EHES
Measuring the Health of Europeans

Current status of EHES-Greece

Sampling procedures

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1st Site visit
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OUTLINE

1. Introduction to the Greek pilot HES *by Valentini Konstantinidou*

2. Sampling procedures *by Philippos Orfanos*

3. Inviting the participants *by Ioulia Goufa*

4. Procedures at the examination sites: questionnaire *by Elisavet Valanou*

5. Procedures at the examination sites: examinations *by Dimosthenis Zilis*

6. Data management and security issues *by Pericles Karathanasis*

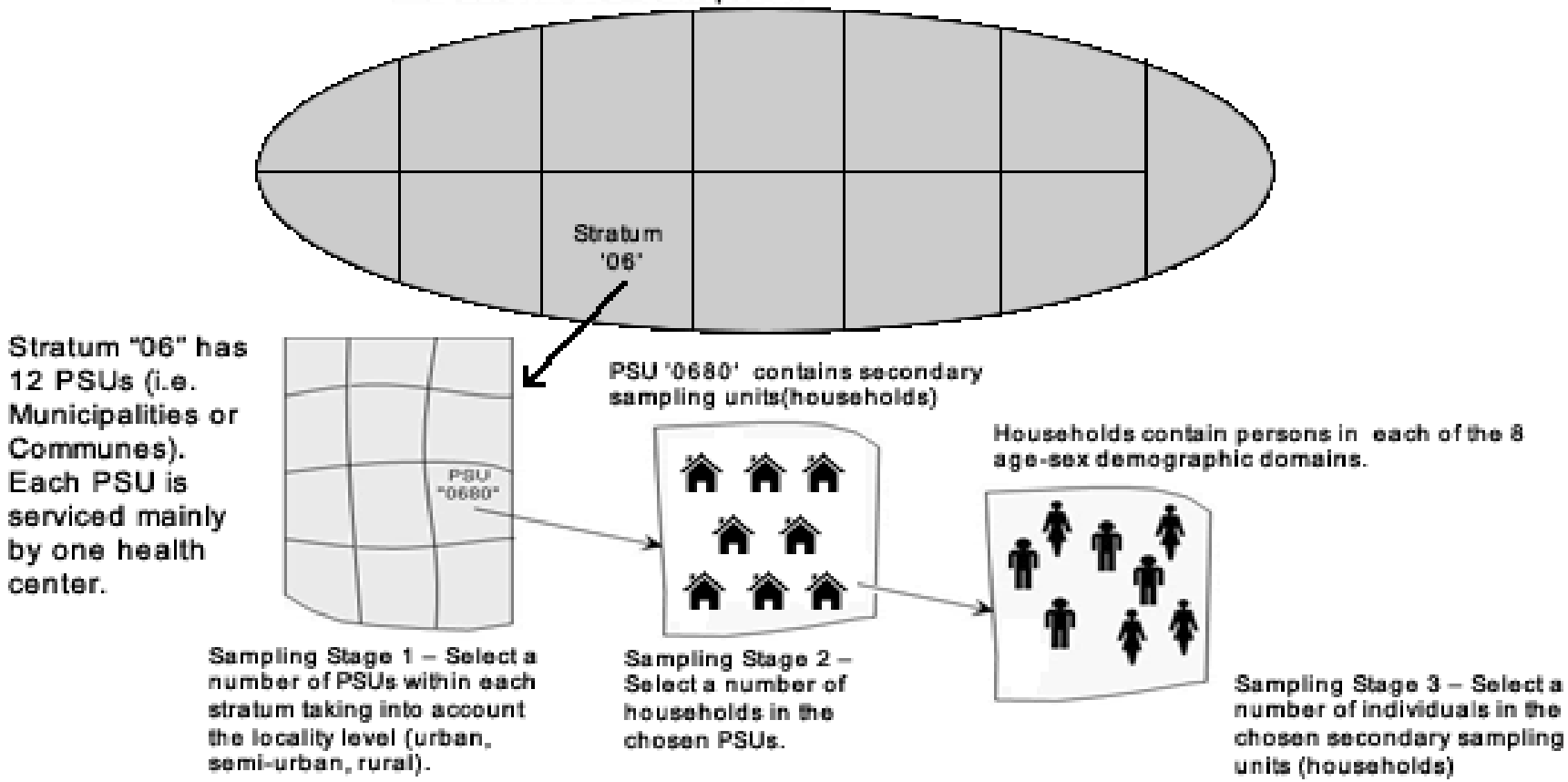
7. The manual of the Greek HES *by Androniki Naska*

Sampling

- ✓ Target population: **Men and women residents of Greece, aged 25 to 64(+)**
- ✓ Population characteristic(s): ***Collective property* for a number of health indicators**
- ✓ Sampling units: **Individual members of the private households**
- ✓ Sampling Frame: **Census of 2001**
- ✓ Sampling Design: **3-stage stratified sampling**
- ✓ Sample size: **4000 (~5500; 75% response rate)**

Sampling procedures

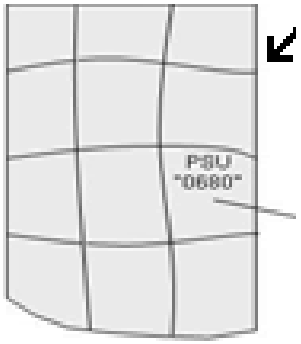
Greece has 13 geographical strata (**Regions / Prefectures**).
All strata are sampled.



- ✓ *Households:* 3,183,962
- ✓ *Individuals:* 6,129,688

Sampling procedures

Stratum "06" has 12 PSUs (i.e. Municipalities or Communes). Each PSU is serviced mainly by one health center.

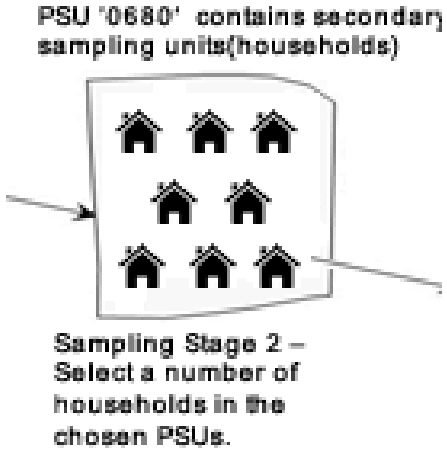


Sampling Stage 1 – Select a number of PSUs within each stratum taking into account the locality level (urban, semi-urban, rural).

1st stage of sampling

1. Select PSUs (unified blocks) from each Region
2. Proportional allocation according to population size (=n of households)
3. Total number of PSUs = 1,056 unified city blocks

Sampling procedures

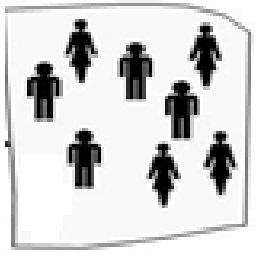


2nd stage of sampling

1. Select SSUs (households) from each PSU
2. Systematic sample is drawn with equal probabilities from each selected PSU
3. Sampling frame for the SSUs in the selected PSUs was updated

Sampling procedures

Households contain persons in each of the 8 age-sex demographic domains.



Sampling Stage 3 – Select a number of individuals in the chosen secondary sampling units (households)

3rd stage of sampling

1. Select “ultimate” units (individuals) from each sampled household that belong to the target population
2. It “forces” us to apply ***Quota sampling***
3. The (%) distribution of individuals conforms to the population (%) distribution across a set of classes

Issues/ Problems

1. Sampling based on 2001 Census (*just started for 2011*)

2. Sampling based on number of households (not individuals)

3. Selection process combines probabilistic and non-probabilistic techniques

   3.1. Quota sampling for selection of ultimate units

   +*: Possible replacement of one subject by another*

4. The sample subjects have been approached/interviewed previously