

Statistical product– Education (pre-school education (annual), pupils gross enrollment (annual), musical, artistic, art schools, children's creative centers activity (annual), vocational education (annual), higher education (annual), postgraduate education (annual), research and development (annual))

Processes	Sub-processes	Sub-process description
1 Specify needs		
	1.1 Identify needs	<p>The indicators on preschool, educational institutions, musical, artistic, art schools, children's creative centers, preliminary vocational and middle vocational education, higher education , postgraduate education and research work activity are included in the primary and summary statistical reporting forms on education sphere. The grouped indicators of the education sphere are subject to periodical changes by demand and are provided to RA state government bodies, scientific and educational institutions, international organizations, mass media and other stakeholders making politics in this sphere by following the legal requirements on their confidentiality.</p>
	1.2 Consult & confirm needs	<p>The working meetings and discussions are held with Yerevan city Municipality, the RA Ministry of Education, Science, Culture and Sport, RA National Academy of Sciences and educational institutions to provide clarifications related to the inclusion of new indicator upon the request of users in the primary and summary statistical reporting forms, related to changes in available indicators, data collection. The statistical information users' opinions related to the indicator are studied through the working discussions, as well as through the "User satisfaction survey questionnaire" which is available on Armstat website (see: https://www.armstat.am/am/?nid=131).</p>
	1.3 Establish output objectives	<p>The statistical information users' opinion related to the inclusion of new proposed indicator, as well as to the</p>

		available indicator is studied. In the process of collection, use, publication and maintenance of information (data), the provisions of the RA Law “On Official Statistics” are strictly followed (see: http://www.armstat.am/file/doc/99486043.pdf).
	1.4 Identify concepts	The inclusion of indicators is stipulated by the availability of users’ requirement.
	1.5 Check data availability	Data collection on the education sphere is carried out via primary and summary statistical reporting forms approved by the RA State Council on Statistics according to the Annual and Five –Year Statistical programs. The relevant information received from the organizations implementing educational programs and administrative register (RA Ministry of Education, Science, Culture and Sport,) is an information source for the indicators adjustment, and updating, related to changes in them.
	1.6 Prepare business case	Before the adoption of the statistical reporting forms by the RA State Council on Statistics and state registration by the RA Ministry of Justice, as a legal act, the discussions on indicators included in them and the instructions for their completion are carried out with different interested institutions, educational and scientific organizations and users, as well as the opinion of international experts is taken into where possible.
2.Design		
	2.1 Design outputs	The data are collected based on the Law on "Official Statistics" (see: https://www.armstat.am/am/?nid=638) and “Five Year Statistical Program” (see: https://www.armstat.am/am/?nid=719), 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 (see: https://www.arlis.am/DocumentView.aspx?docID=122973) and Resolution “On Approval of Annual Statistical Program” (see: https://www.armstat.am/am/?nid=191), as well as on

		reporting forms approved by Resolutions of the RA State Council on Statistics and the approvals of instructions on filling in them.
	2.2 Design variable descriptions	There are approved 9 primary and summary statistical reporting forms for indicators collection that include 16644 indicators. The Classification of Types of Economic Activity is used for the collection of indicators (Order of the Minister of Economy of RA N-1579 RA, OB 04.11.2013 30/(474)1, dated 10 December 2019) (NACE Rev.2) (see: https://www.armstat.am/am/?nid=370) and the revised version of International Standards for Classification of Education approved by UNESCO (ISCED 2011) are used for the collection of indicators.
	2.3. Design collection	Statistical data collection is carried out through the statistical primary and summary reporting forms, approved by the RA State Council on Statistics. Collection of information is carried out from primary sources and administrative sources. The main form of the collection of statistical information is paper form through the statistical reporting forms approved by the RA State Council on Statistics, according to the Annual Statistical Program. The electronic method of the collection of information is also applied.
	2.4 Design frame and sample	<p>The design of the general population is implemented to provide complete information regarding the sphere. For this purpose, the receiving of information from all possible sources on sphere previously known is implemented and immediately, the organizations are notified about being involved in the statistical observation field and then the relevant statistical information is collected.</p> <p>There is no need for sampling design, as the information received from administrative sources is complete (whole observation field is included), and the information from organizations is received by widespread method. Research and development sphere includes only the public sector</p>
	2.5 Design processing and analysis	After the collection of information the statistical indicators are subject to arithmetic and logical checks, and in case of

		necessity the appropriate adjustments are carried out also by contacting the relevant organizations that provide the information. In case of submission of not reliable, incomplete or corrupted information on indicators, in case of need the process of verification is also implemented according to the requirements of the Article 169.2 of RA Code on “Administrative Offences”, as a result the prior period data are subject to be adjusted.
	2.6 Design production systems and workflow	The preparatory work is carried out for all processes from the collection of information and until its publication, particularly, related to the appropriate notification of respondents, the training of the staff through professional courses and etc.
3.Build		
	3.1 Build collection instrument	The primary and summary statistical reporting forms needed for the collection of information and the instruction for filling in them are available in paper and electronic form (see link https://www.armstat.am/am/?nid=547). Relevant methods to access to the electronic environment for electronic data collection from administrative sources are in place.
	3.2 Build or enhance process components	The methodological guidelines and instructions necessary for information calculation and verification of needed information 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, organizations’ registration, identification and tax codes compliance and other automated checks systems.
	3.3 Build or enhance dissemination components	The dissemination of information is possible in paper, as well as in electronic form of publication of information on monthly, quarterly, biannual and annual basis in accordance with the Annual Statistical Program (following restrictions related to information containing statistical confidentiality).
	3.4 Configure workflows	The derivation of statistical product is carried out by the following successive stages: <ol style="list-style-type: none"> 1. collection of information,

		<ol style="list-style-type: none"> 2. arithmetical and logical checks and adjustments, 3. information input through the pre designed input software (Microsoft Office Access software), 4. comparison of obtained summary data with the corresponding time series, 5. Dissemination of information in paper or electronic forms through the yearbooks, information reports, statistical handbooks, as well as through the official response letters upon the official requests.
	3.5 Test production system	Due to indicators changes in the primary statistical reporting forms the input software is regularly undergoing to relevant changes. The testing of software is also carried out in case of need.
	3.6 Test statistical business production	In parallel with the inclusion of the indicators in the primary statistical reporting form, the field examination of the latter is implemented to reveal the opportunities of the respondents to provide with the indicators, as well as to test their understanding of it.
	3.7 Finalize production system	The composition of methodological clarifications on the completion of indicators available in statistical reporting form and provision to the statistical information providers (respondents) is carried out. The consents of information providers on indicators got during the workshops are summarized.
4.Collection		

	4.1 Create frame and select sample	The information general population is formed in the result of widespread observation of data collection that includes the complete statistical data collected from administrative sources and all organizations.
	4.2. Set up collection	In order to organize the collection of statistical data, the formation of order on printing of relevant statistical reporting form and in case of need of the instruction of filling in it, their printing and distribution to the relevant organizations is implemented according to the number of organizations

		previously known as subject to observation. At the same time the statistical primary reporting forms and the instruction of filling in them are accessible on the Armstat official website (see the link: https://www.armstat.am/am/?nid=547). The required network resources for the report collection in the electronic form are in place.
	4.3 Run collection	Statistical data collection is carried out by the Armstat territorial units, marz departments as well as relevant units of Armstat by hand, mail and electronic system means according to the Resolution of RA State Council on Statistics No 05-N on the “Approval of the Procedure of the collection of Statistical Data” dated 20 June 2016.
	4.4 Finalize collection	The collected information, after being arithmetically and logically cross checked, is input in the electronic environment. The information input is carried out automated, as well as by direct input of information in electronic environment. The reports received by paper and electronic forms after being entered in the electronic environment are archived, keeping legal requirements to their confidentiality.
5.Process		
	5.1 Integrate data	The unification of relevant data received from the Armstat marz (regional) departments in one common database is implemented, as well as the information collected by Armstat and from administrative sources is unified in a common database, in a result of which the duplications would be excluded.
	5.2 Classify and code	The work of coding of the organization's main types of activities is implemented according to the classification of types of economic activities (NACE, rev 2), the degree of implemented educational programs according to the revised version of the International Classification of Education (ISCED 2011), as well as the marz and territorial units are encoded according to the predetermined order.

	5.3.Review and validate	The cross checking of incomplete and corrupted presented data , as well as the compiling of incorrect encoded data with requirements of current classifications is implemented. In the case of need, the validation of relevant codes on registration of organization in state register, identification is implemented.
	5.4 Edit and impute	
	5.5 Derive new variables and units	Additional calculations for the calculation of other indicators are not available.
	5.6 Calculate weights	
	5.7 Calculate aggregates	The summary data by separate statistical indicators are derived based on the input data through the pre-designed software. The number of student's in general educational institutions by educational level and corresponding age groups of the population is used when calculating the gross enrollment of pupils.
	5.8 Finalize data files	
6.Analysis		
	6.1. Prepare draft outputs	The creation of indicator groups, as well as time series of statistical indicators is implemented based on obtained statistical summary data. In particular the following main indicators of sector are calculated; number of preschool institutions, number of attending children by age and number of staff, children enrollment in preschool institutions, number of educational institutions, number of pupils there by degrees of educational programs, classes and age groups, taught subjects and rates; the number of musical, art and art schools and children's creative centers, the number of students in the free and paid education systems, age, department, teachers by type of specialization, educational level and types of schools; the number of primary vocational (vocational) and vocational education institutions, the number of students admitted, studying and graduated by groups of professions, the bases of

		<p>education, the number of free and paid education systems, courses, age and staff according to the educational level and rate; the number of institutions implementing the second category degree programs, the number of students admitted, studying and graduating according to their specialties, the number of free and paid education systems, courses, age and staff by education level and rate, number of scientific and pedagogical and scientific staff by positions and according to scientific titles and degrees; the number of graduate and doctoral students, students and graduates according to their specialty, free and paid education systems, and the number of post-graduate PhD students by specialty; the volume of scientific and technical work by the type, directions, the number of employees performing them by age groups, educational level and academic degree. Indicators are presented according to the marzes and the Yerevan city. The calculated indices are used to create the time series of indicators.</p>
	6.2 Validate outputs	<p>The methodological requirements to the received indicators are strictly followed during the whole process of indicators receiving according to the pre-defined classifications, methodological guidelines and the instruction on completing the statistical reporting form.</p>
	6.3 Interpret and explain of outputs	<p>The logical analysis of the received summary indicators is carried out using the dynamics of relevant indicators of the previous years.</p>
	6.4 Apply disclosure control	<p>The confidentiality of statistical indicators (not containing individual (personal) data) that is subject to publication, as well as requested by the users of statistical information is strictly followed according to 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 (see: https://www.armstat.am/file/doc/99454478.pdf).</p>
	6.5 Finalize outputs	<p>Before the dissemination of summary information, an analysis of the summary indicators of the sphere by time</p>

		series is conducted.
7. Dissemination		
	7.1 Update output system	The work on the derivation of relevant tables of statistical indicators that are subject to publication and final adjustments are carried out, as well as the time series update is implemented. In the 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	<p>All the production steps are implemented for the disseminating products: preparation of explanatory text, tables, charts and other materials, editing of these products and making them compliant with publishing standards.</p> <p>The information on the statistical indicators is published in Armenian, Russian, English through the yearbooks, statistical handbooks and monthly informational reports.</p> <ul style="list-style-type: none"> • Statistical Yearbook of Armenia https://www.armstat.am/am/?nid=586 • RA marzes and Yerevan city by figures https://www.armstat.am/am/?nid=80&id=2203 • Armenia in figures (annual) https://www.armstat.am/am/?nid=80&id=2219 • “Socio-Economic Situation of the Republic of Armenia” (monthly) https://www.armstat.am/am/?nid=82 • Socio-economic Situation of the Republic of Armenia (annual) http://www.armstat.am/am/?nid=82&id=1689 • Women and Men in Armenia (annual) http://www.armstat.am/am/?nid=82&id=1487
	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	Submission of dissemination products. Use of tools to manage communication with users. Use of website, Facebook, etc.
	7.5 Manage user support	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 possible extend and submitted to them following the principle of confidentiality of statistical information.
<i>8.Evaluation</i>		
	8.1 Gather evaluation input	
	8.2 Conduct evaluation	
	8.3 Agree an action plan	