

World Ag Forum

Role of the private sector in securing a food production base



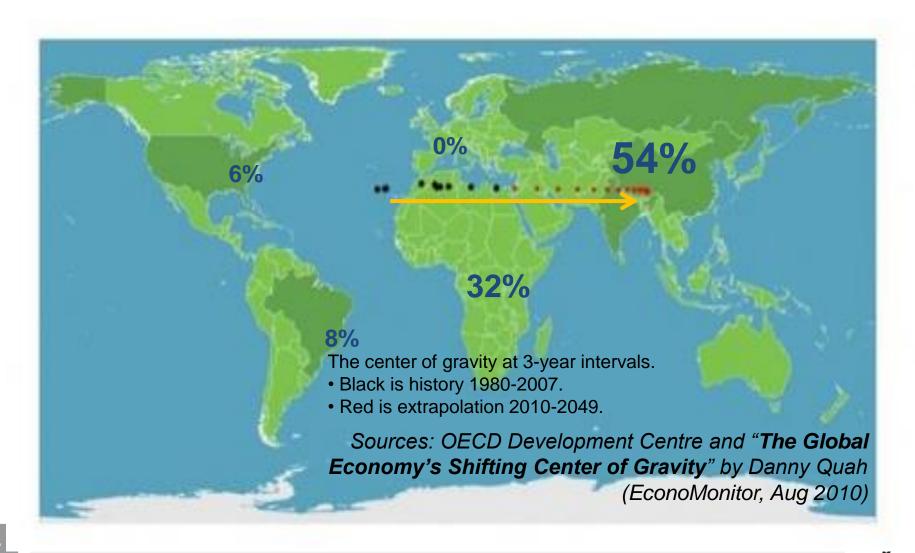


Role of the Private Sector - Summary

- Providing markets for farmers
- Improving productivity, yields & food safety
 - Innovation and Technology
 - Training and Knowledge dissemination
- Finance and Risk Management
- Logistics
- Promoting sustainability
- Addressing Africa



Population & economic growth are moving towards Asia from the West



Comparative Advantage

The world will always raise the most food the most economically if every farmer plants the right crop for the soil and climate, and then trades with others.

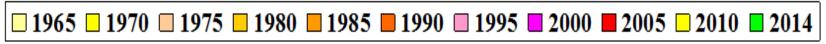


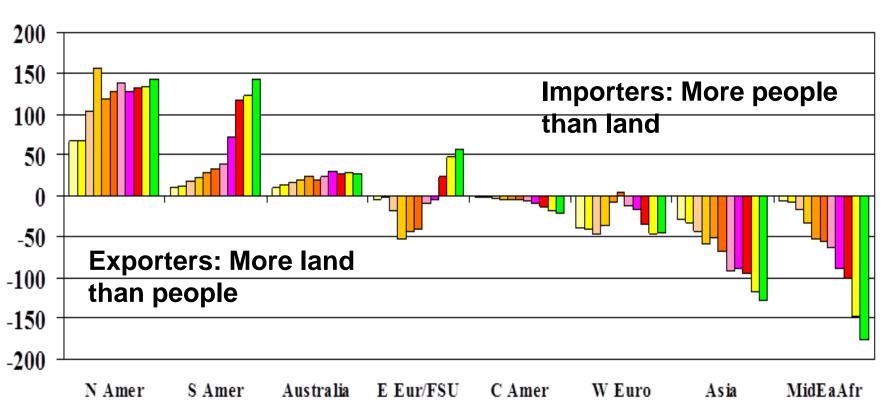
David Ricardo



World food flows - Asia is a net food importer and its imports are growing

(grains, rice, oilseeds, meals, oils, feed equivalent of meat – net interregional in mmt)







Providing Markets for farmers

THIS MEANS FOOD NEEDS TO BE ABLE TO MOVE FROM AREAS OF SURPLUS TO DEFICIT

- 16% of global crops cross international boarders
- Price discovery: Farmers need clear price signals from destination markets to make decisions on what crops/livestock to grow to maximize profitability & manage price risk
- Providing information on supply and demand to help farm planning
- Contract farming
- Providing local & efficient logistics to move crops/livestock to market
- More & more large food companies are buying directly from farmers
- Investments in local storage, cold chain and processing



Improving productivity, yields & food safety

- Developing crop productivity tools & technologies
 - Innovation in new seeds and crop inputs to increase yields
 - New soil & water management/irrigation technologies
 - Mechanization
- Livestock and aquaculture feed development & practices
 - More efficient feeds for livestock & aquaculture
 - Utilizing new & sustainable feed inputs
- Animal welfare & handling practices

INNOVATION & TECHNOLOGY

- Developing new pharmaceuticals for animals
- R&D for new technologies & new applications for crops/livestock
- Satellite & drone data for precision agriculture & deforestation monitoring
- Communications on price discovery to farmers of helping the world thrive



Improving productivity, yields & food safety

TRAINING & KNOWLEDGE

- Training on crop care, harvesting, storage & processing
- Animal welfare & efficiency training
- How to properly use ag technologies
- Good Ag practices training
- Food Safety training practices for both human & animal health
- Food standards training
- Technology uses to communicate with farmers to answer questions and provide information, ie, weather, prices, diseases, inputs, pests, etc
- Sustainability training & certification



Financing

RISK MANAGEMENT

- Providing financing for crop inputs while crops are in the field
 - Loans
 - Mirco-financing
- Price risk management tools
 - Forward selling to lock in prices to manage price volatility



Logistics

CROPS & LIVESTOCK NEED TO MOVE FROM THE FARMS

- Storage
 - Hold crops to get higher prices
- Trucks, rail & boats/barges
- Local processing



Sustainability

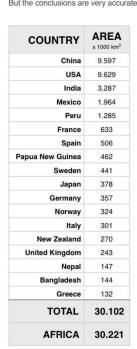
THE PRIVATE SECTOR IS LEADING ON SUSTAINABILITY

- Agriculture needs to become more sustainable
- The private sector with civil society are working to set sustainability standards
 - RSPO
 - Soy Moratorium
 - RTSB
- The private sector is driving sustainability practices down to the farm level
 - Training farmers on sustainable practices & land use
 - Helping small holders get sustainability certification
 - Providing incentives & paying premiums to small holders for growing sustainably certified crops



The True Size of Africa

Graphic layout for visualization only (some countries are cut and rotated)



NETHERLANDS But the conclusions are very accurate: refer to table below for exact data PORTUGAL **FRANCE UNITED STATES**

In addition to the well known social issues of illiteracy and innumeracy, there also should be such a concept as "immappancy", meaning insufficient geographical knowledge.

A survey with random American schoolkids let them guess the population and land area of their country. Not entirely unexpected, but still rather unsettling, the majority chose "1-2 billion" and "largest in the world", respectively.

Even with Asian and European college students, geographical estimates were often off by factors of 2-3. This is partly due to the highly distorted nature of the predominantly used mapping projections (such as Mercator).

A particularly extreme example is the worldwide misjudgement of the true size of Africa. This single image tries to embody the massive scale, which is larger than the USA, China, India, Japan and all of Europe...... combined!

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Top 100 Countries

SWITZERLAND

EASTERN

EUROPE

Area in square kilometers. Percentage of World Total Sources: Britannica, Wikipedia, Almanac 2010

Hussia	17.098.242	11,50
Canada	9.984.670	6,70
China	9.596.961	6,40
ited States	9.629.091	6,40
Brazil	8.514.877	5,70
Australia	7.692.024	5,20
India	3.287.263	2,30
Argentina	2.780.400	2,00
Cazakhstan	2.724.900	1,80
Sudan	2.505.813	1,70
Algeria	2.381.741	1,60
Congo	2.344.858	1,60
Greenland	2.166.086	1,50
audi Arabia	2.149.690	1,40
Mexico	1.964.375	1,30
Indonesia	1.860.360	1,30
Libya	1.759.540	1,20
Iran	1.628.750	1,10
Mongolia	1.564.100	1,10
Peru	1.285.216	0,86
Chad	1.284.000	0.86
Niger	1.267.000	0.85
Angola	1.246.700	0.85
Mali	1.240.192	0,83
outh Africa	1.221.037	0.82
Colombia	1.141.748	0.76
Ethiopia	1.104.300	0,74
Bolivia	1.098.581	0.74
Mauritania	1.025.520	0.69
Egypt	1.002.000	0,67
Tanzania	945.087	0,63
Nigeria	923.768	0,62
Venezuela	912.050	0,61
Namibia	824.116	0,55
ozambique	801.590	0,54
Pakistan	796.095	0,53
Turkey	783.562	0,53
Chile	756.102	0,51
Zambia	752.612	0,51
Myanmar	676.578	0,45
fghanistan	652.090	0,44
Somalia	637.657	0,43
France	632.834	0,43
frican Rep	622.984	0,42
Ukraine	603.500	0,41
ladagascar	587.041	0,39
Botswana	582.000	0,39
Kenya	580.367	0,39
Yemen	527.968	0,35
Thailand	513.120	0,34
Spain	505.992	0,34
rkmenistan	488.100	0,33
Cameroon	475.442	0,32
lew Guinea	462.840	0,31
Uzbekistan	447.400	0,30
Morocco	446.550	0,30
Sweden	441.370	0.30

406.752 390.757

357.114

342.000 338.419

331.212 330.803

323.802

300,000 274 222

266.000

256.369

245.857

242,900 241.038 238.539 238.391

236.800

207 600

199.951

185.180

181.035

163.820 163,610

143.998 143.100

131.957 130.373 120 538

Kyrgyzstan Senegal

Cambodia

0,27 0,26

0,24

0,23

0,22

0,21

0.18

0,18

0,20

0,16 0,16

0.14

0.13

0,12

0,10

0.08

AREA km²

17.098.242

United States Europe







Japan







Policies governments need to address to secure a food production base

- Land Rights for small holder farmers
- Trade Policies that allow for the movement of safe food from areas of surplus to areas of deficit
 - NTB's & NTM's are increasing
- Science-based policies on food safety, food standards & food regulatory approvals
- Standards harmonization/equivalency
- Government leading on approvals and communications on new technologies
 - GM & NPBT's
- Investment in infrastructure
 - Crop storage/cold chains
 - Roads & Ports
- Increased government funding for ag R&D



