



Horizon 2020 FNSSA partnership between AU and EU – from roadmap to vision?

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Agriculture
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High level Policy Dialogue (HLPD) on Science, technology and Innovation between African Union and the EU

- HLPD started in 2010
- HLPD adopted a roadmap towards an AU-EU R&I partnership on Food and Nutrition Security and Sustainable Agriculture (FNSSA) in April 2016
- In October 2017, a second priority area was formalised through the adoption of A R&I partnership on Climate Change and Energy Security (CCSE)
- My PPT focuses on the contribution of Horizon 2020 / Horizon Europe

Why FNSSA?

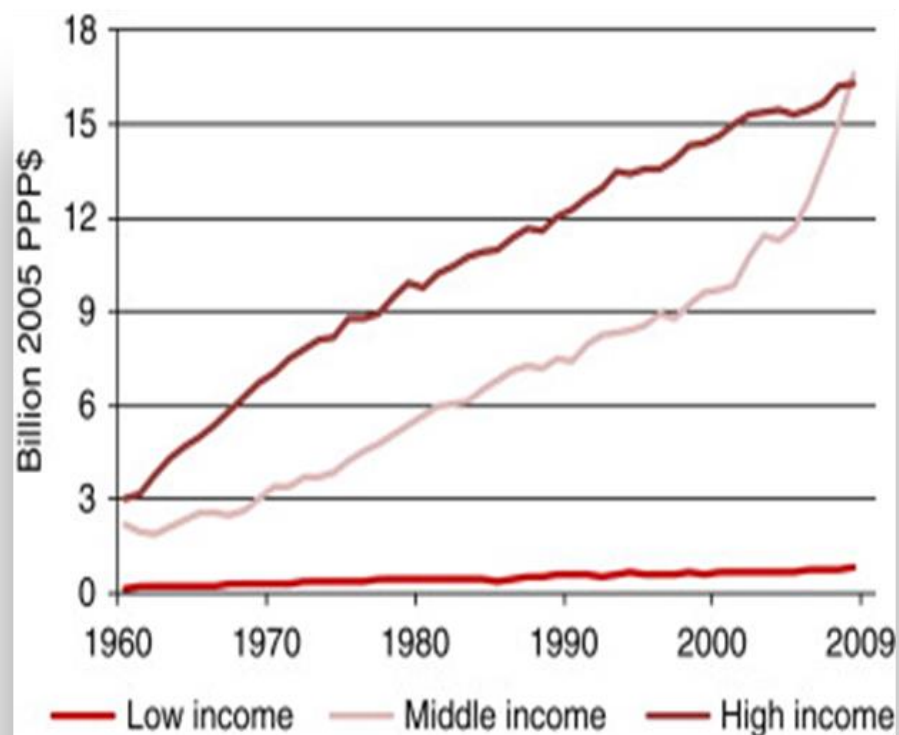
Sustainable Development Goals



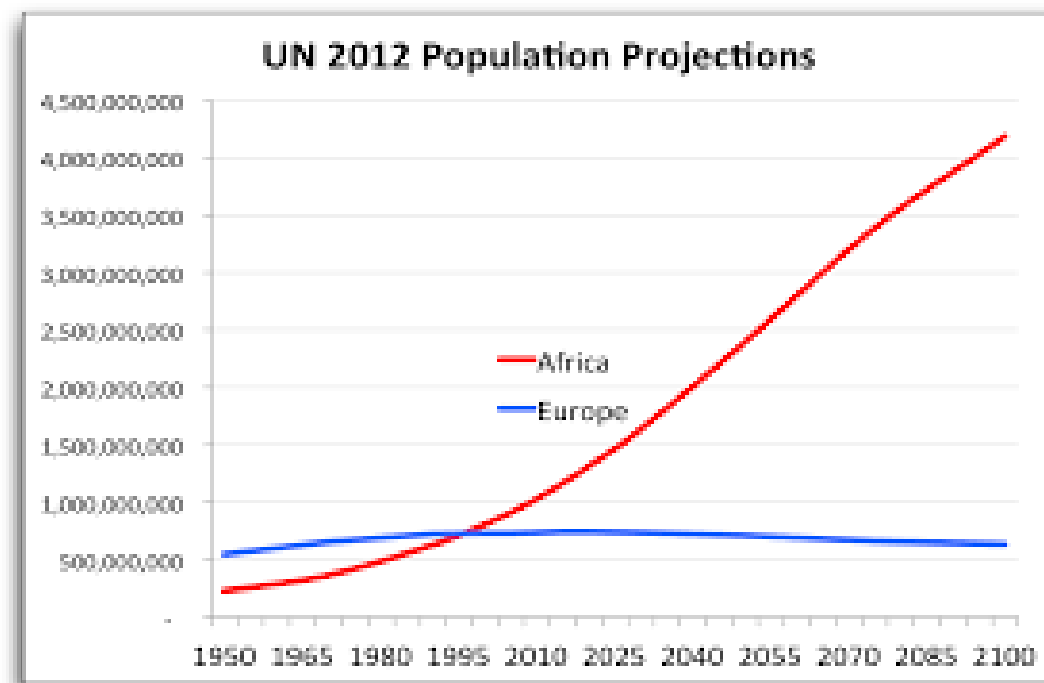
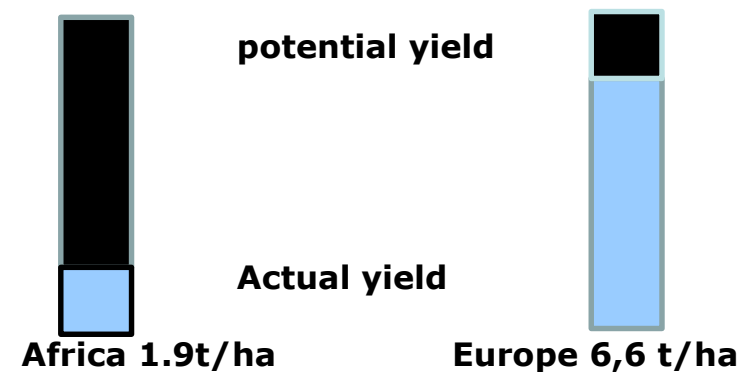
SDG 2: End hunger, achieve food security and improved nutrition, and promote sustainable agriculture

Role of research and Innovation in achieving SDG 2

Public investments in agricultural R&I (Pardey)

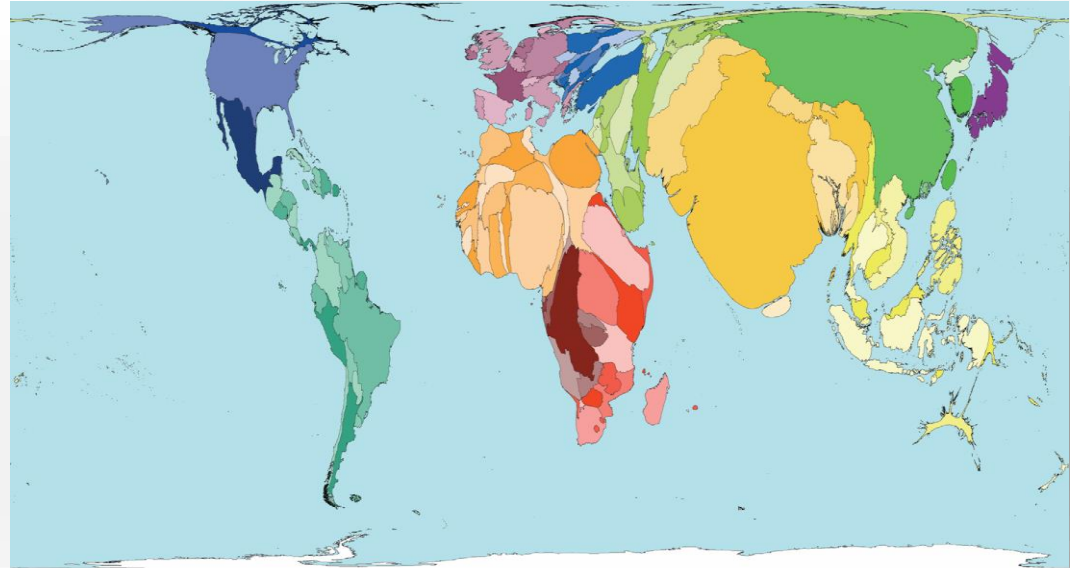


Yield gap

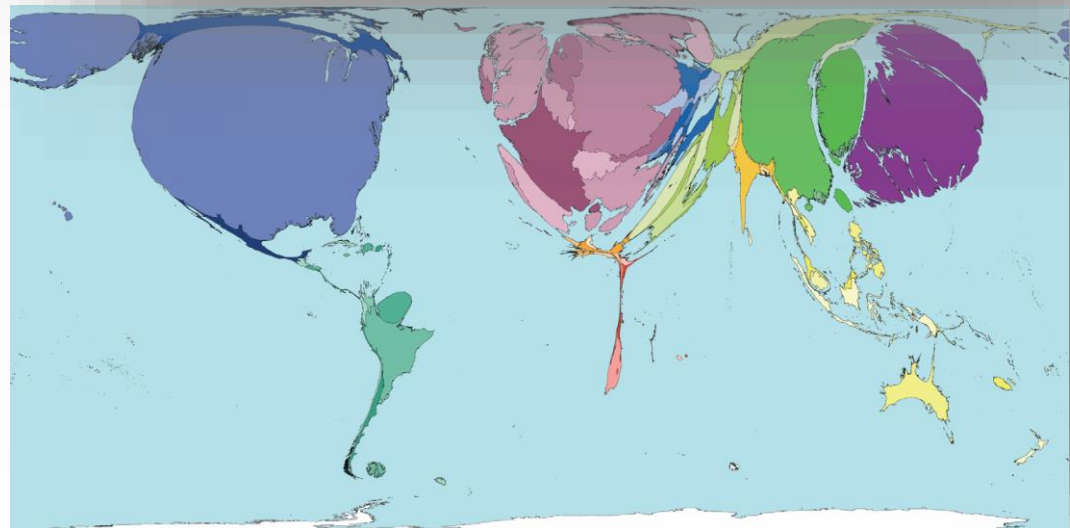


Knowledge and population divide (Worldplanner)

**Population in
2050**



**Research and
development
investments**



**Disconnect between
geography of food demand
and R&I**

Basis for a common research agenda

- *Relevance of the research domain to African and European priorities for sustainable agriculture and food and nutritional security (CAP and CAADP objectives).*
- *Expected impact of research and likelihood of uptake contributes to solutions and evidence for policy change, to positive agricultural and nutritional outcomes and to significant improvements in economies, wellbeing and resilience.*
- *Capacity for joint research in both African and European scientific communities.*
- *Scalability of research & innovation impact at national or regional scales.*
- *Complementarity to existing bilateral and multilateral collaboration.*

4 common R&I priority areas

Sustainable
intensification

Agriculture
and food
systems for
nutrition

Expansion
and
improvement
of agricultural
markets and
trade

Cross cutting issues

Priority areas

1. Sustainable Intensification

2. Agriculture and food systems for nutrition

3. Expansion and improvement of agricultural markets and trade

- **Ecological Intensification approaches**
- **Maintain / increase productivity through breeding, improving health and feed**
- **Animal and crop health incl. aquatic and inland fisheries**
- **Soil, water land and inputs management**
- **Marine planning and functional marine ecosystems**
- **Organisational innovations to facilitate research uptake**

Priority areas

1. Sustainable Intensification

2. Agriculture and food systems for nutrition

3. Expansion and improvement of agricultural markets and trade

- Research on improved value chains to deliver nutritious rich foods
- Improving nutritional value of crops
- Understanding consumer behaviour
- Public – Private partnerships to improve nutritional quality of foods

Priority areas

1. Sustainable Intensification
2. Agriculture and food systems for nutrition
3. Expansion and improvement of agricultural markets and trade

- **Surveillance, monitoring and diagnostic systems for sanitary and phytosanitary and food safety**
- **Science Agenda of mutually beneficial bio-economy innovations**
- **Reducing excessive fluctuations and improving resilience of food systems**
- **Global market chains and market power**

Cross-cutting priorities

1. Creating a framework for improved coordination
2. Supporting innovation processes
3. Strengthening the capacities for collaboration
4. Understanding social and cultural contexts

- Establishing a mechanism to account for R & I projects, infrastructure and capacity development initiatives
- ‘Clearing house’ / ‘Sorting house’ mechanisms for mapping what exist and assessing relevance of interventions

Cross-cutting priorities

1. Creating a framework for improved coordination
2. Supporting innovation processes
3. Strengthening the capacities for collaboration
4. Understanding social and cultural contexts

- Extending / adapting existing multi-stakeholder dialogue mechanisms
- Adequate information flows
- Developing funding streams for innovators
- Training innovation brokers
- Promoting Intellectual property rights
- Research innovation process and on social & cultural contexts

Cross-cutting priorities

1. Creating a framework for improved coordination
2. Supporting innovation processes
3. Strengthening the capacities for collaboration
4. Understanding social and cultural contexts

- **Development of human capital and addressing gender issues**
- **Improvement in Infrastructure**
- **Promoting functional networks between scientist and stakeholders**
- **Investing in ICT**
- **Establishing partnerships platforms between Europe and Africa**

Cross-cutting priorities

1. Creating a framework for improved coordination
 2. Supporting innovation processes
 3. Strengthening the capacities for collaboration
 4. Understanding social and cultural contexts
- **Social / cultural barriers to agricultural change**
 - **Cultural background to and characteristics of farming systems**
 - **Nature of economic and social interests**
 - **Factors of change**
 - **Youth unemployment**

Horizon 2020



1. Health, demographic change and wellbeing

2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bio-economy
(€3.8 billion 2014-2020)

3. Secure, clean and efficient energy

4. Smart, green and integrated transport

5. Climate action, resource efficiency and raw materials

6. Inclusive, innovative and reflective societies

7. Secure societies

H2020 contribution

- *SFS-06-2014 – Sustainable intensification pathways of agro-food systems in Africa: **PROIntensAfrica** (2015-2017)*
- *SFS-41-2016: EU-Africa Research and Innovation partnership on food and nutrition security and sustainable agriculture: **LEAP AGRI** – ERANET co-fund*
- *SFS-45-2016 - Promoting food and nutrition security and sustainable agriculture in Africa: the role of innovation: **InnovAfrica***
- ***AfriCultuReS**: Enhancing Food Security in AFRICan AgriCULTUral Systems with the Support of REmote Sensing (2017-2021) (SFS-43-2017)*

H2020 contribution (cont)

- *SFS-33-2018 – **LEAP4FNSSA***
- *LC-SFS-34-2019 – Food Systems Africa*
- *SFS-35-2019-2020: sustainable intensification in Africa:*
 - A – African Farming systems, sustainable intensification parthways
 - B – Soil system for Africa
 - C (2020) – Vector-borne diseases in Africa
- *SFS-36-2020 – Diversifying revenue in rural Africa through bio-based solutions*

What next?

- Report of the Task Force Rural Africa (TFRA):
 - **Boosting research, education and innovation systems**
 - **Improve coordination of research and invest in vocational training**
 - **Set up multi-stakeholder platforms and innovation hubs**
- TFRA recommendations supported by **AU-EU Agriculture Ministerial conference** (June 2019). Action agenda on R&I: DeSIRA (adaptation to CC); expand FNSSA country coverage; support collaborative R&I; PANAP
- President Von der Leyen's agenda for Europe: ***"I would like Europe to have a comprehensive strategy on Africa" + A European Green Deal***

What next?

- **Cluster 6** – intervention area Agriculture, forestry and rural areas – Council added broad line « Fostering international partnerships for sustainable agriculture for food and nutrition security »
- Draft **Strategic orientations – Cluster 6** – International cooperation: « The development of an EU-AU R&I partnership will be continued in areas such as FNSSA and climate resilience »
- **Soil health and food** mission area – impact on work with Africa?

What next?

- ***Bases** are there to boost the partnership under Horizon Europe*
- ***Boost coordination among R&I activities** – International Research Consortium (IRC)*
- *Need to develop a **clearer vision and raise the profile** of the partnership*