

Strategies

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Statistical Office of the Republic of Slovenia (SURS)	Data integration as a process is described in the Quality Guidelines. The revised and updated edition of the methodological manual is released in the Slovene language at the time, and the English version will be released not later than by the end of November, 2017. http://www.stat.si/statweb/en/Methods/ClassificationsQuestionnairesMethods
Statistics Canada	No specific definition of data integration.
National Statistical Service of the Republic of Armenia	The NSSRA is promoting the establishment of digital integrated system of administrative registers with a single identification code.
Stats NZ	Data integration is defined broadly as combining data from different sources about the same or a similar individual or unit. This definition includes linkages between survey and administrative data, as well as between data from two or more administrative sources. Another application of data integration theory is in identifying records on a single file that belong to the same individual or unit. Other terms used to describe the data integration process include 'record linkage' and 'data matching'
National Institute of Statistics and Geography (INEGI for its acronym in spanish)	In Mexico there is a National System of Statistical and Geographic Information that is governed by a Law (LSNIEG) that considers as an important aspect in statistical activities the integration of data of National Interest Information. The LSNIEG promotes the application of technical standards to regulate the generation and integration of information and with this information, a set of Key Indicators is developed that aims to offer the Mexican State and society in general, information that is needed
Israel Central Bureau of Statistics	-
Hungarian Central Statistical Office (HCSO)	According to the Hungarian adaptation of the GSBPM (called: ESTFM), data integration is defined as: In short: link/match dataset from 2 or more sources. Data integration is considered as an activity within „Process“ phase of our statistical business process model. The inputs of the integrated/linked dataset could be datasets that are produced /managed by the institution or any other dataset that comes from outside of the institution and of course any combination of these. If the datasets to in

Do you have, or are you developing, organisation wide, national or international strategies for data integration?



If so, please describe and/or provide links

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Statistical Office of the Republic of Slovenia (SURS)	SURS takes part in development projects in the field of administrative records and has developed a statistical environment based on administrative records and registers. The established method of work at SURS is that it is constantly checked whether the required data can be obtained from the existing sources (statistical, administrative and other). The strategic and methodological documents (Medium-term Programme of Statistical Surveys, Quality Guidelines) are oriented towards register-based statistics that provide non-excessive burden on respondents.
Statistical office of Serbia	We develop and use IST concept of data integration. It is based on one platform for all data and active metadata system. IST is now international collaboration and is implemented, besides Serbia in statistical offices of Montenegro, Bosnia and Herzegovina and Albania. Also, IST is implemented in Serbian Chamber of commerce.
Republic Srpska Institute of Statistic	In our case, we are part of international team, who developed and still developing IST concept of data integration. IST is in full production in Serbia, Bosnia and Herzegovina, Montenegro and Albania.
Statistics Canada	As Canada's central statistical office, Statistics Canada is legislated (http://laws.justice.gc.ca/eng/acts/S-19/FullText.html) to provide statistics for the whole of Canada and each of the provinces and territories. It is mandated generally, to promote and develop integrated social and economic statistics pertaining to the whole of Canada and to each of the provinces thereof and to coordinate plans for the integration of those statistics. As a member of the United Nations Statistical Commis
National Statistical Service of the Republic of Armenia	The three-year statistical program is the NSSRA's strategy that includes the main directions of the state statistical activity in economic, demographic, social and environmental fields of the country. The three-year program/strategy is adopted by the National Assembly as a Law (http://www.armstat.am).
Departamento Administrativo Nacional de Estadística DANE	On September 25, 2015, the UN General Assembly adopted the 2030 Agenda for Sustainable Development and its 17 Sustainable Development Goals -SDG-. At that meeting, Member States committed to accomplishing the aspirations set for the SDGs, by "taking into account the different realities, capacities and levels of development of each country and respecting their national policies and priorities". They also recognized "the need to adopt new approaches to data production, acquisition and integrati
Stats NZ	http://www.stats.govt.nz/about_us/legisln-policies-protocols.aspx
National Institute of Statistics and Geography (INEGI for its acronym in spanish)	In the National context, in 1978 INEGI was created the National Geostatistical Framework (MGN) with the objective of associating census information and statistical survey with the corresponding geographical area. The codification of each geostatistical area provides unique and specific identity of the geographical space that occupies in the country, a situation that allows the association of the statistical and geographical data that it contains. http://www.inegi.org.mx/geo/contenidos/geoestadis
Israel Central Bureau of Statistics	ICBS is in the process of organizing the National Statistical System of Israel. We expect the NSS to develop integration practices as part of the coordination mechanisms to be put in place. GIS: In order to produce the statistics, we have an organization wide methodology and anchoring process. There is a significant use of GIS tools in the production of statistics and in the publication of statistics at various geographical resolutions.
Hungarian Central Statistical Office (HCSO)	We do not have strategies for data integration specifically.

Some official statistics organisations have a leading role in the development of national/whole of government/international data integration practices. Can you identify the main advantages of official statistics organisations taking this role?

Can you identify advantages or challenges of official statistical organisations taking this role?

Organisation	Advantages	Challenges
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Statistical Office of the Republic of Slovenia (SURS)	NSIs have the experience in integrating data and the knowledge of methods, classifications, concepts etc.; rationalization and cost-effectiveness; collaboration with data providers lowers the risks in obtaining adequate data concerning methodologies, concepts, coverage etc.	Willingness of institutions to cooperate; adequate capacities of human resources to take the leading role
Statistical office of Serbia	best knowledge about data management best understanding of benefits of data integration best practice in area	big burden on statistical office lack of staff legislative issues
Republic Srpska Institute of Statistic	possibility of international collaboration wide network of experts natural advantage in domain of the data	to big burden for statistical offices lack of staff lack of resources if coordinating role is not strong enough it is not possible to take this role
Statistics Canada	1)strategic necessity of creating and preserving an ability to innovate statistical programs to respond to emerging needs 2)very real opportunity that international partnerships among statistical offices provide to collaboratively build shared frameworks, systems and standards that can magnify the efficiency gains available to us.	Stronger partnerships with other government organizations, other levels of government, businesses and non-government organizations will be needed to gain access to new data sources and to adapt them to the needs of official statistics.
Departamento Administrativo Nacional de Estadística DANE	There are many advantages that, the National Statistics Offices which integrate different sources of information have; for example, the opportunity, since they do not depend on the performance of operations at certain times of the year, but use the times when administrative records are available, which, in many cases, is more frequent than statistical operations. They also develop higher capacities for the processing, integration and analysis of information, which improves human capital and pro	Quality and truthfulness. As is well known, the NSOs must ensure that the information used as a source and that which is published must have high quality standards, as this also ensures the reliability of the results that are delivered to the countries. It must also face resistance to change, given that it is likely that when applying and appropriating international experiences, the procedures used will change and the personnel who perform these tasks will not be so willing to change.
Stats NZ	- Optimizing the use and re-use of data - Coordinated and coherent strategy - Standard reference populations - Social license already exists with official statistics agencies - Best practice - Encourages standardisation	- Needs partnership and buy-in - Getting engagement from other organisations/agencies across government - Need a mandate - Transparency - Ensuring quality, peer review
National Institute of Statistics and Geography (INEGI for its acronym in spanish)	Reduce budget needed to produce the same kind of data Improve quality in data generation The generation of information through the standardization of processes and they have the requirements of relevance, conceptual solidity, reliability, timeliness, accessibility, comparability, sufficiency and ease of consultation. The use of information is widespread among all public and private institutions to publicize official public.	The coordination between different public and private institutions for the use of information, publication of results and in some cases the lack of cooperation provide their administrative records for the improvement of information. Make agreements among involving different actors with no functional relationships among them
Israel Central Bureau of Statistics	1. National data integration practice are essential for the NSI to fulfil its role of main or only statistical authority allowed to integrate data from different sources, including administrative files from different ministries. 2. Interation data with maps is one of the major input needed for planning regional development programs and following their implementation 3. Micro and macro integration is a corner stone for quality assurance in national accounts.	1. Making sure to provide the NSS members with a win-win situation 2. Harmonization of variables, definitions, geographic report areas 3. Full and standard metadata accompanying any data 4. Overcoming "information is power"
Hungarian Central Statistical Office (HCSO)	Yes. As for official statistics, it is important to have access to any kind of data (also: promptly and free of charge, if possible), if the National Statistical Organisations have a leading role in this, this can also facilitate the integration of these dataset into statistical business processes thus further lowering the administrative burden and increase quality of the statistical information by identifying and using more validation solutions in the statistical business processes	Yes. Once this role assigned to a National Statistical Organisation, the questions of "free or charge?" and "who will have access to this information, the institution only or others as well?", "what about access for scientific purposes". Therefore a real strategy will be needed on day 1 to address these issues. Trust (which is not a legal issue) is also a serious challenge, therefore success stories, case studies are needed to convince both the owner of such datasets and the general public there

Why were the units/functions created?

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Statistical Office of the Republic of Slovenia (SURS)	Unit for data integration carries out operational work by integrating data from heterogenous sources in a way that enables further statistical processing.
Statistical office of Serbia	Formerly, database unit was in charge for data integration, but 2 years ago, we decided to make specifically data integration unit as central unit in our office. Data integration is very important to us, because we based whole production system on putting all data on one platform (relational databases) and that enable for us active metadata system. In this system (IST) we keep on one place all information on data and maintaining that data from data entry to data dissemination.
Statistics Canada	We did this 1) to achieve economies of scale, 2) to professionalize the management of these functions so that the function managers could be charged and challenged to find new and better ways of carrying out their work, and 3) to ensure these resources were focused on our modernization priorities.
Departamento Administrativo Nacional de Estadística DANE	In order to support the institution needs, but, due DANE participate in a lot of intenational initiatives, the Division of Geostatistic assume the led rol and it has had succed in a great number of projects. It includes, develop the methodology to measure the ODS 11.3.1 Ratio of land consumption rate to population growth rate
Stats NZ	- Integrated Data Unit created to manage the operation of the linked data system (IDI), they are a production team, they also manage access to the linked data.
National Institute of Statistics and Geography (INEGI for its acronym in spanish)	To provide to the society and the State with quality, pertinent, truthful and timely information, in order to support national development.
Israel Central Bureau of Statistics	The Israeli government decided on the creation of a unique senior department of Strategic Affairs and Planning in each large government body. The ICBS senior department of Strategic Affairs and Planning will initiate all matters of data integration in order to optimize information based decision making.
Hungarian Central Statistical Office (HCSO)	Not applicable for Hungary.

If other, please describe and/or provide links

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Republic Srpska Institute of Statistic	Database unit deals with all data integration processes
Statistics Canada	All Agency services are consolidated (frame development and maintenance, collection, classification and coding, informatics, methodology, research, communications, etc.) so that any one service is provided in only one organizational entity. There are a few units dedicated to data integration operations such as the Social Data Linkage Environment, the Integrated Business Statistics Program (links provided at end of survey) and the Census Research Program.
National Statistical Service of the Republic of Armenia	There are units dealing with the data integration processes like Business Register, Classifications and Sample surveys, Quality Management and IT Department. The strategy for digitalization of the NSSRA is drafting.
Stats NZ	Operations unit - ID team Strategy unit - AD team for one specific data linking project (IDI) Data integration network - responsible for holding knowledge about data integration methodologies
National Institute of Statistics and Geography (INEGI for its acronym in spanish)	Working groups that integrate people from several units
Hungarian Central Statistical Office (HCSO)	The HCSO does not have a dedicated, specific function/unit for data integration. Data integration is carried out at various department of the institution with the Methodology Department available for methodological support (if needed).