Consumer price index (monthly) - Phase 1 Specify needs

Sub-process 1.1 Determination of needs

Responsibles

### Sub-process 1.1 Determination of needs

1.1

- **Price Statistics and International Comparisons Division**
- **Statistical Information Dissemination Division**

#### 1.1.1 Study of user needs

- Inclusion of new indicators or reduction of indicators in case of need

#### 1.1.2 Registration of main indicators

- Characterization of the socio-economic situation in the country in the given sphere

#### 1.1.3 Comparison of time series

- Implementation of analyses

### Sub-process 1.2 Consulting & confirmation of needs

1.2

- **Price Statistics and International Comparisons Division**

#### 1.2.1 Consultations within the frameworks of different international projects

- Consultations with the representatives of other interested organizations

#### 1.2.2 Effective proposals made during the consultations are presented to the

- Proposals are presented to the RA State Council on Statistics (SCS) for the approval

### Sub-process 1.3 Establishment of output objectives

1.3

- **Price Statistics and International Comparisons Division**

#### 1.3.1 The purpose of CPI development and calculation is to determine the size of price level change existing in RA consumer market in time and in territory.

#### 1.3.2 Compare RA CPI with CPI of other countries for the same period of time.

### Sub-process 1.4 Identification of concepts

1.4

- **Price Statistics and International Comparisons Division**

#### 1.4.1 CPI calculations include all types of households, irrespective of income amount.

#### 1.4.2 Observation point surveys are periodically carried out for the purpose of updating the list of products and services, expert evaluations are provided.

### Sub-process 1.5 Checking the data availability

1.5

- **Price Statistics and International Comparisons Division**

#### 1.5.1 Price observations are carried out by price observation specialists (statisticians) directly visiting relevant commercial (service) facilities selected for observation and record prices printed on labels and

#### 1.5.2 Observed prices are registered via handheld computers

### Sub-process 1.6 Preparation of business case

1.6

- **Price Statistics and International Comparisons Division**

#### 1.6.1 Working discussions with different interested organizations, users and international experts

#### 1.6.2 Adoption of reporting form and instruction to fill in it by the RA State Council on Statistics (SCS)

#### 1.6.3 State registration of the reporting form and instruction to fill in it as a normative act by the RA Ministry of Justice

The business case is in place
Consumer price index (monthly) - Phase 2 Design
Sub-process 2.1 Design outputs

Price Statistics and International Comparisons Division
The data are collected based on the Law on “Official Statistics” and “Five Year Statistical Program”, as well as the Resolution No. 05-N of RA State Council on Statistics “On Approval of the Procedure for the collection of statistical data” dated 20 June 2016 and Resolution “On Approval of Annual Statistical Program”.

Sub-process 2.2 Design variable description

Price Statistics and International Comparisons Division
For the collection of indicators Classification of Individual Consumption by Purpose (COICOP) has been used

Sub-process 2.3 Design data collection

Price Statistics and International Comparisons Division
The observation of consumer price and service tariffs is carried out by sample order.

Sub-process 2.4 Design of general population and sampling

Price Statistics and International Comparisons Division
CPI coverage can be divided into 2 main groups

Sub-process 2.5 Process and analyse design

Price Statistics and International Comparisons Division
The statistical indicators are going through the logical and arithmetical checking after the collection of the information

Sub-process 2.6 Design production systems & workflow

Price Statistics and International Comparisons Division
Preparatory works are implemented from the collection of the information until its publication

Preparation of professional training for staff
Assurance of respondents awareness
Production are implemented workflow
Consumer price index (monthly) - Phase 3: Build

Sub-process 3.1 Build data collection instrument

- Price Statistics and International Comparisons Division
- Ready to build data collection instrument
- Price observing specialists provide summarized descriptions of products and services selected for observation.
- The recorded prices are registered in relevant electronic tables.
- Data collection instrument in place

Sub-process 3.2 Build or enhance process components

- Methodological guidelines and instruction to cross checking of the information are in place
- Necessary tools to check the input data are available in the input software
- Input software package has necessary tools for index aggregation, required software for building historical series
- Process components built or enhanced

Sub-process 3.3 Build or enhance dissemination components

- According to Annual Statistical Program
- Dissemination of information by monthly, quarterly, annual
- Electronic version
- Dissemination components enhanced or built

Sub-process 3.4 Regulation of processes

- Collection of information
- Arithmetical and logical checking and adjustment
- Information input through the input software
- Comparison of tested summary data with corresponding time series
- Index calculation
- Preparation of press release
- Provision of indexes to subject matter divisions

Sub-process 3.5 Test statistical systems

- List of observed products/services are periodically updated
- Price indicator input software is reviewed
- Reorganization and development of software, as well as review of Macros
- Statistical system tested

Sub-process 3.6 Test statistical business process

- The input of new products in CPI list is carried out under weight changes, by examining beforehand their prices in consumer market
- Similar test observation process is implemented in case of change and inclusion of observed residence
- Statistical business process tested

Sub-process 3.7 Finalize production systems

- Based on retrieved price information, monthly indexes are calculated by RA marzes and for total RA
- A number of indexes are also calculated compared to different periods
- Production system finalized
4.1 Price Statistics and International Comparisons Division

Arminstat Household Survey Division provides Price Statistics and International Comparisons Division with the list of products and services consumed by surveyed households.

The composition and structure of product services with their prices included in each product group are adjusted.

Purpose sampling is carried out by consumed volume size.

Population is in place

4.2 Price Statistics and International Comparisons Division

Relevant Marz departments of Armstat

Ready to set up collection

Formation of the order for printing of relevant questionnaires, diaries and instruction on filling it in.

At the same time the questionnaire and diary form is accessible on the Armstat official website.

Collection set up

4.3 Yerevan City Department

Price Statistics and International Comparisons Division

Relevant Marz departments of Armstat

Ready to run collection

Statistical data collection is carried out

Collection by hand

Collection finished

4.4 Price Statistics and International Comparisons Division

Arithmetically and logically checking

Put in electronic environment

The information input is carried out mechanically and with further archiving

Collection finalized
Consumer price index (monthly) - Phase 5 Process

Sub-process 5.1 Integrate data

- Relevant Marz departments of Armstat
- Price Statistics and International Comparisons Division
- Data are integrated

Sub-process 5.2 Classify & code

- Price Statistics and International Comparisons Division
- Classification & coding implemented

Sub-process 5.3 Review and approval

- Price Statistics and International Comparisons Division
- Revision and approval implemented

Sub-process 5.4 Edit & input

- Price Statistics and International Comparisons Division
- Edit & input set up

Sub-process 5.5 Derive new variables & units

- Price Statistics and International Comparisons Division
- Variables & units derived

Sub-process 5.6 Calculate weights

- Price Statistics and International Comparisons Division
- Weights calculated

Sub-process 5.7 Calculate aggregates

- Price Statistics and International Comparisons Division
- Aggregates calculated

Sub-process 5.8 Finalize data files

- Price Statistics and International Comparisons Division
- Data files finalized

- Armstat Household Surveys Division provides Price Statistics and International Comparisons Division with the list of products and services consumed by surveyed households.
- The composition and structure of product services with their prices included in each product group are adjusted.
- Specific weight of each product (service) in general consumer basket is calculated.
- All product services that comprise of consumer price index basket are considered elementary aggregates or CPI calculations or CPI weighting.
- Weight formation process is implemented by the following stages:
  1. Specific weight of each product/services in general consumer basket is calculated
  2. The composition and structure of product services with their prices included in each product group are adjusted
  3. The weight formation process is implemented by the following stages

- When product and service type disappears from consumer market, relevant methodology is applied and they are replaced by another type with the same name and quality specifications.
Consumer price index (monthly) Phase 6 Analysis

Sub-process 6.1 Prepare draft outputs

After the monthly calculation of consumer price indexes, presentation of aggregated data is made.

Their summary publication is made on the fifth working day after each accounting month on Armstat official website.

Draft outputs prepared.

Sub-process 6.2 Validate outputs

The methodological requirements to the received indicators are strictly followed during the whole process of indicators receiving.

Defined classifications.

Methodological guidelines.

Projects provided by the International Monetary Fund.

Outputs validated.

Sub-process 6.3 Explanation and interpretation of outputs

Calculation of summary indicators.

Logical analysis of indicators.

Evaluations of impact of different socio-economic phenomena on relevant aggregated indicators.

Output explained and interpreted.

Sub-process 6.4 Apply disclosure control

Disclosure control is applied by keeping confidentiality based on the Law on Official Statistics and the Resolution of the SCS No 53 “Approval of the Order on Protection of Statistical Confidentiality” dated 25 June 2001, and only summarized data are provided.

Disclosure control applied.

Sub-process 6.5 Finalize outputs

The analysis of observed prices and indexes calculated based on them is carried out by their historical and time series.

Comparison is made between price levels of seasonal products recorded during the same period of the previous years.

Dissemination of summary information.

Output finalized.
Consumer price index (monthly): Phase 7 Dissemination

Sub-process 7.1 Update output systems

7.1
Price Statistics and International Comparisons Division
Statistical Information Dissemination Division
International Statistical Co-operation Division

Preparation of relevant tables of statistical indicators
Updating of time series
In case of need, changes and completions are made to the methodological clarifications and concepts of relevant statistical indicators

Ready to update output systems
Output systems updated

Sub-process 7.2 Produce dissemination products

7.2
Price Statistics and International Comparisons Division
Statistical Information Dissemination Division
International Statistical Co-operation Division

Preparation of explanatory texts, tables and diagrams
Grouping of products and making them in line with the publication standards

Information in Armenian, Russian and English is published in different statistical publications in paper and electronic version
The electronic versions of publications are available on official website of the Armstat

Ready to produce dissemination products
Dissemination products produced

Sub-process 7.3 Manage release of dissemination products

7.3
Price Statistics and International Comparisons Division
Statistical Information Dissemination Division
International Statistical Co-operation Division

The dissemination of statistical information is carried out according to the schedule envisaged by the Five-Year and Annual Statistical Programs.

Ready to manage release of dissemination products
Release of dissemination products managed

Sub-process 7.4 Promote dissemination products

7.4
Price Statistics and International Comparisons Division
Statistical Information Dissemination Division
International Statistical Co-operation Division

Submission of dissemination products

Use of tools to manage communication with users
Use of website, Facebook, etc.

In case of the official request of the users of statistical information related to the information not being published, the calculation of additional indicators is carried out at

At the same time, the principle of confidentiality of statistical information is maintained

Ready to promote dissemination products
Dissemination products promoted

Sub-process 7.5 Manage user support

7.5
Price Statistics and International Comparisons Division
Statistical Information Dissemination Division
International Statistical Co-operation Division

In case of the official request of the users of statistical information related to the information not being published, the calculation of additional indicators is carried out at

At the same time, the principle of confidentiality of statistical information is maintained

Ready to manage user support
User support managed
Indicators for integrated household survey monetary expenditures, data received from branch units, data on product prices produced by producers and sold in the republic, agricultural product sold by peasant farms, specific weights of financial services offered by central bank, etc serve as a base for indirect calculation of weights of enlarged groups used for CPI aggregation that are adjusted according to data received from relevant subject matter units, are compared with indicators of similar groupings on monetary expenditures of integrated household survey. Price level according to observed cities registered in consumer market of the republic and change tendencies calculated by them are compared with each other. In the case of detection of discrepancies between the data received from different sources on the same indicator being compared, the possible reasons are revealed, and the corresponding final adjustment made based on it.