Statistical Product – Indicator of Economic Activitiy (monthly)

Processes	Sub-processes	Sub-process description
1.Specify needs		
		The scope of users of information on National Accounts of the Republic of Armenia is broad. The main users are state bodies involved in the economic policy and economic projections processes, as well as other state government and local self-government bodies, public, scientific, financial organizations, business society, mass media, international organizations, etc. with the purpose of making relevant analysis, modeling, as well as projections.
	1.1 Identify needs	The calculations are made according to different information sources mainly on the basis of statistical surveys data processed by the Armstat as well as the monthly discreet data received from the administrative register. The average prices for the previous year are taken. The volume indices are aggregated based on the weights of the mentioned activities in the GDP of the previous year (without net taxes and indirectly measured mediator services).
	1.2 Consult and confirm needs	Following the recommendations of experts from IMF, WB, EU (also EUROSTAT) starting January 1, 2011 the monthly calculations of GDP indicator have stopped. This was grounded by the fact that some CIS countries had already accepted the European experience and had already stopped the practice of calculating the GDP index on a monthly basis.

	1.3 Establish output objectives	Instead, staring January, 2011 the net monthly index of economic activity is being calculated on monthly basis.
	1.4 Identify concepts	The need to introduce indicators is stimulated by the economy's monthly summary indicator and has wide demand among users.
	1.5 Check data availability	The calculations are made according to different information sources mainly on the basis of statistical surveys data processed by the Armstat as well as the monthly discreet data received from the administrative register. The average prices for the previous year are taken. The volume indices are aggregated based on the weights of the mentioned activities in the GDP of the previous year (without net taxes and indirectly measured mediator services).
	1.6 Prepare business case	
2.Design		
	2.1 Design output	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".
	2.2 Design variable description	-
	2.3 Design data collection	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".
	2.4 Design frame and sample	Indicator of Economic Activity (IEA) covers all of the RA marzes and Yerevan city and summarizes all those economic activity

		types included in NACE groups. All activities described in SNA are included. Based on the average prices for the previous year the IEA of the current month against the previous month, as well as linking chain indices are calculated which makes it possible to compare indicators for different months or a period of several months.
	2.5 Design processing and analysis	After the collection of data the statistical indicators are subject to arithmetic and logical checks, and based on them, in case of necessity, the appropriate adjustments are carried out, also through means of communications with data providers.
	2.6 Design production systems and workflow	Preparatory work on all procedures starting from collection of information to its publication, particularly related to the appropriate notification of respondents, the training of the staff through professional courses and etc. is carried out.
3. Build		
	3.1 Build collection instrument	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".
	3.2 Build or enhance process components	The methodological guidelines and instructions necessary for information verification are available. Input software (Microsoft Office Access) has necessary tools for arithmetic and logical checks of input data, systems for checking the sum total, logical chains, identification and other automated check systems.
	3.3 Build or enhance dissemination components	The dissemination of information is possible in both paper and electronic form of publication of information on monthly basis, in accordance with the Annual Statistical Program.
	3.4 Configure workflows	The derivation of statistical product is carried out by the following successive stages:

		1. Collection of data,
		2. Arithmetical and logical checks and adjustments,
		3. Comparison of obtained summary data with the corresponding time series,
		4. Dissemination of data in both paper and electronic forms through the yearbooks, data reports, statistical handbooks, as well as through the official response letters to the official requests
	3.5 Test production system	-
	3.6 Test statistical business process	-
	3.7 Finalize production system	The consents with data providers got on indicators during work discussions are summarized.
4.Collection		
	4.1 Create frame and select sample	Indicator of economic activity (IEA) is the aggregated indicator for the real changes in the production on a monthly basis. The monthly IEA characterizes the changes in the volumes of services and production. For each month it represents one aggregated data for the whole economy expressed by an index. The following g indicators on IEA are available: a)IEA index linking chains as compared with the average of the previous year b)IEA compared with that of the previous month c)IEA compared with that of the same month of the previous year d) IEA compared with that of the same period of the previous year, in incremental order.
	4.2 Set up collection	-
	4.3 Run collection	-
	4.4 Finalize collection	The collected data, after being arithmetically and logically checked, is input in the electronic environment. Data is input using both mechanical and electronic methods.

5.Process		
	5.1 Integrate data	-
	5.2 Classify and code	-
	5.3Review and validate	The verification of incomplete and corrupt presented data, as well as the conformity of incorrect data is made.
	5.4 Edit and impute	-
	5.5 Derive new variables and units	Additional calculations and estimations for the calculation of other indicators are not available.
	5.6 Calculate weights	Additional calculations and estimations for the calculation of other weights are not available.
	5.7 Calculate aggregates	The summary data by separate statistical indicators are derived based on the input data through the pre-designed software**.**
	5.8 Finalize data files	Often basing on the necessity of retrieving operative statistical data, calculation of preliminary indicators is carried out based on preliminary information which is subject to further adjustment.
6.Analyze		
	6.1. Prepare draft outputs	-
	6.2 Validate outputs	The methodological requirements of the received indicators are strictly followed during the whole process of receiving in accordance with the pre-defined classifications and methodological guidelines. Taking into consideration that the first GDP estimations are being available 51/53 days after the end of the year, and starting 2013 65/67 days after the end of the year, for the first three months of the current year the IEA is calculated based on the (evaluated reference year) GDP weighted data which are later reviewed based on the GDP weight of the previous year, when these data become available on the 5th of May.
	6.3 Interpret and explain of outputs	The logical analysis of summary indicators is carried out after their derivation using the impact of various economic phenomena on

		IEA.
	6.4 Apply disclosure control	The information on IEA is generally presented in table forms and stored in electronic format.
	6.5 Finalize outputs	Before the dissemination of summary data**,** the analysis of summary indicators on IEA is made.
7.Dissemination		.
	7.1 Update output	The work on the derivation and final checking of relevant tables of statistical indicators that are subject to publication, as well as the time series update are implemented. In case of the need the changes and/ or additions are made in the concepts and methodological explanations of the relevant indicator.
	7.2 Produce dissemination products	All production steps for dissemination products are carried out; preparation of explanation text, tables, figures and other materials, editing of that products and their conformity to publication standards. The data on statistical indicators is published in Armenian Russian, English through the yearbooks, statistical handbooks and monthly data reports: Main macroeconomic indicators of social economic situation of the Republic of Armenia (Armenian and Russian) Databases: https://armstatbank.am/pxweb/en/ArmStatBank/?rxid=602c2fcf-531f-4ed9-b9ad-42a1c546a1b6,602c2fcf-531f-4ed9-b9ad-42a1c546a1b6 *Electronic version* Electronic versions of publications are available in Armenian Russian, English at the following address: http://www.armstat.am/am/?nid=202
	7.3 Manage release of dissemination products	The dissemination of statistical information is carried out according to the schedule envisaged by the Five-Year and Annual Statistical Programs. In case of the changes and adjustments made in the indicators provided by the providers of

		statistical information the indicators already published by the Armstat are also being changed and adjusted correspondingly.
	7.4 Promote dissemination products	Providing distribution products. Use tools to manage communication with consumers. Use of site, facebook and other resources.
	7.5 Manage user support	In case of the official request of the users of statistical data related to the data not being published, the calculation of additional indicators is carried out at possible extend and submitted to them at the same time following the principle of statistical data confidentiality.
8.Evaluation		
	8.1 Gather evaluation input	When calculating the IEA the assessing means of monthly indexes of real value of economic activitiy types are collected from the same sources and administrative register for the purpose of comparison.
	8.2 Conduct evaluation	The possible IEA data inaccuracy may be accounted for inaccuracy of discreet data received from different sources. Relevant information from administrative registers is considered as a basis for the quality assessment of discrete data.
	8.3 Agree an action plan	On a quarterly basis the IEA tendencies are compared with the quarterly NA production indicator tendencies.