



# Overview on TUS quality process in Morocco

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on Innovative and Effective Ways to Collect Time-Use Statistics  
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# Contents

1. Specify Needs
2. Design
3. Build
4. Collect
5. Process
6. Analyze
7. Disseminate
8. Evaluate



# Phases of level 1 & 2 of GSBPM

## Overarching Processes

Specify needs	Design	Build	Collect	Process	Analyze	Disseminate	Evaluate
1.1 Identify needs	2.1 Design outputs	3.1 Reuse or build collection instruments	4.1 Create frame and select sample	5.1 Integrate data	6.1 Prepare draft outputs	7.1 Update output systems	8.1 Gather evaluation inputs
1.2 Consult and confirm needs	2.2 Design variable descriptions	3.2 Reuse or build processing and analysis components	4.2 Set up collection	5.2 Classify and code	6.2 Validate outputs	7.2 Produce dissemination products	8.2 Conduct evaluation
1.3 Establish output objectives	2.3 Design collection	3.3 Reuse or build dissemination components	4.3 Run collection	5.3 Review and validate	6.3 Interpret and explain outputs	7.3 Manage release of dissemination products	8.3 Agree an action plan
1.4 Identify concepts	2.4 Design frame and sample	3.4 Configure workflows	4.4 Finalize collection	5.4 Edit and impute	6.4 Apply disclosure control	7.4 Promote dissemination products	
1.5 Check data availability	2.5 Design processing and analysis	3.5 Test production systems		5.5 Derive new variables and units	6.5 Finalize outputs	7.5 Manage user support	
1.6 Prepare and submit business case	2.6 Design production systems and workflow	3.6 Test statistical business process		5.6 Calculate weights			
		3.7 Finalize production systems		5.7 Calculate aggregates			
				5.8 Finalize data files			



# Specify Needs

**1.1**  
Identify needs

Needs of relevant, regular and accurate sex-disaggregated that measure & emphasize all gender issues related to TUS

**1.2**  
Consult and confirm needs

Extensive consultation with data users and stakeholders: (line ministries & UN & NGOs & scholars) to meet their needs and to set main priorities.

**1.3**  
Establish output objectives

Strong commitment HCP to meet these needs : integrate TUS in its regular statistical plan & plan to set up HH satellite account and others

**1.4**  
Identify concepts

Ensure comparability over time/ space through consistent content : use of standards (TUS concepts, modules, ICATUS classifications, methods)

**1.5**  
Check data availability

Considering to implement light diaries or stylized questions, Where appropriate in existing surveys (LFS, LSMS, ..) modernize /use ITC & digitalization

**1.6**  
Prepare and submit business case

The project preparation : costs, sample deliverables, time frame, budget, required technical /logistical / human resources, & impact on stakeholders



# Design

## 2.1 Design outputs

TUS data, HH satellite account/ estimates of the unpaid domestic work in GDP by TUS experts & partners scholars & interested bodies

## 2.2 Design variable descriptions

Qs HH/ individual & diary, modules, variables (contextual derived & qualitative, etc.) and thematic classification Verbatim/ ICATUS

## 2.3 Design collection

Collection instruments/ procedures/ manuals & methods, instruments, questions and response templates, unit (pop & time) collection mode/type

## 2.4 Design frame and sample

Sampling frame/ Design for better coverage ( all strata, regions, groups, 12 months over year, days: weekdays/ weekends, special)

## 2.5 Design processing and analysis

Specification of frames, routines and rules for coding, editing, imputing & types/diaries data capture sources according to type of data collection

## 2.6 Design production systems and workflow

Workflow from data collection to dissemination taking an overview of all the processes required within the whole production process



# Materials

- **Household questionnaire** : socio-demographic & socio-cultural characteristics of HH members, health, employment, housing conditions, household equipment, support and services received by the household as a volunteer, household income, use of services and communal facilities;
- **Individual questionnaire** cultural activities, participation in civic life, time management/perception, quality of life, behaviors and decisions within the couple;
- **24h-diaries** : open intervals of time (start and finish times, duration), activities, simultaneous activities where, paid/unpaid, for whom, transport mean, with whom;
- **Activities classification** with reference to ICATUS but adapted to national context and needs.



# Build

**3.1**  
Reuse or  
build  
collection  
instruments

Balance between data requirements and survey length to minimise respondent burden and impacts on data quality.

**3.2**  
Reuse or  
build  
processing  
and analysis  
components

Dashboard functions & features, services, functions, Different data tools and services related to the workflow framework

**3.3**  
Reuse or  
build  
dissemination  
components

Traditional paper publications & others provided by web platform (links) different output & try to make the anonymized micro data available

**3.4**  
Configure  
workflows

workflow, systems and transformations used within the business processes, from data collection to dissemination

**3.5**  
Test  
production  
systems

Balance between data requirements and survey length to minimise respondent burden and impacts on data quality.

**3.6**  
Test  
statistical  
business  
process

Extensive testing of survey instruments and diaries to ensure respondents' understanding of questions and requirements

**3.7**  
Finalise  
production  
systems

Producing documents and manuals on the process and technical manuals & conduct training on how to operate the process



# Collect

## 4.1

### Create frame and select sample

From the HH master sampling frame (PU/SU 15 HH) probabilistic stratified and multistage sampling : kish table to select men/women/children : 9000 men, 9000 women and 3000 children (Third only)

## 4.2

### Set up collection

Rigorous, well tested field procedures to ensure consistency and follow-up tools & actions to encourage participation of respondents/deal with non responses & support team in the field

## 4.3

### Run collection

Monitoring data collection and making necessary changes to improve data quality and all the checks of the structure and the integrity of The information received

## 4.4

### Finalize collection

Extract information from paper questionnaires, converting the formats, encoding the variables and applying editing rules that will be applied to the diary





# Process

5.1  
Integrate  
data

5.2  
Classify  
and code

5.3  
Review  
and  
validate

5.4  
Edit and  
impute

5.5  
Derive  
new  
variables  
and units

5.6  
Calculate  
weights

5.7  
Calculate  
aggregates

5.8  
Finalise  
data files

**5.1.** Geographical, population other data checks : check TUS data with LFS, National accounts for (SNA activities) and other sources exp : education data.

**5.2.** Check/assign codes, use classifications for data capture and processing.

**5.3.** Identify potential problems, errors and discrepancies: outliers, total item non-response and miscoding: Response rate (HH 97%) completed diaries : men 94%, women:95%, children 95%)

Total time in diaries if not =1440 mn: deciding on imputation process/criteria/validation threshold and rules.

**5.5.** Derive variables needed to deliver required outputs: aggregating/estimation

**5.6.** Weight correction for benchmarking indicators (population), adjust non-response(total/item), variables weighting.

**5.6.** Weight correction for benchmarking indicators (population), adjust non-response(total/item), adjustments of the weighting.

**5.7.** Summing/ aggregation data for records sharing certain characteristics (demographic/occupation/activity or geographic classifications).

**5.8.** Final requirement to produce both preliminary and final estimates.



# Analyse

## 6.1 Prepare draft outputs

Data transformed into statistical outputs and preparation of main figures and graphs: maximise the value and capacity to analyse the statistical information.

## 6.2 Validate outputs

Validate quality of outputs : identify divergence from expectations /allow informed analyses: quality/ consistency/ confronting (internal /external)

## 6.3 Interpret and explain outputs

Understand/ interpret/ explain the statistics by assessing/ viewing from all perspectives using different tools/ techniques (discrepancies in mirror statistics) etc.

## 6.4 Apply disclosure control

checks for primary and secondary disclosure, as well as the application of data suppression or perturbation techniques and output checking different types of outputs

## 6.5 Finalize outputs

Collating supporting information, interpretation, commentary , technical notes, briefings, approving the statistical content for release.



# Disseminate

## 7.1 Update output systems

Methologic  
al notes,  
metadata  
& main  
differences  
between  
different TUS  
surveys  
cycles &  
explanatory  
note to use  
TUS data for  
all users

## 7.2 Produce dissemination products

main figures  
notes &  
tables, main  
figures  
charts,  
detailed  
reports,  
estimation  
of unpaid  
domestic  
work & its  
contribution  
to the GDP

## 7.3 Manage release of dissemination products

All elements  
for the  
release are in  
place  
including  
managing  
the timing of  
the release.  
It includes  
briefings  
for  
specific  
groups.

## 7.4 Promote dissemination products

Reach a  
**wide**  
audience:  
adapt  
outputs to  
typology of  
users' groups  
example :  
**interactive**  
**TUS**  
**infographic**  
like a  
game/quiz

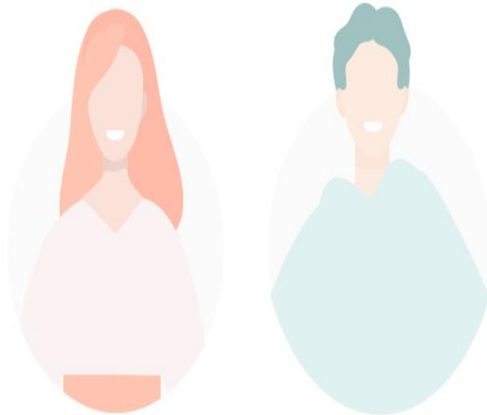
## 7.5 Manage user support

Planning to  
populate  
TUS  
knowledge  
via link  
& **platform**  
(documents,  
figures,  
reports)  
that is  
made  
publicly  
available.



# TUS-PATFORM

Etes-vous une femme ou un homme?



Temps libre



Temps professionnel



Temps domestique



Temps physiologique

Choisir un thème!



# Evaluate

8.1

## Gather evaluation inputs

Evaluation through feedbacks from users, evaluation materials: Ministry of education needs data on time use on children: need of specific classification related to children time use, need of regular data on TUS: consider integrating light diaries/stylized questions in other sources for SDGs

8.2

## Conduct evaluation

Wide discussion on the data disseminated and those expected/benchmarking results, highlight the specific gaps and needs especially to monitor SDG and recommendations for next survey planned in 2021 (use of tablet and new recommendations/tools of IAEG-GS)

8.3

## Agree an action plan

HCP has a digitalization programme with the support of Statistics Denmark (data collection, coding/monitoring, /management center/ etc.): plan concerning the future TUS surveys and potentially related modules/stylized & light diaries to be integrated in other HH surveys