



Food and Agriculture Organization
of the United Nations

THURSDAY 16 FEBRUARY 2023
(9:00 AM – 11:30 AM EST)



OPEN MEETING

UNITED NATIONS
COMMITTEE OF EXPERTS ON
FOOD SECURITY, AGRICULTURE
AND RURAL STATISTICS
(UN-CEAG)

54TH SESSION OF THE
UNITED NATIONS STATISTICAL
COMMISSION

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SESSION 1

Presentation of the global consultation on the Guidelines on Processing Food Consumption Data from Household Consumption and Expenditure Surveys

Ellen Cathrine Kiøsterud
(Statistics Norway)

Agenda

- Motivation
- Process
- About the Guidelines
- Next steps

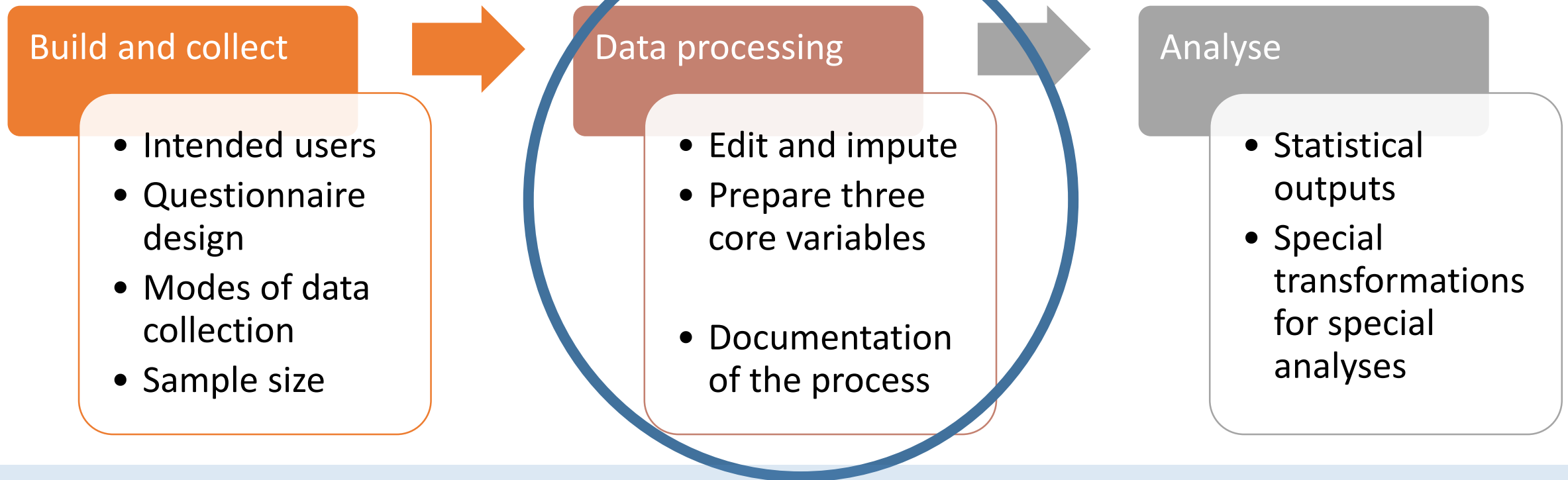
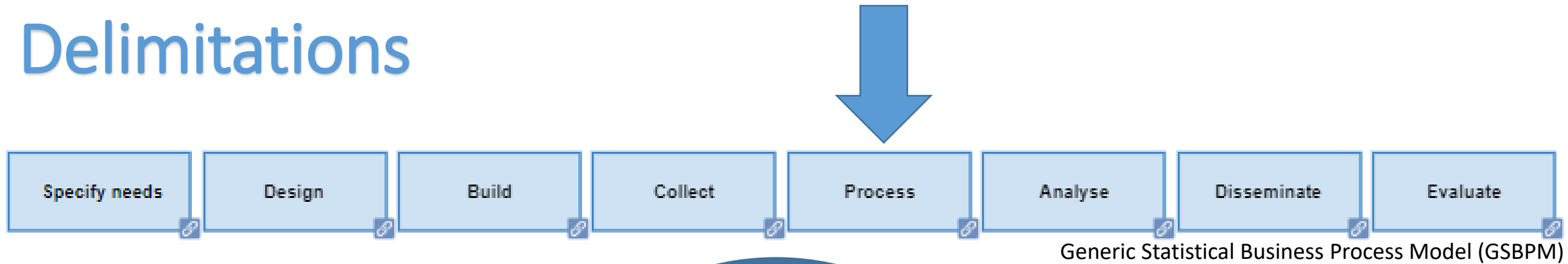
There is a need for this document!

Process so far

- The drafting team
 - Nathalie Troubat (SPC) Ana Moltedo (FAO), Elisabeth Foster (World Bank), Astrid Mathiassen (SSB), Ellen Cathrine Kiøsterud - coordinator (SSB)
- A new version of the guidelines circulated to UN-CEAG ++ with feedback in December 2022
- Open meetings in the Food security and consumption data task team of UN-CEAG
- First draft circulated to workshop participants in September 2022
- Workshop in Rome, October 2022
 - COMESA, SPC, WFP, FAO, World Bank, NSO Malawi, NSO Zimbabwe, NSO Zambia

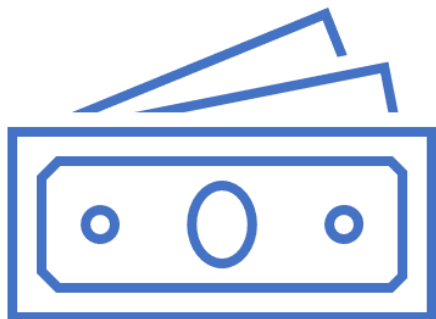


Delimitations



End goal of the guidelines

For all food consumed, from all sources...



**Monetary
value**



Quantity



**Dietary
energy**

...with proper documentation.

More and better statistics from food consumption data

- Joint processing of food consumption data
- Full processing of food consumption data

What is it?

- Principles and step-by-step guide
- Steps are in short:
 - Gather data
 - Convert quantities to a standard measure
 - Estimate monetary value when it is not already there
 - Estimate kilocalories
- Checking and cleaning in all the steps

Content

Introduction

Concepts and principles

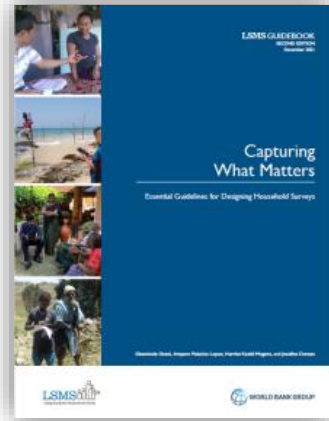
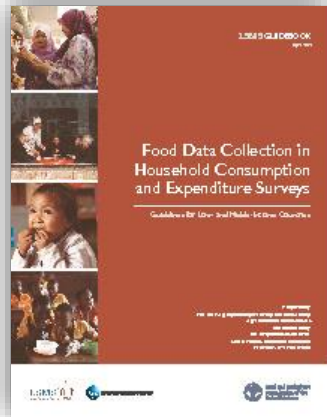
Step by step:

1. Gathering all input and auxiliary data
2. Domain editing, obvious and systematic errors (DOS)
3. Adjust and merge data files
4. Detecting outliers at unit of measure level
5. Monetary value imputation
6. Convert food quantities to grams
7. Edit quantities in gram
8. Calculate dietary energy
9. Impute dietary energy for remaining items
10. Aggregation and macro editing
11. Documentation

Some main points from the discussions

The questionnaire

- Variety is a challenge
- IAEG-AG 2018 recommendations
- World Bank LSMS-module



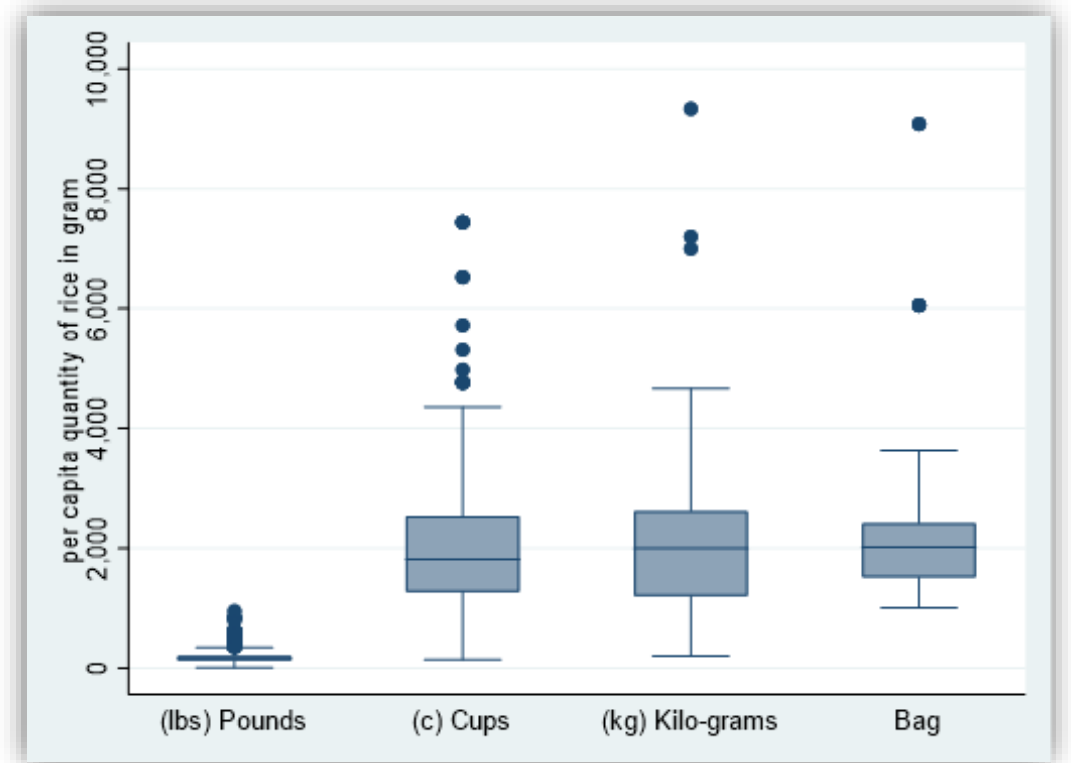
| SECTION 9B: WITHIN-HOUSEHOLD FOOD CONSUMPTION & EXPENDITURE | | | | | | | | | | | | | |
|---|--|---|------|------|--|--|--|---|---|------|------|---|--|
| PRIMARY RESPONDENT FOR THIS SECTION ID CODE: <input type="text"/> | | | | | | | | | | | | | |
| ITEM CODE | 1 | 2, | | | 3, | 4, | 5, | 6, | 7, | | | 8, | |
| | During the past 7 days, did members of this household eat/drink any [ITEM] within the household? | In total, how much of [ITEM] did your household consume in the past 7 days? | | | Of the [QUANTITY] [UNIT] of [ITEM] consumed, how much came from purchases? | Of the [QUANTITY] [UNIT] of [ITEM] consumed in the last 7 days, how much came from own production? | Of the [QUANTITY] [UNIT] of [ITEM] consumed, how much came from gifts and other sources? | Did your household purchase any [ITEM] in the past 30 days? | In the most recent purchase, how much [ITEM] did the household buy? | | | How much did your household spend on this [QUANTITY, UNIT, SIZE IN Q7] of [ITEM]? | |
| | YES...1 NO...2 ▶NEXT ITEM | DO NOT INCLUDE FOOD CONSUMED OUTSIDE THE HOUSEHOLD SEE UNIT CODES ON NEXT PAGE | | | USE UNIT AND SIZE FROM Q2 | USE UNIT AND SIZE FROM Q2 | USE UNIT AND SIZE FROM Q2 | YES...1 NO...2 ▶NEXT ITEM | SEE UNIT CODES ON NEXT PAGE | | | | |
| | | QUANTITY | UNIT | SIZE | QUANTITY | QUANTITY | QUANTITY | CODE | QUANTITY | UNIT | SIZE | CURRENCY | |
| Guinea corn/sorghum | 100 | | | | | | | | | | | | |
| Millet | 101 | | | | | | | | | | | | |
| Rice - local | 102 | | | | | | | | | | | | |
| Rice - imported | 103 | | | | | | | | | | | | |
| Maize flour | 104 | | | | | | | | | | | | |
| Cassava flour | 105 | | | | | | | | | | | | |
| Wheat flour | 106 | | | | | | | | | | | | |
| Maize (unshelled/on the cob) | 107 | | | | | | | | | | | | |
| Maize (shelled/off the cob) | 108 | | | | | | | | | | | | |
| Other grains and flour | 109 | | | | | | | | | | | | |
| Bread | 110 | | | | | | | | | | | | |
| Cake | 111 | | | | | | | | | | | | |
| Buns/pofpof/donuts | 112 | | | | | | | | | | | | |
| Biscuits | 113 | | | | | | | | | | | | |

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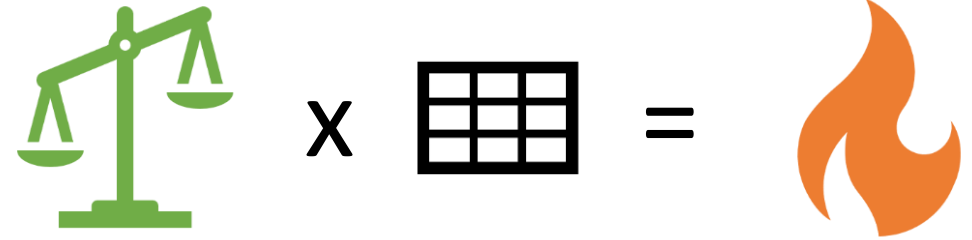
Four stages of data cleaning

- Domain editing, obvious and systematic errors
- At unit of measurement-level
- After converting to gram
- On aggregate level



Nutrition Composition Table

- Nutrient Conversion Table (NCT) is a table with dietary energy (in kilocalories) and macronutrients for each food item *in the survey*
- Information from Food Composition Tables/Databases
- Advice on how to create and use an NCT in the guidelines
- Separate document with more information



Food Away from Home

- Not standard
- One line of cost
- Module with more information
 - LSMS has one
- Pacific Community doing experiment – has a group under UN-CEAG who provides input to different steps
- Implementing the guidelines will be a dynamic process



Feedback

- More!
- More examples
- Syntax-examples
- Guidelines vs manual
 - Checklist for the survey
 - NCT manual
 - How to document
- Not a challenge: To agree about what needs to be done



Manual vs guidelines

Next steps

- Finalizing the present document (3rd draft)
- **Global consultations: UNSC countries**
 - **April-May for comments**
- Updates and final text + layout
- Discuss the final draft with the UN-CEAG task team
- Send it to UNSC 2024
- Add manual materials
- Hope that countries will include it in their processing of HCES data

Thank you

<https://www.fao.org/about/ce-on-food-security-agricultural-rural-statistics/en/>