Desafíos de desarrollo rural y retos de las políticas: síntesis de las problemáticas a nivel internacional

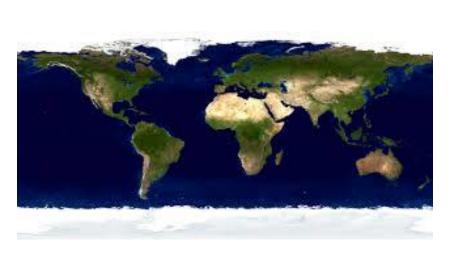
Patrick Caron Presidente HPLE/CFS, CIRAD — Université de Montpellier 5 de septiembre 2018

Seminario internacional:

Políticas públicas y desarrollo rural en América Latina: balance y perspectivas 5 al 7 de septiembre 2018, Cali, Colombia















**** Action Framework

SUSTAINABLE GEALS DEVELOPMENT GEALS







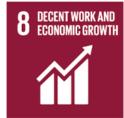




































| | Global issues on the international agenda in 2018

UN priorities:

- > Equitable globalization
- Climate action
- Human mobility / Migrations
- > Technology
- > Counter-terrorism
- Sustaining peace
- Countering nationalism
- Gender equality

UNGA 2018: 'Making the UN Relevant to All People: Global Leadership and Shared Responsibilities for Peaceful, Equitable and Sustainable Societies'

WSF priorities:

- Women's rights
- Youth precarity
- Environment and climate change
- Financial regulation

WSF 2018: 'To resist is to create, to resist is to transform'

WEF priorities:

- Women's empowerment
- Financial regulation
- Protectionism vs. multilateralism
- Carbon pricing
- > Youth employment
- rechnology. Al and cyber-security
- Private sector engagement

WEF 2018: 'Creating a Shared Future in a Fractured World'



Gaps
Amnesia
Crisis, urgencies and volatility



High Level Panel of Experts on Food Security and Nutrition (HLPE), Science-policy interface of the Committee on World Food Security (CFS)

2nd HLPE note on Critical and emerging issues for FSN 2017





HLPE Roles (as per CFS rules)

- i) Assess and analyze the current state of food security and nutrition and its underlying causes.
- (ii) Provide scientific and knowledge-based analysis and advice on specific policy-relevant issues, utilizing existing high quality research, data and technical studies.
- (iii) Identify emerging issues, and help members prioritize future actions and attentions on key focal areas.





In 2016, CFS requested the HLPE:

To produce a second note on Critical and emerging issues (C&EI) for FSN,

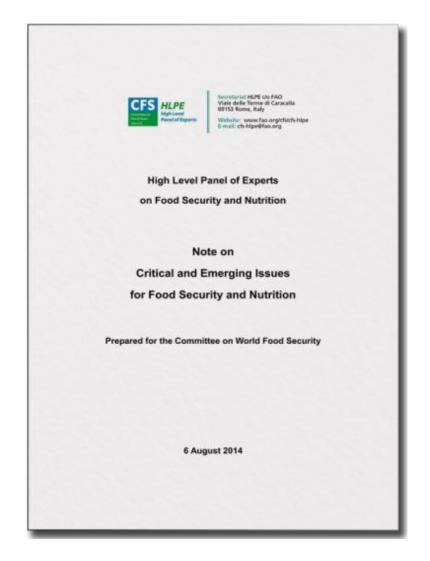
providing insights, through an evidence-based perspective, built on the knowledge of diverse actors

http://www.fao.org/cfs/cfs-hlpe/critical-and-emerging-issues/en/





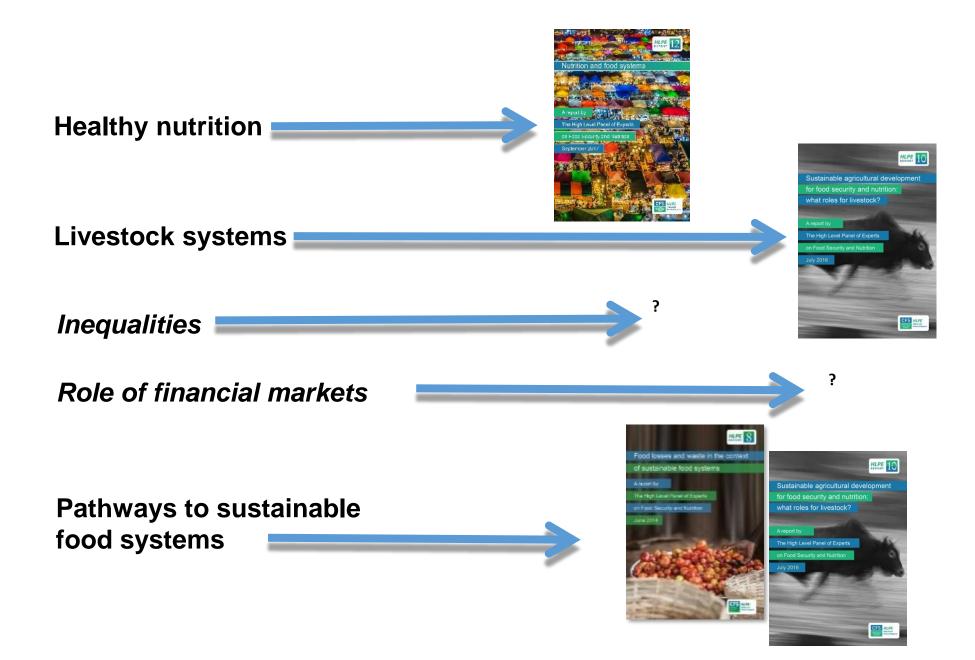
Not from scratch!



Critical: "an issue that has a profound influence on one or more of the dimensions of food security, either directly or indirectly, positively or negatively"

Emerging: "an issue for which there are concerns that they could become critical in the future"

First note 2014: 5 interrelated issues





Results of inquiry 2014 - 2017

	2014	2017
Knowledge organizations, institutions and knowledge networks	·	104 issues (from 38 sources out of 181 invited)
Open consultation	42 issues (from 28 sources)	70 issues (from 42 sources)
Total	132 issues 590 pages from 53 contributors	174 issues 915 pages from 80 contributors

9 critical and emerging issues in 2017 to complete 5 in 2014

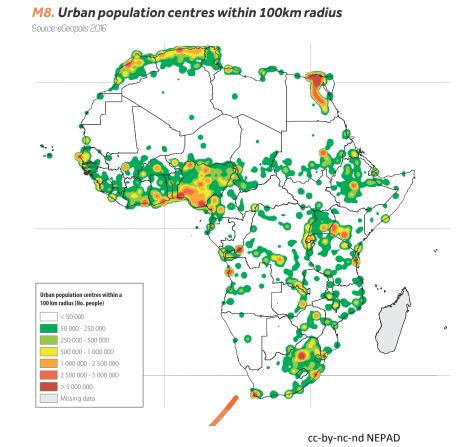
- 1. Anticipating the inter-connected future of urbanization and rural transformation
- 2. Conflicts, migrations and FSN
- 3. Inequalities, vulnerability, marginalized groups and FSN (reviewing C&EI, 2014)
- 4. Impacts of trade on FSN
- 5. Agroecology for FSN in a context of uncertainty and change
- 6. Agrobiodiversity, genetic resources and modern breeding for FSN
- 7. Food safety and emerging diseases
- 8. From technology promises towards knowledge for FSN
- 9. Strengthening governance of food systems for an improved FSN

1. Anticipating the inter-connected future of urbanization and rural transformation

30% people in cities in 1950, 66% in 2050.

Cities: a powerful driver of change and innovation in urban / rural areas





2. Conflicts, migrations and FSN



Increasing number of international migrants (conflicts, natural disasters, shocks and crises)

173 million in 2000

244 million in 2015



How do food systems operate in times of conflict?

FSN consequences of conflicts?

Designing food systems resilient during conflicts and crises?

3. Inequalities, vulnerability, marginalized groups and FSN (reviewing C&EI, 2014)



One of the main causes of food insecurity and malnutrition





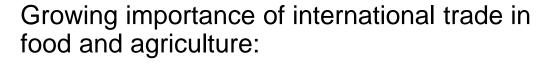
Reducing inequalities to build peace and prevent conflicts and migration?

Empowering women and youth employment programmes for social justice and better FSN?

4. Impacts of trade on FSN

Photo credit: Maersk





1 /6 people obtain their staple calories from international trade

1 /2 by 2050



Power imbalances and increasing concentration in food and agriculture commodity markets?

International trade strategies and rules that respect national FSN objectives and needs?

Rebuild a common basis for multilateral negotiations?



5. Agroecology for FSN in a context of uncertainty and change

Gaining traction and challenge to harness contributions of such innovative approaches

Contribution to resource efficiency; strengthen resilience; secure social equity / responsibility?

Integration of different knowledge systems?

Enabling conditions?



6. Agrobiodiversity, genetic resources and modern breeding for FSN



Improving resource efficiency and strengthening resilience to biotic and abiotic threats and shocks... Yet:

30 crops / 95 % of food energy needs 75 % food production / 12 commercial crops and five animal species



Diversification of crop species?

Participatory breeding initiatives and seed systems?

Protecting agrobiodiversity?

Global regulations for modern breeding?

7. Food safety and emerging diseases

Food safety, food-borne diseases, antimicrobial resistance: major challenges. In 2010: 31 food-borne hazards = 600 million food-borne illnesses and 420 000 deaths

Comparable with major infectious diseases

International and national initiatives to be strengthened and developed to address food-borne hazards? Adapting them?

Large-scale industrial agricultural model supplying global value chains more or less likely to result in greater food safety incidents? localized food systems?



Photo: ILRI/Hardisman Dasman



8. From technology promises towards knowledge for FSN

Science, technology and innovation: engine in the past, pivotal in the future. Taking stock of modern science advances (e.g. genetics, data) and knowledge

Positive and negative impacts: risks, mistrust and controversies

Technology gap/ adapted innovation, including insecure people

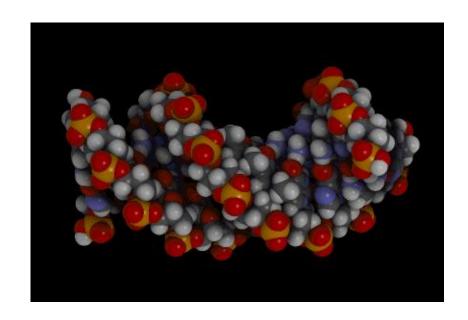
Knowledge and technologies for FSN?

Processes, partnerships, regulations and institution?

Technology related risks through regulatory frameworks?

Which metrics:





9. Strengthening governance of food systems for an improved FSN

To steer transformation, inclusive and inter-sectoral governance mechanisms are needed at all scales:

policy coherence across scales and sectors

specific issues (erosion of diversity, power imbalance, footprints, etc.)

Local initiatives through territorial approaches?

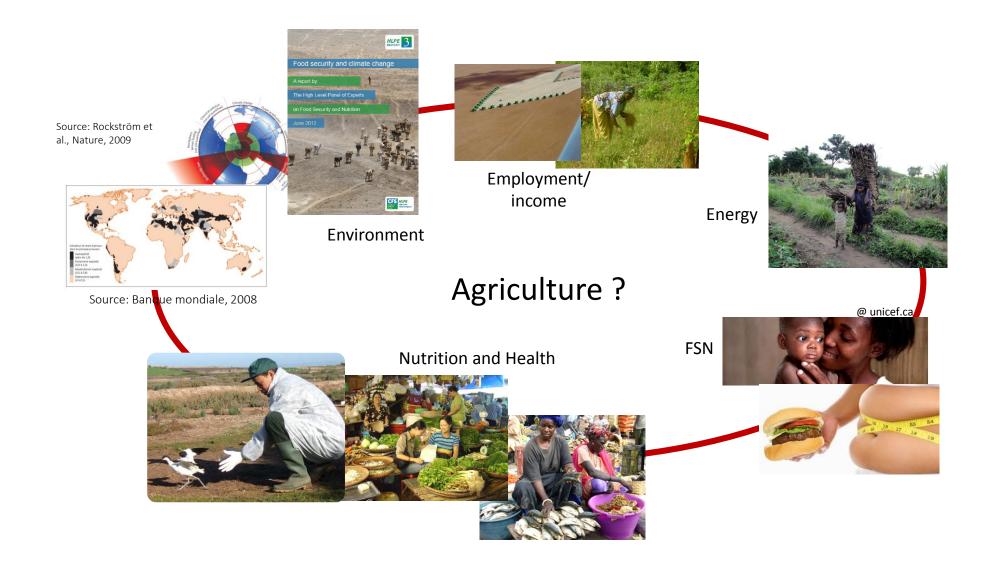
Inclusive and intersectoral functioning of policies and institutions?

Innovation and institutions for FSN and alignment of local, national and international arrangements? FSN concerns in global agreements and conventions? trade-offs impacting FSN?





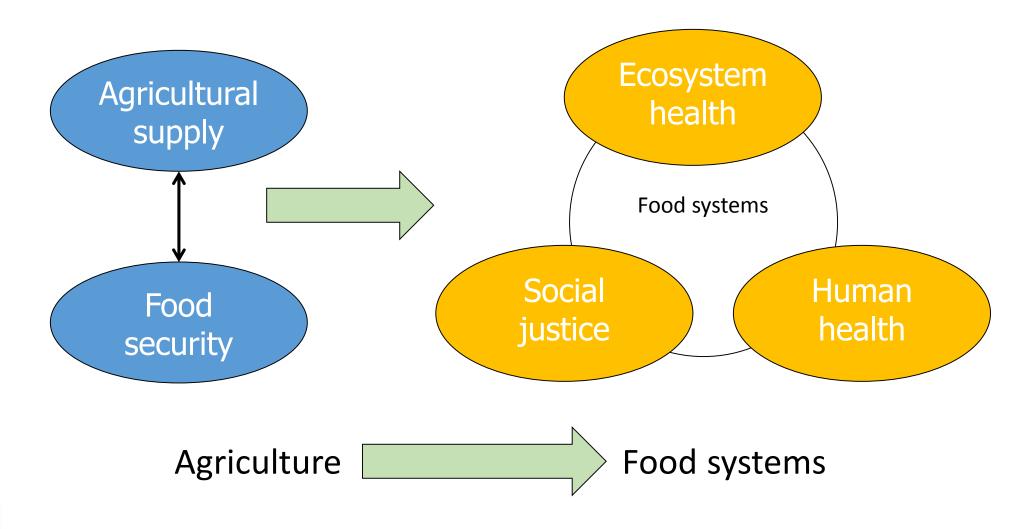
Multifunctional agriculture at the heart of complex interactions and equations







Agriculture / food systems: lever for FSN and Agenda 2030!







REVIEW ARTICLE

Food systems for susta four-part transformation

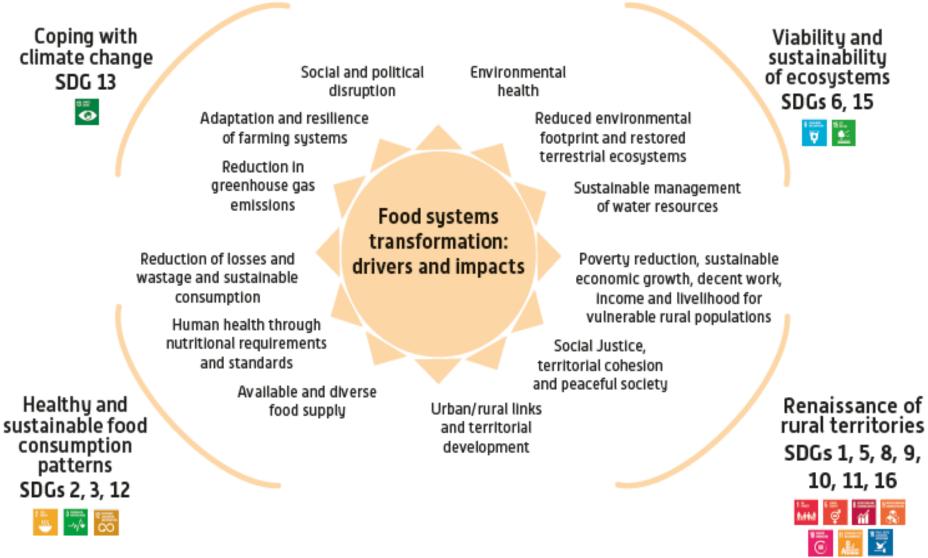
Patrick Caron 1.2 ... Gabriel Ferrer Inger Andersen 2 . Tom Arnold 8 ... Paula Caballero 18 . Bruce M. Cam Martin Gallagher 19 . Jean-Pierre F Johan Rockstrom 24 . Marlen Schu

Accepted: 3 July 2018 © The Author(s) 2018

Abstract

Evidence shows the importance of nutrition, and human health, the vials focus on food supply, and sometime point is that agriculture and food syst for deep changes in comparison with identify the comprehensive food syspeople to benefit from nutritious and chains. Third, they should mitigate territories. The implementation of the through convergence of local and sic build on the work of the "Milano Circ Backed by a literature review, what transformation of food systems at Agreement. The parative highlights local-byel innovations. It emphasize to local and national expectations. Sc action within the context of global p

Keywords Foodsystems - Agricultu





Transformation rather than revolution!



3 challenges for the new food system transformation

- Assessing contributions of food systems to the SDGs through relevant metrics
- Achieving impact at scale through local level action
 - No universal model and context specific pathways
 - Multidimensional
 - Stakeholders, knowledge and practices
- Managing the intersection of global and local priorities and looking at consistency through territorial approaches



Fig. 1 Vibrant and innovative local-specific human-driven systems as engine for a profound food system transformation (source: N. Le Gall/ Cirad—Année international des Forêts 2011). Illustrates the profound











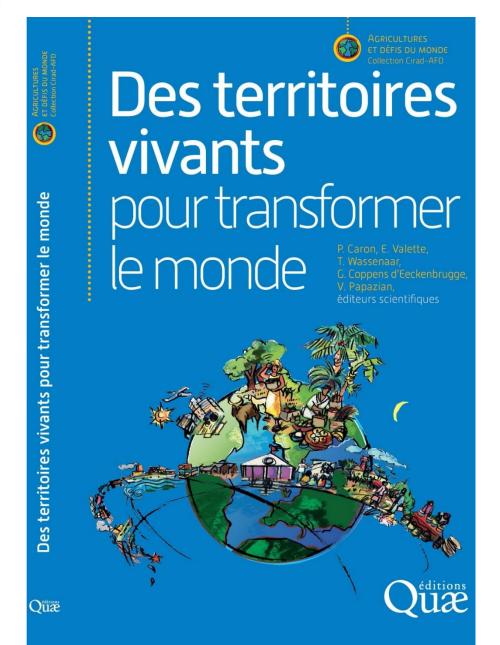








Des territoires ruraux vivants pour transformer le monde



Why now? Not just by chance!

The need to invent new supra and infra national regulatory mechanisms!

Risk of protectionnism...





Assumptions and convictions about « territory »

- 1. Not a passive framework: institutions which act as engines
- 2. Just like state and market, a 3rd regulatory institution towards regulation (Ostrom and common good)
- 3. Connecting supra and infra national processes through
 - The strenghtening local capacity to anticipate
 - A contribution to national and international policies
- 4. The « space » to design the future of the world: anticipation, control, political stability





Territorial is not local: at the heart of

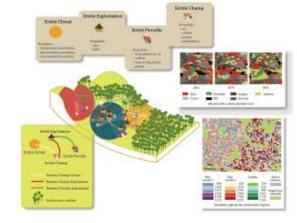
the interrelations between local, regional, national and global scales the connection between collective and public action

Territorial approach should not be small is beautiful we don't need state any longer









2.1 Pour gérer les ressources



2.5 Pour penser et concevoir les politiques publiques

Le territoire

2.2 Pour produire

2.4 Comme ressource

2.3 Pour rendre des services







Des pour











From Montpellier to Cali: challenges and frontiers

- Addressing the multi-functionnality of agriculture (, environment,...)
 - The performance and its measure (eg employement)
 - Trade-offs and consistency (eg employment vs environment? Local vs global?)
- Rural urban connectivity and the role of intermediate cities (eg « ordenhamento territorial »)
- Beyong objectives, designing and implementing transitions through diverse adapted pathways
- Diversity and co-existence and their political management and support: targetting and induced effects? (eg agricultura familiar vs empresarial)
- The articulation of territory x value chain to address concentration processes and the need for the controle and regulation of economic dynamics



Consequences for policy oriented research

- Understanding diversity of values, views and expectations and highlight controversies
- Understanding policy design and their consistency and inconsistency, beyond sectors
- Identifying the role of policies to enable and ease transformation at different levels (rather than scaling-up, i.e. extrapolation of local « success stories »)
- Assessing the effects and impacts of policies at different levels





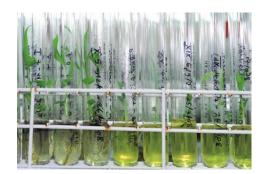
D'après Catherine Emmanuel, médiatrice d'Etat





Research ...

- To contribute to technology design, of course!
- But also knowledge production to:
 - Innovate
 - Plan
 - Look forward and anticipate
 - Move beyond disagreements



Consequences

- Addressing complexity and assuming transdisciplinarity
- Reflexivity about « évidences », metrics, data and information systems
- Look at controversies as fertile fields
- New forms of interaction: knowledge based negotiation (IPCC/GIECC, HLPE)



