



Clinical Research Unit of Nanoro

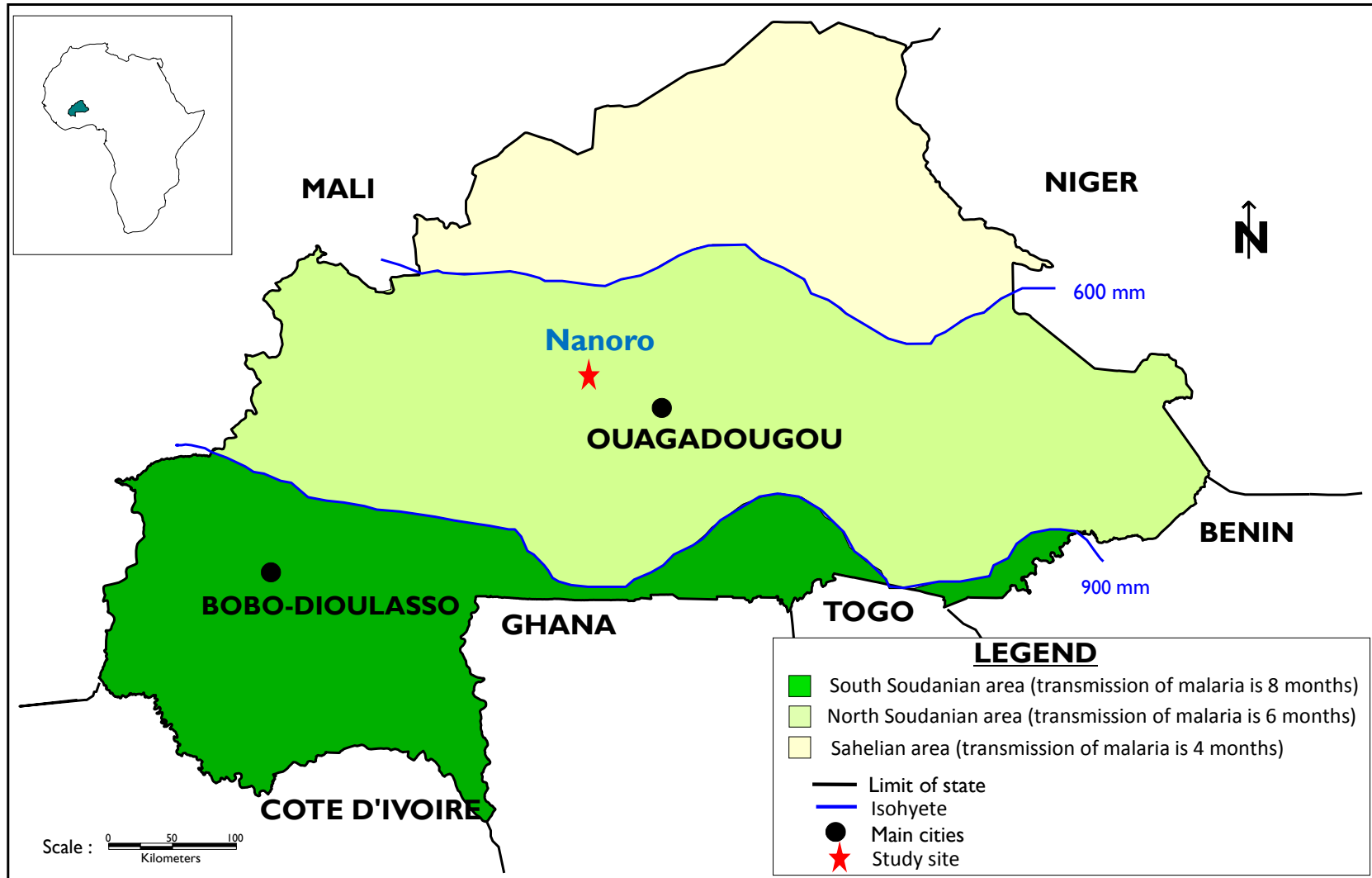
Nanoro HDSS, Burkina Faso

Halidou TINTO

Site Leader

Where is Nanoro ???

Located at Center Western BF, 85 km from Ouagadougou
(latitude 12,41262, longitude -2,11547)



Clinical Research Unit of Nanoro (CRUN)

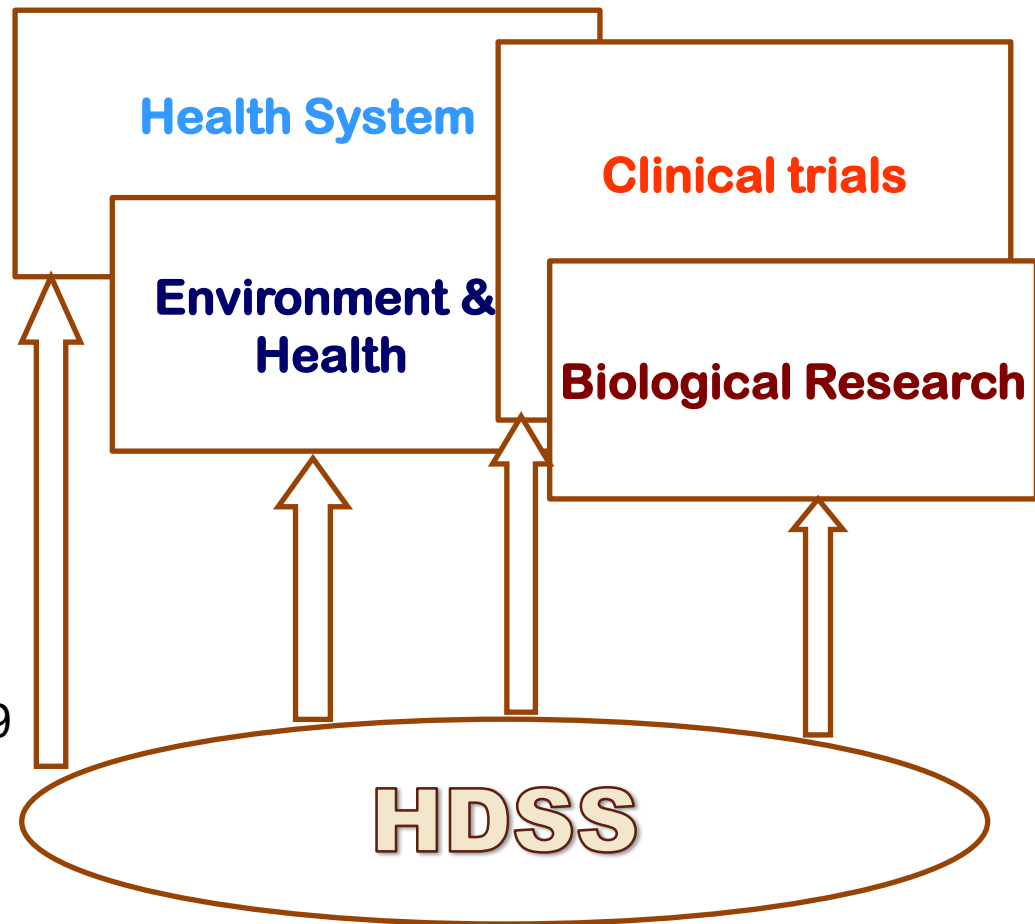
- Platform with Good Capacity for conducting clinical trials at high standard level (ICH/GCP) created in 2009.
- Aiming at:
 - Contributing to the formulation and orientation of African public health strategies and programs,
 - And providing competent young scientists with solid experience in clinical and biomedical research



CRUN building

The Nanoro HDSS

- **Set up in 2009**
- **Joined INDEPTH Network in 2010**



- HDSS baseline → Avril 2009
- RTS,S trial → Octobre 2009
- PV study → May 2010

Health Demographic Surveillance System

A key platform for research activities at CRUN

Staff:

Demographer: 01

Geographer: 01

Field workers: 19

Community informants: 22

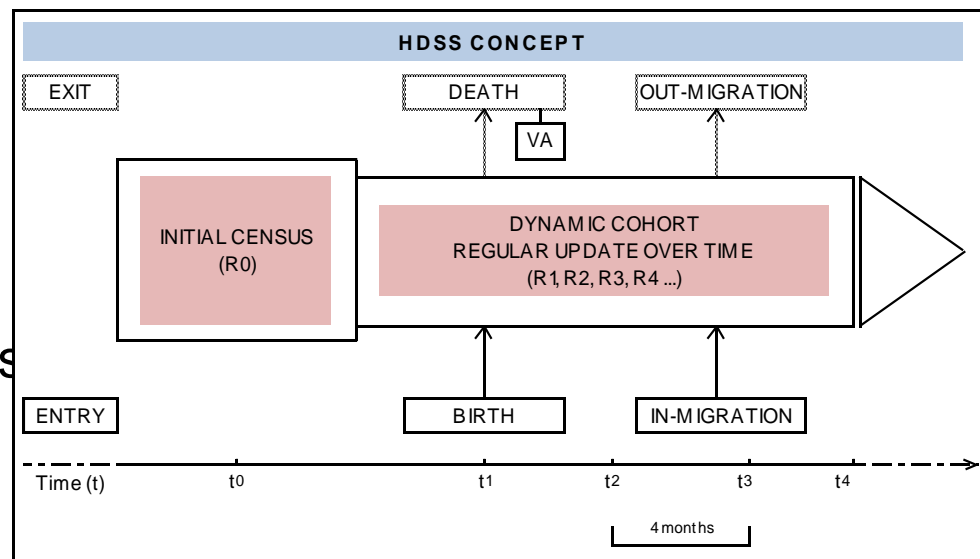
Activities:

1. Collect accurate data and establish the demographic trend, health and socio-economics rates (fertility, mortality, causes of death, migration, immunization);
2. Provide an accurate denominator data used in evaluation of disease burden profiles;
3. Produce comprehensive data easy to use by national health policies makers.
4. Study participants identification and follow-up

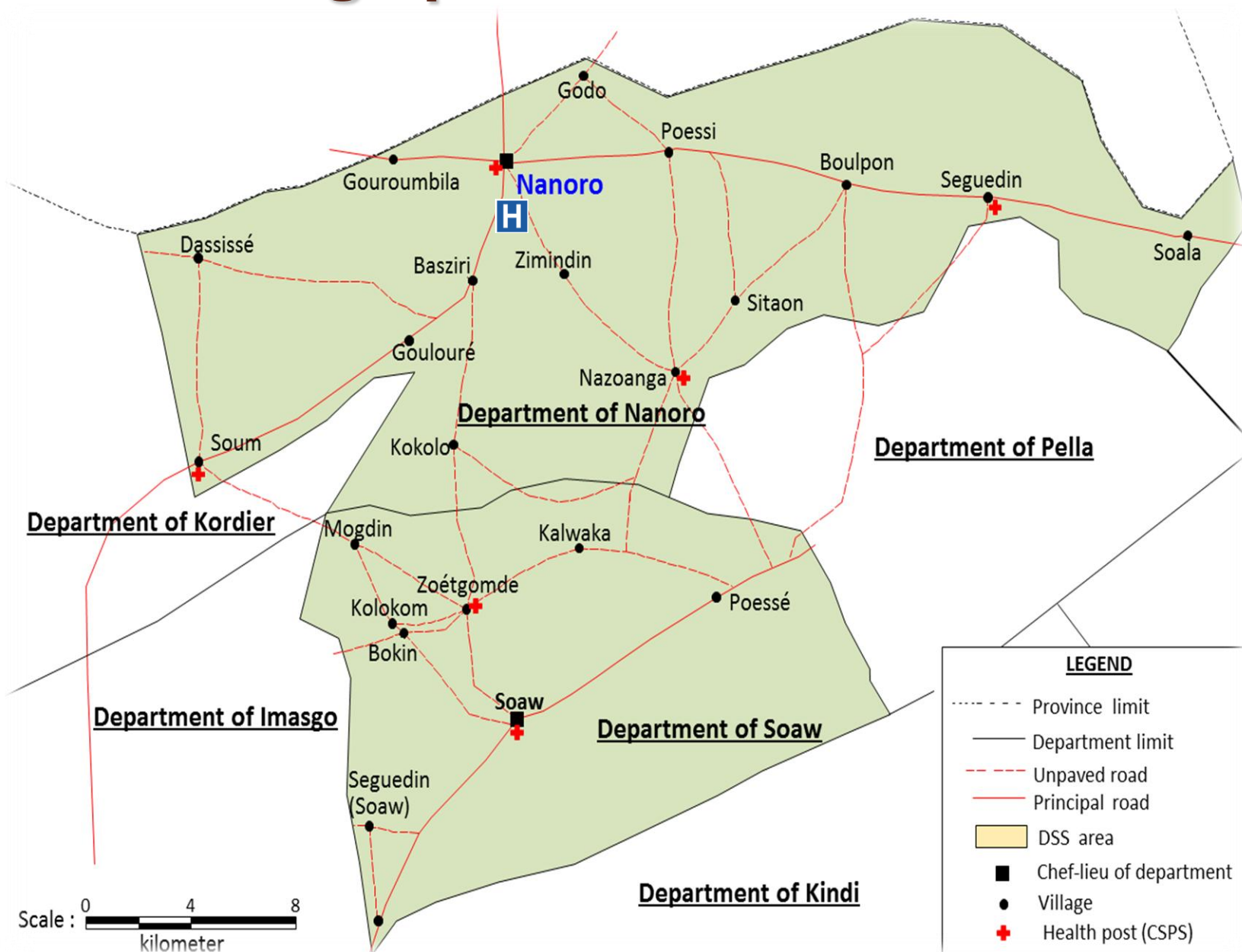
Health Demographic Surveillance System

- ❑ 64,500 inhabitants recorded
- ❑ Regular 4-monthly household updated visits
- ❑ Demographics events monitored:

- Marriages
- Pregnancies
- Births
- In/out migrations
- Deaths + Verbal autopsies



Demographic Surveillance Area



2 Departments; 24 villages; 1 referral hospital; 7 peripheral HC.

CRUN

URCN

Health Demographic Surveillance System



Compounds refresh numerating in one village (Poessi) in DSA, October 2010



Geo-localization in a new compound by the Geographer, October 2010



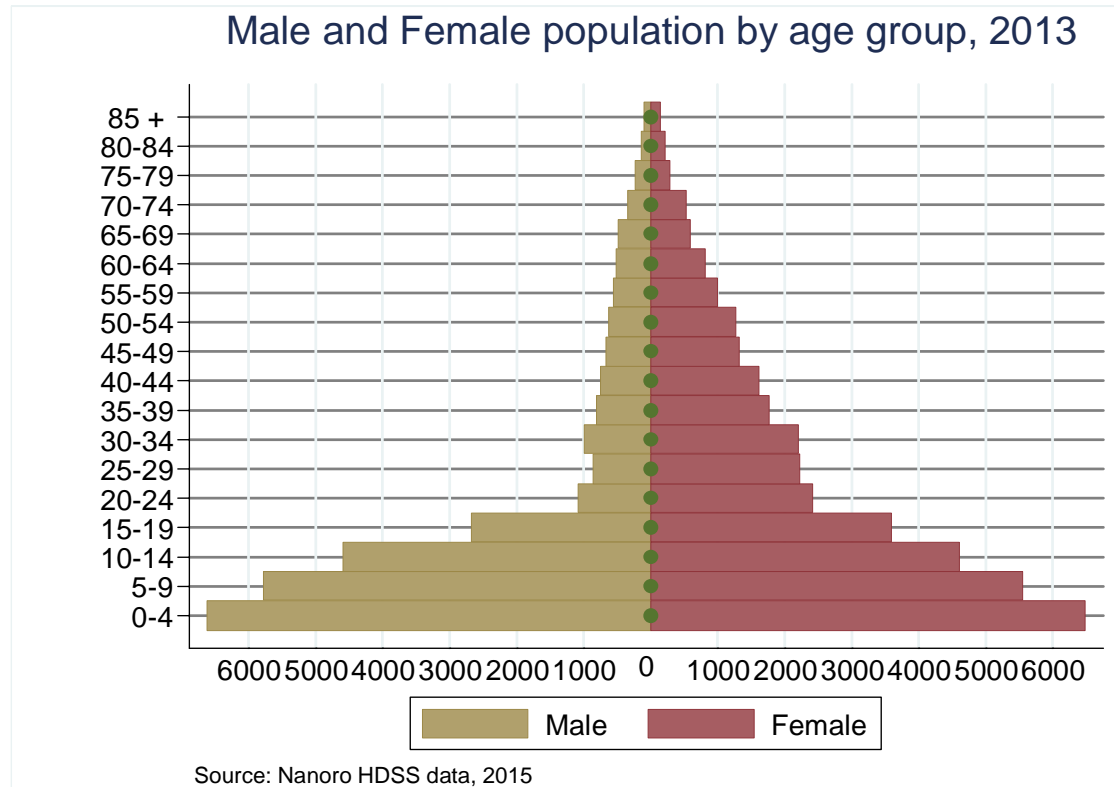
Field's staff refresher training before the 6th round, May 2011



Household interviewing during the 6th round by a Fieldwork, May 2011

Population profile

3 Major ethnic groups : (**Mossi** 90%, **Gourounssi** 7,9% and **Fulani** 1,7%)



Typical of rural low and middle-income countries:

- High birth rate (Total Fertility Rate ~ 5);
- Population is growing rapidly;
- Out-migration is especially high for adult men who move to urban areas looking for jobs

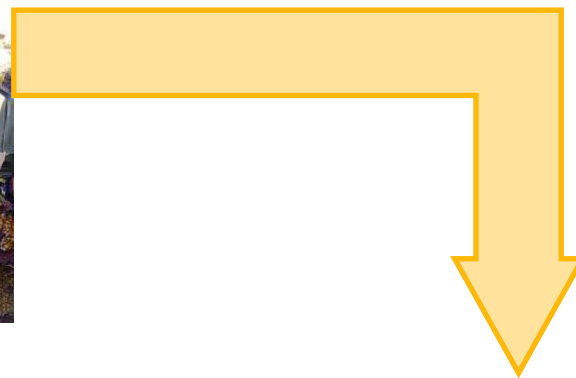
Ongoing Research Projects at CRUN

- **Mal 076:** Extension to study MALARIA-055 PRI (110021) for evaluation of long-term efficacy, safety and immunogenicity of RTS,S'candidate malaria vaccine in infants and children in Africa
- **Mal063 :** Immunogenicity of the hepatitis B antigen of the GSK Biologicals' candidate malaria vaccine (RTS,S/AS01E)
- **SIGMA-TAU:** A phase 2, open-label, multicentre, pharmacokinetic, pharmacodynamics and safety study of a new paediatric eurtartemisinin dispersible formulation and crushed film coated eurtartemisinin tablet, in infant patients with Pf malaria
- **MMV-OZ:** A randomised, double-blind, phase 2b study to investigate the efficacy, safety, tolerability and pharmacokinetics of artefenomel in loose combination with piperaquine phosphate in adults and children with uncomplicated malaria.
- **COSMIC:** Community-based scheduled screening and treatment of malaria in pregnancy for improved maternal and infant health: a cluster-randomized trial (Burkina Faso, Benin and the Gambia)
- **H3AFRICA:** Genomic and environmental risk factors for cardiometabolic diseases in Africans (Kenya, Ghana, Burkina Faso and South Africa)
- **RAPDIF:** A rapid diagnostic test for non-malaria fevers
- **SANOFI – DRI12805:** A Randomized, Double-blind, Phase IIb Study to Investigate the Efficacy, Safety, Tolerability and Pharmacokinetics of a Single Dose Regimen of Ferroquine (FQ) with Artefenomel (OZ439) in Adults and Children with Uncomplicated Plasmodium falciparum Malaria

Perspectives (I)



**For the next (15th) round
in August 2015**



**Move to
electronic data
collection using
tablets.**



Perspectives (2)

- **Staff:**
 - Increase the number of highly trained staff (PhD level)
 - Provide a clear career development plan
- **Clinical trials**
 - Expand the trial portfolio to other diseases
 - HIV, TB, Meningitis , Neglected diseases (Schistosomiasis, leishmania, ...)
- **Training**
 - Offer the site platform and expertise for the training of health professionals (Clinical trials, GCP, GCLP, Evidence based medicine...)

CRUN : Our partners

- Programme National de Lutte contre le Paludisme (PNLP)
- Direction Générale de la Pharmacie, du Médicament et des Laboratoires (DGPML)
- Institut de Médecine Tropicale (IMT), Anvers, Belgique
- University of Washington
- KIT, Amsterdam
- London School of Tropical Medicine, UK
- Liverpool School of Medicine, UK
- INDEPTH network
- Malaria in Pregnancy Consortium
- MALACTRES consortium
- WANETAM Plus
- Clinical Trial Network
- MCTA /ACTA
- GlaxoSmithKline
- Pfizer
- Sanofi Aventis
- Sigma Tau
- Malaria Vaccine Initiative (MVI)
- Medicine for Malaria Venture (MMV)
- Fondation Bill & Melinda Gates
- OMS / TDR
- EDCTP
- European Union



CRUN : An
efficient Platform
for population and
health research



Thanks !