### Cultural employment – based on the Icelandic Labour Force Survey (IS-LFS)

#### 1. Contact

<table>
<thead>
<tr>
<th>1.1 Contact organisation</th>
<th>Statistics Iceland</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 Contact organisation unit</td>
<td>Labour market, living conditions and demography</td>
</tr>
<tr>
<td>1.3 Contact name</td>
<td>Erla Rún Guðmundsdóttir</td>
</tr>
<tr>
<td>1.6 Contact e-mail address</td>
<td><a href="mailto:erla.gudmundsdottir@hagstofa.is">erla.gudmundsdottir@hagstofa.is</a></td>
</tr>
<tr>
<td>1.7 Contact phone number</td>
<td>528 1052</td>
</tr>
</tbody>
</table>

#### 2. Metadata update

| 2.3 Metadata last update      | December 2, 2019 |

#### 3. Statistical presentation
Sample and response. The sampling frame for the Icelandic Labor Force Survey (IS-LFS) is drawn from all Icelandic and foreign citizens in the National Registry who are 16-74 years of age and domiciled in Iceland.

The data are collected continuously throughout the year. The year is divided into four 13-week periods and the sample is about 5,200 individuals every quarter. The size of the sample each time is around 5,200 individuals, divided into five rotation groups (waves), so that in each survey one group from the sample is being interviewed for the first time, another group for the second time and so forth. When each new survey arrives, the group which has been in the sample five times is replaced by a new group of persons. The new individuals are selected as a simple random sample without any rejections.

In all, participants are partake in the study three quarters in a row, followed by a two quarters rest before returning to participation in the survey for two quarters in a row (a 3-2-2 design). When survey participation is over respondents are not returned to the sampling frame until two years after having last belonged to a sample.

Questionnaire. Questions in the IS-LFS of Statistics Iceland are based on various models in comparable questionnaires used in neighboring countries, particularly the Nordic countries. The main focus of the questionnaire is labour participation of people, but it also includes questions about education and people’s labour market experience.

In the questionnaire design it was considered that the results must be aligned to the Eurostat’s main employment indicators and that data must be standardized in accordance with agreements on the EEA.

Scheduling. Those participating in each survey are asked about their employment activity in a given reference week. The reference week starts on a Saturday and is the last whole week before the interview occurs.
Status in employment: Self-employed or employees

Industries are categorized according to Icelandic sector classification, ÍSAT2008 (NACE Rev. 2). The following industries are classified as fully cultural according to Eurostat’s Guide to Culture Statistics 2018:

<table>
<thead>
<tr>
<th>ISAT08</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.11</td>
<td>Printing of newspapers</td>
</tr>
<tr>
<td>18.12</td>
<td>Other printing</td>
</tr>
<tr>
<td>18.13</td>
<td>Pre-press and pre-media services</td>
</tr>
<tr>
<td>18.14</td>
<td>Binding and related services</td>
</tr>
<tr>
<td>18.20</td>
<td>Reproduction of recorded media</td>
</tr>
<tr>
<td>32.12</td>
<td>Manufacture of jewellery and related articles</td>
</tr>
<tr>
<td>32.20</td>
<td>Manufacture of musical instruments</td>
</tr>
<tr>
<td>47.61</td>
<td>Retail sale of books in specialised stores</td>
</tr>
<tr>
<td>47.62</td>
<td>Retail sale of newspapers and stationary in specialised stores</td>
</tr>
<tr>
<td>47.63</td>
<td>Retail sale of music and video recordings in specialised stores</td>
</tr>
<tr>
<td>58.11</td>
<td>Book publishing</td>
</tr>
<tr>
<td>58.13</td>
<td>Publishing of newspapers</td>
</tr>
<tr>
<td>58.14</td>
<td>Publishing of journals and periodicals</td>
</tr>
<tr>
<td>58.21</td>
<td>Publishing of computer games</td>
</tr>
<tr>
<td>59.11</td>
<td>Motion picture, video and television programme production activities</td>
</tr>
<tr>
<td>59.12</td>
<td>Motion picture, video and television programme post-production</td>
</tr>
<tr>
<td>59.13</td>
<td>Motion picture, video and television programme distribution activities</td>
</tr>
<tr>
<td>59.14</td>
<td>Motion picture projection activities</td>
</tr>
<tr>
<td>59.20</td>
<td>Sound recording and music publishing activities</td>
</tr>
<tr>
<td>60.10</td>
<td>Radio broadcasting</td>
</tr>
<tr>
<td>60.20</td>
<td>Television programming and broadcasting activities</td>
</tr>
<tr>
<td>63.91</td>
<td>News agency activities</td>
</tr>
</tbody>
</table>
### Metadata

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>71.11</td>
<td>Architectural activities</td>
</tr>
<tr>
<td>74.10</td>
<td>Specialised design activities</td>
</tr>
<tr>
<td>74.20</td>
<td>Photographic activities</td>
</tr>
<tr>
<td>74.30</td>
<td>Translation and interpretation activities</td>
</tr>
<tr>
<td>77.22</td>
<td>Renting of video tapes and disks</td>
</tr>
<tr>
<td>85.52</td>
<td>Cultural education</td>
</tr>
<tr>
<td>90.01</td>
<td>Performing arts</td>
</tr>
<tr>
<td>90.02</td>
<td>Support activities to performing arts</td>
</tr>
<tr>
<td>90.03</td>
<td>Artistic creation</td>
</tr>
<tr>
<td>90.04</td>
<td>Operation of art facilities</td>
</tr>
<tr>
<td>90.05</td>
<td>Operation of historical sites and buildings</td>
</tr>
<tr>
<td>91.01</td>
<td>Library and archives activities</td>
</tr>
<tr>
<td>91.02</td>
<td>Museum activities</td>
</tr>
<tr>
<td>91.03</td>
<td>Operation of historical sites and buildings</td>
</tr>
</tbody>
</table>

Occupations are classified according to the Icelandic occupational classification, ÍSTARF95. The following occupations are classified as fully cultural according to Eurostat’s Guide to Culture Statistics 2018:

<table>
<thead>
<tr>
<th>ÍSTARF95</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1229</td>
<td>Production and operations managers not elsewhere classified</td>
</tr>
<tr>
<td>2141</td>
<td>Architects, town and traffic planners</td>
</tr>
<tr>
<td>2148</td>
<td>Cartographers and surveyors</td>
</tr>
<tr>
<td>2359</td>
<td>Other teaching professionals not elsewhere classified</td>
</tr>
<tr>
<td>2431</td>
<td>Archivists and curators</td>
</tr>
<tr>
<td>2432</td>
<td>Librarians and related information professionals</td>
</tr>
<tr>
<td>2444</td>
<td>Philologists, translators and interpreters</td>
</tr>
<tr>
<td>2451</td>
<td>Authors, journalists and other writers</td>
</tr>
<tr>
<td>2452</td>
<td>Sculptors, painters and related artists</td>
</tr>
<tr>
<td>2453</td>
<td>Composers, musicians and singers</td>
</tr>
</tbody>
</table>
2454  Choreographers and dancers
2455  Film, stage and related actors and directors
3131  Photographers and image and sound recording equipment operators
3132  Broadcasting and telecommunications equipment operators
3139  Optical and electronic equipment operators not elsewhere classified
3340  Other teaching associate professionals
3437  Administrative associate professionals not elsewhere classified
3439  Administrative associate professionals not elsewhere classified
3471  Decorators and commercial designers
3472  Radio, television and other announcers
3473  Street, night-club and related musicians, singers and dancers
3474  Clowns, magicians, acrobats and related associate professionals
4141  Library and filing clerks
7312  Musical-instrument makers and tuners
7313  Jewellery and precious-metal workers
7321  Abrasive wheel formers, potters and related workers
7322  Glass-makers, cutters, grinders and finishers
7323  Glass engravers and etchers
7324  Glass, ceramics and related decorative painters
7331  Handicraft workers in wood and related materials
7332  Handicraft workers in textile, leather and related materials
7424  Basketry weavers, brush makers and related workers
7431  Fibre preparers
7432  Weavers, knitters and related workers
3.3 Sector coverage
Statistics Iceland’s (Statice) published numbers for cultural employment are based on the Eurostat definition for culture statistics. According to this definition those are considered in cultural employment who 1) are working in cultural industries, irrespective of whether the person is employed in a cultural occupation, 2) those in cultural occupation, irrespective of whether they are employed in a non-cultural industries and 3) those who are in cultural occupation in cultural economic industries.

The numbers published by Statice are based on a cross-tabulation (see figure below) of cultural occupations (ÍSTARF95), on one hand, and cultural industries (ÍSAT08), on the other. The numbers are thus the total (sum) of all people working in all jobs within cultural industries and those working in cultural jobs within all industries. Furthermore, total numbers of those working in other jobs in other industries are published for comparison.

<table>
<thead>
<tr>
<th>Occupations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cultural occupations in cultural industries</td>
</tr>
<tr>
<td>Other occupations in cultural industries</td>
</tr>
</tbody>
</table>
It is proper to note that register based employment in cultural industries refers only to those working in cultural industries (ÍSAT08), regardless of whether the occupation (ÍSTARF95) is categorized as cultural or not, as occupation type is not included in register data.

In the IS-LFS, all concepts and definitions are aligned to those of the European statistical office (Eurostat) main employment indicators. These indicators are in turn used for international comparison.

The main definitions are:

**Job.** Any kind of work in return for money or a kind, unpaid work with a company of your own family, unpaid work on building your own home or production for your own consumption. Furthermore, artistic work counts as work, even if the person does not have income from it. Unpaid work at home in a home has not been considered employment.

**Employed** persons are classified as those respondents who worked one hour or more in the reference week or were temporarily absent from the work which they are usually hired to do.

**Main job** refers to the job the respondent considered as his or hers main job. In doubtful cases the main job should be the one with the greatest number of hours usually worked.

**Employees** are defined as persons who work for a public or private employer and who receive compensation in the form of wages, salaries, fees, gratuities, payment by results or payment in kind. **Self-employed** persons are defined as persons who work in their own business, for the purpose of earning a profit.
### Metadata

<table>
<thead>
<tr>
<th>3.5 Statistical unit</th>
<th>Individuals</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6 Statistical population</td>
<td>A population for the labor market survey constitutes of all Icelandic and foreign citizens aged 16–74 who are registered in the National Registry and domiciled in Iceland in the reference week of the study.</td>
</tr>
<tr>
<td>3.7 Reference area</td>
<td>Figures are generally published for the country as a whole.</td>
</tr>
<tr>
<td>3.8 Time coverage</td>
<td>Continued results from the Icelandic labor market survey have been published since 2003. Results regarding cultural employment have been published since 2019 but the publications include data 2003 and onwards.</td>
</tr>
<tr>
<td>3.9 Base period</td>
<td>Calendar year</td>
</tr>
</tbody>
</table>

### 4. Unit of measure

| 4. Unit of measure | The basic unit of the labor market survey is the individual. In most cases, the results are published as number of individuals (in thousands). |

### 5. Reference period

<table>
<thead>
<tr>
<th>5. Reference period</th>
<th>Data is collected continuously throughout the year. The year is divided into four 13-week periods.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>From 2018, the quarterly sample constitutes about 5,200 individuals, but between 2003 and 2017, the sample counted about 4,000 people.</td>
</tr>
<tr>
<td></td>
<td>The sample is divided evenly over all 13 weeks and each participant is asked about their position in the given reference week of the study. Base period for cultural employment is one year.</td>
</tr>
</tbody>
</table>

### 6. Institutional mandate

## 7. Confidentiality

<table>
<thead>
<tr>
<th>7.1 Confidentiality - policy</th>
<th>See rules on confidentiality</th>
</tr>
</thead>
</table>

## 8. Release policy

<table>
<thead>
<tr>
<th>8.1 Release calendar</th>
<th>See rules on statistical releases</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.2 Release calendar access</td>
<td>The Advance release calendar with scheduled releases.</td>
</tr>
<tr>
<td>8.3 User access</td>
<td>All results from the labour market survey are accessible through Statistics Iceland website under the heading “Labour Market”. Results regarding cultural employment are accessible through Statistics Iceland website under the heading “Economic measures” under “Culture”.</td>
</tr>
</tbody>
</table>

## 9. Frequency of dissemination

| 9. Frequency of dissemination | Results regarding cultural employment are published yearly. |

## 10. Accessibility and clarity

<table>
<thead>
<tr>
<th>10.1 News release</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2 Publication</td>
<td></td>
</tr>
<tr>
<td>10.3 On-line database</td>
<td></td>
</tr>
<tr>
<td>10.4 Micro-data access</td>
<td>It is possible to apply for micro-data access through Statistics Iceland research service.</td>
</tr>
<tr>
<td>10.5 Other</td>
<td></td>
</tr>
</tbody>
</table>
### 11. Quality management

#### 11.1 Quality assurance

Approved methods are used in all our sample studies.

Numbers on cultural employment have been compared to published figures from Eurostat for Iceland. Due to a less inclusive categorization in the figures published by Eurostat, the figures disseminated by Eurostat are somewhat lower than those published by Statistics Iceland. However, the figures published now are fully compliant with the trident model of cultural employment, based on the four digit categorization of occupations.

The labor market survey is also used in validation tests of other research within Statistics Iceland, which in turn supports correspondence between the IS-LFS and other data collected and processed by Statice.

Regular quality reports are submitted to Eurostat. The purpose of these reports is to ensure that the quality of the Icelandic research is in line with the European standard for official statistics.

#### 12. Relevance

##### 12.1 User needs

The main users of the IS – LFS are labor market and cultural stakeholders and governmental institutions and ministries.

##### 12.2 User satisfaction

##### 12.3 Completeness

### 13. Accuracy and reliability
The labor market study is a sample based survey. Every sample survey entails a degree of uncertainty because of the sample not being an exact reflection of the entire registry or population. In order to adjust the sample to the population responses are weighted by the gender and age of the respondent. Therefore, the results are subject to uncertainty, which becomes greater as the breakdown of the numerical content becomes more detailed.

It is proper to point out that numbers of those in cultural employment are based on a considerable breakdown. This means that there is a noteworthy uncertainty in the counts where the breakdown is great (such as for those who are fully in cultural employment). Hence, these numbers may greatly change between years according the numbers of individuals and how much they weigh in the data production.
The main errors other than sampling errors in the IS-LFS are coverage errors and non-response errors.

**Coverage errors.** Cover errors, on the one hand, stem from the fact that the registry that is the basis for the selection of the sample (the sampling frame) is not exhaustive and, on the other hand, because in the frame there are individuals or entities that do not belong there. This is called on the one hand under-coverage and on the other hand over-coverage.

For example, in the IS-LFS sample sometimes includes individuals who have real residence abroad because they are studying or working for more than 6 months in a given year and should therefore be considered as not a part of the population. If this group is not deducted from the population of working age, there is a disturbance, an assessment of the total size will be overestimated by the amount. This kind of distortion is called over-coverage.

It is much more difficult to detect under-coverage, i.e., people who should be included in the population. This group may be considered Icelandic nationals registered domiciled abroad but who are actually resident in Iceland and people from the European Economic Area who live and work in Iceland without being registered here as legally domiciled.

In all surveys, results may be skewed due to the fact that attrition in the sample varies by group. The main reasons for attrition are refusals, barriers to illness or disability, absence from home during a survey or failure to find the address or telephone number of those in the sample.

In the labor market study, the most prominent error is attrition. The main reasons for the attrition in the study are refusals, barriers to illness or disability, absence from home during the investigation, or failure of participants, for example, when people do not respond to the phone, failure to find the address or phone number of those in the sample.

Since 2003, the response rate in the VMR has fallen from about 80% to about 65%, mostly because participants could not be reached by telephone. To reduce the impact of dropout errors, the data is weighted by gender, age, and place of residence.
**Metadata**

**Imputation.** In addition, to address respondents’ failure to respond to particular questions in study missing information likely to add to the attrition error is imputed. The methods are mainly two types: 1) the likely answer is derived from the answers of other similar respondents or 2) the likely answer has been derived from other responses of the same person in the same survey or from previous surveys he has participated in. For specific variables, regression models have also been used in order to impute missing data.
### 14. Timeliness and punctuality

**14.1 Timeliness**
Annual results are available 4 weeks after the last reference week of the year ends.

**14.2 Punctuality**
The results of the labor market study are usually published on previously advertised dates. It is very rare for publications to be delayed.

### 15. Coherence and comparability

**15.1 Comparability – geographical**
The labor market study provides, among other things, figures for Eurostat’s [international data collection](#), which is intended to gather information on international labor supply and short-term labor market organization. Emphasis is placed on coordinated data collection and processing between European countries where the aim is to ensure the comparability of results across the countries participating in the European statistical co-operation.

**15.2 Comparability – over time**
From 1991 to 2002, Statistics Iceland’s labor market study was carried out twice a year, but since 2003 it has been continuous throughout the year. Since 1991, a number of changes have taken place in the questionnaire and the conduct of the study were revised before the continuous study began in 2003.

**15.3 Coherence – cross domain**
Various information on the number of people employed, development and size of industries can be found in other publications of Statistics Iceland. Statistics Iceland also publishes figures on the total number of employed persons, by sex, background and industry from public registries, monthly figures on the number of employees by months and years derived from tax data and annual operating and balance sheets of enterprises by industry, based on their tax returns which gives an overview of the status and development of individual industries.

**15.4 Coherence – internal**

### 16. Cost and burden

**16. Cost and burden**
Participants in the sample are free to refuse to participate in the study. The average interview time is about 6 minutes, shorter if participants have previously been in the study but longer if they are new to the study.
### 17. Data revision

<table>
<thead>
<tr>
<th>17.1 Data revision - policy</th>
<th>See Statistics Iceland revision policy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.2 Data revision -practice</td>
<td></td>
</tr>
</tbody>
</table>

### 18. Statistical processing

<table>
<thead>
<tr>
<th>18.1 Source data</th>
<th>This is a sample study of individuals based on their answers in telephone surveys. The main purpose of the survey is to assess the size of the workforce and those outside the labor market and their experience of the labor market.</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.2 Frequency of data collection</td>
<td>Weekly</td>
</tr>
<tr>
<td>18.3 Data collection</td>
<td>Data is collected via computer assisted telephone interviews (CATI) and collected using the BLAISE data collection program. This program saves task time, helps the interviewers choose the right series of queries and reduces errors. Most phone calls take place in the evenings and during weekends, but there are also efforts to phone participants during the daytime if information from other household members indicates they are most likely to be reached then. Thoroughgoing attempts are made to reach those who have moved or do not have a registered telephone number, though no trips are undertaken to the participants’ homes. Since after 1991, interviewers have been hired to phone the participants. Before each survey begins, the interviewers are instructed in interview techniques, reviewing the list of questions, and computer system and explaining unclear issues.</td>
</tr>
<tr>
<td>18.4 Data validation</td>
<td>Validation is done during data collection during which responses must adhere to certain internal conformity rules for each respondent. In data processing, other rules are used to check the data set and its consistency across different variables and measures.</td>
</tr>
<tr>
<td>18.5 Data compilation</td>
<td>Since the third quarter of 2019 all data compilation and processing has been done using the statistical program R. Variables are coded based on Eurostat’s recommendation for the <a href="https://ec.europa.eu/eurostat">operational definition of the main indicators of employment</a>.</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>18.6 Adjustment</td>
<td>Data is weighted by gender and age group so that the results reflect the number of these groups in the National Register.</td>
</tr>
<tr>
<td>19. Comment</td>
<td></td>
</tr>
</tbody>
</table>