



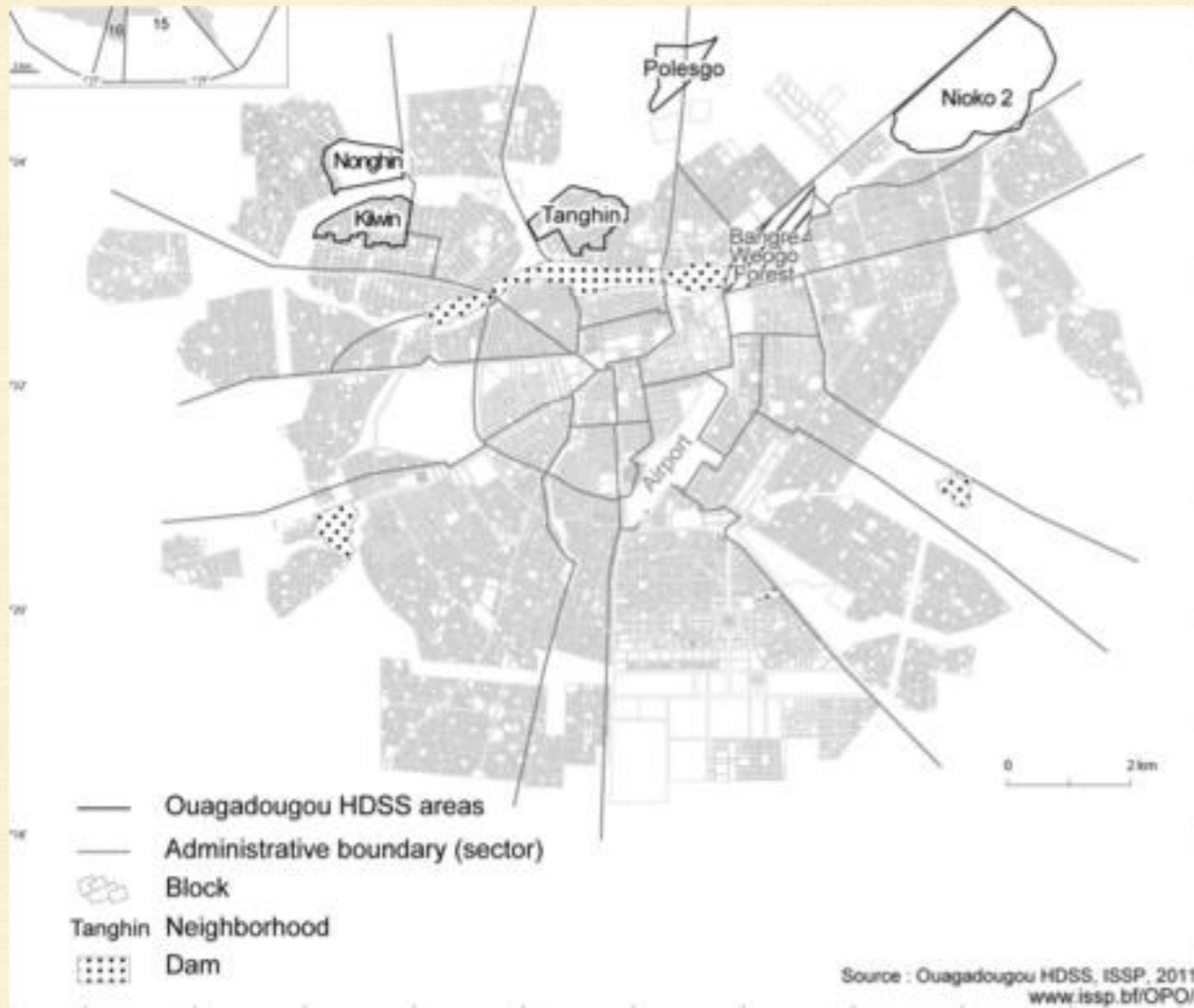
## **Ouagadougou HDSS, Burkina Faso**

Dr Abdramane Soura

# **iHOPE SAG Meeting**

**Geneva, 4-5 June 2015**

# Ouagadougou Demographic Surveillance Area: Two formal districts (Kilwin and Tanghin) and Three informal districts (Polesgo, Nonghin and Nioko 2)



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# Objectives

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- To be a platform for research & intervention
- To help policy makers use evidence-based decisions regarding poverty, health, education, and housing
- To be useful in supporting local governments, civil society organizations and non-profit organisations in searching for external funds to implement more equitable social and sanitary policies throughout the entire city

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# Mains domains of research

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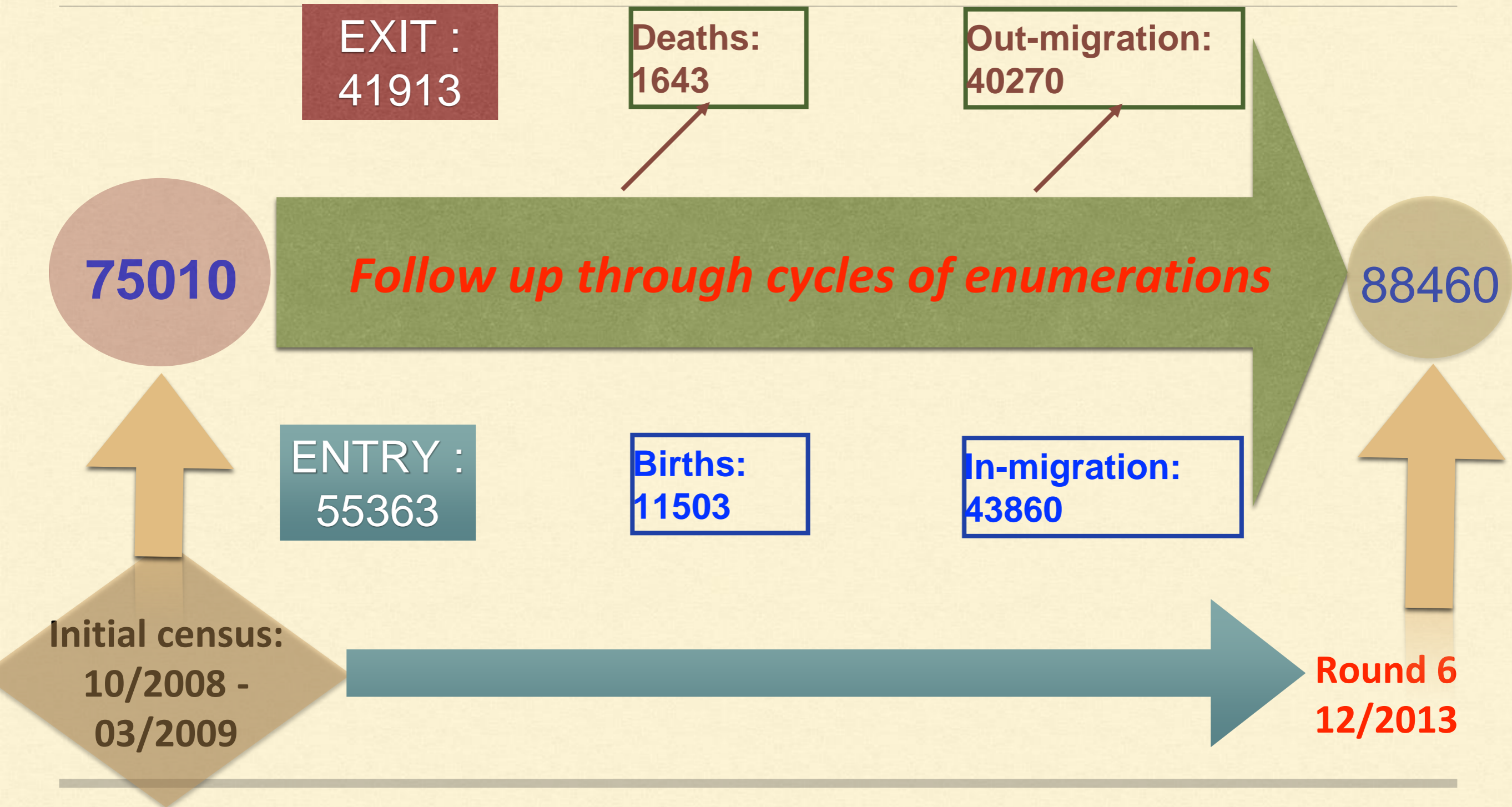
- Mortality and causes of death
- Economic vulnerability and health
- Urban integration of migrants and health
- Aging and health
- Access to health services
- Environmental hazards and health
- Neighborhood factors of health

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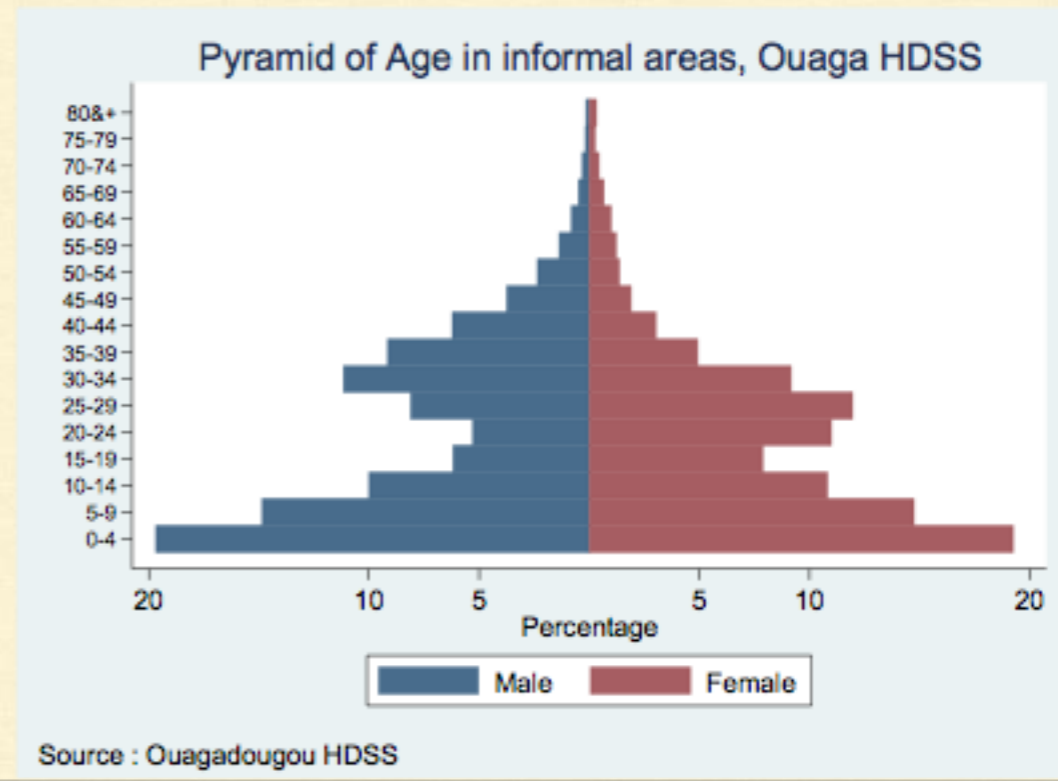
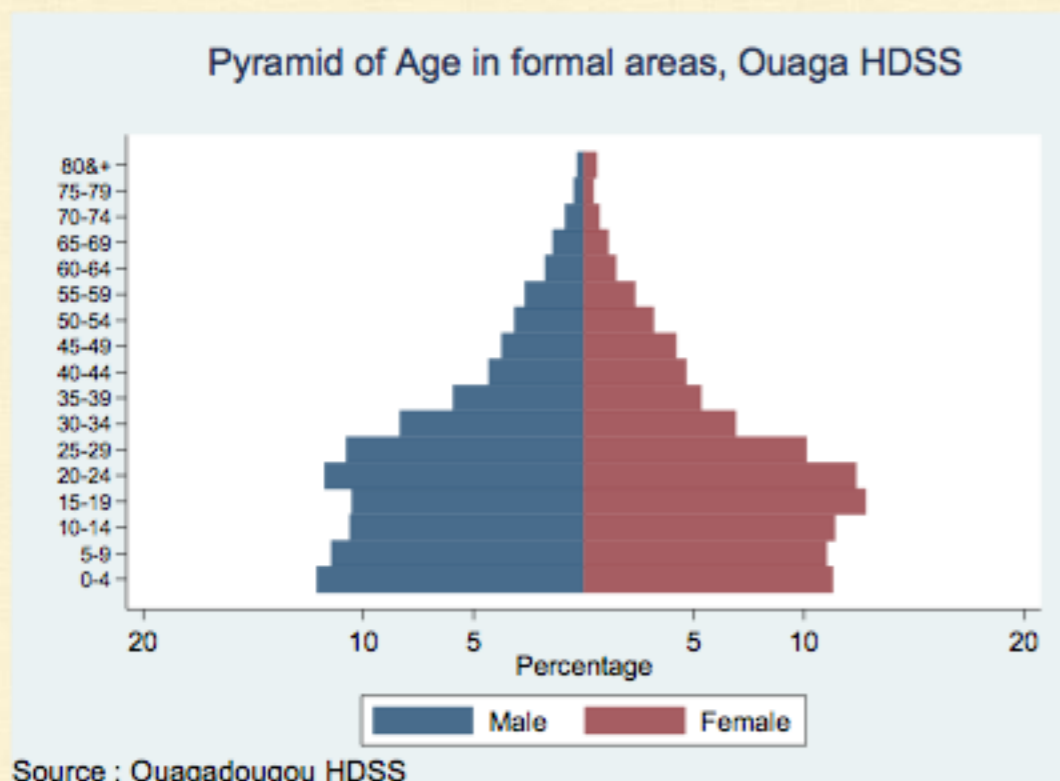
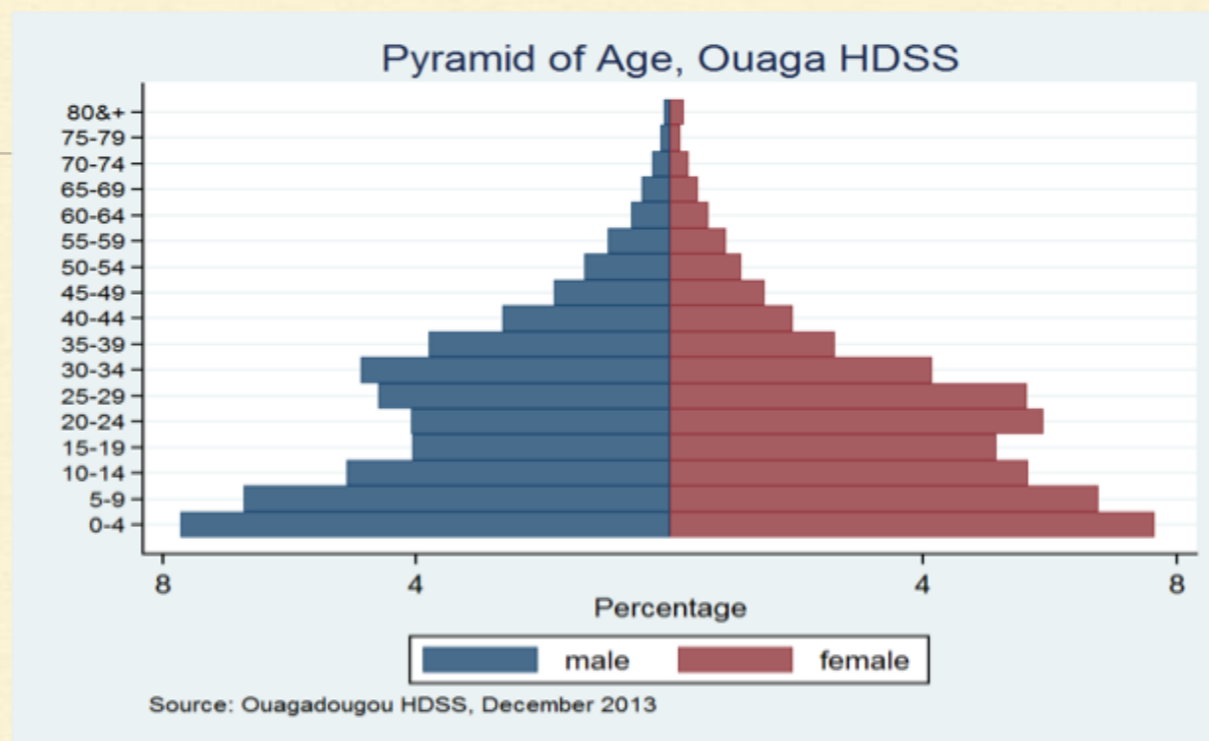
# Routine Information collected

- Vital events : Births, Deaths, Unions, Migration
- Household assets: socioeconomic status
- Education attainments
- GPS coordinates: Households, health facilities, and pharmacies
- Verbal autopsy is used in case of death

# Ouagadougou HDSS: Population dynamics



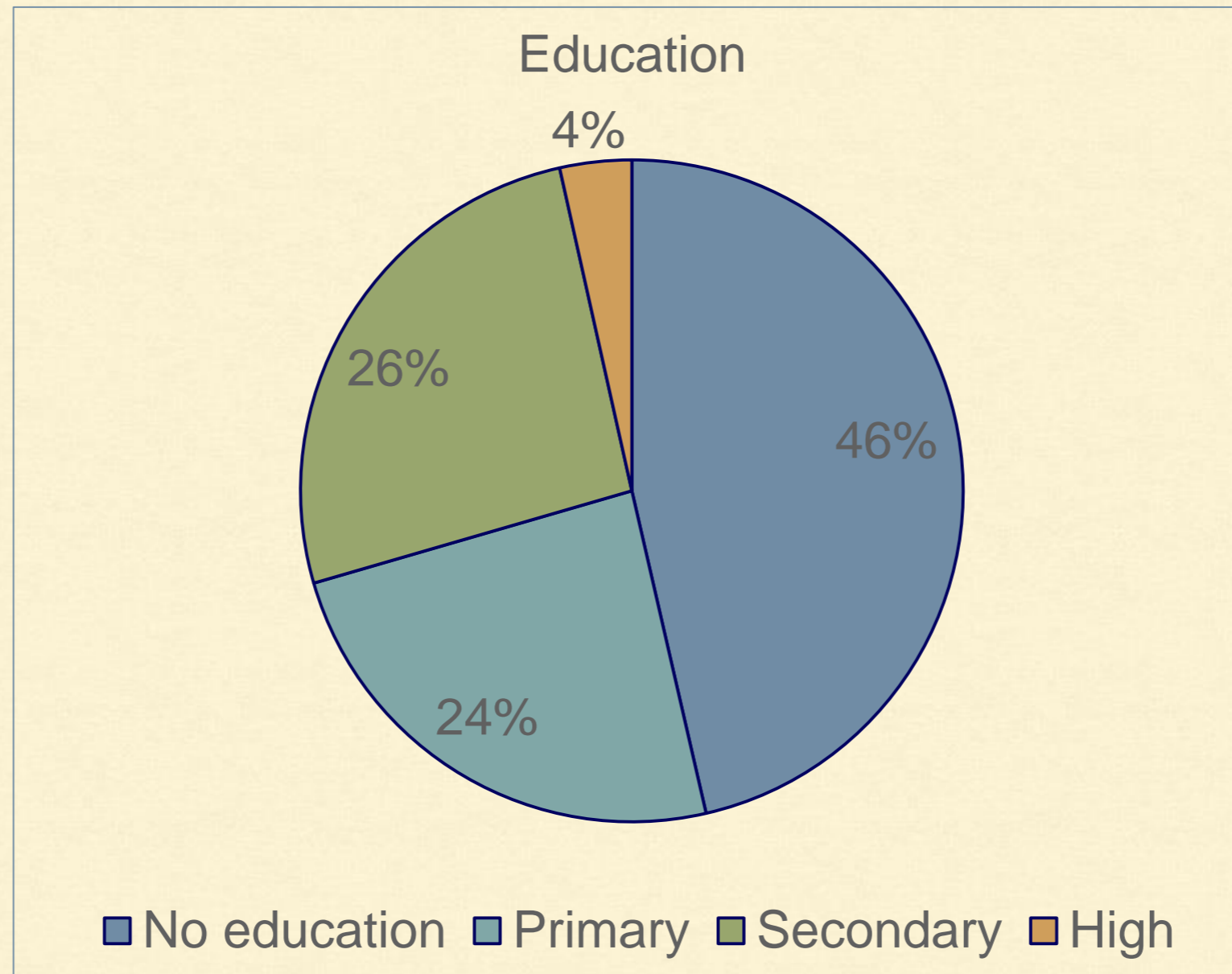
# Ouagadougou HDSS: Population structure



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# Educational level (baseline)

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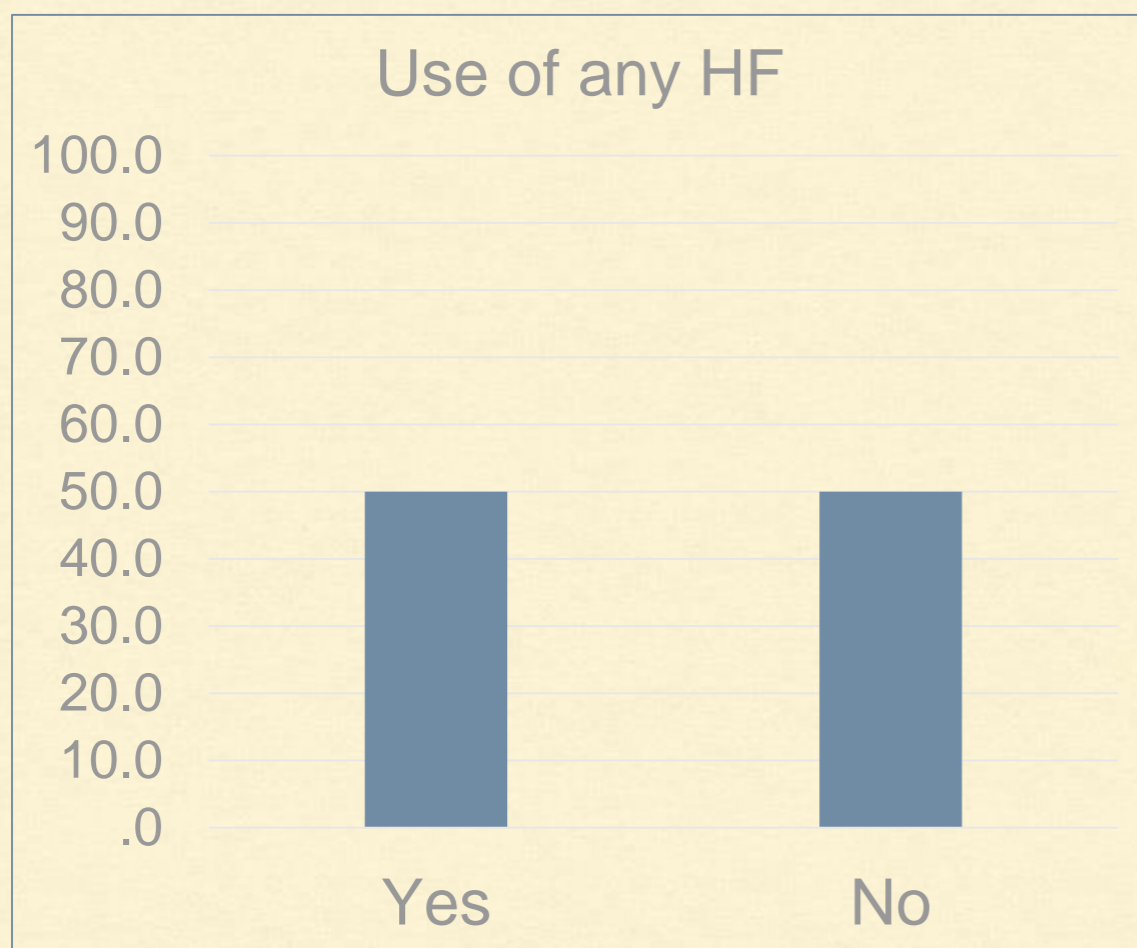
# Recent projects nested to the HDSS

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- Typhoid Fever Surveillance Program in Africa (2011- to date)
- Access to water in informal settlements and health consequences (2012-2014)
- Selection of indigents by the community in an African urban context (2011-2013)
- Heat waves & health consequences (2014-to date)
- Adolescents reproductive behaviour (2015-)

# A health Care utilization survey in 2010

- Health problem during the last 30 days (adults)
- Health care use



## Among the reasons for not consulting

- Poverty (64%)
  - Problem not so serious to require consultation (23%)
  - The household already has the medicine (20%)
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- 43% did self medication
  - 72% of those who did self medication used modern medicine

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# RECENT PUBLICATIONS

Abdramane B. Soura, B. Mberu, P. Elungata, B. Lankoande, R. Millogo, D. Beguy, Y. Compaore (2014), “Understanding inequities in child vaccination rates among the urban poor: Evidence from Nairobi and Ouagadougou Health and Demographic Surveillance Systems”, *Journal of Urban Health*. DOI:[10.1007/s11524-014-9908-1](https://doi.org/10.1007/s11524-014-9908-1).

Abdramane B. Soura, B. Lankoande, R. Millogo, M. Bangha (2014), “Comparing causes of death between formal and informal neighborhoods in urban Africa: Evidence from Ouagadougou Health and Demographic Surveillance System”, *Global Health Action*, 7: 25523 – [DOI: 10.3402/gha.v7.25523](https://doi.org/10.3402/gha.v7.25523)

Boukaré Doulougou, Séni Kouanda, Clémentine Rossier, Abdramane Soura and Maria Victoria Zunzunegui (2014), “Differences in hypertension between informal and formal areas of Ouagadougou, a sub-Saharan African city”, *BMC Public Health* 2014, 14:893. DOI:[10.1186/1471-2458-14-893](https://doi.org/10.1186/1471-2458-14-893).

Valéry Ridde, Clémentine Rossier, Abdramane B Soura, Fiacre Bazié, Kadidiatou Kadio (2014), “A community-based approach to indigent selection is difficult to organize in a formal neighbourhood in Ouagadougou, Burkina Faso: a mixed methods exploratory study”, *International Journal for Equity in Health* 2, 13:31 DOI:[10.1186/1475-9276-13-31](https://doi.org/10.1186/1475-9276-13-31).

Rossier C., Hellen J., 2014, Traditional Birthspacing Practices and Uptake Of Family Planning During the Postpartum Period In Ouagadougou: Qualitative Results, *International Perspectives on Sexual and Reproductive Health*, 40(2):87–94; doi: 10.1363/4008714

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# RECENT PUBLICATIONS

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Djourdebbé Franklin Bouba, Dos Santos Stéphanie, LeGrand K. Thomas and Soura Bassiahi Abdramane (2014), "Environmental factors and childhood fever in areas of the Ouagadougou – Health and Demographic Surveillance System – Burkina Faso", *Journal of BioSocial Sciences*, DOI:[10.1017/S0021932014000479](https://doi.org/10.1017/S0021932014000479).

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Rossier Clémentine, Muindi Kanyiva, Soura Abdramane, Mberu Blessing, Lankoande Bruno, Kabiru Caroline, Millogo Roch (2014), "Maternal health care utilization in Nairobi and Ouagadougou: Evidence from HDSS", *Global Health Action*, 7: 24351 – DOI: [10.3402/gha.v7.24351](https://doi.org/10.3402/gha.v7.24351).

Rossier Clementine, Leigh Senderowicz, Soura Abdramane (2014), "Do Natural Methods Count? Underreporting of Natural Method Use in Urban Burkina Faso", *Studies in Family Planning*, 45(2): 171-182.

Clémentine Rossier, Abdramane Bassiahi Soura, Géraldine Duthé, Sally Findley (2014) Non-communicable disease mortality and risk factors in formal and informal neighborhoods, Ouagadougou, Burkina Faso: Evidence from a Health and Demographic Surveillance System, *PloS One*. DOI:[10.1371/journal.pone.0113780](https://doi.org/10.1371/journal.pone.0113780).

Abdramane Soura, Gilles Pison, Leigh Senderowicz, Clémentine Rossier (2013), "Religious differences in child vaccination rates in urban Africa: Comparison of population surveillance data from Ouagadougou, Burkina Faso", *African Population Studies* 27 (2): 174-187.

Rossier Clementine, Soura Abdramane, Lankoande Bruno (2013) : "Migration et santé à la périphérie de Ouagadougou Une première analyse exploratoire", *Revue Quételet*, 1(1): 91-118.

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- Thank you

- Merci

- Barka

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