak Republic - Koronavírus a Slovensko (gov.sk) Other useful information: https://korona.gov.sk/en/</p>
Finland	<p>COVID-19 impact: No impact during 2022Q2. No government 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>
Sweden	<p>COVID-19 impact: No impact during 2022Q2. No government restrictions.</p> <p>Estimation techniques: The estimation methods were not changed.</p> <p>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/</p>
Iceland	<p>COVID-19 impact: No impact during 2022Q2. No government restrictions.</p> <p>Estimation techniques: The estimation methods were not changed.</p> <p>National information: News release: News release COVID-19 related explanations or metadata: https://www.government.is/government/covid-19/ Other useful information: https://www.covid.is/english</p>

Norway	<p>COVID-19 impact: No impact during 2022Q2. No government restrictions.</p> <p>Estimation techniques: No new techniques have been introduced.</p> <p>National information: News release: News Release</p>
Switzerland	<p>COVID-19 impact: Some impact during 2022Q2. Restrictions were lifted on 30th March 2022</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: News release: News release</p>
Serbia	<p>COVID-19 impact: No impact during 2022Q2 and no restrictions.</p> <p>Estimation techniques: No changes to the methodology of the estimates were done.</p> <p>National information: News release: News release</p>