

FOREIGN TRADE STATISTICS (FTS)

Report from a mission to the National Statistical Institute
of Mozambique, Maputo, Mozambique

9 – 20 June 2014

within the frame work of the

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

between

INE and Scanstat

*Hans Kristian Østereng
Krassimira Jeneva*



INSTITUTO NACIONAL DE ESTATÍSTICA

Hans Kristian Østereng
Senior Adviser, Statistics Norway
Email: hko@ssb.no , mob.: 0047 4500 4952

Krassimira Jevena
State Expert, National Statistical Institute Bulgaria
Email: KJeneva@nsi.bg , mob.:00359 8872 10181

List of abbreviations

FTS	Foreign Trade System / Sistema de Comércio Externo
INE	Instituto Nacional de Estatística, Mozambique
MZM	Mozambique Meticaís
Scanstat	Consortium between Statistics Denmark, Statistics Norway and Statistics Sweden

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1 SUMÁRIO EXECUTIVO EM PORTUGUES

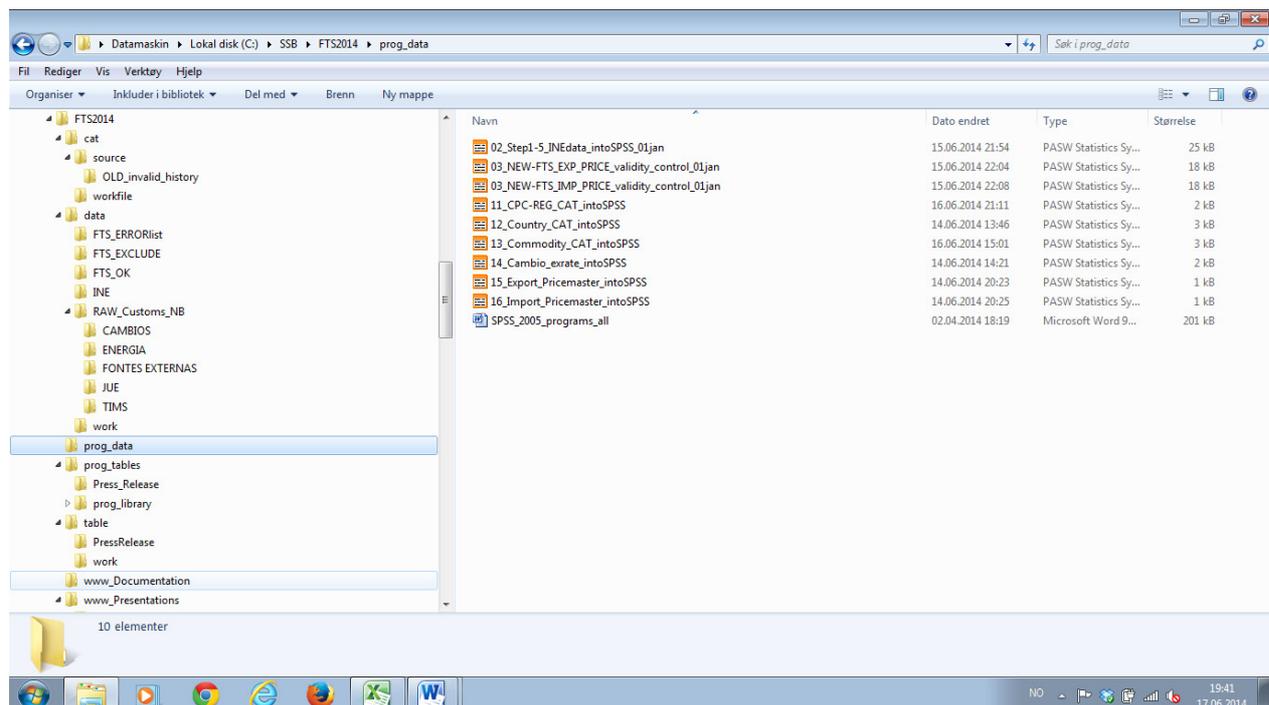
A razão principal para a missão

1 EXECUTIVE SUMMARY IN ENGLISH

Important findings during the mission

The last mission was during (26)29 October – 9 November 2012. The FTS staff has been enlarged with 2 more staff, Mr. Belarmino Pindela and Mr. Adelino Nhancale, in addition to Mr. Geraldo Timbe and Mr. Afonso Uate, A Terms of Reference is copied in Annex 2 below. It is recommended to also read the 2012 mission report as a background for this report.

The production system for FTS is set up as an annual ‘folder – and – file’ system where the monthly data cycle produces new files. Previous months files are kept as a documentation on data handling and error correction. The data processing is step-wise, using SPSS programs in a pre-set sequence. The naming of files keep an automatic order in all the files so that last versions are easily seen.



Many of the production files will be stored as 12 variants, one for each month, to complete one year. The next year starts with a new, empty annual folder and last December version of the catalogues and last used programs are copied into this.

The FTS staff is now enlarged to be four staff. They seems to suffer by lack of a leader to supervise them on a daily basis. So over time, it has obviously become a bit unclear who do what. As explained below, we decided to establish a job & task list, so that it could be more clear what each person should do. These lists are annexed to this mission report.

The system demands the staff to keep good order in the folder system, in the files stored under each folder, and to update metadata (the catalogues and code lists). Arriving at the mission we saw that this order was not kept. Since this was a basis for the course we had to spend time in updating catalogues and programs, and cleaning folders & files.

2 MODIFICATION TO THE TOR

The situation described above has had an impact on the ToR tasks. The expected time to do FTS assessment (part B in the ToR) has been significantly less. The time allocated for training has also been reduced. Much extra time had to be spent on updating the folder system, to produce new updated versions of the catalogues and of the programs. Since the training base on extensive use of the FTS methodology and the specific (folder) system solution, this update was absolutely needed, to enable the training program.

During the mission we designed a Job-List with indicative time table, describing the different jobs to be done, and to allocate these jobs to each staff. In this manner it will be easier to see what each person contributes to, and to conclude if progress is acceptable, or not.

3 MAJOR PROGRESS/ACHIEVEMENT DURING THE MISSION

SPSS & FTS system training (ToR A1 and A2, SPSS and data corrections)

The training took longer time than expected. The 2 newest staff, Mr. Belarmino Pindela and Mr. Adelino Nhancale is lacking much of the fundamental knowledge about FTS methods and definitions. They have not a basic overview over FTS SPSS-system, and time was spent on elementary topics and explanations.

Training included basic knowledge about simple system design (use of file descriptions and flow-charts) and how to see the logic connections between the input and output. They have still to learn that syntax is just a part of understanding the production system. The training gave a new fresh update and better understanding of the FTS system, basic IT rules and the limitations and advantages of the SPSS syntax.

The last three days we studied the error-lists and how to do corrections. The Error-correction Manual, which was made during the 2012 mission was copied and distributed again.

These days with training were highly appreciated and clearly beneficial for the four FTS staff. However, such training needs to go over a longer period of time to result in permanent learning.

The findings on the FTS team's functionality and performance are an important conclusion from the mission. This is pointing to be a management / leader problems and can't be reasoned to the FTS staff only.

ToR § B4, metadata / catalogues updates took long time, as a part of re-constructing the FTS folder system. The CPC catalogue (Customs Procedure Codes) was not updated despite all staff had received email from Customs with new codes. Source versions of Commodity and Country catalogue were established.

The FTS staff should not neglect the practical work on regularly updating of the metadata (all catalogues input to programs, and codes which are written directly into the programs). This still has to be taken more serious by the FTS staff.

4 TERMS OF REFERENCE – TASKS DONE, AND WHAT WILL WAIT

4.1. EXTRA-data (ToR B1 and B2)

The Customs declaration system does not cover all goods passing **in** and **out** of the border. Some companies are exempted or partly exempted e.g. Mozal, Sasol, Petromoc, HCB and other companies). Also tobacco- and coal-export is not properly reported via Customs.

INE receives via the National Bank quarterly information about imports and exports of products not covered from Customs (EXTRA-data). This information is however, not detailed and at the FTS-data format. As a result it is not possible to compare this data input with Customs data (declarations / items). Further, the Banks information to INE probably is under-estimated, which create also a significant problem for the National Accounts.

In JUE data from Customs the NUIT code (Tax payer PIN code issued by Tax Authority) is included in the data INE receives, but mainly for imports and just few NUIT codes for the exports. The old system (TIMS) captures only a few NUIT codes and only for imports. TIMS reports still mainly old codes, not useful for the FTS identification of importers and exporters.

During the mission we discussed and concluded the following:

To develop a draft version of an importer/exporter register containing the NUIT code and name, we got a copy of a file from Tax Authority which is used to match the information from Customs. The FTS staff should contribute to develop further an importer / exporter register based on NUIT code and name. We need this register to substitute missing NUIT codes in JUE, TIMS-data and in EXTRA-data. TIMS system is fading out, hopefully quite soon and then this problem will be less. But the problem with missing NUIT codes for exporters in JUE data file will remain until register is developed. The EXTRA-data by now is so few items (lines) that for these companies (but with a high turnover), the NUIT code are available (or has to be identified) and shall be filled in.

What remains is to find solutions for how to merge Customs data with EXTRA-data, and then analyse if something in customs that are reported twice (duplicated), and therefore should be removed from the file.

4.2. Customs (ToR B3)

There was no time to arrange meeting with Customs or the National Bank, and discuss quality improvement matters, and the points mentioned in the ToR.

4.3. FTS data storage & backup (ToR B5)

Before the mission it was concluded that all 4 staff should have SPSS-software installed in their PC.

Statistics Norway, who buys a number of SPSS licenses, offered 1 version-22 license free of charge from May 2014 to May 2015. This was installed before the mission started.

However, they still run the SPSS production system on a PC, and do not share common folder system on a server. It was discussed several times during the mission, that this is not safe, and up to normal standard for a production system. As a first solution, the FTS folder system should be moved to a server where the 4 staff is users. The SPSS on each PC can (at least until SPSS is installed on the server) use the local SPSS software to run programs, while data updates goes on the server.

4.4. FTS Price Control system, index calculations (ToR B7 and C3)

The Price-masters are too old and should be updated.

The two Price-master files (one for imports, one for exports) include an average price per commodity number. In the control program we define an upper and a lower price limit, which the item-price is checked against. If outside the limits, an item goes to the error-list.

Because of long-lasting quality problems with weight and quantity in data from Customs, it has up to now not been good basis for developing more advanced calculations on price-master updates. This is also the reason for not establishing a system for computing imports- and exports price indices. Traditionally this calculation is using previous published FTS item data as data input and depends on a certain minimum data-quality level.

During this mission we studied a simplified solution on using less complex methods to settle average prices was discussed. It is proposed to include this in the topic over development tasks, see job – task list annexed.

More useful might be to first introduce a system for imputing missing or wrong net weight (kg). This system should increase quality of price-master catalogues as well. It might be added on a task list for the next mission.

4.5. ERROR controls and data corrections (ToR B7 and B8)

The error-controls were updated as a part of all the work to re-refresh the folder / file system, including the SPSS programs.

There is a specific need to focus on training for how to do error corrections **and to start read and using the Manual produced in 2012**. The error list is just reflecting the checking methods written in the control program, and the FTS staff should themselves decide what, and when, some of the data controls need improvements.

4.6. Dissemination (ToR C1 and C2)

Since the extra-data can only be made quarterly, the FTS can also only be published quarterly. However, this should not prevent FTS and INE from preparing quarterly tables. Some of the standard prototype tables designed in 2010 and before, but has however not been used or further developed.

A person from the staff should be responsible for more serious trials to learn to run these programs. A quarterly publishing of FTS should include the following tables

A Press-Release table; main figures for each quarter (and months), with accumulates as from January

Imports and Exports by SITC (UN-standard based on HS)

Country-tables for imports and exports

One of the staff should be appointed and given the responsibility to move ahead on this topic and to specialize in preparing tables using SPSS.

5 RECOMMENDATIONS – ACTIONS

5.1. Changes in the FTS system - recommendations

FTS system changes:

1. We propose the FTS staff works according to a job / task list and timetable. In an annex below this is proposed. The meaning is to clarify responsibility among the four staff and what job each do. They should rotate over time, so that all learn as much as possible of the whole FTS system. Another intention with this list is to make it easier for leaders to follow-up the work, and to be able to evaluate if a deadline is kept or not.
2. Two staff (the newest) is proposed to take responsibility for the data processing on a monthly/quarterly routine basis. This will make them learn the FTS system, to handle SPSS programs and do changes.
3. One of the staff is allocated to be responsible for quality improvement works and for developing new SPSS syntax, or for significant changes in old syntax. Proposal for some development tasks will be included in this report.

4. One of the staff should be appointed to take responsibility for organising tables and for creating new syntax producing new tables. Prototypes already exist for many of the tables, and can be modified and tested.

5. During the mission it was decided to change the system on how EXTRA-data is merged into Customs-data. Instead of merging EXTRA-data at an early stage in the data processing, we process CUSTOMS data alone, including error-correction, without merging EXTRA-data. EXTRA-data is processed as a separately, each quarter, but controlled (same programs) as for Customs data. The merging then takes place as a last step, before publishing files will be ready. AFTER this, Customs-data and EXTRA-data is merged by NUIT code, with the purpose to analyse is some of the Customs-data has been duplicated, compared with EXTRA-data.

6. Continue the work on a importer/exporter register based on NUIT codes. Significant work was already done during this mission, and we intend to complete this draft by extra follow-up work after the mission ended.

7. Experts inputs and support to secure that changes are implemented

There is a need to supervise the FTS team for a period of time. They need to learn by practice how to work as a TEAM and to train by repeating the production cycle.

Based on the training course and the task lists, the four staff may manage to move ahead alone. However, the chance is high that this is not enough.

A next mission rather soon would secure that old habits should not settle. How to arrange and maintain this supervision should be examined more carefully and then decided upon.

8. Other recommendation

The National Accounts (NA) suffers by the un-sufficient quality of the FTS. The NA staff is much better organised and self motivated, and influence from them might change the performance of the FTS staff significantly.

As a minimum, a formal meeting should be set up by the NA together with the FTS staff, after the quarterly data are ready. At this meeting the FTS staff should present their data, explain their methods, and answer to questions from NA staff, and in this manner discuss the needs for this important user.

After a NA meeting (internal for INE), another meeting should be arranged in the FTS-GROUP (INE, National Bank, Customs and the Ministry of Industry). To be able to present figures, and explain examples of weaknesses in these figures, will help INE to argue for better data collection routines. A goal should be to improve the communication and understanding of what are the main problems.

6 PLANS FOR NEXT MISSION

It is proposed to implement a new mission in end of September – beginning of October 2014. A separate draft of a ToR will be proposed shortly after this mission report has been approved.

APPENDIX 1. Persons met

Participants on FTS/SPSS training:

Mr. Geraldo Adriano Timbe, Mr. Afonso Soberano Uate, Mr. Belarmino Pindela and Mr. Adelino Nhancale.

Meetings during the mission:

Tuesday 10/6-2014, 9:00-10:00

Mrs. Júlia Cravo, Mr. Hans K Østereng, Mrs. Krassimira Jeneva

Tuesday 10/6-2014, 9:30-11:00

Mrs. Júlia Cravo, Mr. Hans K Østereng, Mrs. Krassimira Jeneva and director Mr. Azarias Nahnzimo

Friday 20/6-2014, 8:30-10:00

Mrs. Júlia Cravo, Mr. Hans K Østereng, Mrs. Krassimira Jeneva Mr. Lars Carlsson and director Mr. Azarias Nahnzimo

APPENDIX 2. Terms of Reference



INSTITUTO NACIONAL DE ESTATÍSTICA
DIRECÇÃO DE ESTATÍSTICAS SECTORIAIS E DAS EMPRESAS

May, 12, 2014

TERMS OF REFERENCE

**For a Short-term Mission to
strengthen the capacity of the system for Foreign Trade Statistics**

9 to 20 June, 2014

within the

**AGREEMENT ON CONSULTING IN INSTITUTIONAL CAPACITY BUILDING,
ECONOMIC STATISTICS AND RELATED AREAS
BETWEEN INE AND SCANSTAT.**

Consultants: Hans Kristian Østereng (SN), Krassimira Jeneva (NSI-BG)

Counterparts: Azarias Nahnzimo, Adriano Atanásio Matsimbe and other staff at DESE

Introduction

The last FTS mission to INE was arranged in the period 26 October to 9 November 2012. Since 2008 the FTS staff at INE has used the SPSS software to produce the FTS statistics. The 2012 mission focused on many quality issues and proposals for how to improve the system, the data quality and the coverage.

However, there is a need for further training in SPSS syntax, writing and executing programs, and general methods for file processing and set up of data controls. A significant part of the mission will focus on such type of training, and related to use of the FTS – SPSS programs.

During the mission we will review the current system, identify the biggest weaknesses, make up a status, and to see how we could implement improvements. We should also discuss plans for how to realize these improvements, which might need longer periods of time. It is useful to possibly also to discuss solutions for follow-up.

Agenda / program for the mission

In the start of the mission and preferably the 1st day, we may arrange a meeting with involved leaders, to discuss the situations and to agree to details of a program.

The consultants will draft a training program in cooperation with INE and FTS staff, which might be scheduled for the 1st week as a guideline.

About discussions on an FTS assessment and to conclude to a status on what is a list of possible improvements, we might use e.g. following List of topics A to C as a guideline:

A. Training; FTS correction & quality improvements and SPSS programming (syntax)

A1. Sessions on **SPSS syntax & data processing training**, based on the use of existing FTS programs.

A2. Training in **data correction techniques**, different source for information, and how to keep routine & deadlines for a production cycle? We should include routines for checking of “high-value” items.

B. FTS assessment – improvements of the production system and the solutions:

B1. **EXTRA-data**. Could we find a way to get started to collect data from some of the exporters and/or importers, which by today is included in the extra-data via the National Bank?

Developing further data collection directly from the traders by creating a list (register) over companies and products, to be contacted and data reports to be collected directly from them, organized in the INE input format.

B2. Any other way the coverage and quality of the extra-data might be improved?

B3. **The Customs** ~ Check if ID and TYPE of declarations is good enough; – Late declarations; Corrected declarations; missing & doublets of declarations; Better communication with the Customs? Are corrected, delayed and doublet declarations already marked or extracted from Customs and sent separately to INE, if not yet=to check&find possible alternative solution

B4. Are there some of the **metadata** (catalogues) which needs updates, or which does not function good enough? Then we should find out how to make them better.

B5. FTS’ **data storage and processing**. Could the FTS applications be moved from PC to a server and should we have a look at software use and installation? Backup & data security arrangements are of course important.

B6. Are the SPSS programs optimal and OK, or should something be modified? Is the **PRICE-control system** ok or does it need improvements?

B7. Are the **ERROR-controls** and the error-list system ok, or should something be changed? An Error Correction Guide was made during the 2011 mission and second edition was done during 2012 mission. How to develop this Guide further, in order to improve the work with the Error Lists, -and the quality of the FTS data in general? Is it useful to create a diary-list, summarizing frequency of repeatable errors over 2-3 years by kind, company etc.?

B8. Making the **data-correction system optimal**. Do FTS staff have time to correct mainly all types of error (and logic warning) messages? Should the control system be better fine-tuned?

C. FTS – dissemination:

C1. Revise Press release & Standard tables (By SITC & Countries) for **regular publishing**, and putting up a calendar. Is this a priority, and if yes, how should this routine for publishing be?

C2. Publish **user-required tables and ad-hoc requests**. How to reduce manual work, so that such tables can be re-used and/or modified for later needs?

C3. **Index calculations** for imports/exports. Relation to Price-control system, -and eventually improving the system for *imputing* bad/missing weight (KG) and quantities? Should these topics be discussed, and plans set up for reaching some goals here?

Preparatory work

We will set up a training-program for the FTS staff, and describe topics and how this could be done. A draft and eventually info for the training will be exchanged in advance.

Execution of the work

The experts will work at INE together with the FTS staff. The program / agenda agreed to, will be modified according to the findings during the mission, and after more detailed discussions with the FTS staff, eventually other INE experts / leaders.

Documentation

The time spent has to be documented in Time Sheets, which should be attached to the invoices. The experts will keep records and copies of work done, which explains what type of work that has been done, time spent and result / output of the activity.

Period

The work days will be starting Monday 9th of June and last day Friday 20th of June 2014.

Benefactors of the mission

The beneficiary of the mission will be the Repartition of Foreign Trade Statistics Staff at Directorate of Sectorial and Enterprise Statistics and at the end all INE users.

Source of Funding

Project: MPD008-04-MPD-2008-0012 – Estadísticas Económicas Básicas
PAAO12 – 1.3.5 Estadísticas Económicas Básicas

Reporting

The consultants will prepare draft Technical Reports on request to document the progress done at any time interval during the Agreement period. A final draft report will be submitted to INE for final comments within one week of the end of the Agreement.

Approved by Azarias Nhanzimo INE/DESE

Day / /

Confirmed by Luis Mungamba, Contract Manager for the INE – Scanstat Contract

Day / /

APPENDIX 3. Earlier FTS missions – overview

A first short-term mission on FTS took place in November 2001 with support from the Twinning Arrangement (MOZINE 2001:10). The objective of this mission was to review the current production routines and suggest the basic actions for how to improve.

The second short-term mission on FTS took place during 28 April - 9 May 2003. This mission was to review the status and to give advises about how to proceed.

MZ:2003:08 Ref. no. 104. Mozambique.1.MFS.1-5 June 18, 2003

The third short-term mission took place during 12 April - 25 May 2004. A trial to create an Eurotrace-based system (Eurotrace is a software financed by Eurostat, tailor made for Foreign Trade Statistics). MZ:2004:20 Ref. no. 104.Moz.98 June 2004.

A fourth short-term mission took place during 14 - 17 November 2006. The start of a new pilot production system was made using the SAS software. The mission was interrupted because of early return of illness home in the expert's family. MZ:2006:16 Ref. no. 104.Moz.98 November 2006.

A fifth short-term mission took place during 14 - 17 June 2007. The SAS pilot production system started in 2006 was completed to include necessary metadata files and prototype of full data controls.

Moz:2007:xx Ref. no. 104.Moz.98 July 2007.

A sixth short-term mission took place during 8 - 18 September 2009. The SAS pilot system was converted into SPSS-programs during December 2007. The reason was that INE in the end could not manage to get reasonable SAS licenses. It was therefore decided to use the SPSS instead. Also this took time, but in summer 2009 the SPSS version 13 was replaced by SPSS version 17. This mission was testing all the SPSS programmes and the programs and system were discussed in details.

The seventh short-term mission took place during 15 - 26 March 2010. The SPSS prototype was discussed, and a training phase was executed. The training focused on data organisation and to execute the SPSS programmes. Another important part focused on the ERROR-lists and how to correct each single error type. A final conclusion was to agree to a Log-distance Support Agreement with the two FTS consultants, Hans K Ostereng and Krassimira Jeneva.

The eighth short-term mission took place during 15 - 26 September 2010. This mission was combined with the internal Annual Planning meeting in Maputo, arranged by Statistics Norway, Division for International Cooperation Development. The mission focused on updating the results from the Long-term assistance.

The ninth short-term mission took place 19 September until 4 October 2011. This focused on developing the SPSS system further on, focusing on quality and data correction work, on improving the communication with Customs, and setting up tables and recommendations for future dissemination of FTS information.

The tenth short-term mission took place during (26)29 October – 9 November 2012.

The 2012 mission focused on many quality issues and proposals for how to improve the system, the data quality and the coverage.

APPENDIX 4. JOB Descriptions and time tables

Description of jobs – FTS 2014 (Normally, a monthly cycle. Now in June, 1st quarter has to be processed again. Changes in programs and the new use of NUIT codes, demands this.

TASKS for Belarmino Pindela and Adelino Nhancale

1. CREATE new INE-file from C USTOMS TIMS-data + JUE-data (NEW: For TIMS-data, the extra column at the end of the file include NUIT-codes.. COPY this column over the “Importercode” column – since we need NUIT-codes later, as many as possible)

OUTPUT: new files – 201401jan.csv, 201402feb.csv, 201403mar.csv

2. CUSTOMS-data: RUN program 02 for jan, feb, mar

Condition: -- RUN prog02 as many times as you need, until no invalid regcpc codes are found.

(NB! The regcpc-Catalogue can be wrong, OR code in Customs-data is wrong)

READ carefully the SPSS-Report: study frequency tables.

WRITE to LOG : Number-items + values of the output files, (last step in the program).

OUTPUT: LOG = C:\SSB\FTS2014\www_Documentation\LOG_FTS_2014_overview_data-processing

3. RUN prog 03 – exports AND imports jan, feb, mar → Produce FTS-OK and ERROR-list files.

READ the SPSS-report, STUDY the frequency tables..

OUTPUT: LOG = C:\SSB\FTS2014\www_Documentation\LOG_FTS_2014_overview_data-processing

4. OPEN in EXCEL the ERROR-lists from the semi-colon-separated files = output from prog 03

REMEMBER that variables = to CODE-lists as “commodity number” should be TEXT- not numeric.

MARK error-columns e1 – e10 in RED.

OUTPUT: SAVE the ERROR-list - AFTER re-organizing the list, to be more user-friendly, easy-to-use

5. Start CORRECTING the ERROR-list -- USE the MANUAL as help for how to do correction work WHEN you correct an item-line, and an error: MARK e-code + VARIABL in BLUE, to see what you

OUTPUT: ALL errors corrected OR the WARNING (eg V1, V>, PL, PH,) = accepted as true

+ SAVE the ERROR-list - READY for SPSS-merging with file FTS-OK (from prog 03)

6. EXTRA-data: Check extra-data by doing same work as above,

USE prog 01A (CPC-check, 01B and 01C (price-controls),

with the MANUALLY created input-file - C:\SSB\FTS2014\data\INE\EXTRA_DATA_2014Q1_raw

You can easily CORRECT directly in the same file, with a new name as:

OUTPUT: C:\SSB\FTS2014\data\INE\EXTRA_DATA_2014Q1

----- instead of correcting in the ERROR-list as you do for CUSTOMS data (The reason is that the EXTRA-file is so small that you can keep overview)..

So you will run ALL 3 months as ONE data input, save as Q1-file name (Quarter 1 in one file)

NB! For CUSTOMS-data: REPEATING jan + feb + mar: You CAN also run points 1-5 (prog 02+03) above using ONE input file as 201401jan.csv + 201402feb.csv + 201403mar.csv AND then get ONLY 2 ERROR-LISTS:

FTS_ERRORLIST_export201401jan.csv FTS_ERRORLIST_import201401jan.csv

☺ GOOD luck – Happy endings

Development job (Geraldo):

1. Importer-Exporter Register based on NUIT (Tax PIN code)

1. Make an importer / exporter Register over NUIT-codes and company names (*also different versions of how to spell the name*). Data input sources for building this register are Tax Authority, Customs Declarations, Industrial Manufactory statistics, business statistics survey, ..more..

2. This register will be used to search by names and fill in the NUIT code in the FTS item files.

3. Then the CUSTOMS data will be matched with EXTRA data, to select import/export data which occur in both files. This file need to be analyzed in order to decide what could be doublets, or not. The EXTRA-data need to be in same file format (same variable list) as CUSTOMS data. Types of techniques to do proper selection about what to choose, to include in FTS, has to be investigated and decided to.

4. New SPSS-programs need to be set up, based on 3 months CUSTOMS data and the quarterly EXTRA data file. This program will use the selection method concluded to above. The output will be a quarterly FTS file, which is the based for publishing FTS.

2. Data PERIOD

Data PERIOD – check that proper date is used for allocating period = the month we give each item.

Normally this is declaration approval date (=when the goods are allowed into free circulation).

3. Customs Declarations CORRECTED after approval (and delivered to INE)

How to agree with Customs to send INE such types of declarations?

4. Delivery from Customs to INE; NEW file formats

It would be better if Customs extracted declarations to a text-file (e g semicolon-separated). Then we would avoid the manual treatment to make the INE-format input file. If to get such file format, the input system (programs) has to be changed and some steps might be added.

5. Improvement of the Price-Master files (imp/Exp), to increase the effect of the price controls.

The old updates are too old. A simplified method to settle average prices by commodity numbers, should be developed. First to see if simple methods on comparing the 3 price methods; Unit-value-price, the arithmetic mean-price and the median-price.

6. System to improve the net weight and quantity in the whole imp/exp file.

Why is net weight not delivered (filled in) in the data to INE?

A system to impute errors or abnormal net-weight, should be introduced. There are methods which might be used to test the whole imp/exp file, and impute when price

exceeds certain upper- lower- limits. Prototypes can be tested when FTS staff finds time for this.

Development job (Afonso):

1. Tables used for standard regular (quarterly) publishing:

- A. Press Release table
- B. SITC tables
- C. Country table

2. EXTENDED tables system (Not for Press Release)

- A. Commodity by Countries & Countries by Commodities
- B. Other variables: Customs House, Transport mode, Freight & Insurance costs... etc

3. CONTURA

A. FTS should be included in this publication. It takes some planning to establish the standard input data format, and to test it. Also historic data needs probably to be checked.

4. USERS' requests

- A. Users, who get same table on a regular basis
- B. Ad-hoc tables

Table 1. (EXAMPLE, figures are not correct)

Foreign Trade Statistics of Mozambique

Preliminary release. January - February 2010-2011. Million Metecai. General trade 1)

	February 2 010	February 2 011	Per cent Change	Jan-Feb 2 010	Jan-Feb 2 011	Per cent Change
Total IMPORTS	8 260	9 230	12	17 461	62 597	258
-Data based on Customs declarations	7 137	9 230	29	13 469	62 597	365
-EXTRA-data: HS27 - Oil prod + Electric Current 2)	1 106	0	-100	2 476	0	-100
-EXTRA-data: Other products directly reported 2)	17	0	-100	1 517	0	-100
Total EXPORTS	3 572	2 932	-18	8 663	5 395	-38
-Data based on Customs declarations	671	2 856	326	2 050	5 240	156
-EXTRA-data: HS27 - Oil prod + Electric Current 2)	821	0	-100	1 716	0	-100
-EXTRA-data: HS76 - Aluminium products 2)	2 000	0	-100	4 700	0	-100
-EXTRA-data: Other products directly reported 2)	81	76	-5	197	155	-21
EXPORTS as per cent of IMPORTS	43	32	-26	50	9	-82

Notes:

1) General trade means including warehousing and free zone trade (= all goods passing border physically)

2) EXTRA-data are data collected directly from traders or other administrative sources than Customs

These products might be substantially revised when more detailed information has been collected

HS means chapter in the commodity classification (Harmonized System used in the Customs Tariff)

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Proposals for Press-Release tables

A main table (Table 1) may include comparison between the two last years, with current month (or quarter) and accumulated figures as from January.

The grand totals for imports and exports are divided by the different sources. For the moment it might be useful to put a focus on the FTS data-sources, which also reflect certain data quality challenges.

Table 2. SITC, revision 4: UN standard. 2 tables, one for imports one for exports

Table 2 is a main product table by SITC (imports and exports separately), and Table 3 is a similar setup, but by main countries (trading partners by country of origin for imports and country of destination for exports).

Table 3. Main countries. Imports and exports, Main trading partners, Group of countries

Table 2 and 3 will follow mainly same column pattern as for the Press-Release table above.

TASK list & Time schedule for the FTS staff

FTS data processing 2014	Rotate	Job	Person
CUSTOMS data, Monthly	JAN	FEB	MAR
STEPS in the data processing. KEEP LOG updated: Belarmino	Date done	Date done	Date done
Deadline: CHECK/UPDATE on CATALOG: CPC, Commodity, Country, Cambio Updating done (if update needed)			
Person:	Geraldo	Geraldo	Geraldo
Deadline: TIMS & JUE raw data to be transformed into INE input file			

Manual work, monthly data file in \INE\ folder			
Person:	Adelino	Belarmino	Adelino
Deadline: Run Prog 02, Fill-in LOG, CHECK no more invalid CPC INdata: .CSV - file made from Customs data each month			
Person:	Adelino	Belarmino	Adelino
Deadline: Run Prog 03, Price control Imp/Exp: Produce ERROR LISTS INdata: (02)\ data \ INE \ FTS201401jan (monthly)			
Person:	Adelino	Belarmino	Belarmino
Deadline: ERRORLIST - IMPORTS, data correction work All corrections approved, file final			
Person:	Adelino	Belarmino	Adelino
Deadline: ERRORLIST - EXPORTS, data correction work All corrections approved, file final			
Person:	Adelino	Belarmino	Belarmino
Deadline: Run final check on ERROR-list data CORRECTED (verification) FTS-OK file and ERROR-file = ready for publishing			
Person:	Geraldo	Belarmino	Adelino
* NB. For April + following months, Belarmino & Adelino rotate			
FTS data processing 2014, QUARTERLY			
EXTRA data	Q-1		
STEPS in the data processing. KEEP LOG updated	Date done		
Deadline: Prepare the quarterly extra-data file (source Nat Bank - Others) Manual checks that codes & figures are correct			
Person: ----- Geraldo and Afonso	Belarmino		
Deadline: Run Prog 01A, 01B, 01C : CHECKING for invalid CPC-codes 01B and 01C run Price controls to see items with extreme item-PRICE CORRECT in the original input file, very few records make this possible			
Person:	Adelino		
Deadline: EXTRA-data file OK, finally approved			
Person:	Geraldo		
* NB. For each quarter, Belarmino & Adelino rotate (= BOTH manage all)			
MERGING: CUSTOMS <--> EXTRA data	Q-1		
STEPS in the data processing. KEEP LOG updated	Belarmino		
Deadline: New prog: MATCH Customs-data (3months) <--> EXTRA-data USE NUIT codes (or company names) for ID by matching ANALYSE if EXTRA-data includes some data which is in Customs-data CONCLUDE on what duplicated data to skip			
Person:	Geraldo		

Deadline:			
FTS data for Q1 (for 3 months) : File ready for publishing			
Person:	Geraldo		