

Final Mission Report
from
LTA Consultant in Economic Statistics
regarding the period

1 January 2008 to 31 August 2017
within the framework of the

**AGREEMENT ON CONSULTING ON
INSTITUTIONAL CAPACITY BUILDING,
ECONOMIC STATISTICS AND RELATED AREAS**

between

INE and Scanstat

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Ref: Contract DARH/2008 /004

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LIST OF ACRONYMUS AND ABBREVIATIONS

BM	Bank of Mozambique
CAP	Agricultural Census
CCAINE	INE Extended Advisory Board
CCRINE	INE Restricted Advisory Board
CSE	High Council of Statistics
DPINE	INE provincial delegations
ENE	National Statistics School
FUE	Business Register
IAES	Annual Business Survey
ICCE	Confidence Index and Economic Climate for Enterprise INE
INE	National Statistics Institute of Mozambique
ODINE	INE delegated institutions contributing to official statistics
ODM	Millennium Development Goals
PAAO	INE Annual Plan of Budgeted Activities
PES	Government Economic and Social plan
PE-SEN	Strategic Plan of SEN
RGPH	Population Census
SADC	Southern African Development Community
SEN	National Statistical System

1 EXECUTIVE SUMMARY

In order to achieve the objectives defined in the Strategic Plan of the SEN 2013-2017, the consulting services by Scanstat in Economic Statistics had as its main lines:

- ✓ To assist INE in the development of its own statistical capacities at the level of the Central and Provincial Services of INE;
- ✓ Design and produce plans, manuals and methodologies of work and training for the production of economic statistics;
- ✓ Assist in specific programs to be carried out by short-term consultants;
- ✓ Carry out other activities that may be defined by INE.

The consultancy focused mainly on issues related to the area of economic statistics and the work was mainly done at:

- The Directorate of Sectoral and Business Statistics (DESE), reporting to the Director in accordance with the matters of this Directorate within the scope of the 2014-2015 Business Census, the Integrated Economic Statistics System (FUE, Surveys and Territorial Statistics) and Short-term Indicators;
- and the Directorate of National Accounts and Global Indicators (DCNIG), to which the consultant should also report, for example on the revision of the Protocol between INE and the Tax Authority (TA), among other things.

2 OUTLINE

Scanstat is a consortium of the Statistical Institutes of Norway, Sweden and Denmark, which has provided consultancy services to INE Mozambique since 2002. The services have been divided into two groups, long-term consultancies (in Economic Statistics and Institutional development) and short-term consultancies in several areas, such as information technology systems, monitoring and evaluation, national accounts, and foreign trade, among others.

This report refers to the activities carried out within the framework of the long-term consultancy in the area of Economic Statistics, summarizing the objectives achieved in the two five-year periods 2008 to 2012 and 2013 to 2017. Then aspects related with follow up and sustainability of the project and finally conclusions and recommendations.

Note that Applied Statistics is a science and therefore always developing. Applied science at the level of official statistics works with methods, methodologies, concepts and definitions based on information technologies that must be robust to guarantee an easy access to data, a consistent data archiving, and provide timely statistical information.

It was the assumptions mentioned above and the reality of the country that guided the consulting work that has been carried out.

3 RESULTS ACHIVIED – THE FIVE-YEAR PERIOD 2008 A 2012

Achieved results are presented by statistical area and five-year period. Although the five-year period from 2008 to 2012 was considered to be the consolidation phase of the Scandinavian Program, when it comes to basic economic statistics this period actually corresponded to the beginning of the implementation of methodologies and statistical methods in accordance with international practices. In the following paragraphs, a brief description will be made by area, the progress achieved, and constraints and in some cases, the needs of assessment, for the five-year period.

3.1 ESTABLISH SYSTEMS FOR ACCESS AND UPDATE OF THE BUSINESS REGISTER (FUE)

BUSINESS REGISTER (FUE)

Progress

During the five-year period referred to above, the FUE was transferred from an Access database to a more robust SQL database. It was also during this five-year period that the Classification of Economic Activities Revision1 CAE Rev1, was converted to Classification of Economic Activities Revision 2, CAE Rev2, in accordance with international recommendations for NACE, for all units of the FUE. The CAE recoding was carried out on the basis of tables of correspondence between the two classifications and also with the aid of an update survey for cases where it was not possible to carry out the conversion through the correspondence tables. During this period, the regular FUE was management and updating of FUE was mainly made on the basis of information from surveys.

A system was developed for updating the FUE via the web and disseminating it to the technicians of the Provincial Delegations of INE and of the local administrations, as part of the training carried out by the Department of Territorial Statistics in collaboration with the Directorate of Sectoral and Business Statistics. A survey regarding new needs was carried out within the framework of the FUE, like the production of interactive tables, indicating the number of companies and main economic variables by sector of activity, as well as the respective maps, for use in the districts. It was also identified a need to update the establishments of the companies, via the Web.

Also within the framework of the FUE, meetings were held with the Registry of Legal Entities, the entity responsible for forming legal entities within the country, as an effort to update the business register (FUE) from this source. Nevertheless, it was obvious that there is still no connection between this entity and other parts of public administration, in particular with INE and the ministries responsible for the granting of permits, due to the inexistence of a unique identifier of the companies in the country.

Constraints

Updating problems, mainly due to the lack of a single identification number for businesses, non-profit institutions and public administration bodies. The FUE support application did not allow the introduction of establishments and all the loading of information had to be carried out manually. When changing the INE server the system for updating the FUE via the web, stopped working.

AGRICULTURAL CENSUS – CAP

Progress

One of the main projects implemented between 2009 and 2011 in the economic area was the agricultural and livestock census. The project was a success at the African level, using the modular methodology of FAO and also the use of minicomputers with validation of information at data entry level, as well as innovative means of information transmission using 3G technologies. For this reason, INE Mozambique has been invited to participate in various seminars and working groups during the years 2010 and 2011 to present the 'Agricultural Census in Mozambique'. The first phase of collecting information from the CAP was held during 2010. In 2011, information was collected on the second phase of production in the entire southern part of the country. The work of the CAP was carried out by a joint team of experts from INE and the Ministry of Agriculture.

The information provided under the CAP was as follows:

- ✓ Characterization of agricultural holdings
- ✓ Demographic data on agricultural holdings
- ✓ Cultures
- ✓ Cullers and coconut trees
- ✓ Fruit trees
- ✓ Aquaculture
- ✓ Livestock
- ✓ Practices and Agricultural services
- ✓ Means of production and infrastructures
- ✓ Labour
- ✓ Food security.

The preliminary data was made available on 18 May 2011. The definitive data were made available on 21 October 2011. The representativeness of the information at the district level was also analysed and information were made available only for data with an acceptable coefficient of variation, within the scope of the publication of Territorial Statistics.

3.2 ESTABLISHING A SOLID SYSTEM OF SURVEYS AND BASIC AND CALCULATED ECONOMIC STATISTICS

MONTHLY SURVEYS

Progress

Monthly surveys were carried out on a regular basis, albeit with a remarkably low response rate. In the area of extractive and manufacturing industries, significant efforts were made to coordinate with the Ministry of Industry and the Ministry of Mineral Resources to take advantage of the information collected by them to fill the gaps in the INE surveys in this area. The Access application for the monthly surveys was revised, especially the part related to online registration and validation of data, in order to allow the registration of companies according to the new classification of economic activities (CAERev2). The applications of the remaining sectors have not been revised and do not include data validation rules. This aspect has had significant implications for the quality of the information available. The data collected and processed in the monthly surveys is used to produce indicators of economic activity (IAE), wage index, hours worked and trade volumes.

Constraints

Low response rate and outdated sample frames, due to the fact that FUE is not up to date.

Needs for next five-year period

Create mechanisms to increase the response rate and review the applications of the remaining sectors in order to allow the introduction of CAE Rev 2 that has been in force since 2008, as well as the validation of the data introduced. In addition to the aforementioned aspects, there is still a need to:

- ✓ Clean up the database of the Monthly Survey on Industrial Production and carry out recalculation of the indices;
- ✓ Review the applications for the monthly surveys of Transport, Commerce and Services, Accommodation and Restoration, in order to allow the classification of companies in CAERev2 and validation of data entry.

SHORT TERM INDICATORS

Production Industrial Index

Progress

The AIC application (application for the index calculation) was developed by INE Portugal, for the calculation of Indices of Economic Activity in Industry (IAEI), Industrial Production Index (IPI) and Industrial Production Price Indexes (IPPI). The application, in addition to calculating the Industrial Production Index (IPI) and the Industrial Products Price Index (IPPI), also allows the processing of non-responses. At the end of 2012, the 1st draft version of the IAEI, IPI and IPPI quarterly publication was available in CAE Rev 2, according to international methodologies and standards.

Constraints

Low response rate of monthly surveys.

CONFIDENCE INDEX AND ECONOMIC CLIMATE FOR ENTERPRISE

Progress

The monthly publication of confidence indexes and economic climate was made available for the first time in 2008, based on year 2004. Since then it has been made available monthly in a systematic way.

Constraints

The application did not allow registration in CAERev2.

ANNUAL BUSINESS SURVEY (IAES), 2008 TO 2010

Progress

The sample was chosen probabilistically. The tables of tabulation and dissemination were reviewed. Following this review, the publication now has a wide range of macroeconomic indicators for companies, including employment indicators, production indicators and management indicators.

Constraints

Low response rate.

Needs for next five-year period

Continue the contacts with the Tax Authority in order to use tax information to compile all or part of the business statistics.

FOREIGN TRADE STATISTICS

Progress

During the five-year period, several short-term consultancies were held in the area of Foreign Trade statistics. The main objective of these missions was to assist the INE technicians in the area in the use of the software developed in SPSS for the treatment of the basic information used in these statistics, namely the information on imports and exports coming from the General Directorate of the Customs, which currently is received by INE with a monthly frequency and the information from other external sources received through the Banco of Mozambique. In the last mission of the five-year period 2008 -2012, the main objective was to introduce the possibility of producing a Press Release from the SPSS program, according to a pre-established schedule for making information available on the internet, quarterly at the beginning and monthly thereafter. At the same

time, INE developed several contacts with the main export/import companies in order to directly obtain the necessary information. The Foreign Trade Working Group held monthly meetings and training sessions with customs brokers and customs offices.

Constraints

Although the program in SPSS was already consolidated, there were still problems in the use of the program, since the technician who was working in the area for a long time did not have a computer with the adequate capacity to run the program and the respective calculations.

NATIONAL ACCOUNTS

Progress

During the five-year period, several short-term missions were held to support the NADABAS (National Accounts Database), as well as support for the revision of the base year of the National Accounts and retropolation of the series. In the scope of these missions, the data of the Agricultural Census and the Annual Business Survey were analysed for the change of the base year in the National Accounts, among other things.

3.3 CONCEIVE AND PRODUCE PLANS, MANUALS AND WORK AND TRAINING METHODOLOGIES, AND ORIENTATE SEMINARS AND TRAINING PROGRAMMES

STRATEGIC PLAN OF SEN 2013-2017 – PE SEN 2013-2017

Progress

In the framework of the PE-SEN 2013-2017, the following activities were done:

- ✓ Consultations with INE Delegated and Public Administration Institutions to assess the degree of implementation of the 2008-2012 Strategic Plan, perspectives for the next SEN Strategic Plan and inquire about the existence of sectoral Strategic Plans;
- ✓ Structure and content of the Strategic Plan 2013-2017;
- ✓ Planning Meeting with INE (ODINE), Tax Authority, Confederation of Economic Associations of Mozambique (CTA), cooperation partners, among others, to present and discuss the main aspects of PE-SEN 2013-2017.

The strategic plan, PE-SEN-2013-2017, was completed in early January 2013.

METHODOLOGY AND SAMPLING DESIGN

Progress

Good practice manuals were developed for all monthly surveys. These manuals are not only a methodological guide but also as a practical guide to the activities to be carried out within the framework of the monthly surveys.

Samples of company surveys were systematically selected from the EUF during the five-year period under review. In 2010, new samples were redesigned and selected for the monthly surveys, which ensured representativeness in terms of the new classification of economic activities (CAERev 2). These samples were adjusted in early 2011.

Constraints

The fact that the FUE, if outdated, leads to the fact that the samples did not have the necessary quality, although INE was following the correct probabilistic selection methodology,

Needs for next five year period

Update the FUE, redesign and select new samples.

3.4 USE OF ADMINISTRATIVE SOURCES AND INTERINSTITUTIONAL COORDINATION FOR STATISTICAL PURPOSES

Progress

The use of administrative sources for statistical purposes was a constant concern in the work developed by INE in the economic area. However, due to some inefficiency that still exists at the level of the administration or the lack of human or computer resources, the process has not advanced as fast as the desirable. Nevertheless, progress has been made in particular with regard to the use of tax information for the updating of the Business register (FUE) and for use by the National Accounts.

When it comes to the use of administrative information for statistical purposes, a protocol was signed at the end of 2010 between the National Statistical Institute and the Tax Authority to share information within the statistical and taxation and customs areas. The following areas and lines were considered as collaboration priorities:

- ✓ Sharing statistical information on contributions and taxes;
- ✓ Provision of data on customs import and export declarations for the purpose of calculating international trade statistics;
- ✓ Availability of data on macroeconomic indicators, namely Gross Domestic Product, Consumer Price Index, Production by Activity Branch; Availability of data on Population and social indicators;
- ✓ Availability of Sectoral Statistics data;

- ✓ Provide information on surveys and censuses, including Non-Profit Institutions (ISFL), Informal Sector (INFOR), Work Force (IFTRAB), Household Budgets (IOF), Demographic and Health (IDS) , Questionnaire on Basic Welfare Indicators (QUIBB);
- ✓ Availability of information on Census of Population and Housing and Agro-Livestock.

Constraints

The protocol had some concrete problems, namely regarding the share of information on the Annual Statement of Accounting and Tax Information, since INE only had access to the information referred to, without identification of the taxpayer. This made it difficult for the INE to appropriate the information, alleging that it was not possible to make it available with a taxpayer identification format due to fiscal confidentiality. However, taking advantage of the experience of other countries, in particular the case of Portugal, to overcome this problem, a Working Group was established to analyse the possibility of creating a Decree-Law that would find a legal framework that would allow companies to comply in a single act, a set of legal obligations which were currently dispersed and where it was necessary to provide material information identical to different bodies and in different ways and thus enable tax information to be used also for purely statistical purposes.

Within the framework of this working group, efforts were made to further articulate the Registry of Legal Entities (CREL), the Tax Authority (TA) and the INE.

Needs for next five year period

Continuation of work with the Tax Authority with a view to drawing up a Decree-Law for the collection of Simplified Business Information, or a protocol allowing the efficient sharing of the necessary data for statistical purposes.

3.5 PARTICIPATION IN MEETINGS/SEMINARS OR WORKING GROUPS

As part of the consultancy services, the consultant participated in the following meetings and seminars:

- ✓ CCRINE- The INE Restricted Coordinating Council;
- ✓ CCAINE- The INE Extended Coordinating Council;
- ✓ INE , Tax Authority and Bank of Mozambique Foreign trade Working Group;
- ✓ Visits to INE Portugal, within the scope of the Short Term Indicators project.

During the five-year period, work visits were made to the provincial delegations of INE, namely Niassa, Nampula, Cabo Delgado, Tete, Inhambane and Maputo Province.

The purpose of the visits consisted in identifying the main constraints in each area and together with the delegation technicians try to find solutions to the problems. It was found that the delegations generally had the following constraints:

- ✓ The staff needs to be reinforced with specialized technicians in all areas and the need to give training in the activities they develop;
- ✓ The need for training for DPINE staff in matters such as the framework of statistical activity, SEN, concepts and nomenclatures, basic statistical concepts, user-oriented computing;

It was felt that in the course of the various visits, it was necessary to monitor and demand the central services in order to obtain results in the province, as well as a strong and effective leadership within the provincial delegations.

4 RESULTS ACHIVIED - PHASING OUT 2013-2017

The consultancy during the five-year period from 2013 to 2017 followed up the work carried out in the area of Economic Statistics during the five-year period 2008-2012, with a focus on consolidating the work previously developed and implementing an Integrated System of Economic Statistics for construction and maintenance of robust solutions regarding information and communication systems and technologies to collect, share, access and disseminate statistical information, based on a database and Internet management architecture, based on the Generic Statistical Business Process Model (GSBPM) model.

4.1 ESTABLISHING SYSTEM FOR ACCESS AND UPDATING OF BUSINESS REGISTER

With regard to this point and in accordance with the strategic plan, PESEN 2013-2017, the implementation of CEMPRE was considered as one of the priority activities to be carried out during the five-year period under review.

CEMPRE

Progress

CEMPRE is the largest statistical data collection operation in the business sector in Mozambique. It provides information on the number of geographically distributed productive entities (national, rural, urban, provincial, district, by locality, etc.) to the lowest possible level of disaggregation, information disseminated by thematic areas around the variables investigated (sector of economic activity, legal form, number of workers employed, turnover, among other characteristics).

CEMPRE is the main source of basic data for the development of a statistical framework to serve as a sampling basis for designing and conducting surveys to measure other dynamic variables not covered by the census and to explore other economic aspects. It has contributed to the establishment of the infrastructure of the National Enterprise and Accounts Statistics System, in particular the FUE, as the FUE is the only statistical source for the drawing of samples used in current surveys, through which relevant information is collected for the calculation of gross domestic product (GDP). It also provides information relevant to the change in the base year of National Accounts.

The training for CEMPRE in the Southern Zone, corresponding to the provinces of Maputo City, Maputo Province, Gaza and Inhambane, ran from November 24 to December 20, 2014. Data collection in the Southern Zone began on 22 September 2015 and ended on February 26, 2016. The training for the Center and Northern Zone took place in Manica between April 18 and May 13, 2016, with the start of collection on May 23 and the

end on October 30, 2016. Subsequently, collection work was carried out by provincial delegations to improve the census coverage rate.

Data analysis was performed in 3 steps (1st validation step - performed at the collection, 2nd validation step - online validation, 3rd step - coverage and consistency analysis).

A number of activities were carried out within the framework of CEMPRE, namely the preparation of Manuals (of the Census, Controller, Operations and Logistics, Cartography), design of questionnaires for Companies, Non-Profit Institutions, Public Administration Organizations and respective establishments);Preparation of the technical specifications of the computer application for the collection, processing and analysis of information; Application design for data collection in the field with tablets and fill, OnLine; Construction of the back office system to control fieldwork and analysis of information; Implementation of the tabulation plan and validation rules; Training of enumerators in the South; Data collection South Zone; Training of enumerators in the Central and Northern Zone; Central and Northern Zone data collection and processing and analysis of business data.

The application for data collection, processing and analysis of CEMPRE was organized according to the scheme:

Data collection – CEMPRE off line

- Data collection in the field by the enumerators - carried out on tablets and synchronized to the controller via Bluetooth;
- Sending the data of the controllers' questionnaires to the INE server.

Data validation, cleaning, analysis and dissemination - CEMPRE on line

The analysis of the CEMPRE data in the online validation queues ended in the 2nd week of February 2017. The overall analysis of company data and the respective publication was completed in April 2017. At present, NPIs and respective establishments. The analysis included coverage analysis, data coherence analysis, and clearing and imputation of missing information. The brochure, with the main CEMPRE data, was completed in April 2017. CEMPRE, in addition to the census of companies and public administration, also included the non-profit institutions census (CINSFLU). The CINSFLU data were collected in parallel with the CEMPRE data, but will be made available later, since the priority was to analyse the CEMPRE for the loading into the FUE.

BUSINESS REGISTER (FUE)

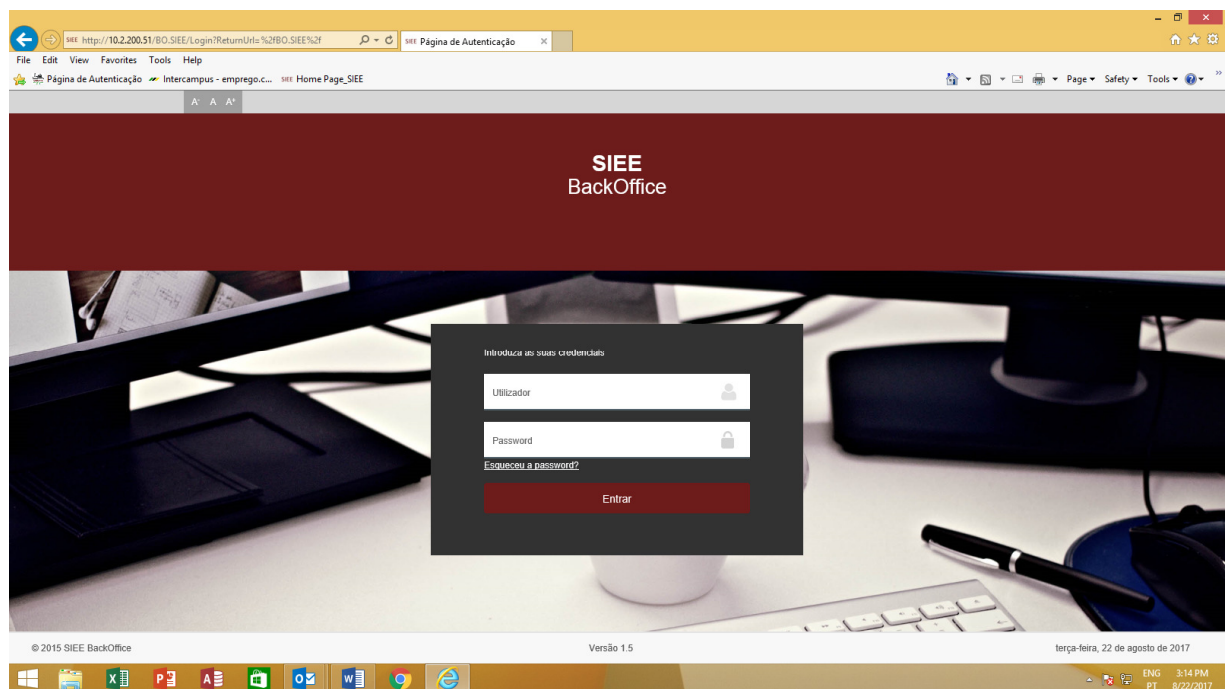
The Business Register is an instrument for the coordination and harmonization of statistical activity in the area of companies. The coordination of the FUE is based on a common conceptual model at the international level. The coordination exercised by this instrument is essential in statistical surveys, in particular in the construction

of sampling bases. The FUE is currently a central part of a more comprehensive system, the Integrated Economic Statistics System (SIEE).

Progress

The creation of the FUE was based on international concepts and methods set out in the publication Guidelines for Building Statistical Business Registers for Africa, edited by the African Development Bank. The loading of companies is being phased for July and August 2017, after the constraints related to the infrastructure for the central hosting of the application of the Integrated System in CEDSIF were overcome. In the framework of the FUE, the methodological activities were executed related to the elaboration of the specifications of the FUE, the Back office and Front office (CER_SIEEBO and CER_SIEEFO), the definition of validation rules and plans for analysis and dissemination of information were also carried out. The application of the FUE Back Office and Front Office for testing and was made available as well as the production version through the following link:

<http://10.2.200.51/BO.SIEE/>



4.1 ESTABLISHING A SOLID SYSTEM OF SURVEYS AND BASIC AND CALCULATED ECONOMIC STATISTICS

MONTHLY SURVEYS

Progress

During the five-year period in question, a thorough review, analysis and validation of the data was carried out to begin the publication of a series of indices based on 2011 and CAERev2 (Classification of economic activities currently in force in Mozambique). The cleaning of databases in current applications has been a rather time-consuming task, mainly because the applications do not have validation rules. The data collected in the monthly surveys, as already mentioned above mainly serve to produce the Monthly Economic Activity Indexes. The Economic Activity indexes consist of:

- ✓ Turnover Index
- ✓ Business Volume Index
- ✓ Index of Employment
- ✓ Index of hours worked

The applications for calculating service indexes (AICs) developed by INE Portugal have been made available in definitive form and are already being used. On-the-job training was carried out with the users of the monthly surveys and subsequently several other training sessions extended to all technicians.

SHORT TERM INDICATORS

Progress

During the five-year period in question, the Economic Activity Index in CAERev1 with base 2004 = 100 were made available. However, following the data cleansing work, the first edition of the publication of the Global Indicators of Economic Activity, Employment, Wages and Working Hours was completed in the meantime, based on 100 in 2011 and CAERev2. The index series from 2011 to 2016 are available in the 1st version of the publication.

ANNUAL BUSINESS SURVEY (IAES), 2011 TO 2014

Progress

The sample was chosen probabilistically. The tables of tabulation and dissemination were reviewed. Following this review, the publication has a wide range of macroeconomic indicators for companies, including employment indicators, production indicators and management indicators.

Constraints

Low response rate.

Needs for next five year period

Continue contacts with the Tax Authority, in order to use tax information to compile all or part of the company statistics

FOREIGN TRADE STATISTICS

Progress

During the five-year period, short-term consultancies continued in the area of Foreign Trade statistics. The consultant made significant improvements to the program for the determination of foreign trade statistics, developed in SPSS, for the treatment of information from the database from MCNET (serving the customs) and the General Directorate of Customs, which is currently being received by INE on a monthly basis. Information from external sources received from the Bank of Mozambique also continues to make part of the data sources of external trade statistics. Information on external sources is received on a quarterly basis but sometimes with some delays, which puts pressure on the timing of processing and the timely provisioning of quarterly External Trade Statistics. The computer constraints have been overcome, and today the technicians in the area have computers with memory capacity that allow them to run the program without limitations.

Constraints

There is a need to carry out a coverage study, especially with regard to imports.

NATIONAL ACCOUNTS

Progress

During the five-year period, the short-term missions carried out by consultants Jan Redeby and Søren Netterstrøm continued. The aspects of SNA 2008 to be implemented in the National Accounts were identified and listed. The IOF 2014/2015, the CEMPRE 2014/2015, the annual business survey 2014 and other data sources were analysed. Work on revising the National Accounts is under way.

TERRITORIAL STATISTICS

Progress

Territorial Statistics were integrated into the SIEE, nevertheless they continue to function as an aggregated information collection system. It is foreseen that the data collection will be done in the district and will be subject to successive approvals at district, provincial and national level. The Requirements Specification Booklet (CER) and Manuals, from the Territorial Statistics Module, are available. A process of preparing the methodological document was started.

Constraints

The Territorial Statistics System is available in the production version, but lacks improvements that are already inventoried (see Document in Annex 2).

A significant constraint is the fact that a test area of the Territorial Statistics system has not yet been established, which makes training and practice in the use of the system impossible. A significant constraint is also that work committees or an efficient and effective coordination mechanism to regulate communication between the different actors (internal and external sectors with a view to Different territorial levels) have not yet been established.

4.2 CONCEIVE AND PRODUCE PLANS, MANUALS AND WORK AND TRAINING METHODOLOGIES AND ORIENTATE SEMINARS AND TRAINING PROGRAMMES

The documentation of statistical systems, methods and operations is crucial for an institution such as INE, as it helps preserve institutional memory and contributes to the training of its staff. Requirements specification sheets and methodological documents for statistical operations are a part of this documentation.

DOCUMENTATION OF REQUIREMENTS SPECIFICATIONS (CER)

Progress

The specification notebooks for methodological and technical requirements of the Integrated System of Economic Statistics (SIEE) are available, namely:

- ✓ CER – FUE Public and Private portal ;
- ✓ CER – FUE Back Office;
- ✓ CER – Monthly surveys;
- ✓ CER – Annual Survey;
- ✓ CER – Territorial Statistics;
- ✓ CER- Technical specifications.

These documents are essential for understanding the integrated system.

In addition to the CER, the following documents were prepared:

- ✓ CEMPRE methodological document, according to the standard methodological document of SEN;
- ✓ CEMPRE Master Plan;
- ✓ Manuals of CEMPRE (interviewer, controller, operations and logistics, etc);
- ✓ Application validation rules for CEMPRE, FUE, Monthly and annual surveys;

- ✓ Draft of FUE methodological document;
- ✓ Manuals of the Integrated System of Economic Statistics (ancillary to the understanding and manipulation of SIEE).

4.3 USE OF ADMINISTRATIVE SOURCES AND INTERINSTITUTIONAL COORDINATION FOR STATISTICAL PURPOSES

There are still problems accessing tax information from the Tax Authority. The protocol signed in 2010 did not solve the problem, since it does not allow the access to identified and individualized information to compile the national Accounts.

The Draft Decree - Law on the sharing of statistical tax and customs information, was finalized in 2014 and sent to the Office of the Attorney General, was returned to AT, with an unfavourable opinion regarding the type of instrument that was intended to be used To access information related to the Company's Balance Sheets and Profit and Loss Statement.

In 2015 there was no development on the subject regarding access to tax information for statistical purposes. Despite this interinstitutional coordination was reinforced in 2015, CEMPRE's activities included participation and involvement in the training of census interviewers, technicians from the Tax Authority (TA), the Registry of Legal Entities (CREL), the Institute (IPEME), the Ministry of Culture and Tourism (MICULTUR), and the Ministry of Industry and Commerce (MIC).

This participation, contributed not only to the strengthening of interinstitutional relations but also to improving the understanding of the Doing Business procedures in Mozambique and making better use of administrative information for statistical purposes.

It was reassessed which instrument was adequate to allow access to tax information in an individualized and non-anonymized form was possible by INE. During the second semester of 2016 meetings with Tax Administration (TA) were resumed with the purpose of elaborating a specific Protocol for the sharing. As well as to revise the version of the protocol established in 2010, so that the constraints placed on access to tax information would be eliminated.

Weekly meetings were done, in which I have participate with the following agenda:

- ✓ Elaboration of the specific protocol for sharing data between INE and Tax Authority;
- ✓ Annual Plan, that will support the protocol activities;
- ✓ Activity Report , 2015 and 2016.

The final version of the protocol was completed in May 2017. The signing and implementation of this protocol will be a significant step in rationalizing and harnessing administrative information for statistical purposes, leading to an unprecedented improvement in the quality of economic and financial indicators of companies and As well as to a timely availability of this information and also to a significant improvement of the National Accounts, both in terms of coverage and in terms of the quality and timing of availability. In this context,

Mozambique would be one of the pioneer countries in Africa, in the extensive use of tax information for statistical purposes.

4.4 PARTICIPATION IN MEETINGS /SEMINARS OR WORKING GROUPS

As part of the consultancy services, the consultant continued to participate in the following meetings:

- ✓ CCRINE- INE Restricted Coordinating Council
- ✓ CCAINE- INE Extended Coordinating Council
- ✓ Working Group INE, Tax Authority and Bank of Mozambique
- ✓ Working Group for the Review of Legislation of INE/SEN
- ✓ Working group to elaborate the protocol with National Security Office (INSS)

5 FOLLOW UP AND SUSTAINABILITY

5.1 ESTABLISH SYSTEMS FOR ACCESS AND UPDATE OF THE BUSINESS REGISTER (FUE)

INTEGRATED SYSTEM OF ECONOMIC STATISTICS (SIEE)

The Integrated System of Economic Statistics aims to respond to the needs of statistical production processes, from collecting to disseminating data on a common, modern platform, according to standards, concepts and nomenclatures that allow harmonization and national and international comparability. Its use by INE, by all the organs of the SEN, as well as by the various entities of the Public Administration. It should be noted that all components of the system were developed based on GSBPM (Requirements Specification, Design and Planning, Construction and Testing, Data Collection, Processing and Analysis, Dissemination, Quality Control) and its Modernization project of INE and SEN. As well as according to the Guidelines for Business Files in Africa (GUIDELINES FOR BUILDING STATISTICAL BUSINESS REGISTERS IN AFRICA, Michael Colledge, AfDB 2014).

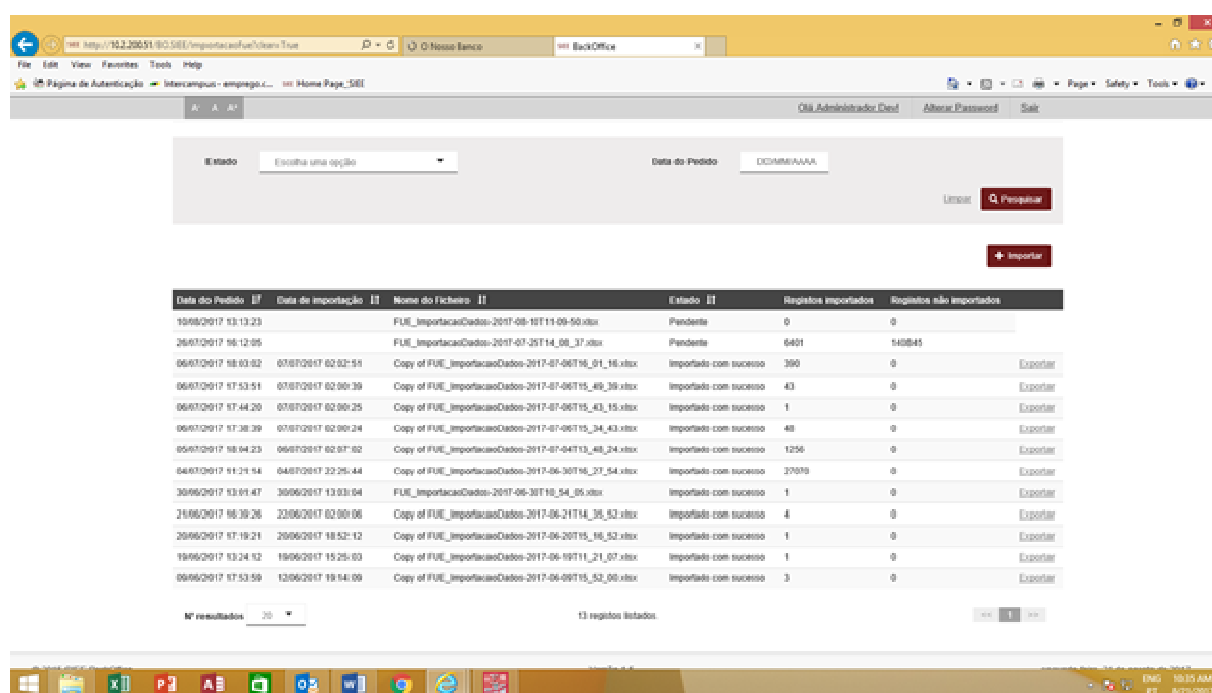
The system currently consists of the following modules:

- SIEE – Module FUE Public and Private Portal (Front Office);
- SIEE – FUE – Back office Module;
- SIEE- Monthly and Annual surveys Module;
- SIEE – Territorial Statistics (ET) Module.

BUSINESS REGISTER - FUE

The system is currently made up of the following modules: Integrated Economic Statistical System, FUE Front Office Module and Back Office, was made available in production version, at the end of December 2016. Adjustments were made during the first quarter of 2017, however there are still aspects that have been inventoried and have not been implemented. There is a need to implement these aspects in order for the FUE to function properly (see Annex 1).

In July the loading of the FUE was started in the enterprises component, the current situation is the following:



The screenshot shows a web application interface for the FUE Business Register. At the top, there is a navigation bar with the user's name 'Oli Administrador' and a 'Sair' button. Below this, there is a search area with a dropdown for 'Estado' (set to 'Escolha uma opção'), a text input for 'Data do Pedido' (set to 'XXXX-XX-XX'), and buttons for 'Limpar' and 'Pesquisar'. A red 'Importar' button is also visible. The main content area displays a table with the following columns: 'Data do Pedido', 'Data de importação', 'Nome do Ficheiro', 'Estado', 'Registos importados', and 'Registos não importados'. The table contains 13 rows of data, with the first two rows showing 'Pendente' status and the remaining 11 rows showing 'Importado com sucesso'. At the bottom of the table, it indicates '13 registos listados' and 'Nº resultados: 20'.

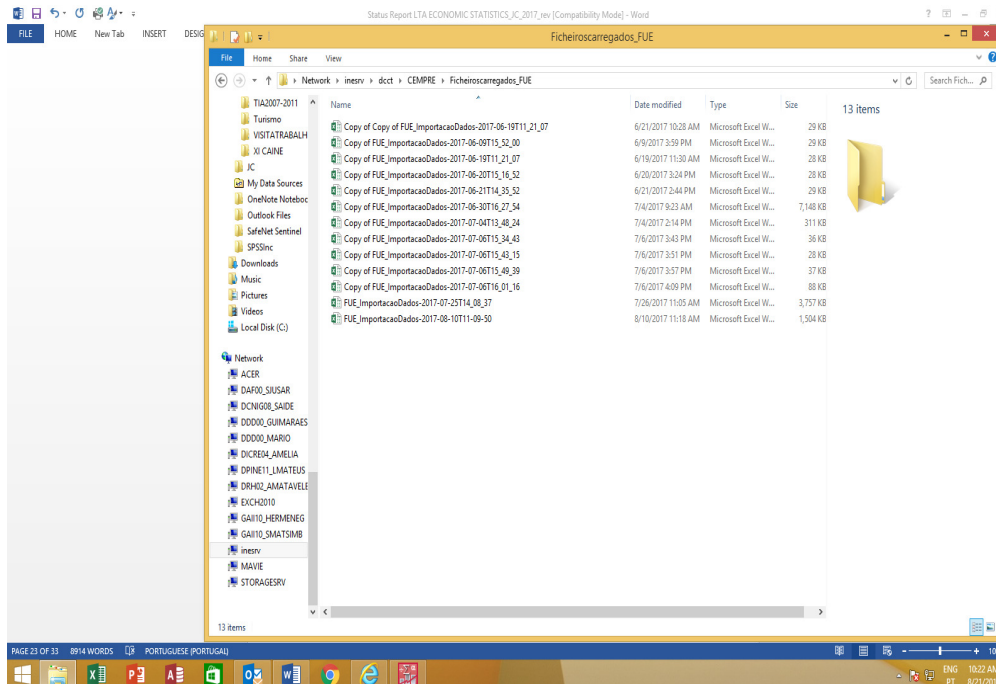
Data do Pedido	Data de importação	Nome do Ficheiro	Estado	Registos importados	Registos não importados
19/06/2017 13:13:23		FUE_importacaoDados-2017-06-19T13-09-50.xlsx	Pendente	0	0
26/07/2017 16:12:05		FUE_importacaoDados-2017-07-25T14-08-37.xlsx	Pendente	6401	140845
06/07/2017 18:03:02	07/07/2017 02:02:51	Copy of FUE_importacaoDados-2017-07-06T16-01-16.xlsx	Importado com sucesso	390	0
06/07/2017 17:53:51	07/07/2017 02:00:39	Copy of FUE_importacaoDados-2017-07-06T15-48-39.xlsx	Importado com sucesso	43	0
06/07/2017 17:44:20	07/07/2017 02:00:25	Copy of FUE_importacaoDados-2017-07-06T15-43-15.xlsx	Importado com sucesso	1	0
06/07/2017 17:38:39	07/07/2017 02:00:24	Copy of FUE_importacaoDados-2017-07-06T15-34-43.xlsx	Importado com sucesso	48	0
06/07/2017 18:04:23	06/07/2017 02:07:02	Copy of FUE_importacaoDados-2017-07-04T13-48-34.xlsx	Importado com sucesso	1256	0
04/07/2017 11:21:14	04/07/2017 22:25:44	Copy of FUE_importacaoDados-2017-06-30T16-27-54.xlsx	Importado com sucesso	37019	0
30/06/2017 13:01:47	30/06/2017 13:03:04	FUE_importacaoDados-2017-06-30T16-54-05.xlsx	Importado com sucesso	1	0
21/06/2017 16:39:26	23/06/2017 02:00:06	Copy of FUE_importacaoDados-2017-06-21T14-38-52.xlsx	Importado com sucesso	4	0
20/06/2017 17:19:21	20/06/2017 18:52:12	Copy of FUE_importacaoDados-2017-06-20T15-16-52.xlsx	Importado com sucesso	1	0
19/06/2017 13:24:12	19/06/2017 15:25:03	Copy of FUE_importacaoDados-2017-06-19T11-21-07.xlsx	Importado com sucesso	1	0
09/06/2017 17:53:59	12/06/2017 18:14:09	Copy of FUE_importacaoDados-2017-06-09T15-52-06.xlsx	Importado com sucesso	3	0

To be noted that the above situation status can be seen directly in the application SIEE.

The FUE uploaded files, nevertheless the last one is still waiting to be processed, due to 'job' problems.

We have tried to upload the file again, but the job is still pending. We are waiting the resolution of the problem by DISI (IT Department) or Nova Base. Only after the correction of the job problem FUE Staff will be able to upload the missing units.

The upload files are also available at INE server, as it can be seen below.



There is a need to load the missing companies as well as non-profit institutions and their establishments. This work should be carried out by the FUE technicians with the proper supervision of the DISI technicians. It is recommended that work be carried out with the following priority:

- i. Finalize loading of enterprises and the list of their establishments list ;
- ii. Loading Non Profit Institutions Units and their establishments list;
- iii. Loading the establishments of enterprises;
- iv. Loading the establishments of the Non Profit Institutions (ISFL).

In order the load can be carried out successfully, it is necessary to take into account the mandatory fields as well as the formatting and description of the variables.

It should be noted that fictitious Single Tax Identification Numbers (NUIT) were created, since NUIT is a mandatory field in the FUE and during the work of collecting data in the CEMPRE, there were many companies that did not provide NUIT. These fictitious NUIT should be replaced as soon as possible, possibly with a survey to update the FUE, as the process of identifying NUITs through the TA file is complex due to the large number of entities, mainly businessmen on behalf of Individual, with the same name. In order for the provincial delegations of the INE and the delegated bodies to be able to update the FUE, they need training.

This application has a platform in Front office, or is visible to the external users of the system, consisting of a

public portal and a private portal that requires a login and a back office platform, accessible to INE and DPINE, Depending on user profile. The EUF functions as the central body of the integrated system of economic statistics.

At present the SIEE is hosted in CEDSIF, which requires attention by DISI in relation to any changes that CEDSIF may make.

The system is scalable, so if it is considered relevant, new modules can be developed and linked to the SIEE. An example of this is the application of a Certificate of Discharge that was developed by INE Portugal works connected through 'views' to the SIEE.

For further details on the operation of the SIEE FUE Module, please consult the draft of the methodological document, the application CER, the technical CER, as well as the manuals prepared by NOVA BASE.

STATISTICAL CERTIFICATE MOZAMBIQUE

As mentioned in the previous paragraph, an application was developed by INE Portugal, which allows the issuance of the certificate of statistical discharge.

The application considers three decisive phases in the production of this document: request, emission and printing. The request for document is made by the requesting company; the issuance and printing are made by the INE after verification of the company's situation. These phases may or may not occur in one geographical location. This means that a request can be made at any provincial delegation, but if the company has its registered office in another province, it checks the statistical compliance and issues the certificate (certification of compliance with statistical obligations). The printing is done at the order location. The application allows that a request in a provincial delegation A is generated an alert for the provincial delegation B, where the company is based, which issues the certificate. This issue generates an alert in the Provincial Delegation A, where the request was made, which prints and signs the certificate thus finalizing the request of the applicant. The application also allows the printing of a 2nd copy of the original document, provided the certificate has already been issued.

The application must be installed in DPINE so that it can be used. For more details on the operation of the application, refer to the manual of the application.

In addition to DPINE, it is also necessary to train in companies, business associations, NPIs, delegated bodies and other entities of the Public Administration, to take advantage of the synergies that the system provides.

5.2 ESTABLISHING A SOLID SYSTEM OF SURVEYS AND BASIC AND CALCULATED ECONOMIC STATISTICS

MONTHLY SURVEYS

The transition to the new application (SIEE - Surveys Module) is urgently needed in order to improve the quality and timeliness of the information recorded.

In order to be able to use the SIEE Module in its fullness, it is necessary that NOVA BASE corrects the aspects that were registered in April 2017 (see Attachment 1).

For the sustainability of the project it is important to have a contract for maintenance of the application, which allows for correction of the aspects corresponding to improvements already recorded and new improvements, as the application goes into production.

It is also necessary to train the DPINE staff, on the methodologies and use of the SIEE, so that it can be used by all, thus guaranteeing its full utilization.

SHORT TERM INDICATORS

The publication on Global Indicators of Economic Activity is finalized. The publication, in addition to the Economic Activity Indicator, also has the Global Employment Indicator, the Global Remuneration Indicator and the Global Hours Indicator, with a series of data from January 2011 to December 2016.

The new series introduces developments in statistical information on economic activity in line with international standards and in accordance with the Classification of Economic Activities Rev2. The series introduces, in addition to the Economic Activity Indicator, Global Employment Indicators, Remunerations and Hours worked.

The publication referred to should replace the publication of the IAE and its monthly availability should start as soon as possible.

ANNUAL BUSINESS SURVEY (IAES)

In order to improve the response rate, the protocol with the TA should come into force as soon as possible. The entry into force of the protocol will require the new methodology of partial data collection to complete the information obtained via TA. New routines for the production of economic and financial indicators of companies will have to be implemented. The SIEE - Surveys should be used to collect and record the data. The

processes of changing sources and collection and clearance media take some time to be implemented and after its implementation there is a need to establish new routines in statistical production.

FOREIGN TRADE STATISTICS

Meetings of the External Trade Statistics Working Group should continue to be held, at least on a quarterly basis.

NATIONAL ACCOUNTS

The revision of the base year of National Accounts is under way. The analysis of the CEMPRE data for appropriation by the National Accounts has already been carried out. The analysis of CINSFLU data follows. The NADABAS project should continue to receive support from the consultant when necessary. Regarding the quarterly National Accounts it is urgent to review the calculation system, after reviewing the base year.

TERRITORIAL STATISTICS

Territorial Statistics system was developed to act as a driver of the modernization process of INE and SEN. For this to happen, it is necessary to invest heavily in training for its use, as well as in training in statistical infrastructure, at the level of classifications, concepts and nomenclatures, as well as sampling techniques, indexes and techniques of data analysis.

Within this module, a preliminary district data publication will be made available, followed by a definitive, nationally approved district data publication. Territorial Statistics will allow the availability of timely information for the Economic and Social Plan.

The SIEE-ET platform still needs improvements in order to be fully utilized by INE and SEN.

For the success of this SIEE module, it is essential to have a strong coordination among all the stakeholders, focusing on the updating of the indicators to be collected and their flow. It is considered important that this project will provide data with consolidated provincial and national aggregation from administrative sources or surveys. Territorial Statistics should address the needs of the Sustainable Development Objectives (ODS). In future, provision should be made for the possibility of collecting / registering data at the level of the Administrative Post.

5.3 CONCEIVE AND PRODUCE PLANS, MANUALS AND WORK TRAINING METHODOLOGIES, AND ORIENTATE SEMINARS AND TRAINING PROGRAMS

To provide training in the provincial delegations of INE and the delegated bodies so that they can work with the SIEE.

DISI technicians should create and manage user profiles at central, provincial level, carefully read the Requirements Specification Manuals (CERs) of each SIEE module. The CERs were made available to all DESE technicians and to DISI technicians. In addition to the CER were elaborated Help Manuals to the handling of each one of the modules of the application. Read, whenever necessary, the SIEE Technical Requirements Specification Notebooks. They were made available to DESE application managers and DISI technicians.

6 CONCLUSIONS AND RECOMMENDATIONS

The progress made by INE Mozambique in these 10 years is good but there is still a long way to go, which is natural in an institution with a markedly scientific character.

The strategic lines of the PE-SEN 2013-2017 are oriented and aligned with the national development agenda. The implementation of the PE-SEN 2013-2017 was considered a high priority by the Government and cooperation partners.

In general, the results foreseen in the plan were achieved, with the economic area being the Census of Companies, development and implementation of a new Statistical Units (FUE) file, as well as the Integrated System of Economic Statistics.

It is necessary to continue investing in the training and development of skills in the statistical area and at the level of information technologies. There are areas that still need special attention, namely the stratified sampling techniques, techniques for the treatment of non-response, treatment of statistical secrecy, programming in SQL, among others.

The coordination aspect should be strengthened, both internally and at the level of the delegate bodies of the INE (ODINE). The planning and especially the cost control / budgeting part should be improved. The effective control and management of INE's budget involves the delegation of powers to Directors and heads of Department.

6.1 ESTABLISH SYSTEM FOR ACCESS AND UPDATE MECHANISMS OF THE BUSINESS REGISTER (FUE)

INTGRATED SYSTEM OF ECONOMIC STATISTICS - FUE

The Integrated System of Economic Statistics aims to respond to the needs of statistical production processes, from collecting to disseminating data on a common, modern platform, according to standards, concepts and nomenclatures that allow harmonization and national and international comparability. It is used by INE, by all the delegated bodies of the SEN, as well as by the various entities of the Public Administration. It should be noted that all components of the system were developed based on GSBPM (Requirements Specification, Design and Planning, Construction and Testing, Data Collection, Processing and Analysis, Dissemination, Quality Control) and its Modernization project of INE and SEN. As well as according to the Guidelines for Business Files in Africa (GUIDELINES FOR BUILDING STATISTICAL BUSINESS REGISTERS IN AFRICA, Michael Colledge, AfDB 2014).

The system currently consists of the following modules:

- SIEE – Module FUE Public and Private Portal (Front Office);
- SIEE – Module FUE – Back office;

DISI technicians were not trained enough to make any changes / improvements to the application. The training of DISI technicians should be seriously considered so that they can support SIEE in all its aspects, whether in the area of changes, improvements or even the introduction of new modules.

RECOMENDATIONS:

- Upload the missing companies, as well as non-profit institutions and their establishments. This work should be carried out by the FUE technicians with the proper supervision of the DISI staff (IT technicians).

It is recommended that work should be carried out with the following priority:

- a. Finalize loading of enterprises and their establishments list;
 - b. Loading Non Profit Institutions Units and their establishments list;
 - c. Loading the establishments of enterprises;
 - d. Loading the establishments of the Non Profit Institutions.
- Ask NOVA BASE to implement the aspects that are inventoried, in the document that is in Annex 1 and that refers to findings of corrections that the NOVA BASE must carry out in the SIEE. These findings were identified by the teams from each DESE project, in coordination with a NOVA BASE technician.
 - Follow the start-up schedule of the SIEE, below:

- Finalize FUE load – till September/October 2017;
- Begin with the management process of FUE – after finalizing loading;
- Create static images - November / December each year.

6.2 ESTABLISHING A SOLID SYSTEM OF SURVEYS BASIC AND CALCULATED ECONOMIC STATISTICS

INTEGRATED SYSTEM OF ECONOMIC STATISTICS – MONTHLY AND ANNUAL SURVEYS

RECOMENDATIONS:

- Follow the start-up schedule of the SIEE, as follows:
 - Select Universe / Base Sampling and samples monthly surveys - by end November 2017
 - Place the samples for DPINE's consideration for analysis and corrections;
 - Proceed with the creation of the management process of the monthly surveys - until December 2017;
 - Start collecting, processing and analysing data from Monthly Surveys - January to December 2018 (1 year cycles);
 - Select Universe / Sampling Base and samples from the Annual Survey - by April 2018;
 - Proceed with the creation of the process of management of the Annual Survey - May 2018 and following (cycle of 6 months).
- Create a test environment , parallel to the production environment, to enable testing and training in DPINE on SIEE
- Create a third area/environment will be needed for INE Staff to develop the system further and to test changes.

INTEGRATED SYSTEM OF ECONOMIC STATISTICS – TERRITORIAL STATISTICS

RECOMENDATIONS:

- DISI technicians should create and manage user profiles at central, provincial and district level;

- Read carefully the Requirements Specification Manuals (CERs) of each SIEE module. The RECs were made available to DESE technicians from the Territorial Statistics area and to DISI technicians. In addition to the CER were elaborated Helping Manuals to the handle with the application.
- Create a test environment, parallel to the production environment, to enable testing and training in DPINE on SIEE-ET.
- Ask NOVA BASE for the implementation of the aspects that are inventoried, in the document that is in Annex 1 and that refers to findings of corrections that NOVA BASE should carry out in the SIEE. These findings were identified by the teams from each DESE project, in coordination with a NOVA BASE technician.
- To continue the work that has been developed in the DESE and to create a joint team with the DICRE, for the internal and external sectors, to structure and survey the services, sectors, operations and variables for which information is sought. District level.
- Initiate loading of SIEE - ET in a phased manner, as variables are retrieved per operation.
- Improve the computer application, according to aspects already inventoried. Currently, DISI technicians are not trained enough to make changes / improvements to the application. Consideration should be given to the training of DISI technicians so that they can support SIEE ET.

SHORT TERM INDICATORS

RECOMENDATIONS:

- The publication Economic Activity Indicators base 100 = 2004 and CAEREV1 should be discontinued and replaced by the publication Economic Activity Indicator and Global Indicators of Employment, Wages and Hours Worked;
- The publication Economic Activity Indicator and Global Indicators of Employment, Wages and Hours Work, series 2011 to 2016 should be made available and the systematic monthly publication of these indicators, based on 100 = 2011 and CAEREV2, has begun.

FOREIGN TRADE STATISTICS

RECOMENDATIONS:

- Consideration should be given to carrying out a coverage study on imports.

6.3 CONCEIVE AND PRODUCE PLANS, MANUALS AND WORK AND TRAINING METHODOLOGIES, AND TO ORIENTATE SEMINARS AND TRAINING PROGRAMS

RECOMENDATIONS:

- To standardize the methodological documents of the Monthly Surveys, Industrial Production Index, Industrial Production Price Index, Annual Survey and FUE, in accordance with the standard methodological document in force for INE and SEN, in collaboration with DICRE;
- Elaborate a schedule for the implementation of the standardization of methodological documents.

RECOMENDATIONS:

- Elaborate a plan of activities that will materialize the implementation of the future protocol with the Tax Authority.
- To work in parallel with the prospect of registering the access to administrative information of MITESS and INSS, namely the nominal relation and social security, in the way of the use of administrative information for statistical purposes.
- Continue to invest in closer relations with suppliers of administrative information for statistical purposes in order to improve the quality and timeliness of information made available to users and reduces the pressure on data providers.

ANNEX 1 – ASPECTS REGISTERED TO BE CORRECTED BY NOVA BASE

Tipo	Data	Aplicação / Sector	Submenu / Acção	Pedido de alteração	Tempo de implementação (Horas)	Último document	Data de ultimo pedido	Prioridade
Correção	3/31/2017	FUE	Tratamento / Pesquisa	No mapa de resultados acrescentar a coluna "Tipo de unidade"	4			Normal
Correção	3/31/2017	FUE	Análise / Pesquisa Avançada	A aplicação da erro quando se pesquisa pela CAE principal nível 2	16			Urgente
Correção	3/31/2017	FUE	Disseminação / Pesquisa temporal	Quando se exporta os dados, os dados não aparecem na coluna certa, o cabeçalho da coluna não corresponde aos dados	8			Normal
Correção	3/31/2017	FUE	Disseminação / Pesquisa Avançada	A aplicação da erro quando se pesquisa pela CAE principal nível 2	0			Urgente
Correção	3/31/2017	FUE	Controle de qualidade / Pesquisa Avançada	A aplicação da erro quando se pesquisa pela CAE principal nível 2	0			Urgente
Correção	3/31/2017	FUE	Controle de qualidade / Indicadores	Os indicadores de Preenchimento de informação vem sem valores na taxa	16			Urgente
Correção	3/31/2017	FUE	Disseminação/Exportação Base de dados	Acrescentar o documento activo para a coluna de CAE e Sector Institucional na extração de base de dados	4			Normal
Correção	3/31/2017	FUE	Controle de qualidade / Indicadores	Os indicadores de Actualização para o ano N° vem sem valores na taxa	16	Funcionalidade disponível desde dia 03/12/2015	3/11/2016	
Alteração	4/3/2017	Inquérito Anual	Tratamento / Pesquisa / responder	Corrigir a tabel da questão 63234 para Comunicações.	1			Normal
Correção	4/3/2017	Inquérito Anual	Análise / Disciplina Estatística	Os codigos de cvi ilustrados no ecrã e no ficheiro extraído não estão correctos	4			
Alteração	4/3/2017	Inquérito Anual	Análise / Listagem parametrizável	A tabela de emprego e remunerações do inquérito anual é diferente do inquérito mensal, INE enviar as correspondências das variáveis do inquérito anual e do inquérito mensal	4			
Alteração	4/3/2017	Inquérito Anual	Análise / Extração de agregados	A aplicação da erro quando se faz a extração de agregados pelo quadro a medida não parametrizável	16			Urgente
Correção	4/3/2017	Inquérito Anual	Disseminação / Publicações	Faltam as seguintes variáveis no ficheiro extraído : Email, Telefone, Localidade,Bairro,CAE2, CAE3, CAE4, CAE5, A empresa tem estabelecimentos, o numero de estabelecimentos e o quadro de estabelecimentos, anexo2, remunerações. Eliminar as variáveis da tabela de remunerações e horas trabalhadas dos inq. Mensais	4	Funcionalidade disponível desde dia 24/06/2016, nunca foi reportado		
Alteração	4/3/2017	Inquérito Anual	Disseminação / Extração de dados	No ficheiro extraído, Retirar tabela de emprego e remunerações do inquérito Mensal. Faltam as remunerações, e anexo2	4			Normal
Correção	3/31/2017	Inquérito de Conjuntura	Controle de qualidade / Indicadores	O indicador de confiança do inquérito de conjuntura a construção vem sem valores para o mês de referencia novembro.	4			Normal
Correção	3/31/2017	Inquérito de Conjuntura	Controle de qualidade / Indicadores	O indicador de perspectiva de preços, de emprego, procura e emprego actual não deve desagregar por tipo de serviços para os sectores Transportes e construção, deve fazer a media dos serviços e agregar pelo sector	16	Funcionalidade disponível desde dia 24/06/2016, nunca foi reportado		
Alteração	3/29/2017		Administração / Gestão de utilizadores	O perfil dos utilizadores dos inquéritos de conjuntura são direccionados a aplicação do FUE mesmo tendo sido criados novos utilizadores.	4			Urgente
Correção	3/29/2017	Comum	Administração / Gestão de utilizadores / FUE prov.	Só limita na pesquisa mas não limita na area de resultados os questionários associados a sua provincia.	1			Normal
Correção	3/29/2017	Inquéritos Mensais	Tratamento / Pesquisa / Responder	A regra de validação de emprego e remunerações não está a funcionar	4			
Correção	3/29/2017	Inquéritos Mensais / Produção Industrial	Tratamento / Validação de dados / Validar	Quando se valida uma nova proposta ao copiar uma tabela de cnbs de um lado para o outro, elimina o código de cnbs do questionário a ser validado e não permite submeter o questionário.	16			Urgente
Correção	3/29/2017	Inquéritos Mensais	Tratamento / Validação de dados / Validar	Quando se submete um questionário não aparece a mensagem de submissão com sucesso.	1			Normal
Correção	3/29/2017	Inquéritos Mensais	Tratamento / Pesquisa / Responder	O campo de STA não está a ser preenchido automaticamente	1	Pedidos de alteracao SIEF, BACKOFFICE, Inquéritos Mensais_20161122_v_ensãofinal (009)	21/11/2016	
Alteração	3/29/2017	Inquéritos Mensais	Análise / Listagem Parametrizável	Quando se pesquisa pela variável vvn/receita a aplicação da erro	1			Normal
Correção	3/29/2017	Inquéritos Mensais	Análise / Extração de agregados / Quadros parametrizável e não parametrizável	Quando se exporta o quadro vem sem valores, no ecrã o quadro vem null.	16			Urgente
Correção	3/29/2017	Inquéritos Mensais	Análise / Disciplina Estatística	Analisar o motivo do questionário aparecer varias vezes.	1			Normal
Correção	3/29/2017	Inquéritos Mensais / Alojamento e restauração	Disseminação / Exportação de dados	No ficheiro exportado está em falta a variável Receitas	1			Normal
Correção	3/29/2017	Inquéritos Mensais	Análise / Extração de agregados / Quadros parametrizável e não parametrizável	Quando se exporta o quadro vem sem valores, no ecrã o quadro vem null. E o a aplicação troca de menu para análise	0			Urgente
Alteração	3/29/2017	Inquéritos Mensais	Análise / Listagem Parametrizável	Quando se pesquisa pelas variáveis das seções específicas usando o sinal = a aplicação dá erro.	4			
Correção	3/29/2017	Inquéritos Mensais / Transportes	Disseminação / Exportação de dados	No ficheiro exportado tem variáveis dos portos e aeroportos	1			Normal
Correção	3/29/2017	Inquéritos Mensais / Comercio e Serviços	Disseminação / Exportação de dados	Os dados estão repetidos 10 vezes para uma unica empresa	1			Normal
Correção	3/29/2017	Inquéritos Mensais / Construção	Disseminação / Exportação de dados	Faltam as variáveis das tabelas de CNBS do questionário	1			Normal
Correção	3/29/2017	Inquéritos Mensais	Controle de qualidade / Indicadores	O indicador taxa de valores imputados por variável / CAE / Mês, aparecem variáveis do inquérito anual e de conjuntura.	4	Funcionalidade disponível desde dia 24/06/2016, nunca foi reportado		
Alteração	3/29/2017	Inquéritos Mensais	Controle de qualidade / Exportação de indicadores	Da erro ao exportar o indicador quantitativo Empresas com variações NPS, horas trabalhadas e remunerações (Erro de time out, aumentar o tempo de time out)	1			Normal
Correção	3/29/2017	Inquéritos Mensais	Controle de qualidade / Exportação de indicadores	Os indicadores de Ratos Receitas/horas e Remunerações/receitas. Sa aparecem dados so inquérito mensal a produção Industrial	4	Funcionalidade disponível desde dia 24/06/2016, nunca foi reportado		
Alteração	3/30/2017	Inquéritos Mensais	Controle de qualidade / Exportação de indicadores	O indicador taxa de valores imputados por questionário / Mês, não está de acordo com o pretendido, deve ser similar ao indicador taxa de valores imputados por variável/cae/mês, e no lugar da CAE substituir pelo tipo de questionário.(NB: identificar a melhor forma de implementar, agregar pelo tipo de questionário ou por variável.)	16			
Alteração	3/30/2017	Inquéritos Mensais	Controle de qualidade / Exportação de indicadores	A aplicação da erro ao exportar o indicador Distribuição do N° de empresas, NPS, Horas, Remunerações, VVN por Cae (Erro de time out, aumentar o tempo de time out)	0			
Alteração	3/30/2017	Inquéritos Mensais	Controle de qualidade / Exportação de indicadores	Alterar a label do indicador Distribuição do N° de empresas por CAE/Ano para Distribuição do N° de Respostas por CAE/Ano.	1	Funcionalidade disponível desde dia 24/06/2016, nunca foi reportado		
Alteração	3/30/2017	Inquéritos Mensais	Controle de qualidade / Exportação de indicadores	A aplicação da erro ao exportar o indicador Distribuição do VVN/ Cae por ano (Erro de time out, aumentar o tempo de time out)	0			
Correção	3/30/2017	Inquéritos Mensais	Controle de qualidade / Pesquisa avançada	Quando se entra no menu, a aplicação traz dados para todos estados, enquanto só deveria trazer para validados.	1			Urgente
Correção	3/30/2017	Inquéritos Mensais / Portos e Aeroportos	Tratamento / pesquisar / responder	A regra de validação de Volume de produção e Receitas não está a funcionar	4			Urgente

ANNEX 2 ASPECTS REGISTERED TO BE IMPLEMENTED BY NOVA BASE DURING MAINTENANCE

ET	Disseminação_ Extração de Indicadores- Vai ser difícil localizar o indicador desejado quando forem muitos, seria desejável que tivesse um separador por sector ou por ordem alfabética---criar filtros		
ET	Disseminação/Publicação -Os anos que tem que constar nos quadros, indicadores e gráficos sao os anos de referência.		
ET	Disseminação/extração de indicadores		
ET	Disseminação/Publicação -Alterar o label para além dos indicadores nos permitir tirar extração das variáveis		Alterar a label para Disseminação /Publicação(variáveis)
ET	Recolha/Gestão de Resposta -Na gestão de respostas e na validação de dados falta o nível (este nível é igual ao último aprovador que consta na análise de OE e o estado que consta na análise de OE é igual ao CSV da Gestão de respostas!) Nesse caso se o nível for acrescentado à Gestão de respostas o submenu análise de OE não faz sentido com o conteúdo que tem! Este aspecto tem que ser analisado		
ET	Recolha/gestão de sistema de recolha -O aplicativo não permite fixar o mesmo ano de vigência para diferentes anos de referencia da mesma operacao.		
ET	Transversal -Na parte de Pesquisa deve-se acrescentar o nível em todos os menus		
ET	Análise/Indicadores -A fórmula para o cálculo do indicador não têm que mostrar código associado do Serviço, sector, operação (queremos o único e exclusivamente os códigos associados das variáveis para facilitar a compreensão da fórmula do indicador).		
ET	Análise/Disiplina Estatística - No campo de pesquisa tem que se acrescentar o distrito		
ET	Análise/Listagem a medida -Criar um menu(link)para acesso directo a consulta do FUE a apartir das ET)		
ET	Análise /listagem à medida -Neste submenu o que se pretende é analisar dados das operações e não o estado das operações!		
ET	Análise/Quadros -É necessário criar ou aproveitar por exemplo o submenu de análise de OE ou de Quadros para disponibilizar no Menu análise dados das operações, de forma similar aos que são apresentados na Disseminação/Publicações mas para todos os estados.		
ET	Disseminação_ Extração de Indicadores -Vai ser difícil localizar o indicador desejado quando forem muitos, seria desejável que tivesse um separador por sector ou por ordem alfabética---criar filtros		
ET	Disseminação/Publicação -Os anos que têm que constar nos quadros, indicadores e gráficos sao os anos de referência.		
ET	Disseminação/extração de indicadores -Alterar a label		

ANNEX 3 – TERMS OF REFERENCE AND SCOPE OF THE SERVICES

Describe in detail the services to be performed, the completion dates and place of execution, etc...

The consultancy services are classified as long-term and short-term consultancies. The two modalities are complementary and are described as follows:

Long Term Consultancy in Economic Statistics - Terms of Reference

Given the objectives of SEN the long term Economic Statistics consultancy services are designed to be provided continuously over a 48-month. The 48 months must correspond to no more than 48 consultants x months

Objectives

The following strategic goals for the SEN / INE have been defined:

- To produce and disseminate economic statistics, national accounts statistics and global indicators and basic sectoral statistics (industry, commerce, agriculture, fisheries, tourism, and transport, among others), enabling the formulation of policies and monitoring of major economic developments.
- To improve statistical analysis through the use of new working methods and greater inter-institutional coordination at national and international level.

Organizational framework

Under the general supervision of the President of INE the consultant will advise the members of the **INE** Presidency on matters related to economic statistics in general, and particularly the Vice-President for Economic affairs, whose permanent Advisor the consultant will be; and

- Undertake, his/her routine activities based at the Directorate of Business and Sector Statistics (DESE), reporting to the Director.
- Also undertake routine activities at the Directorate of National Accounts and Global Indicators (DCNIG), reporting to the Director according to the work in question.

Depending on subject the consultant will coordinate with the INE Central Directorates and other parts of INE and SEN as well as with the Institutional capacitation Consultant.

Responsibilities

Assist INE in developing its own statistical capacities at the central and provincial departments of INE; in the establishment of mechanisms for accessing and systematic updating of the Statistical Units Register; in establishing a robust system of surveys and basic and derived economic statistics; in the design of samples, the use of administrative sources and inter-institutional coordination for the production of statistics.

Design and produce plans, manuals and work and training methods for the production of economic statistics, as well as directing seminars and training programmes.

Assist in specific programmes to be undertaken by short-term consultants.

Ensuring a gender breakdown in the statistical production as well as in environmental issues.

Undertake other activities that may be defined by INE.

Expected results

Sectorial statistics which are guaranteed to be representative of the sector as a whole.

Regular documentation of the results of work done, including reports, plans, manuals, methodologies and statistical publications.

Qualifications and Requirements

The long term consultant should have a masters degree in statistics, economics or related areas, 10 years of experience in economic statistics; good knowledge of the SNA 93, statistical methodology, sampling. Fluency in spoken and written Portuguese language and adequate knowledge of English. Experience of working in African countries.

Work Language

Portuguese

The Workplace

The Central Offices of INE, with trips to the provinces.

Start of work

1st September, 2008.

<p>The Long Term Consultant in Economic Statistics will assist INE in all the tasks below. The tasks will be executed in an interconnected way and it is not now possible to subdivide the tasks separately.</p>	<i>[1,2 etc. are months counted from beginning of services]</i>												
	Year	1	2	3	4	5	6	7	8	9	10	11	12
	1 st	?	?	?	?	?	?	?	?	?	?	?	?
	2 nd	?	?	?	?	?	?	?	?	?	?	?	?
	3 rd	?	?	?	?	?	?	?	?	?	?	?	?
	4 th	?	?	?	?	?	?	?	?	?	?	?	?

T1: Assist INE in developing its own statistical capacities at the central and provincial departments of INE; in the establishment of mechanisms for accessing and systematic of the Business Register; in establishing a robust system of surveys and basic economic and related statistics; in the design of samples, the use of administrative sources and inter-institutional coordination for the production of statistics.

T2: Design and produce plans, manuals and work and training methods for the production of economic statistics, as well as directing seminars and training programmes.

T3: Assist in specific programmes to be undertaken by short-term consultants.

T4: Ensuring a gender breakdown of the statistical production as well in environmental issues.

