

# Towards sustainable agriculture: elements for a comprehensive EU strategy

**European Commission DEVCO – C1** 

#### **Contents**



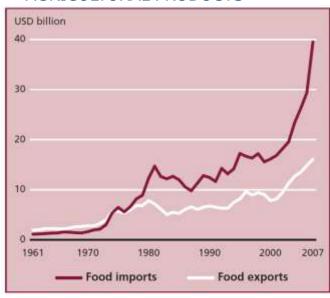
- The need for increasing food production
- II. EU policy framework and priorities for food security and agriculture
- III. An evidence based approach to target EU assistance towards Food and Nutrition Security
- IV. Sustainable agriculture: scope and specificities

I. The need for increasing food production

## Growing and evolving food demand

- Current malnutrition: 910 million malnourished (31% of are in Sub-Saharan Africa)
- Demographic growth (9.3 billion by 2050)
- Changes in the structure of demand (urbanisation, emergent economies)
- ❖ SSA imports roughly 20% of its staple calories

### AFRICAN IMPORTS AND EXPORTS OF AGRICULTURAL PRODUCTS



Source: FAOSTAT, 2011

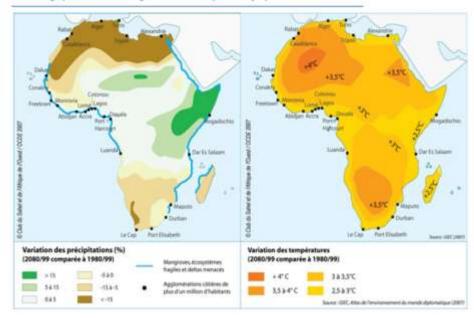
I. The need for increasing food production

## Strong constraints on supply

- Dwindling resources base: limited availability of vacant cultivable land
- Environmental degradation
- Increasing scarcity of non-renewable resources and energy

Climate change

Une image possible des changements climatiques en Afrique



I. The need for increasing food production

According to FAO, world food production should increase by 60% by 2050 (in Sub-Saharan Africa it should at least double)

BUT

Given the <u>increasing scarcity and</u> <u>deterioration of productive resources</u>



Growing food production will imply above all growing yields (intensification)





## II.1. SOME FACTS AND FIGURES ON EU COOPERATION POLICY IN AGRICULTURE

- ❖ EU aid: >1 billion Euro per year for food and nutrition security worldwide
- Priority given to 50 countries
- Political dialogue to be held in each beneficiary country to set up concrete locally-adapted actions in support to agricultural intensification
- Research / management of agriculture related knowledge considered as a Global Public Good



## II.2. FRAMEWORK FOR EU COOPERATION POLICY IN AGRICULTURE AND FOOD SECURITY

- ❖ 'Increasing the impact of EU development policy: 'an Agenda for change' (2011)
- 'An EU policy framework to assist developing countries in addressing food security challenges' (2010)
- 'The EU approach to resilience: learning from food security crises' (2012)
- ❖ 'Boosting food security through EU action: implementing our commitments' (2013)
- ❖ 'A decent life for all: ending poverty and giving the world a sustainable future' (2013)
- 'Enhancing maternal and child nutrition in external assistance: an EU policy framework' (2013)



#### II.3. EU COOPERATION INSTRUMENTS

- European Development Fund (EDF):
  - ACP countries
- ❖ Development Cooperation Instrument (DCI)
  - Geographic: Latin America, Asia
  - > Thematic:
    - Global Public Goods and Challenges (food security, environment, energy, migration and asylum, health, education, culture...)
    - Non State Actors (EUR 2 billion)
- European Neighbourhood Programming Instrument (ENPI)



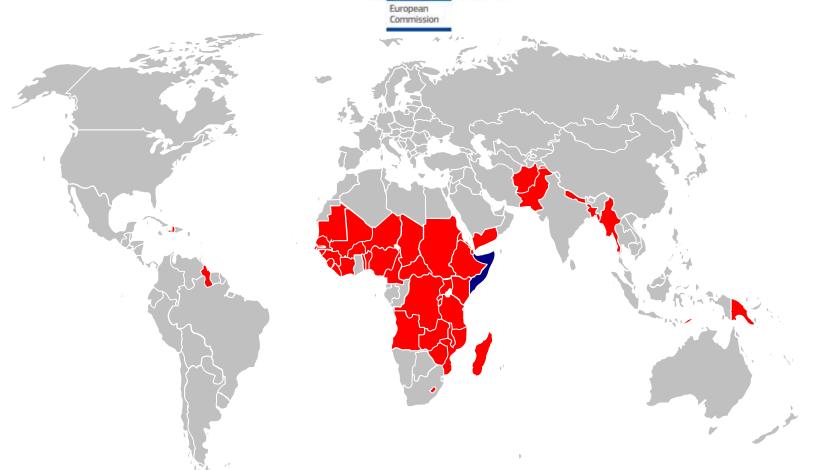
## II.4. MAIN PRIORITIES FOR EU COOPERATION POLICY IN AGRICULTURE AND FOOD SECURITY

- Promoting sustainable agriculture for inclusive growth
- Increasing resilience to food crisis
- Nutrition: Commissioner Piebalgs pledge of committing EUR 3.5 billion in 2014-2020 for fighting malnutrition (target: 7 million children)



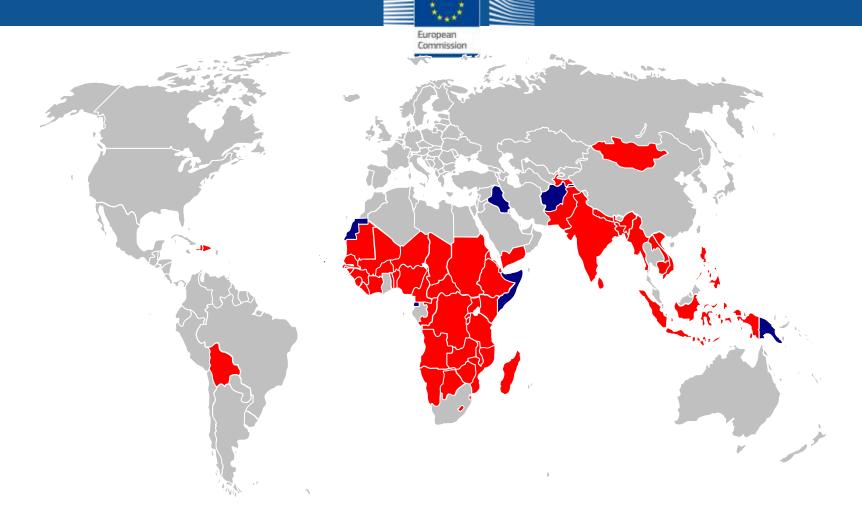
## II.4. DRIVERS OF EU DEVELOPMENT ACTIONS IN AGRICULTURE

- Promoting inclusive and sustainable growth (focus on smallholders)
- Supporting sustainable agriculture
- ❖ Bolstering sustainable management of natural resources: climate change prevention and adaptation; ecosystem services
- Improving crisis prevention and enhancing resilience
- Increasing nutrition-sensitive actions; reducing stunting and wasting



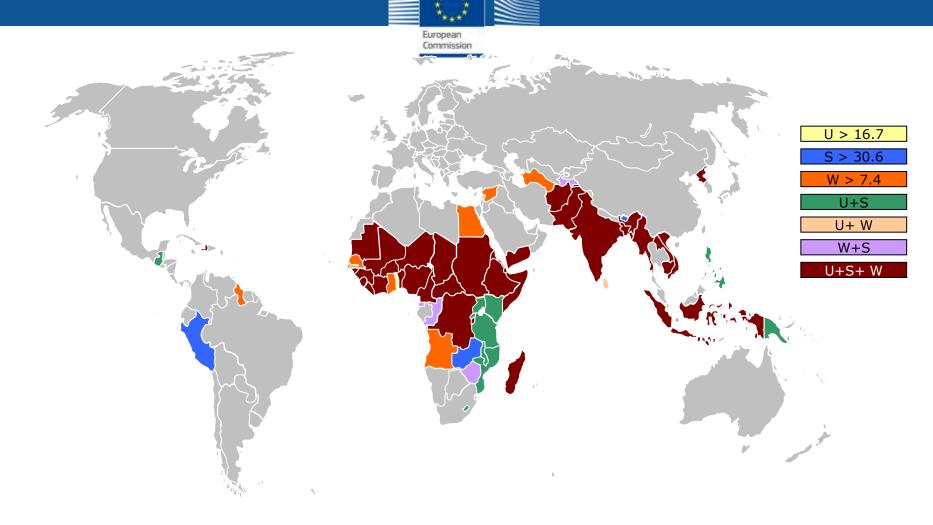
1. HUMAN DEVELOPMENT INDEX HDI - COUNTRIES WITH LOW HDI (< 510)

(RED = CONFIRMED DATA; BLUE PARTIAL DATA) (UNDP 2011)



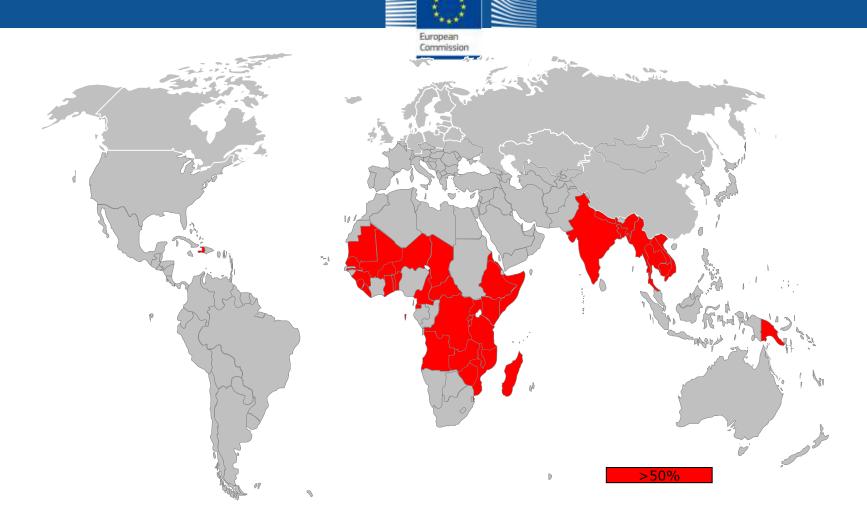
## 2. GLOBAL HUNGER INDEX GHI - COUNTRIES WITH GHI > 10

(RED = CONFIRMED DATA; BLUE PARTIAL DATA)



3. NUTRITION % CHILDREN UNDER 5 YEARS OLD:
UNDERWEIGHT, STUNTING, WASTING AND COMBINATIONS

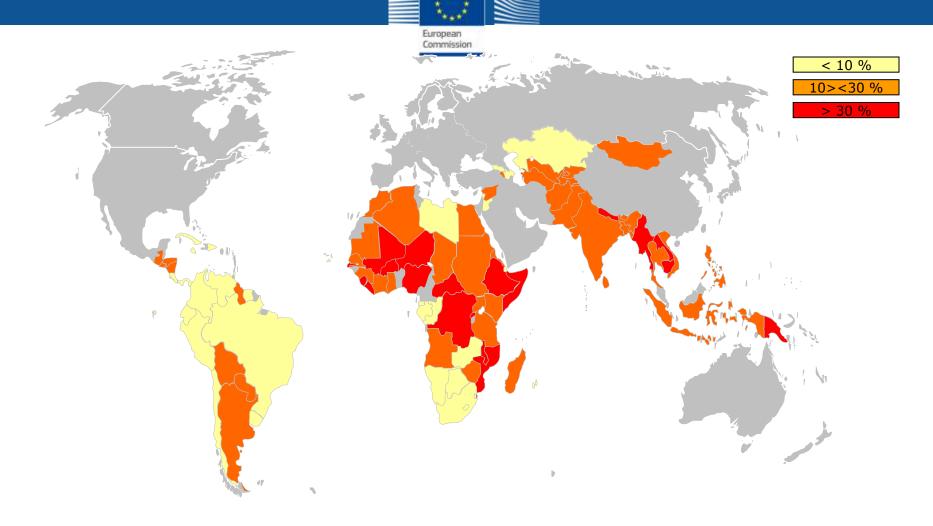
(UNICEF: PROGRESS ON CHILD AND MATERNAL NUTRITION, 2009)



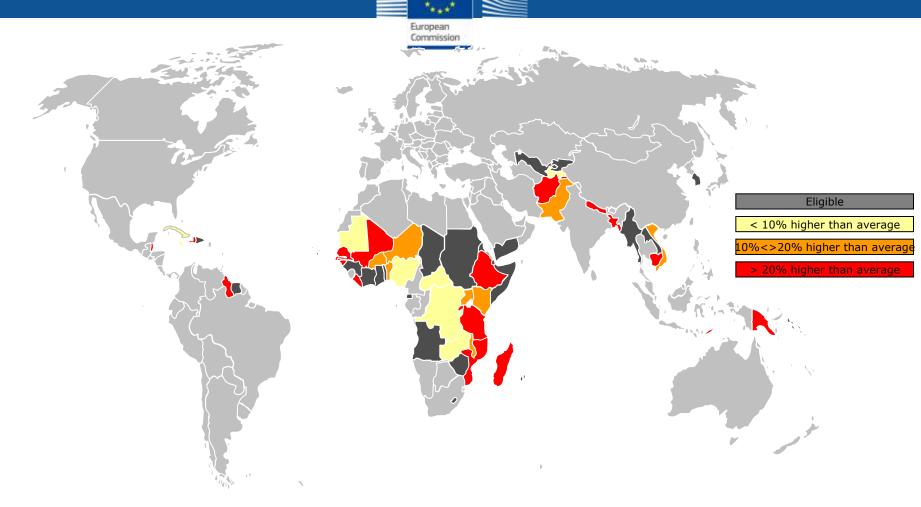
#### 4. AGRICULTURAL EMPLOYMENT

(% OF TOTAL EMPLOYMENT)

**IFAD RPR 2011 (CLOSEST 2007)** 



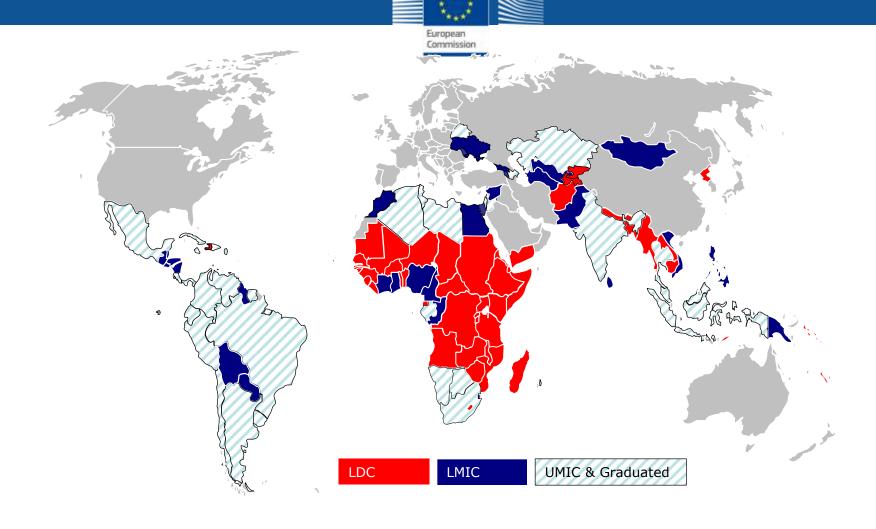
5. VALUE ADDED OF AGRICULTURE (AS % OF GDP) WB 2011



#### 6. GCCA Scores

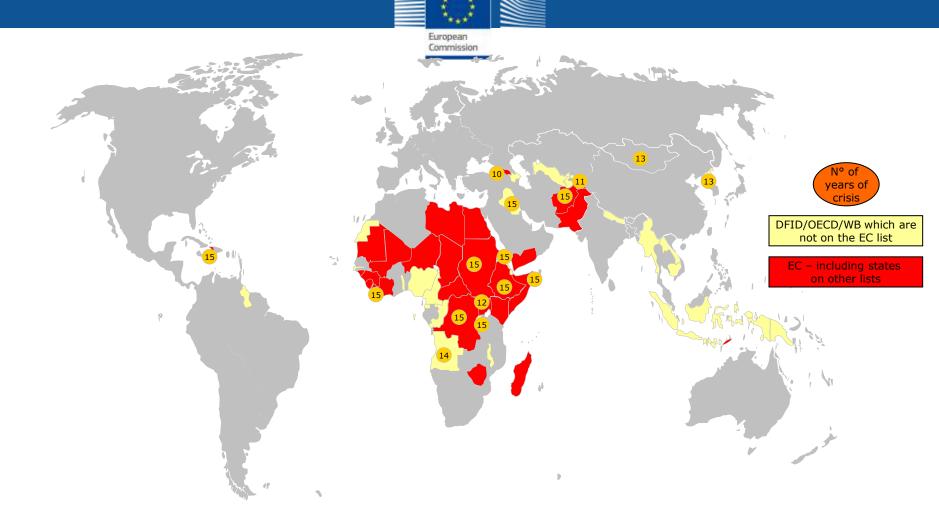
(0 = Lowest priority, 10 = Highest priority) - Average for the concerned list of countries: 4.27

**SOURCE: DEVCO** 

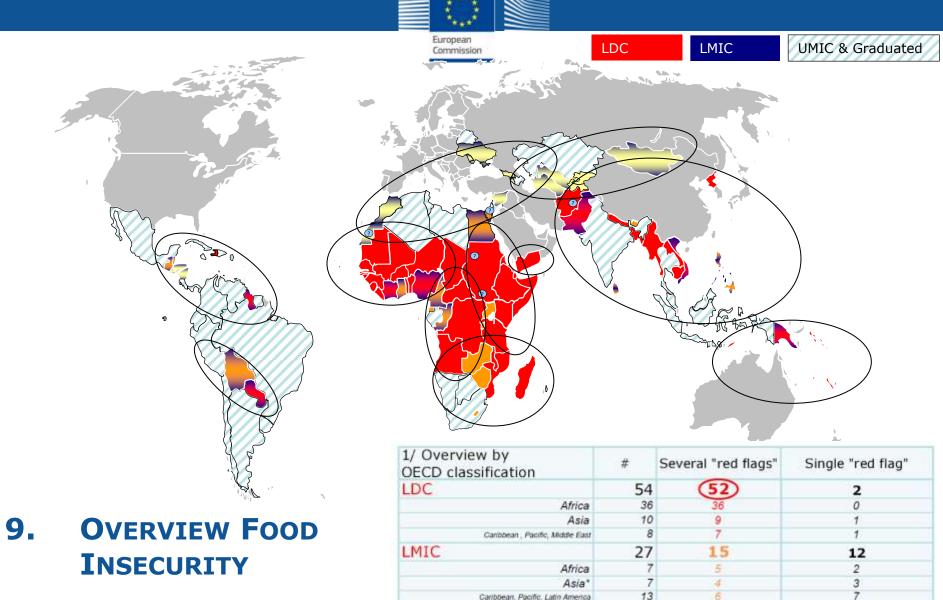


#### 7. DIFFERENTIATION

**OECD LIST OF ODA RECIPIENTS** 



8. FRAGILE STATES
(DFID, WB, OECD AND EC LISTS)



<sup>\*</sup> With the concept of differentiation, the bilateral aid to countries members of the G-20 is phasing out (India, Indonesia)

Occupied Palestinian Territories\*\*

Caribbean, Pacific, Latin America

<sup>\*\*</sup> Weighbourhood countries are not indicated except, for reference, Occupied Palestinian Territories

### As a result of the evidence-based approach:

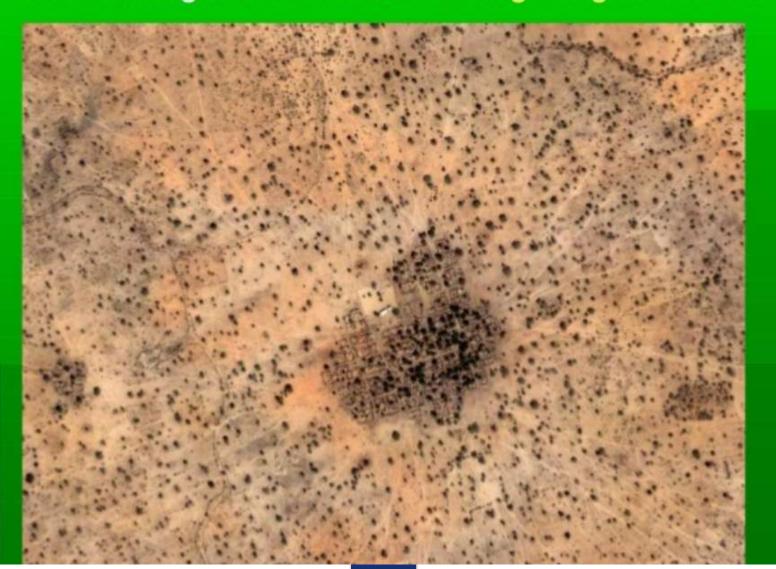
- Priority countries are in broad terms:
  - > The poorest
  - > The most food insecure
  - The ones with the highest percentage of agricultural population
  - The most exposed to adverse consequences of climate change
  - > The main recipients for ODA
  - Often fragile states
- \* Focus on smallholders and staple crops

# Is it actually possible to evolve towards a more sustainable agriculture in extreme contexts...?

Commission

Let's see...

#### Terroir in Niger 19 km North of the Niger-Nigeria Border

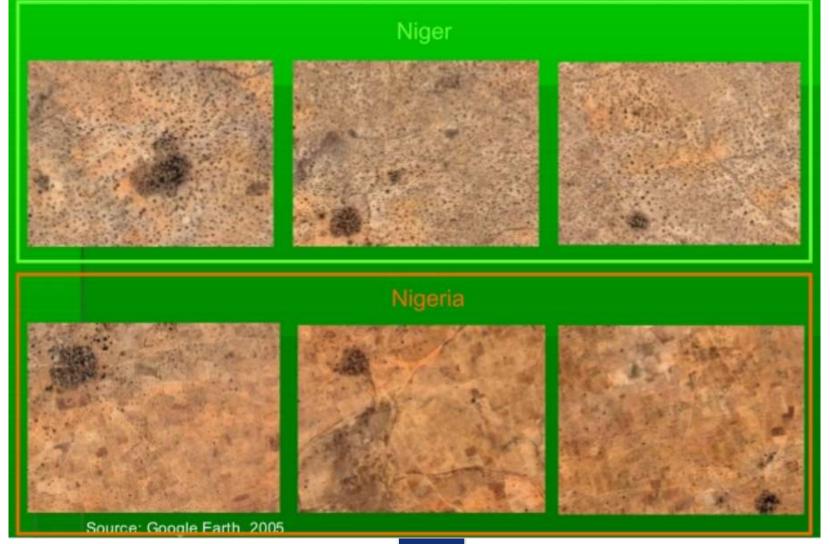








## Comparative Overview of Terroirs on Opposite Sides of the Niger-Nigeria Border







## Which kind of agriculture should be promoted?

## Conventional agriculture (or Green Revolution)?

- High yields
- High labour productivity
   But
- Highly capital-intensive and needing heavy consumption of nonrenewable inputs,
- And responsible for negative environmental externalities

## **Evolving towards sustainable agricultural solutions?**

- Optimised natural resources use (same or less land and water)
- Efficient use of inputs
- Minimized GHG emissions
- Increased natural capital
- Strengthened resilience
- Reduced water/air pollution
   But...

### ...But some specific constraints...

- Uncertainty on feasibility of reaching needed yields
- Long-term return on investment
- No unique model (huge and changing diversity of technical solutions)
- Very knowledge intensive (need for soft investments: technical assistance and training); strong link with research
- Little interest from investors (low level of inputs)
- Highly labour-intensive

# Sustainable agriculture implies necessarily assuring not only environmental but also both economic and social viability

### **Environmental viability**

- Maintaining Natural Capital
- Optimizing of biomass production

### **Economic viability**

- Profitability
- Meeting farmers' food and non-food needs

#### **Social viability**

- Natural resources governance
- Farmers' representativeness (public policies, value chains)

## **Key elements for engaging towards sustainable agriculture**

- Subsidies and incentives are crucial to increase productive assets and promote technical changes profitable only in the long term
- ❖ Soft investments in knowledge should be assumed mainly by public sector
- Innovative risk insurance schemes to be developed through public-private partnerships
- Securing land tenure giving preference to community-based models (VGGT)

## Which kind of financing strategies?

- Key role of public sector: sector support to governments policies
- Mobilising local private investments ('missing middle')
- ❖ Public-private partnerships involving governments, research institutions, companies and smallholders' organisations: blending loans and grants
- Making best use of innovative capacities of civil society organisations (non-profit sector)
- ❖ Payment for ecosystem services of agriculture

## Staple crops: a big potential and an urgent need to focus on

- \* Fertiliser use in SSA 8 kg/ha on average (mostly in cash crops, near to zero for staple crops...)
- Most important market and first employment provider sector in SSA
- ❖ Smallholders (less than 2 ha) are the main staple food producers in SSA
- \* From 60s', gain in yields came mainly from newly cultivated lands; not anymore possible...

(cash crops would also beneficiate from a re-greening...)



## **Philippe THOMAS**

**EuropeAid C1 - Rural development, food security and nutrition** 

Thank you