



Food security Areas of intervention at INRA

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GAFSR – Beijing, 7 June 2013



Outline

- Research
- Foresight exercises and thinking
- International alliances and projects



Food Security Research at INRA (1)

- The strategic document "INRA Targeted research 2010-2020" identifies four priority research projects, including one on food security "*Ensure healthy and sustainable food systems*" organized around 3 axes:
 - To consider and act on the determinants of food consumption,
 - To analyze and understand causal relationships between diet and health,
 - To identify and control characteristics of foods and weaknesses of their production methods.
- Food security is also at the heart of the Metaprogram DID'IT "*Determinants and impact of diet, interactions and transitions*", with 3 scientific priorities:
 - To clarify the mechanisms underlying the statistical relationship between dietary practices and health,
 - To understand the behaviors and trends,
 - To develop global models of decision support, and predictive models.



Food Security Research at INRA (2)

- A new Metaprogram "*Analysis of transitions for global food security*" will start in 2013, in cooperation with Cirad. It is organized around the five following areas:
 - Food transitions,
 - Losses and waste,
 - Improving yields and limiting environmental damage,
 - Lands, alternative uses of lands and environmental quality,
 - Modeling future equilibrium between supply and needs for food and non-food products, under demographic, environmental and climatic constraints.



Foresight exercise and thinking at INRA

- **Agrimonde:** "Scenarios and Challenges for Feeding the World in 2050" (<http://www.quae.com/fr/r877-agrimonde-va.html>) foresight exercise conducted by INRA and CIRAD.
- **Dualine:** strategic workshop (November 2009 to July 2011), complementary to Agrimonde, covering food systems from farm gate to consumption and disposal of waste.
- **Agrimonde Terra:** continuation of Agrimonde by INRA and CIRAD (in progress), with an emphasis on land use.
- **Commission on Sustainable Agriculture and Climate Change** (Beddington Report, 2011) "*Achieving food security in the context of climate change*": a joint initiative of the CGIAR-CCAFS Research Program and the Global Donor Platform for Rural Development.



International alliances and projects (1)

- **FACCE JPI:** the JPI on “*Agriculture, Food Security and Climate Change*” to which INRA provides the secretariat and the current presidency, was established in 2010 and currently includes 21 European countries. Its five core research themes are:
 - Sustainable food security under climate change, based on an integrated food systems perspective.
 - Environmentally sustainable growth and intensification of agricultural systems under current and future climate and resource availability.
 - Assessing and reducing trade-offs between food production, biodiversity and ecosystem services.
 - Adaptation to climate change throughout the whole food chain.
 - Greenhouse gases mitigation.



International alliances and projects (2)

- **HDHL JPI:** France is a member of the JPI “*a Healthy Diet for a Healthy Life*” coordinated by the Netherlands. The following three key interacting research areas were identified:
 - **Determinants of diet and physical activity.**
 - **Diet and food production: developing healthy, high-quality, safe and sustainable foods.**
 - **Diet-related chronic diseases.**
- **Era-Net SUSFOOD:** The Era-Net Susfood “sustainable food production and consumption” 2011-2014 is coordinated by Inra. It groups 25 partner-institutions, all over Europe. Research strategy is developed in 3 points:
 - **Construct an overview of the existing research.**
 - **Develop a transnational strategic research agenda.**
 - **Develop instruments, mechanisms & processes to enable joint transnational activities.**



International alliances and projects (3)

- **Food secure:** “*Food secure*” is an EU-project conducted by a team of 19 research organizations in Europe, Brazil, Ethiopia, China and CGIAR among which LEI-Wur, Inra, Cirad, Embrapa, Center for Chinese Agricultural Policy at CAS. It aims to assess the impact on food security and nutrition policies (mainly the EU), global trade agreements, climatic influences, new technologies...
- **Global Alliance on Food Security Research**



Thank you for your attention