

FOODSECURE Final Conference Brussels, October 12, 2016

FOODSECURE Interdisciplinary Research Project to Explore the Future of Global Food and Nutrition Security

Hans van Meijl & Thom Achterbosch (Wageningen Economic Research)



Website:foodsecure.euConference blog:foodsecureblog.wordpress.com

Twitter: @foodsecureeu #FOODSECURE, #FSFC16



This project is funded by the European Union under the 7th Research Framework Programme (theme SSH) Grant agreement no. 290693



Outline

1. Why FOODSECURE?

2. Highlights from the research

- Analytical framework on food and nutrition security (FNS)
- Scenarios future FNS challenges

3. Today's science-policy forum

- Morning : Determinants Future
- Afternoon: Guidance





1. WHY FOODSECURE

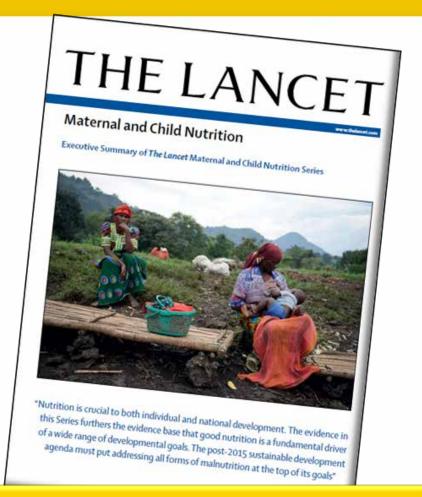






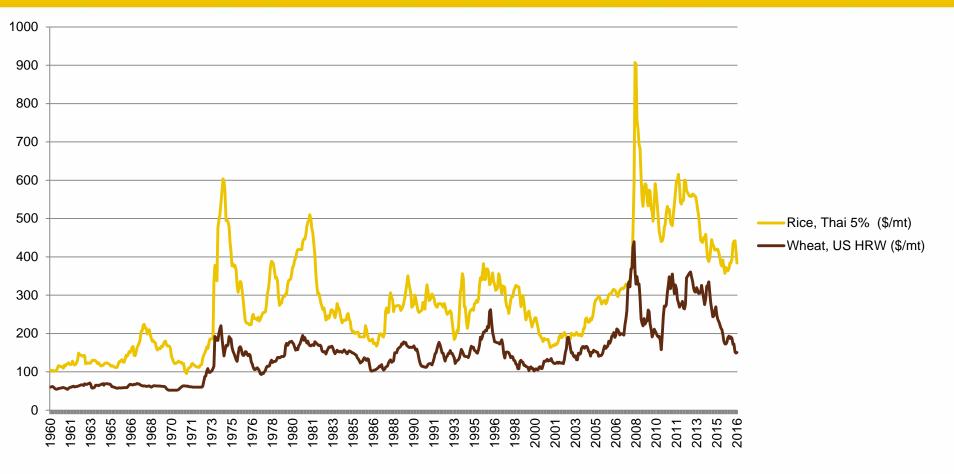
Lancet 2013 calls Nutrition: A Massive Unfinished Agenda

- Ø 165M children stunted (1 in 5)
- Malnutrition is responsible for 45% of
 < 5 deaths (3.1M)
- Micronutrient deficiencies continue to be widespread (~2B, esp. women & children)
- Rapidly increasing overweight/obesity
 (> 500M obese adults; 42M children
 overweight)



Economic cost of malnutrition: \$2.8-3.5 trillion (4-5% global GDP) (FAO 2013)

Changed price regime – a consequence of changes in the global food equation



Source: Worldbank





The 2050 world food equation is risk prone

Supply Land (degradation) Water (scarcity) Productivity & technology Labor & farm structure Climate change, biodiversity Demand Population Income Poverty and inequality Consumer behavior, waste Bio-based economy

Trade and Markets

SupermarketsProtectionShort-circuitFinancial marketsFood stocksQuality & safety





FOODSECURE objectives

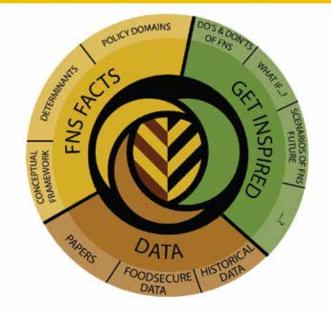
The objective is to design effective and sustainable strategies for **assessing** and **addressing** the challenges of food and nutrition security.





Key features

- 19 research institutes
- Multidisciplinary
- Stakeholder & EC policy panels
- Duration 2012-17
- Academic papers, books & briefs
- User-friendly access to findings, data









FOODSECURE research design

Determinants understanding the causes of hunger/nutrition

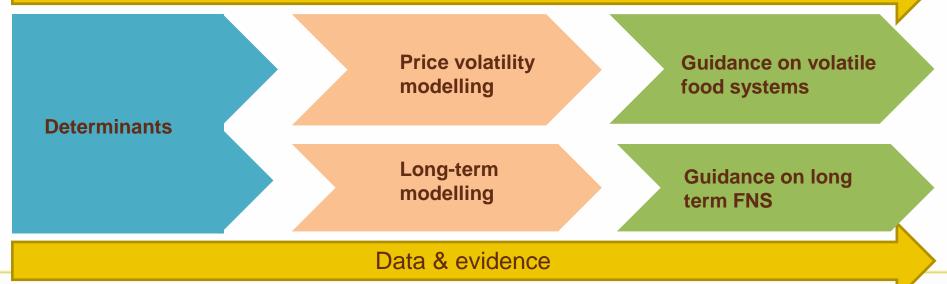
Future

tools for crisis surveillance and foresight

Guidance

on a global / EC policy framework to support FNS

Vision Development & Stakeholder Engagement







2. Highlights

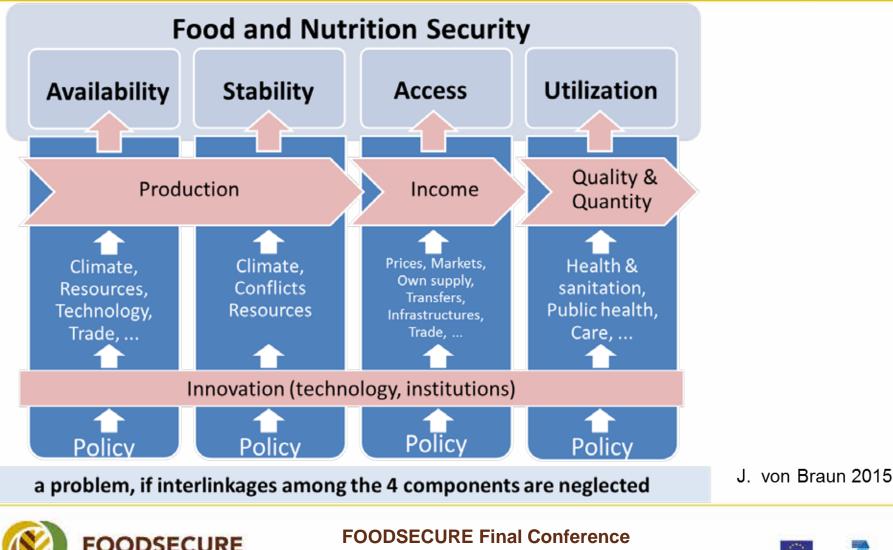






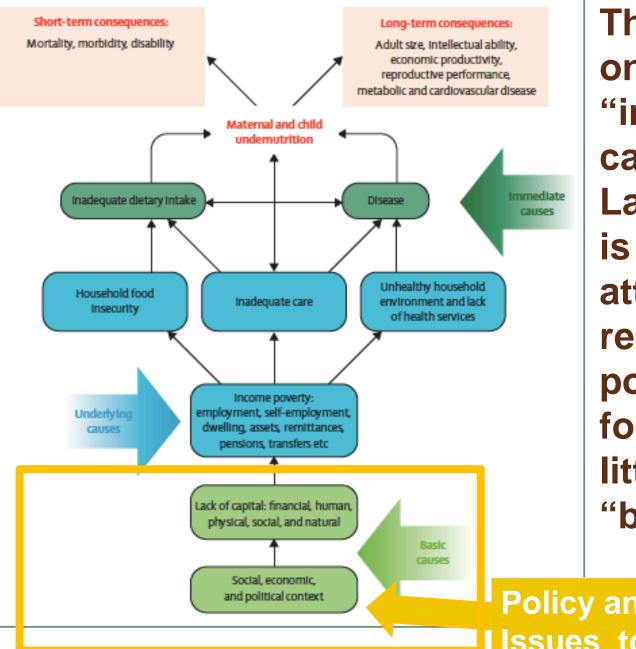
Food and Nutrition Security Concept

OR POLICIES THAT MATTER



Brussels, October 12, 2016





The framework on "basic" and "immediate" causes by The Lancet (2008) is good, but attention in research and policy action focusses too little on "basic" causes

Policy and Market failure Issues to be addressed

Sustainable food and nutrition security?

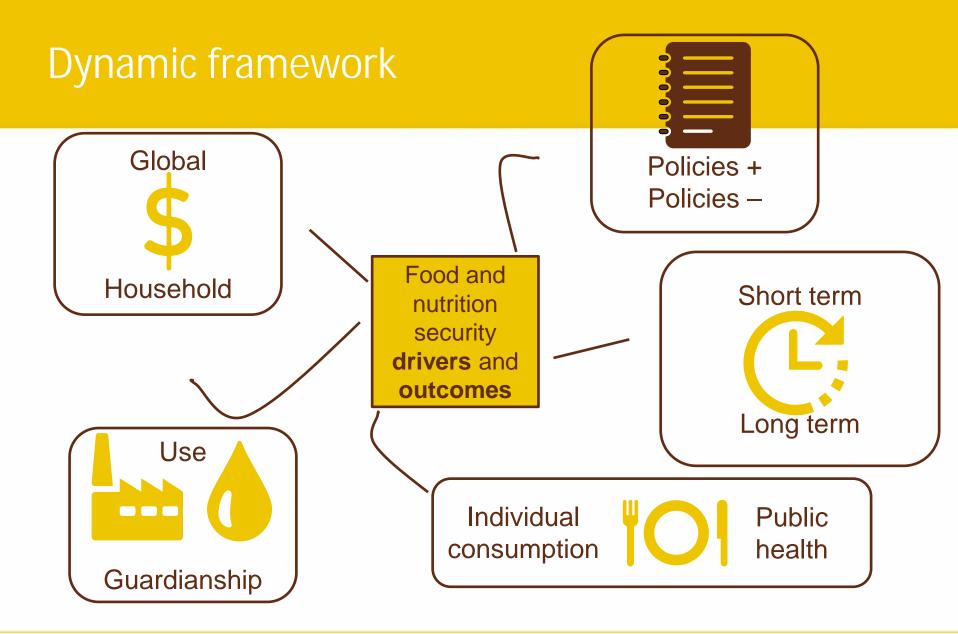
Food and nutrition security World Food Summit, 1996 and follow up

Sustainable food system Contributing to health & social inclusion, environmentally sound, viable enterprise, decent living, Etc...





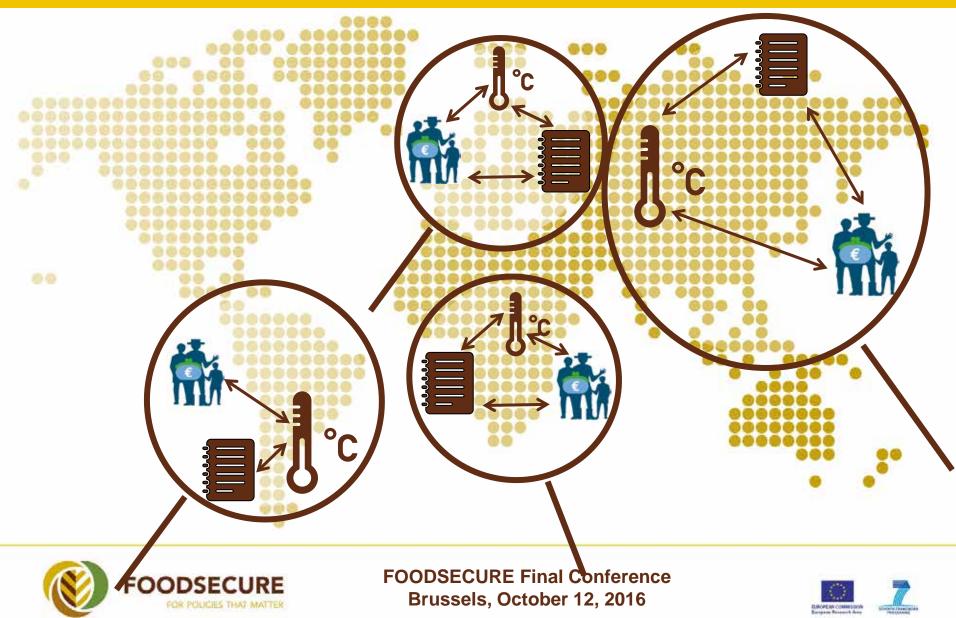








FOODSECURE LENS – Africa, Asia, LAC and EU



Participatory scenario development









FOODSECURE scenario storylines







Food for all but not forever

Growing Human Pressure

1% world Ecotopia furepail Too little too late Food for all but not forever

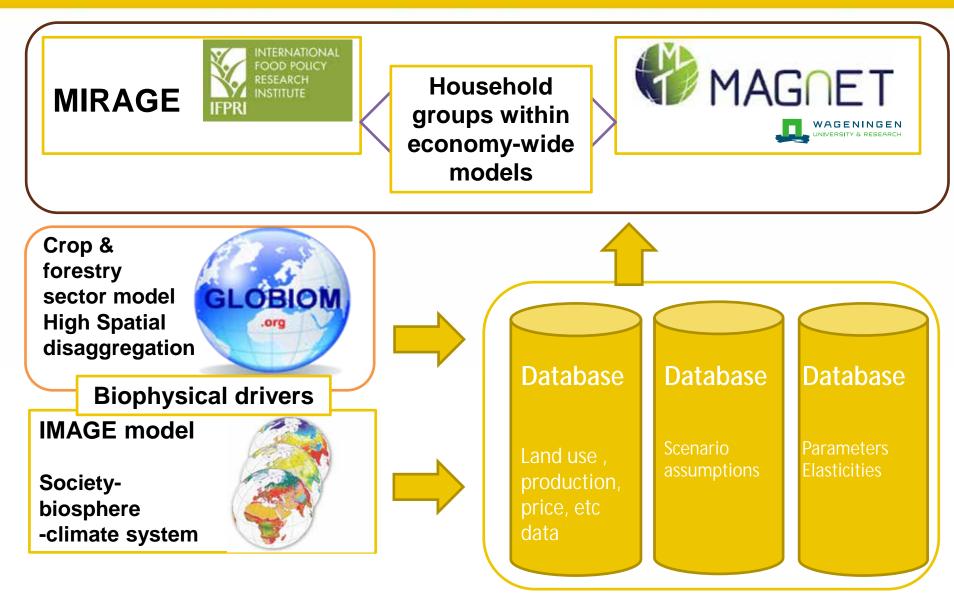
Climate change

Ecosystem decline

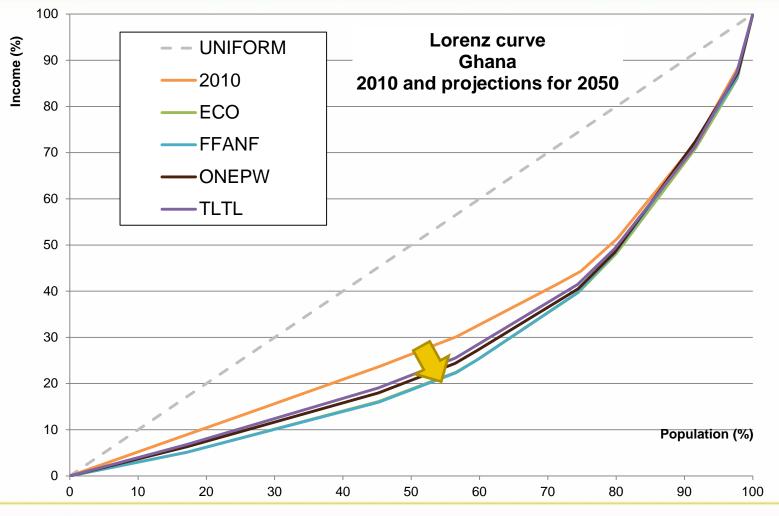
Surprise

Source: Johan Rockstrom: Let the environment guide our development

Integrated assessment Toolbox: Household model extensions



Inequality axis: Future growth not pro-poor, rationale for redistributive policy

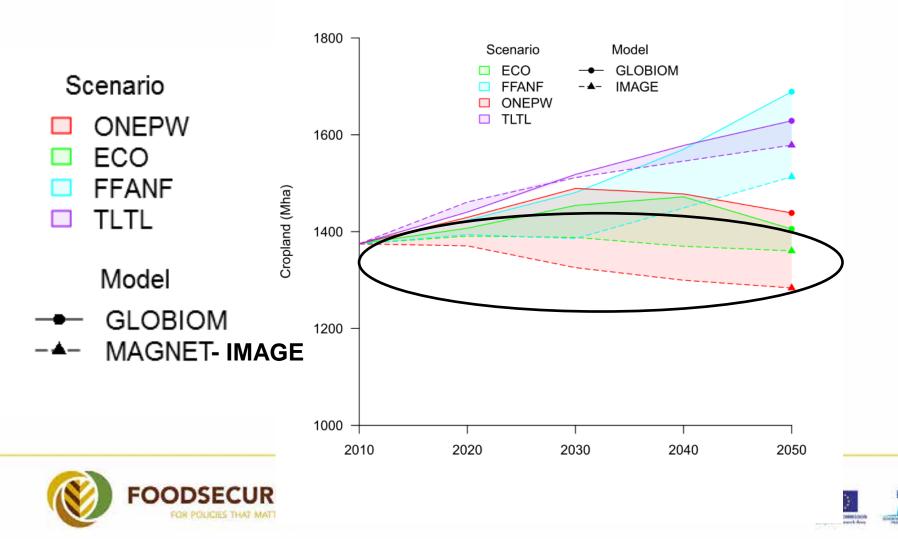




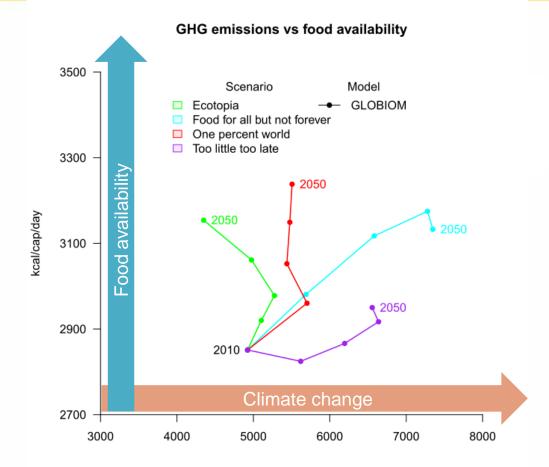


Sustainability: FNS and environmental sustainability not necessary conflicting

Cropland land use



Mitigation and food security



MtCO2eq/yr





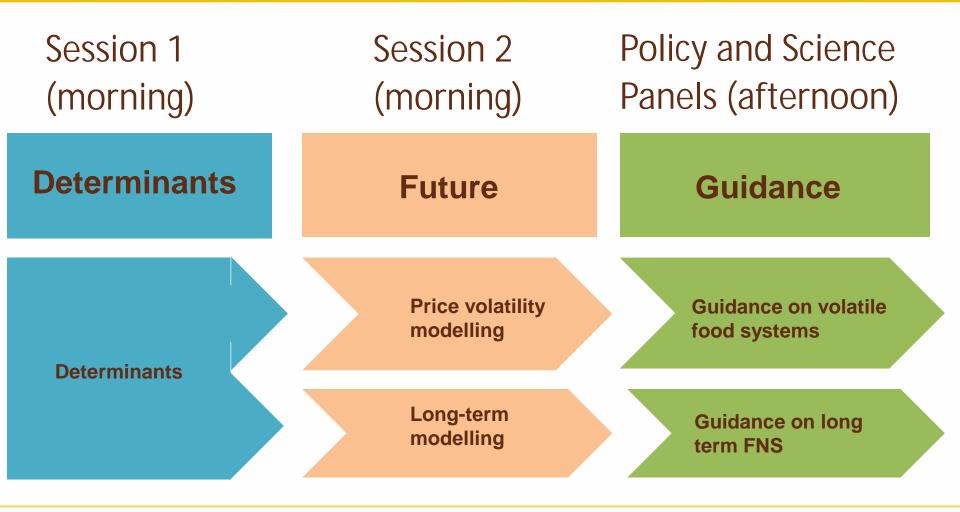
3. TODAY'S PROGRAM for Science – policy interaction







What's the structure of today's conference?







Has Europe the right arms to fight the next food crises?





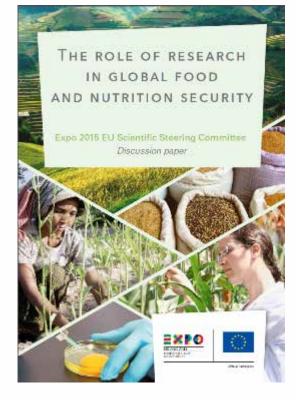


EU is active: CAP, trade & development policies

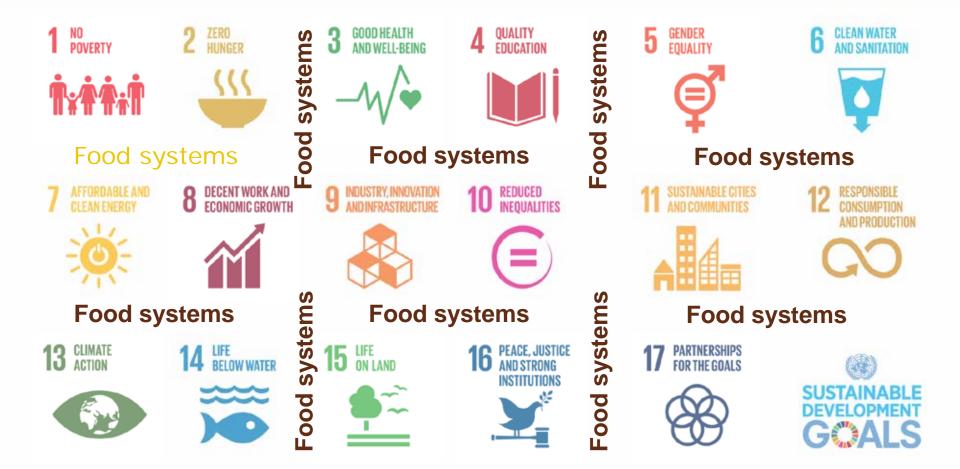
- 1. Food EXPO and Fischler report
- 2. 2030 Agenda for sustainable development and 17 SDGs (Sept 2015)
- 3. G7: Vision for Action on Food security and nutrition
- 4. OECD: 3 futures (uncertainties and importance of international cooperation)







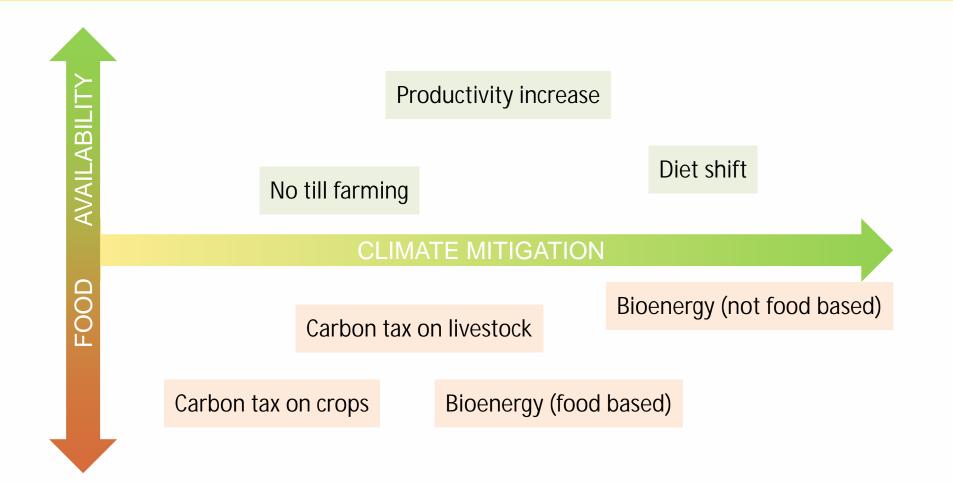
Food systems in hearth of many SDGs







Summary of options

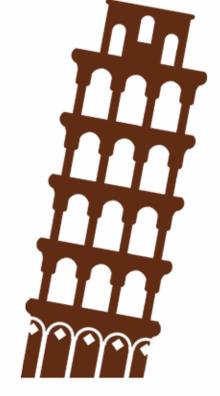






From Paris to Pisa ?





Stable Climate agreement

Unstable Food and Nutrition Security

Source: Camila Bertoco/Noun Project





Intergovernmental panel for FNS needed?



IPERIOR DAVE ON

INTERCOVERNMENTAL PANEL ON food and nutrition security







FOODSECURE Final Conference Brussels, October 12, 2016

Enjoy the Foodsecure conference!



Website:foodsecure.euConference blog:foodsecureblog.wordpress.com

Twitter: @foodsecureeu #FOODSECURE, #FSFC16



This project is funded by the European Union under the 7th Research Framework Programme (theme SSH) Grant agreement no. 290693

