Tradition, Innovation and Fusion: how to produce enough food for the population?



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Current situation: changes in tradition

Enough food is produced globally to feed the planet but even so more than one billion people go to bed hungry every night. Famine is a leading cause of death, killing more people than AIDS, tuberculosis and malaria combined.

A child dies of famine every 6 seconds (U.N. World Food Program - WFP)

PARADIGM:

A quarter of children in developing countries is underweight (WFP)

Myanmar, picture made in January 2010





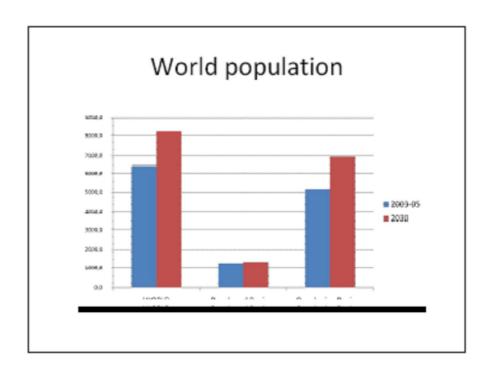


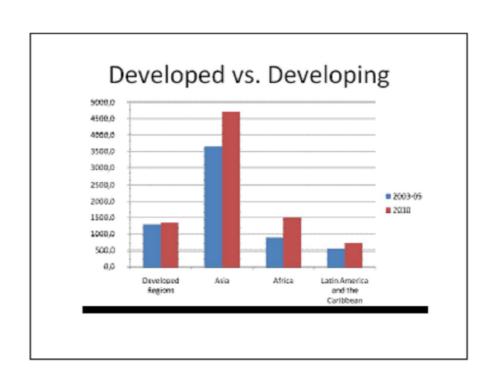
3 countries: Are we in the same world?

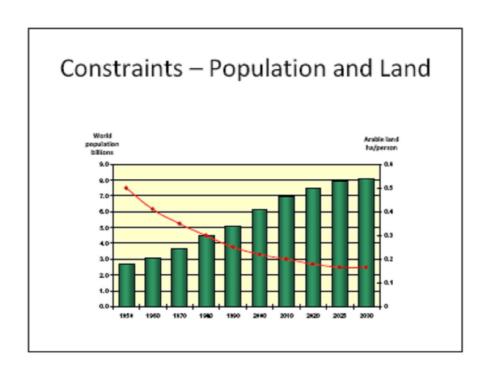
The answer is NO

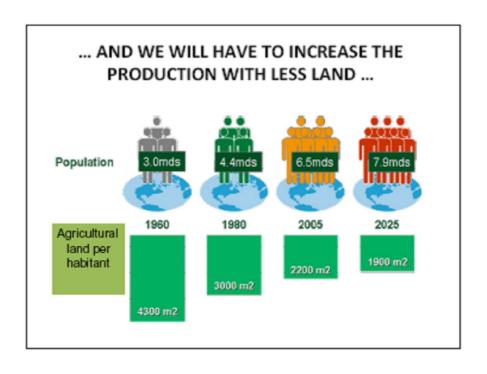
Let us consider what is happening with the population....

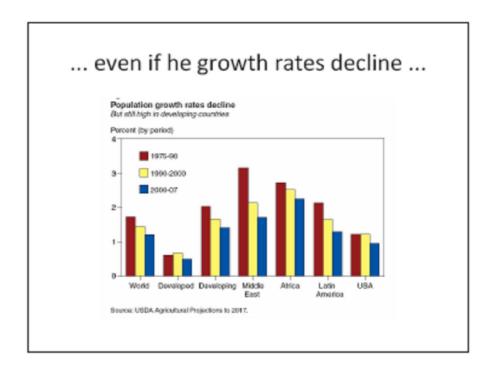
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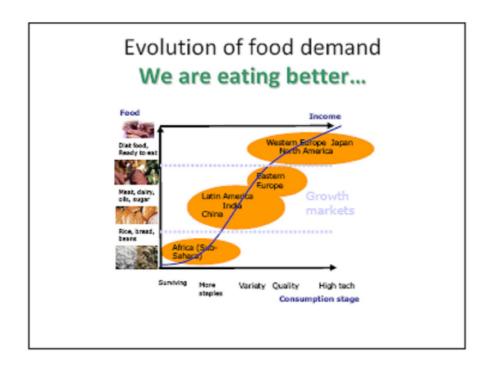


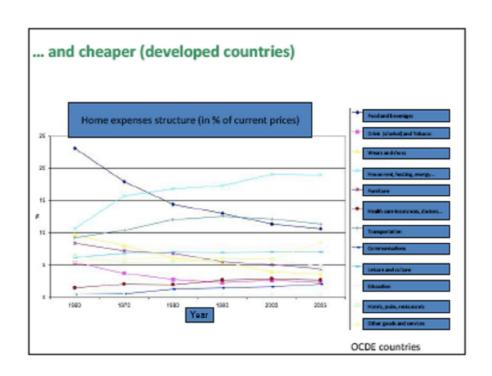


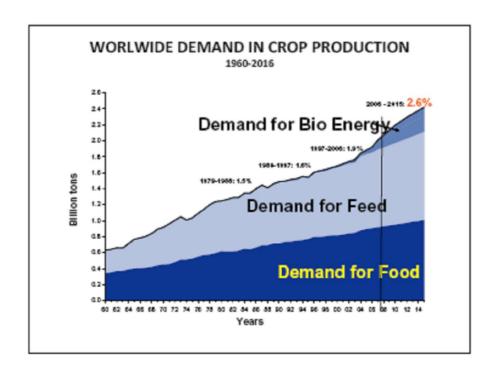




Let us consider what is happening with food production....





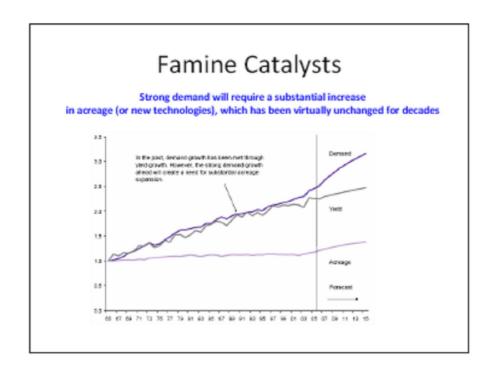


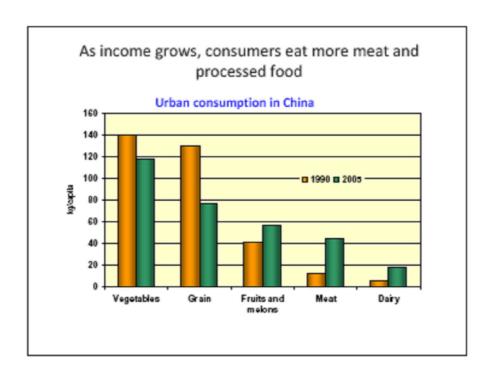
World and European context

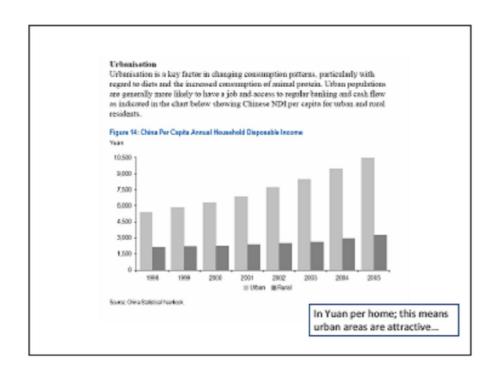
- An ever-increasing demand for all crops

(population and new development opportunities...)

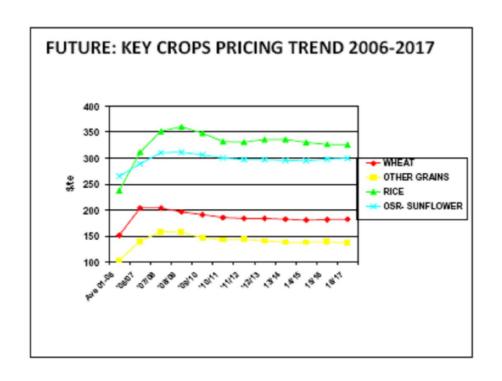
- · Stocks of food are decreasing
- · A European market of 455 million consumers
- · Climate change will affect crop production
- · World and European crop land are not expendable
- · Use of Crop Protection Products is unavoidable
- · Seed improvement and new varieties are unavoidable

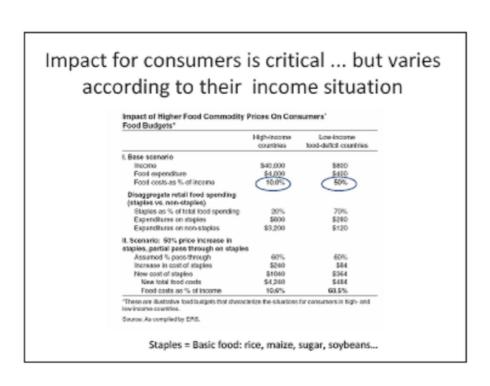




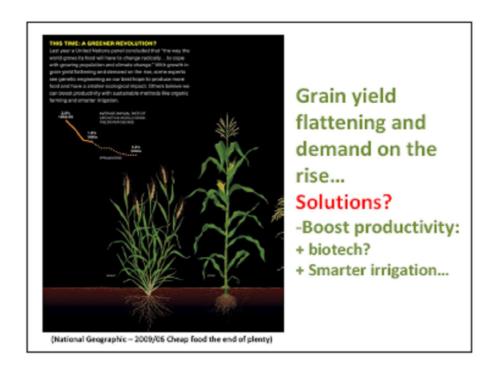


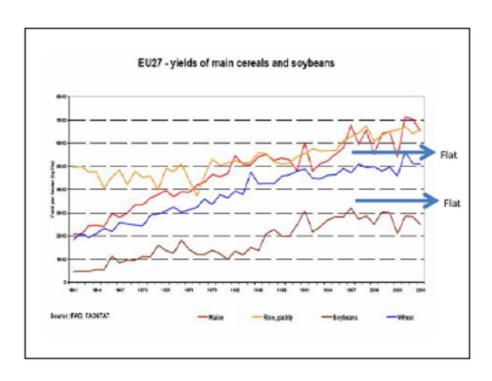


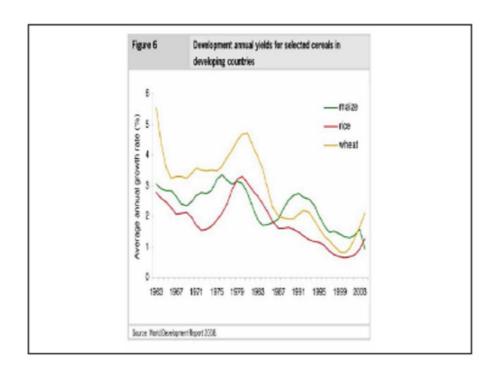


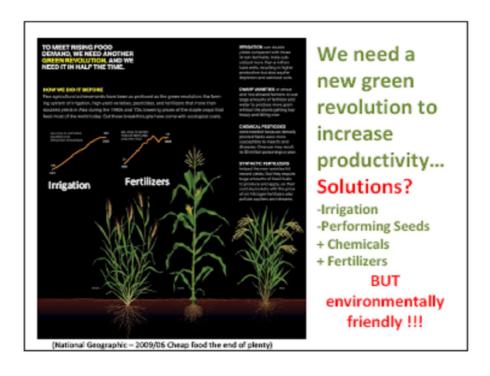


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Innovation: Food for all

Food Crisis?

- · Reduced stocks of food worldwide
- · Climate: unpredictable changes, loss of yield
- Changes in population consumption: more meat by urban population
- World population spiraling toward 9 billion in 2050... we need to double food production by 2030
- · Bio-fuel demand: affects food production?

Main issues

- We can increase productivity in some geographical areas, BUT how to provide food everywhere?
- How to reduce the cost of transportation of food in developed countries?
- How to replace fossil energies to produce food?

Typical meal in the West:

Beef from USA, Argentina or EU; juice from China; grapes from Chile; olive oil from Spain; butter from The Netherlands etc. This means transport, transformation, energy and so on.



Fusion

There is not a unique global solution, probably a very creative effort has to be made worldwide to meet the challenge of feeding the entire world population.

Fusion of tradition and innovation the action we have to take to save our hot, crowded and hungry world.

Fusion means joining what we know to what we have to learn....

Innovation is evolution – not destruction – of the traditions...

The solution is in our hands

Francesc Llauradó i Duran was born in Barcelona in 1956. He holds a PhD in Soil Science by the University of Strasbourg (1983) and an MBA in Food Product Marketing (1987). He has worked in South America, France, Switzerland and Italy in the seed and agrochemical industry. He is currently the Managing Director of Nufarm Agrochemical Company in Spain.