



# Biophysical, institutional and economic drivers of sustainable soil use in yam systems for improved food security in West Africa (YAMSYS)

**Overall objective: Development of soil management innovations for food security, profitability and environmental sustainability of yam systems in West Africa**

## Specific objectives

- Provide a state-of-the-art description of 4 yam pilot sites
- Develop integrated soil fertility management options for yam systems
- Facilitate innovation of soil management options in yam systems
- Communicate and apply results



Yam field, Gaoua, Burkina Faso, 2015

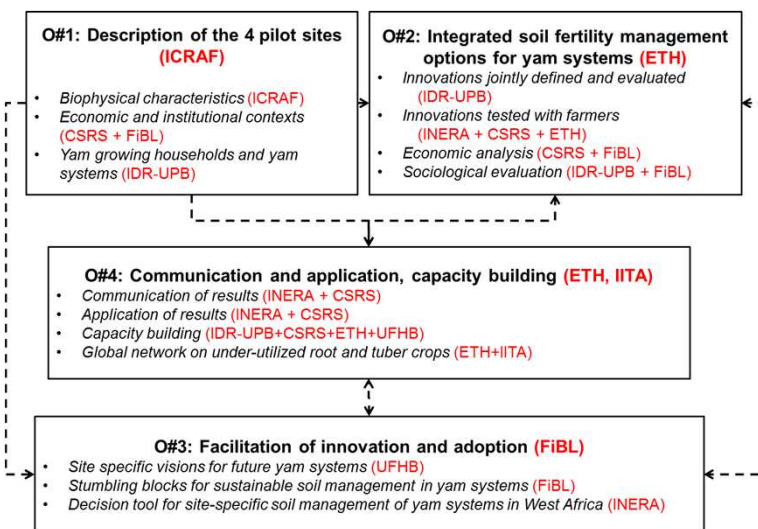


Yam market, Leo, Burkina Faso, 2015



The West African yam belt (Asiedu et al., 2010)

## Project organisation and team



## Expected scientific contributions

- Biophysical, socioeconomic, and institutional drivers of sustainable soil use under yam
- Impact of integrated soil fertility management in yam systems
- Modeling the farm household decision-making process in West African context
- Innovation platforms as a research tool for the development of innovations
- Training scientists, PhD, MSc, undergraduate students
- Research network on under-utilized tropical tuber and root crops

## Development relevance

- Dialog, exchange, partnership and capacity building bring new knowledge on improved soil management into practice
- Decision tool for soil management in yam is used by extensionists and producers
- Improved yam value chain provides more yam for consumers and better income for producers, traders and processors
- Identifying enabling policies related to sustainable yam production

