

Studying the drivers controlling the efficiency of the global agro-food system

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Résumé:

In this talk I will summarize the results of my almost 4 years of research as a post-doc in Sisyphé-Metis. How to feed an increasing world population while reducing the environmental damage at the same time is currently one of the most important challenges for society. To produce enough quality food is not only a matter of yield gaps and there are other critical drivers controlling the efficiency and the environmental performance of the agro-food system such as the international trade of food and feed, the food waste, the human diet and the efficiency of use of local resources. The realm of possibilities for feeding the world in the near future can be quite large and they can go much farther than the mere application of some technological improvements. Deep structural changes in the configuration of the global to local agro-food systems could be required in the post-petroleum era.