

# EUROPEAN STATISTICS CODE OF PRACTICE

adopted by the Statistical Programme Committee on 24 February 2005

## Preamble

Definitions: For the purpose of this document:

*European Statistics* shall mean Community Statistics as defined in Council regulation (EC) No 322/97 of 17 February 1997 on Community Statistics, produced and disseminated by national statistical authorities and the Community's statistical authority (Eurostat) in conformity with Article 285(2) of the Treaty.

The *Statistical Authority* shall mean, at national level, the National Statistical Institute (NSI) and other statistical bodies in charge of producing and disseminating European Statistics and, at Community level, Eurostat.

The *European Statistical System*, hereinafter referred to as the ESS, shall mean the partnership comprising Eurostat, National Statistical Institutes and other national statistical bodies responsible in each Member State for producing and disseminating European Statistics.

In coherence with the Treaty establishing the European Community, and in particular Article 285(2) thereof, with the Council regulation (EC) No 322/97 of 17 February 1997 on Community Statistics, and with the Fundamental Principles of Official Statistics adopted by the United Nations Statistical Commission on 14 April 1994, the present Code of Practice has the dual purpose of:

- Improving trust and confidence in the independence, integrity and accountability of both National Statistical Authorities and Eurostat, and in the credibility and quality of the statistics they produce and disseminate (*i.e. an external focus*);
- Promoting the application of best international statistical principles, methods and practices by all producers of European Statistics to enhance their quality (*i.e. an internal focus*).

The Code is addressed for implementation to:

- *Governance authorities* (i.e. Governments, Ministries, Commission, Council) - to provide guidelines for them to ensure that their statistical services are professionally

organised and resourced to produce credible European Statistics in a manner that guarantees independence, integrity and accountability;

- *Statistical authorities and their staff* - to provide a benchmark of statistical principles, values and best practices that should help them in producing and disseminating high quality, harmonised European Statistics.

It is addressed for information to:

- *Users* - to show that European and national statistical authorities are impartial and that the statistics they produce and disseminate are trustworthy, objective and reliable;
- *Data providers* - to show that the confidentiality of the information they provide is protected, and that excessive demands will not be placed on them.

The Code of Conduct is based on 15 *Principles*. Governance authorities and statistical authorities in the European Union commit themselves to adhering to the principles fixed in this code and to reviewing its implementation periodically by the use of *Indicators of Good Practice* for each of the 15 Principles, which are to be used as references.

The Statistical Programme Committee established by Council Decision 89/382/EEC of 19 June 1989 will regularly carry out peer review monitoring of the implementation of the present Code.

## **Institutional Environment**

Institutional and organisational factors have a significant influence on the effectiveness and credibility of a statistical authority producing and disseminating European Statistics. The relevant issues are professional independence, mandate for data collection, adequacy of resources, quality commitment, statistical confidentiality, impartiality and objectivity.

**Principle 1: Professional Independence** - *The professional independence of statistical authorities from other policy, regulatory or administrative departments and bodies, as well as from private sector operators, ensures the credibility of European Statistics.*

Indicators

- The independence of the statistical authority from political and other external interference in producing and disseminating official statistics is specified in law.
- The head of the statistical authority has sufficiently high hierarchical standing to ensure senior level access to policy authorities and administrative public bodies. He/She should be of the highest professional calibre.

- The head of the statistical authority and, where appropriate, the heads of its statistical bodies have responsibility for ensuring that European Statistics are produced and disseminated in an independent manner.
- The head of the statistical authority and, where appropriate, the heads of its statistical bodies have the sole responsibility for deciding on statistical methods, standards and procedures, and on the content and timing of statistical releases.
- The statistical work programmes are published and periodic reports describe progress made.
- Statistical releases are clearly distinguished and issued separately from political/policy statements.
- The statistical authority, when appropriate, comments publicly on statistical issues, including criticisms and misuses of official statistics.

**Principle 2: Mandate for Data Collection** - *Statistical authorities must have a clear legal mandate to collect information for European statistical purposes. Administrations, enterprises and households, and the public at large may be compelled by law to allow access to or deliver data for European statistical purposes at the request of statistical authorities.*

#### Indicators

- The mandate to collect information for the production and dissemination of official statistics is specified in law.
- The statistical authority is allowed by national legislation to use administrative records for statistical purposes.
- On the basis of a legal act, the statistical authority may compel response to statistical surveys.

**Principle 3: Adequacy of Resources** - *The resources available to statistical authorities must be sufficient to meet European Statistics requirements.*

#### Indicators

- Staff, financial, and computing resources, adequate both in magnitude and in quality, are available to meet current European Statistics needs.
- The scope, detail and cost of European Statistics are commensurate with needs.
- Procedures exist to assess and justify demands for new European Statistics against their cost.
- Procedures exist to assess the continuing need for all European Statistics, to see if any can be discontinued or curtailed to free up resources.

**Principle 4: Quality Commitment** - *All ESS members commit themselves to work and co-operate according to the principles fixed in the Quality Declaration of the European Statistical System.*

Indicators

- Product quality is regularly monitored according to the ESS quality components.
- Processes are in place to monitor the quality of the collection, processing and dissemination of statistics.
- Processes are in place to deal with quality considerations, including tradeoffs within quality, and to guide planning for existing and emerging surveys.
- Quality guidelines are documented and staff are well trained. These guidelines are spelled out in writing and made known to the public.
- There is a regular and thorough review of the key statistical outputs using external experts where appropriate.

**Principle 5: Statistical Confidentiality** - *The privacy of data providers (households, enterprises, administrations and other respondents), the confidentiality of the information they provide and its use only for statistical purposes must be absolutely guaranteed.*

Indicators

- Statistical confidentiality is guaranteed in law.
- Statistical authority staff sign legal confidentiality commitments on appointment.
- Substantial penalties are prescribed for any wilful breaches of statistical confidentiality.
- Instructions and guidelines are provided on the protection of statistical confidentiality in the production and dissemination processes. These guidelines are spelled out in writing and made known to the public.
- Physical and technological provisions are in place to protect the security and integrity of statistical databases.
- Strict protocols apply to external users accessing statistical microdata for research purposes.

**Principle 6: Impartiality and Objectivity** - *Statistical authorities must produce and disseminate European Statistics respecting scientific independence and in an objective, professional and transparent manner in which all users are treated equitably.*

Indicators

- Statistics are compiled on an objective basis determined by statistical considerations.
- Choices of sources and statistical techniques are informed by statistical considerations.
- Errors discovered in published statistics are corrected at the earliest possible date and publicised.

- Information on the methods and procedures used by the statistical authority are publicly available.
- Statistical release dates and times are pre-announced.
- All users have equal access to statistical releases at the same time and any privileged pre-release access to any outside user is limited, controlled and publicised. In the event that leaks occur, pre-release arrangements should be revised so as to ensure impartiality.
- Statistical releases and statements made in Press Conferences are objective and non-partisan.

## **Statistical Processes**

European and other international standards, guidelines and good practices must be fully observed in the processes used by the statistical authorities to organise, collect, process and disseminate official statistics. The credibility of the statistics is enhanced by a reputation for good management and efficiency. The relevant aspects are sound methodology, appropriate statistical procedures, non-excessive burden on respondents and cost effectiveness.

**Principle 7: Sound Methodology** - *Sound methodology must underpin quality statistics. This requires adequate tools, procedures and expertise.*

### Indicators

- The overall methodological framework of the statistical authority follows European and other international standards, guidelines, and good practices.
- Procedures are in place to ensure that standard concepts, definitions and classifications are consistently applied throughout the statistical authority.
- The business register and the frame for population surveys are regularly evaluated and adjusted if necessary in order to ensure high quality.
- Detailed concordance exists between national classifications and sectorisation systems and the corresponding European systems.
- Graduates in the relevant academic disciplines are recruited.
- Staff attend international relevant training courses and conferences, and liaise with statistician colleagues at international level in order to learn from the best and to improve their expertise.
- Co-operation with the scientific community to improve methodology is organised and external reviews assess the quality and effectiveness of the methods implemented and promote better tools, when feasible.

**Principle 8: Appropriate Statistical Procedures** –*Appropriate statistical procedures, implemented from data collection to data validation, must underpin quality statistics.*

Indicators

- Where European Statistics are based on administrative data, the definitions and concepts used for the administrative purpose must be a good approximation to those required for statistical purposes.
- In case of statistical surveys, questionnaires are systematically tested prior to the data collection.
- Survey designs, sample selections, and sample weights are well based and regularly reviewed, revised or updated as required.
- Field operations, data entry, and coding are routinely monitored and revised as required.
- Appropriate editing and imputation computer systems are used and regularly reviewed, revised or updated as required.
- Revisions follow standard, well-established and transparent procedures.

**Principle 9: Non-Excessive Burden on Respondents** - *The reporting burden should be proportionate to the needs of the users and should not be excessive for respondents. The statistical authority monitors the response burden and sets targets for its reduction over time.*

Indicators

- The range and detail of European Statistics demands is limited to what is absolutely necessary.
- The reporting burden is spread as widely as possible over survey populations through appropriate sampling techniques.
- The information sought from businesses is, as far as possible, readily available from their accounts and electronic means are used where possible to facilitate its return.
- Best estimates and approximations are accepted when exact details are not readily available.
- Administrative sources are used whenever possible to avoid duplicating requests for information.
- Data sharing within statistical authorities is generalised in order to avoid multiplication of surveys.

**Principle 10: Cost Effectiveness** - *Resources must be effectively used.*

Indicators

- Internal and independent external measures monitor the statistical authority's use of resources.

- Routine clerical operations (e.g. data capture, coding, validation) are automated to the extent possible.
- The productivity potential of information and communications technology is being optimised for data collection, processing and dissemination.
- Proactive efforts are being made to improve the statistical potential of administrative records and avoid costly direct surveys.

## **Statistical Output**

Available statistics must meet users' needs. Statistics comply with the European quality standards and serve the needs of European institutions, governments, research institutions, business concerns and the public generally. The important issues concern the extent to which the statistics are relevant, accurate and reliable, timely, coherent, comparable across regions and countries, and readily accessible by users.

**Principle 11: Relevance** - *European Statistics must meet the needs of users.*

Indicators

- Processes are in place to consult users, monitor the relevance and practical utility of existing statistics in meeting their needs, and advise on their emerging needs and priorities.
- Priority needs are being met and reflected in the work programme.
- User satisfaction surveys are undertaken periodically.

**Principle 12: Accuracy and Reliability** - *European Statistics must accurately and reliably portray reality.*

Indicators

- Source data, intermediate results and statistical outputs are assessed and validated.
- Sampling errors and non-sampling errors are measured and systematically documented according to the framework of the ESS quality components.
- Studies and analyses of revisions are carried out routinely and used internally to inform statistical processes.

**Principle 13: Timeliness and Punctuality** - *European Statistics must be disseminated in a timely and punctual manner.*

Indicators

- Timeliness meets the highest European and international dissemination standards.
- A standard daily time is set for the release of European Statistics.
- Periodicity of European Statistics takes into account user requirements as much as possible.
- Any divergence from the dissemination time schedule is publicised in advance, explained and a new release date set.
- Preliminary results of acceptable aggregate quality can be disseminated when considered useful.

**Principle 14: Coherence and Comparability** - *European Statistics should be consistent internally, over time and comparable between regions and countries; it should be possible to combine and make joint use of related data from different sources.*

#### Indicators

- Statistics are internally coherent and consistent (e.g. arithmetic and accounting identities observed).
- Statistics are coherent or reconcilable over a reasonable period of time.
- Statistics are compiled on the basis of common standards with respect to scope, definitions, units and classifications in the different surveys and sources.
- Statistics from the different surveys and sources are compared and reconciled.
- Cross-national comparability of the data is ensured through periodical exchanges between the European Statistical System and other statistical systems; methodological studies are carried out in close co-operation between the Member States and Eurostat.

**Principle 15: Accessibility and Clarity** – *European Statistics should be presented in a clear and understandable form, disseminated in a suitable and convenient manner, available and accessible on an impartial basis with supporting metadata and guidance.*

#### Indicators

- Statistics are presented in a form that facilitates proper interpretation and meaningful comparisons.
- Dissemination services use modern information and communication technology and, if appropriate, traditional hard copy.
- Custom-designed analyses are provided when feasible and are made public.
- Access to microdata can be allowed for research purposes. This access is subject to strict protocols.
- Metadata are documented according to standardised metadata systems.
- Users are kept informed on the methodology of statistical processes and the quality of statistical outputs with respect to the ESS quality criteria.