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August 2020

### EMPLOYMENT AND UNEMPLOYMENT

#### Provisional data

- In August 2020, employment continued the growth already began in July and unemployment decreased. while inactivity kept on dropping.
- On a monthly basis, the increase of employment (+0.4%, +83 thousand) concerned both men (+0.5%, +72 thousand) and women (+0.1%, +11 thousand), leading the employment rate to 58.1% (+0.2 p. p.).
- In the last month, the drop of unemployed people (-0.9%, -23 thousand) involved only women (-3.0%, -36 thousand), whereas men grew (+0.9%, +12 thousand). The unemployment rate decreased to 9.7% (-0.1 percentage points) while the youth rate increased to 32.1% (+0.3 p.p.).
- In August the decline of inactive people aged 15-64 (-0.5%, -65 thousand) concerned only men (-1.7%, -85 thousand), while for women a rise was recorded (+0.2%, +20 thousand); the inactivity rate went down to 35.5% (-0.1 percentage points).
- In the period June August 2020, with respect to the previous quarter, employment decreased (-0.2%, -56 thousand) for both genders.
- In the last three months, a considerable growth was registered in the number of unemployed persons (+20.6%, +417 thousand), while inactive people aged 15-64 years dropped (-2.7%, +386 thousand).
- Compared to July 2019, employment showed a decrease in terms of figures (-1.8%, -425 thousand) and rate (-1.0 percentage points).
- On a yearly basis, the decrease of employed people was accompanied by a growth of unemployed persons (+1.2%, +28 thousand) and of inactive people aged 15-64 (+2.3%, +306 thousand).

TABLE 1. EMPLOYMENT, UNEMPLOYMENT AND INACTIVITY RATES BY GENDER

August 2020, seasonally adjusted data

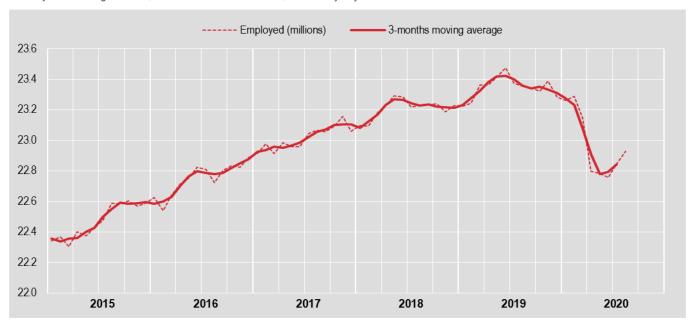
		Months on previous months		Month on same month a year ago	
	Percentage values		Percentage points		
	-	Aug20	Jun-Aug20	Aug20	
		Jul20	Mar-May20	Aug19	
MALES					
Employment rate (aged 15-64)	67.3	+0.4	-0.1	-0.7	
Unemployment rate	9.1	0.0	+1.4	+0.4	
Inactivity rate (aged 15-64)	25.8	-0.4	-1.1	+0.4	
FEMALES					
Employment rate (aged 15-64)	48.9	+0.1	-0.2	-1.3	
Unemployment rate	10.6	-0.3	+1.7	0.0	
Inactivity rate (aged 15-64)	45.2	+0.1	-0.8	+1.4	
TOTAL					
Employment rate (aged 15-64)	58.1	+0.2	-0.1	-1.0	
Unemployment rate	9.7	-0.1	+1.5	+0.3	
Inactivity rate (aged 15-64)	35.5	-0.1	-1.0	+0.9	





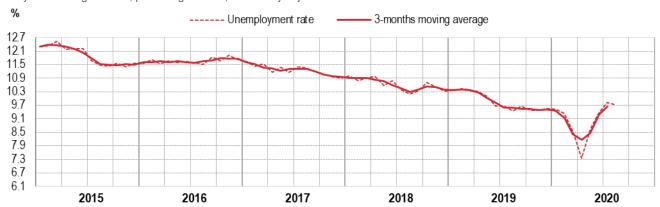
#### **CHART 1. EMPLOYED**

January 2015 - August 2020, absolute values in millions, seasonally adjusted data



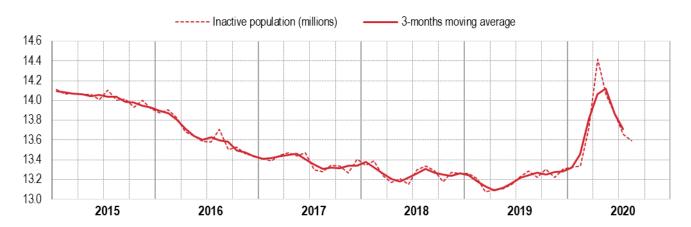
#### **CHART 2. UNEMPLOYMENT RATE**

January 2015 - August 2020, percentage values, seasonally adjusted data



#### **CHART 3. INACTIVE POPULATION AGED 15-64**

January 2015 - August 2020, absolute values in millions, seasonally adjusted data







#### TABLE 2. POPULATION BY GENDER AND EMPLOYMENT STATUS

August 2020, seasonally adjusted data

	Alecchia	Months on previous months				Month on same month a year ago	
	Absolute values (thousands)	<u>Aug20</u>	<u>Aug20</u>	Jun-Aug20	Jun-Aug20	<u>Aug20</u>	<u>Aug20</u>
	(tilousalius)	Jul20	Jul20	Mar-May20	Mar-May20	Aug19	Aug19
		(absolute)	(percentage)	(absolute)	(percentage)	(absolute)	(percentage)
MALES							
Employed	13,323	+72	+0.5	-17	-0.1	-151	-1.1
Unemployed	1,327	+12	+0.9	+226	+21.2	+56	+4.4
Inactive (aged 15-64)	4,925	-85	-1.7	-212	-4.1	+67	+1.4
FEMALES							
Employed	9,607	+11	+0.1	-39	-0.4	-274	-2.8
Unemployed	1,140	-36	-3.0	+191	+20.0	-27	-2.3
Inactive (aged 15-64)	8,667	+20	+0.2	-174	-2.0	+239	+2.8
TOTAL							
Employed	22,929	+83	+0.4	-56	-0.2	-425	-1.8
Unemployed	2,467	-23	-0.9	+417	+20.6	+28	+1.2
Inactive (aged 15-64)	13,591	-65	-0.5	-386	-2.7	+306	+2.3

### TABLE 3. POPULATION BY AGE GROUP AND EMPLOYMENT STATUS

August 2020, seasonally adjusted data

		Months on previous months			Month on same month a year ago		
	Absolute values (thousands)	<u>Aug20</u> Jul20 (absolute)	<u>Aug20</u> Jul20 (percentage)	<u>Jun-Aug20</u> Mar-May20 (absolute)	<u>Jun-Aug20</u> Mar-May20 (percentage)	<u>Aug20</u> Aug19 (absolute)	Aug20 Aug19 (percentage)
AGED 15-24							
Employed	990	+18	+1.8	-17	-1.7	-96	-8.9
Unemployed	469	+15	+3.4	+69	+18.1	+71	+17.7
Inactive	4,415	-35	-0.8	-57	-1.3	+27	+0.6
AGED 25-34							_
Employed	3,866	+32	+0.8	-86	-2.2	-207	-5.1
Unemployed	714	-12	-1.7	+183	+34.9	+32	+4.6
Inactive	1,855	-28	-1.5	-128	-6.3	+91	+5.1
AGED 35-49							
Employed	9,182	+9	+0.1	-12	-0.1	-274	-2.9
Unemployed	789	-25	-3.0	+103	+14.7	-67	-7.9
Inactive	2,559	-13	-0.5	-158	-5.8	+57	+2.3
AGED 50 AND OVER							
Employed	8,891	+24	+0.3	+59	+0.7	+153	+1.7
Unemployed	496	-2	-0.5	+63	+14.9	-7	-1.4
Inactive	17,751	-26	-0.1	-28	-0.2	+234	+1.3
Inactive aged 50-64	4,762	+11	+0.2	-42	-0.9	+131	+2.8





### TABLE 4. EMPLOYMENT, UNEMPLOYMENT AND INACTIVITY RATES BY AGE GROUP

August 2020, seasonally adjusted data

		Months on pre	vious months	Month on same month a year ago
	Percentage values		Percentage points	
		Aug20	Jun-Aug20	Aug20
		Jul20	Mar-May20	Aug19
AGED 15-24				
Employment rate	16.9	+0.3	-0.3	-1.6
Unemployment rate	32.1	+0.3	+3.8	+5.3
Unemployment ratio	8.0	+0.3	+1.2	+1.2
Inactivity rate	75.2	-0.6	-0.9	+0.4
AGED 25-34				
Employment rate	60.1	+0.6	-1.0	-2.4
Unemployment rate	15.6	-0.3	+3.8	+1.2
Unemployment ratio	11.1	-0.2	+2.9	+0.6
Inactivity rate	28.8	-0.4	-1.8	+1.8
AGED 35-49				
Employment rate	73.3	+0.2	+0.3	-0.5
Unemployment rate	7.9	-0.2	+1.0	-0.4
Unemployment ratio	6.3	-0.2	+0.8	-0.4
Inactivity rate	20.4	-0.1	-1.1	+0.9
AGED 50-64				
Employment rate	60.9	0.0	+0.1	-0.3
Unemployment rate	5.5	-0.2	+0.6	-0.2
Unemployment ratio	3.6	-0.1	+0.4	-0.1
Inactivity rate	35.5	+0.1	-0.5	+0.4



### revisions

TABLE 5. EMPLOYED, UNEMPLOYED, INACTIVE POPULATION, EMPLOYMENT, UNEMPLOYMENT AND INACTIVITY RATES July 2019 – July 2020, revisions of month on previous month changes

YEAR	MONTH	Employed	Unemployed	Inactive population aged 15-64	Employment rate aged 15-64	Unemployment rate	Inactivity rate aged 15-64
2019	July	0.0	-0.2	0.0	0.0	0.0	0.0
	August	-0.1	-0.7	+0.3	-0.1	-0.1	+0.1
	September	+0.1	+0.5	-0.1	0.0	0.0	0.0
	October	0.0	-0.1	0.0	0.0	0.0	0.0
	November	0.0	+0.1	0.0	0.0	0.0	0.0
	December	0.0	0.0	0.0	0.0	0.0	0.0
2020	January	0.0	0.0	0.0	0.0	0.0	0.0
	February	0.0	-0.1	0.0	0.0	0.0	0.0
	March	0.0	+0.2	0.0	0.0	0.0	0.0
	April	0.0	+0.8	-0.1	0.0	+0.1	0.0
	May	+0.1	+1.0	-0.4	+0.1	+0.1	-0.2
	June	0.0	-0.3	+0.1	0.0	0.0	0.0
	July	0.0	-0.1	0.0	0.0	0.0	0.0





**Labour force**: comprises employed and unemployed persons.

Employed persons: comprise persons aged 15 and over who, during the reference week:

- worked for at least one hour for pay or profit;
- worked for at least one hour as contributing family workers, even if unpaid;
- were temporarily absent from work (for instance due to holidays or sick leave). Employees are classified as employed if the total duration of the absence period is 3 months or less, or if they receive at least 50% of the wage. Self-employed (excluding contributing unpaid family workers) are classified as employed if they maintain their business. Contributing unpaid family workers are classified as employed if the total duration of the absence period is 3 months or less.

**Unemployed persons**: comprise persons aged 15-74 who:

- were actively seeking work, i.e. had carried out activities in the four week period ending with the reference week to seek paid employment or self-employment and were available to start working before the end of the two weeks following the reference week;
- already found a job starting within three months from the end of the reference week and would be available to start working before the end of the two weeks following the reference week (whenever it was possible).

Inactive persons (persons outside the labour force): comprise persons that are not classified in the labour force, that is persons not classified neither employed nor unemployed.

**Employment rate**: the percentage of employed persons in relation to the corresponding total population.

**Unemployment rate**: the percentage of unemployed persons in relation to the corresponding labour force.

**Inactivity rate**: the percentage of inactive persons in relation to the corresponding total population.

Seasonally adjusted data: data from which, using specific statistical methods, the effects of recurring seasonal influences (due to meteorological factors, customs, legislation, etc.) and calendar effects (if significant) have been removed. This treatment of a time series is needed to analyze the short-term changes of an indicator.

Months on previous months: change compared with the previous month (quarter).

Month on same month a year ago: change compared with the same month a year ago.

Reference week: week to which the collected information are referred.



### Methodological note

#### Introduction and regulatory framework

The Labour force survey is a sample inquiry conducted through interviews on households, and its main goal is to estimate the main aggregates of the labour supply, employed and unemployed.

The main characteristics of the survey, from methodological aspects to the definition of the variables and indicators, are harmonised at the European level, and consistent with the international standards defined by the ILO, and are defined by specific regulations of the Council and of the European Commission. The regulation implementing a harmonised sample survey on the labour force of the European Union countries is Regulation No 577/98 of the European Council; Regulation No 1897/2000 of the European Commission provides the definition of unemployment and the principles for the formulation of the questions needed to identify the employed or unemployed persons; following EU regulations define in detail the survey variables.

The survey is inserted in the National Statistical Program (edition in force: NSP 2017-2019) approved by the Decree of the President of the Republic of 31 January 2018, published in the Official Journal - general series - no. 66 of 20 March 2018 – Ordinary Annex no. 12).

#### Reference population, survey and analysis unit

The reference population is composed by all the individuals aged 15 and older, belonging to de facto households whose head resides in the selected municipality. Therefore, members who permanently live together, including hospices, children's homes, religious institutes, barracks, etc. are excluded from the reference population.

The survey unit is the de facto household, defined as a group of co-habiting people with residence in the same municipality, linked by bonds of marriage, family relation, kinship, adoption, supervision or affective relationships.

The unit of analysis of the monthly Employment and Unemployment press release is each individual of 15 years of age or more (statistics using the family as the unit of analysis are also produced on an annual basis).

#### Sample design

The sample design is a two stages one, respectively of municipalities and households, with a stratification of first stage units. All municipalities with populations above a pre-defined level for each province, known as self-representative, are present in the sample with a probability equal to one. Municipalities whose populations are below the aforementioned thresholds, known as non-self-representative, are grouped into strata. They enter in the sample through a random selection mechanism that provides the extraction of one non-self-representative municipality from each stratum. For each sample municipality, a simple random sample of households is selected from the civil registry list.

From the third quarter of 2012, a new sampling design was introduced, that provided the update of the stratification information, and the introduction of a random rotation of sample municipalities.

Since January 2004, the survey is continuous, that is, the information is collected with reference to all the weeks of each quarter. The quarterly sample is uniformely divided between the three months, taking into account the number of weeks that compose each month (respectively 4 or 5). The reference month is composed of weeks, from Monday to Sunday, that occur for at least four days in the calendar month.

Each household is interviewed for two consecutive quarters, temporarily leaves the sample for the two successive quarters, then is interviewed again for other two quarters. That means that approximately 50% of the households are interviewed again after 3 months, and 50% after 12 months, except for non-response. In total, each household remains in the sample for a period of 15 months. Considering that the transition probabilities from inactivity to labour force of individuals above 74 years of age are negligible, to reduce statistical burden on this target population, from 1 January 2011, households composed by only inactive persons older than 74 years of age are not interviewed again.



#### Data collection

The interview is conducted through a CAPI (Computer assisted personal interview) and CATI (Computer assisted telephone interview) mixed technique. The first interview of each household is conducted with the CAPI technique, while subsequent interviews are conducted with the CATI technique (except for families without telephone or with a foreign family head). In general, the interview is conducted in the week following the reference week or, less frequently, in the three following weeks.

Certain survey questions, due to the difficulty in the response or the sensitivity of the subject, provide the right not to respond.

Further information on the Labour force survey, and the questionnaire used to collect the data are available at the following link: <a href="http://www.istat.it/it/archivio/8263">http://www.istat.it/it/archivio/8263</a>.

#### Data processing: framework, tools and techniques

The month of August 2020 runs from Monday 3 August to Sunday 30 August 2020.

The estimator used for the production of monthly estimates is the *regression composite* estimator<sup>1</sup>. It is an estimator that may be effectively used in case of longitudinal surveys with partially overlapping sample, and that, using the longitudinal component, improves the efficiency of both the level estimates and the estimates of variations between months.

To properly analyse the data in the short-term, all the monthly data reported in the press release are subject to a monthly seasonal adjustment procedure, always including the latest available data, and updating the estimate of the models. With reference to only seasonally-adjusted data, therefore, variations in previously consolidated months could occur (whose non-seasonally-adjusted estimates have become definitive), which arise from the replication of the seasonal adjustment procedure with the addition of the latest available data.

The TRAMO-SEATS algorithm is adopted for the seasonal adjustment procedure, since January 2019 the version implemented in the software JDemetra+ is used.

The level figures of the survey, processed in units, are rounded-off to the thousands in the absolute values and variations. The variations are calculated on unit data, and not on data rounded-off to the thousands. In the percentage variations and rates, as well as in the differences in percentage points, values are rounded-off to the first decimal. The variations in percentage points between the rates are calculated on the rates with all the decimals before being rounded<sup>2</sup>.

#### Output: main measures of analysis

The labour force survey aims to produce estimates on participation in the labour market.

The reference population is divided into three comprehensive and mutually exclusive groups<sup>3</sup>: employed persons, consistently with ILO standards, are composed of people who have performed at least one hour of paid work in the reference week (in addition to people absent from work in that week); unemployed persons (or persons in search of employment), who actively seek employment and would be available to begin working; inactive persons (or non-labour force), who do not work and are not seeking employment (or would not be available to begin work), for example, because they are involved in studying activities, retired or devoted to the care of their home and/or family<sup>4</sup>. Employed and unemployed persons together, constitute the labour force, that is the part of the population active in the labour market.

<sup>&</sup>lt;sup>4</sup> See glossary for the definitions.



<sup>&</sup>lt;sup>1</sup> Singh, Kennedy and Wu (2001) Regression composite estimation for the Canadian labour force survey with a rotating panel design, Survey Methodology 27, 33-44.

<sup>&</sup>lt;sup>2</sup> For example, in the current press release, the employment rate in August 2020 is equal to 58.064 which comes to 58.1 when rounded-off. The same rate in July 2020 was 57.836 and it is reported in the monthly time series attached to the press release as 57.8 (Table 1). The difference between the August 2020 and July 2020 data is therefore +0.228. Given the rounding-off rules, in Table 1, the variation is indicated as equal to +0.2 percentage points, and not +0.3 points, as it would be if considering the difference between the two already rounded rates.

<sup>&</sup>lt;sup>3</sup> Because of the increased age of compulsory schooling (Law 296/2006), from the first quarter of 2007, data on individuals of 15 years of age contains neither employed or unemployed persons. The number of fifteen-year-old employed persons, or of those seeking employment, is traditionally completely negligible. The regulatory change therefore does not lead to any break in the time series of indicators of the 15-64 year-old population.



The definition of unemployment and the principles for the formulation of the questions necessary to identify employed and unemployed persons are reported in the European Commission Regulation.

The monthly press release on Employment and Unemployment disseminates the estimates on the total aggregates, breakdowns by gender and age class, in addition to the analyses of employed persons by professional status and permanent/temporary job.

In addition, the participation rates in the labour market are analysed. The employment rate measures the share of population that has a job: in an economic point of view, it represents the part of the labour supply that has met the demand, in relation to the population. The unemployment rate is given by the ratio between the unemployed persons and the labour force: it therefore represents the share of the labour force that has not met the demand, in relation to the labour force itself. The inactivity rate measures the share of population that does not participate in the labour market.

The same variables, to a greater degree of territorial detail, together with other variables, are analysed on quarterly and annual basis in the "Labour Market" press release.

#### **Accuracy of the estimates**

For the purpose of evaluating the accuracy of the estimates produced by a sample survey, it is necessary to take into account the sampling error that arises from observing the variable of interest only on a part (sample) of the population. This error may be expressed in terms of absolute error (*standard error*) or relative error (the absolute error divided by the estimate, which is called the variation coefficient, VC). In this paragraph, the punctual estimate and its relative error are reported for each of the main variables of interest.

TABLE A. ERRORS OF NON-SEASONALLY ADJUSTED ESTIMATES OF THE MAIN INDICATORS August 2020, non-seasonally-adjusted data

	Punctual estimate	Relative error (VC)
Employed (thousands of units)	23,190	0.003183
Unemployed (thousands of units)	2,336	0.022691
Inactive 15-64 years of age (thousands of units)	13,538	0.005385
Employment rate 15-64 years of age (percentage value)	58.55	0.003127
Unemployment rate (percentage value)	9.15	0.022410
Inactivity rate 15-64 years of age (percentage value)	35.39	0.005385

From these it is possible to build a confidence interval that, with a certain level of confidence, contains the true, but unknown value of the parameter subject to estimation. The confidence interval is calculated by adding and subtracting the absolute sampling error to its punctual estimate, multiplied by a coefficient that depends on the confidence level; considering the traditional confidence level of 95%, the corresponding coefficient is 1.96.

Table A shows the relative errors (VC) of the non-seasonally-adjusted estimates of the main indicators referring to the last month.

The web page of the press release contains an Excel file that shows the table with the relative errors referred to the non-seasonally adjusted monthly estimates of the main indicators, calculated from January 2004.

The main statistical institutes do not publish sampling errors referring to seasonally adjusted estimates. In some cases, the sampling errors of the non-seasonally-adjusted estimates are used, considering that these are quite similar to those related to the corresponding seasonally adjusted estimates. Istat is conducting studies to verify whether this approach is also applicable to the indicators issued in this note.

Through simple calculations, it is possible to derive the confidence intervals with a confidence level of 95% (=0.05). These intervals include, therefore, the unknown population parameters with a probability of 0.95. The following table illustrates the calculations for the construction of the confidence intervals of the estimates of employed persons and the unemployment rate.



#### TABLE B. ILLUSTRATIVE CALCULATION OF THE CONFIDENCE INTERVAL

August 2020, non-seasonally-adjusted data

	Employed (thousands of units)	Unemployment rate (%)
Punctual estimate:	23,190	9.15
Relative error (VC)	0.003183	0.022410
Interval estimate		
Half breadth of the interval:	(23,190 x 0.003183) x 1.96 = <b>145</b>	(9.15 x 0.022410) x 1.96 = <b>0.4</b>
Confidence interval lower bound:	23,190 - 145 = <b>23,045</b>	9.15 - 0.4 = <b>8.75</b>
Confidence interval upper bound:	23,190 + 145 = <b>23,335</b>	9.15 + 0.4 = <b>9.55</b>

#### Data revision policy

The monthly estimates are released at approximately 30 days from the reference month, in provisional form. Later, when the quarterly estimates are produced (at approximately 60 days from the quarter), the non-seasonally-adjusted estimates of the three months are recalculated and become definitive. The non-seasonally adjusted monthly estimates are then revised just once, at the moment of release of the first month following the reference quarter.

The monthly seasonally adjusted series are estimated every month including the latest available data, and updating the estimate of the models parameters (*partial concurrent approach*). With reference to the seasonally adjusted data, therefore, revisions are observed every month. At the moment of release of the data referring to the month of January of each year, new models for seasonal adjustment are identified.

#### Information on data confidentiality

The data collected for the labour force survey is protected by statistical confidentiality, and subject to the regulations on the protection of personal data. It may be used, also for subsequent processing, exclusively for statistical purposes by bodies of the National Statistical System, and may also be released for the purpose of scientific research according to the terms and procedures provided by art. 7 of the Ethics Code for the processing of personal data performed in the context of the National Statistical System and by European Community regulation No 831/2002. The estimates, issued in aggregated form, are such that they may not be traced back to the individuals that provided the data, or to which they refer.

#### Coverage and territorial breakdown

The estimates of the monthly Employment and Unemployment press release are available only for the entire national territory. The quarterly estimates of the "Labour Market" press release are also produced for the geographical areas and for the regions. The annual estimates are also produced for the provinces.

#### **Timeliness**

The monthly estimates are produced at approximately 30 days from the reference month, in provisional form, because they are based on a part of the sample referring to the month (about 18,000 households, almost equal to 40,000 individuals, for the month of August 2020) and are issued contextually to the monthly data on unemployment released by Eurostat.

Successively, when the quarterly estimates are produced (at approximately 60 days from the quarter), the three-month estimates are recalculated on the entire sample referring to each month, and therefore are considered final.



#### Dissemination

The monthly seasonally-adjusted and non-seasonally-adjusted data is available on <u>I.Stat</u>, the data warehouse of Istat, in section "Labour and wages/Labour offer".

In addition to the monthly estimates, quarterly (and annual) estimates are also produced, starting from the data of the Labour force survey, released with the "Labour market" press release at approximately 70 days from the reference quarter. Quarterly and annual data are also available on I.Stat.

The time series of the continuous survey, starting from 2004 are reported on I.Stat. In addition, the back-recalculated time series of the main indicators since 1977 are reported, recalculated for the purpose of eliminating the breaks caused by the modifications introduced to the survey over time, useful for the purpose of analysing long term trends of the labour market. Data prior to 1977, in particular back to year 1959, when the survey on the labour force began, are in the Time Series database.

Files of quarterly microdata are also released (the file containing elementary data observed in the course of the survey), at approximately 70 days from the reference quarter (<a href="https://www.istat.it/en/analysis-and-products/microdata-files">https://www.istat.it/en/analysis-and-products/microdata-files</a>).

#### The management of the health emergency effects on the survey

Due to the health emergency, CAPI interviews have been forbidden since March, and the activity of the company in charge of the CATI interviews has been spendsued. As a consequence, the interviews have been conducted by telephone, by the data collectors belonging to the company in charge of the CAPI interviews. With the interviews related to fourth week of April, the company in charge of the CATI interviews has been able to restart its activity.

As a consequence of the changes in the data collection technique and the delays in the survey conduction, the revisions due to the reconciliation of monthly to quarterly data could be higher than usual.

The number of interviewed households for August 2020 is about 18,000 (almost equal to 40,000 individuals) and is approximately 10% lower than the average number of interviews used for the production of estimates related to a four-weeks month.

Several checks were carried out to verify the distortion induced by the change in technique and by the reduced sample size; the system of constraints for the determination of the survey's weights has made it possible to correct the distortion and maintain the sampling error on the standard levels (see table B). This also allowed to disseminate the data with the usual level of disaggregation and reliability.

With reference to the seasonally adjustment procedure, it was realized taking into consideration the Eurostat guidelines, available at the URL:

https://ec.europa.eu/eurostat/documents/10186/10693286/Time\_series\_treatment\_guidance.pdf

To take into account the exceptional variations in the estimates due to the healt emergency, additional regressors (to manage outliers) in the statistical models of seasonal adjustment were included when statistically significant. This procedure allowed to manage the outliers, with the aim of containing, as far as possible, potential future revisions of the data, due to the availability of additional information and a more complete assessment of the situation.

### For technical and methodological information

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