



The OECD-FAO Agricultural Outlook : Links to MAFAP

An example for Ghana

OECD-FAO Agricultural Outlook and MAFAP

- OECD-FAO Outlook now in 8th year of collaboration. Success at Global level,
- FAO- Projections team will move into "regional/country outlooks"
- Model based complete supply disposition of temperate commodity markets.
- International reference price and domestic price determination
- Policy representations ad valorem taxes/ import tariffs/subsidies/export subsidies
- Parameterization of supply and demand.
- For Africa, countries covered include Egypt, Algeria, Ghana, Nigeria, Ethiopia, Mozambique, Tanzania, Sudan, Zambia, South Africa. Remainder by regions, N. Africa, Other LDC, and Other countries
 - Plan to increase country coverage on resources/needs basis
- What synergies with MAFAP, and can collaboration work?

Food and Agriculture Organization of the United Nations – *for a world without hunger*

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Countries and regions

Aglink	Cosimo (MAFAP in yellow)			
Countries	Countries			Regions
Australia	Algeria	Kazakstan	Tanzania	LDC L. America
Argentina	Bangladesh	Nigeria	Thailand	Other LDC Africa
Brasil	Chile	Malaysia	Turkey	Other LDC Asia
Canada	Colombia	Mozambique	Ukraine	Other LDC Oceania
China	Egypt	Pakistan	Uruguay	Other W. Europe
EU-27	Ethiopia	Paraguay	Vietnam	Other C. Asia
Japan	Ghana	Peru	Zambia	Other E. Europe
SKorea	India	Philippines		Other M. East
Mexico	Indonesia	Saudi Arabia		Other N. Africa
N-Zealand	Iran	South Africa		Other Africa
USA	Israel	Sudan		

Aglink – Cosimo Commodities

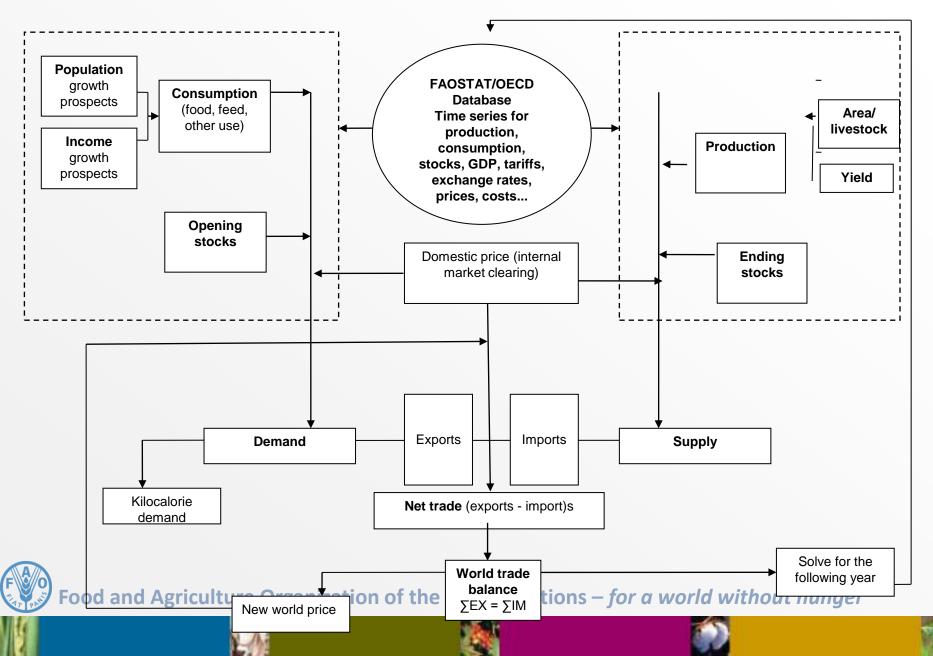
Wheat	Beef	Skim Milk Powder
Coarse Grains** Rice Oilseeds**	Sheepmeat Pigmeat Poultry	Whole Milk Powder Cheese Butter
Vegetable Oils** Oilseed Meals**	Eggs	Fresh Dairy Products Fish

** Indicates sectors which may be disaggregated

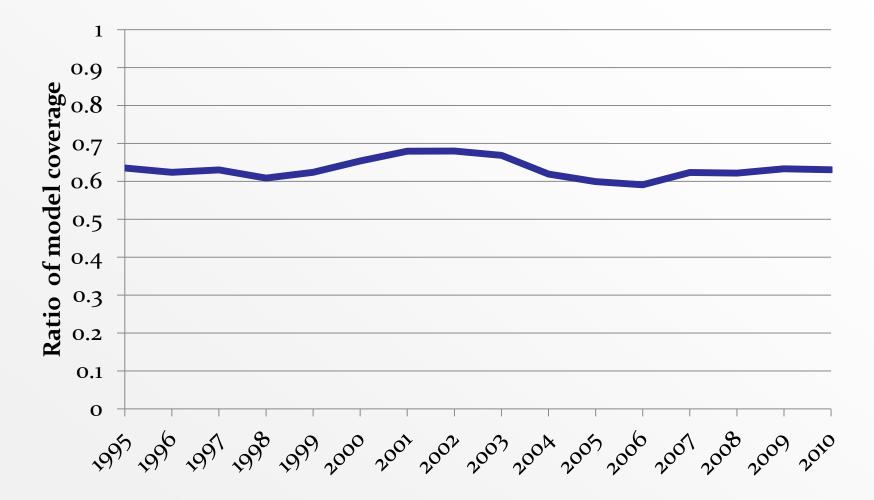
Comparison for Ghana

MAFAP Commodities	Cosimo commodities	
Yams	Roots and Tubers	
Cassava		
Cocoa beans	X	
Groundnuts	Oilseeds	
Beans	Х	
Maize		
Sorghum	Coarse Grains	
Rice	Rice	
Palm oil	Palm oil/vegetable oils	
Х	Wheat, sugar, meat, dairy, eggs, biofuel	

Schematic presentation of Aglink-Cosimo Model

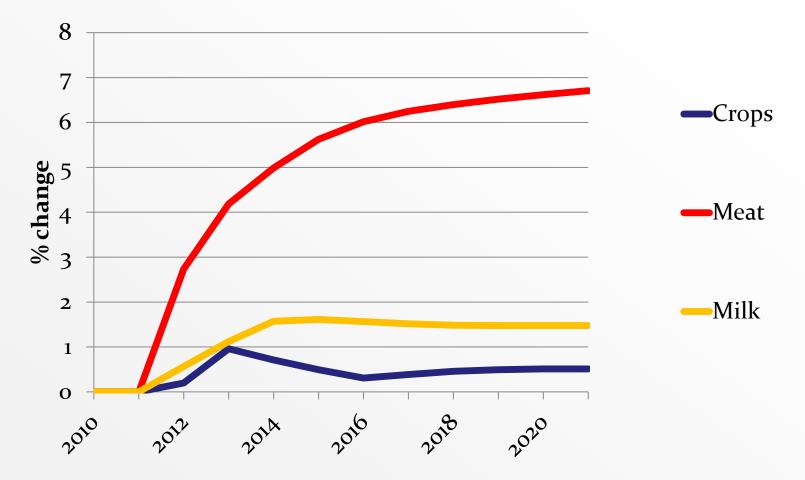


Ghana: Model coverage (% of net agricultural production value)



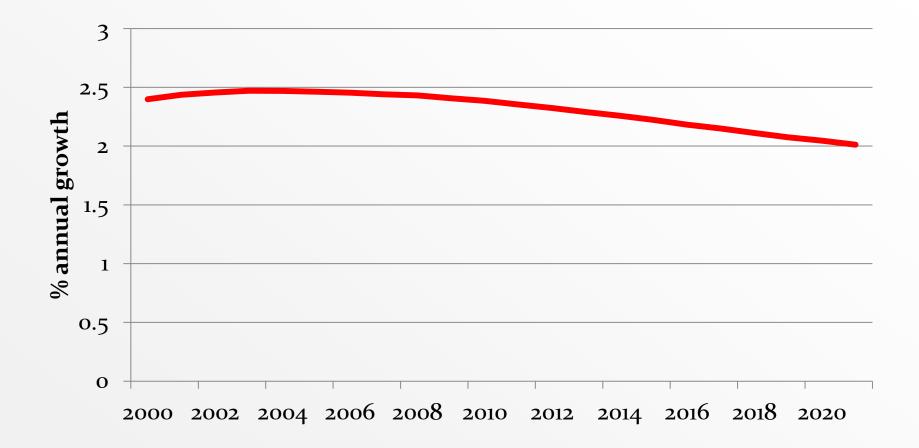
Index based on constant 2004-06 dollars

Ghan supply response: Change in domestic production given 10% shock to world reference prices

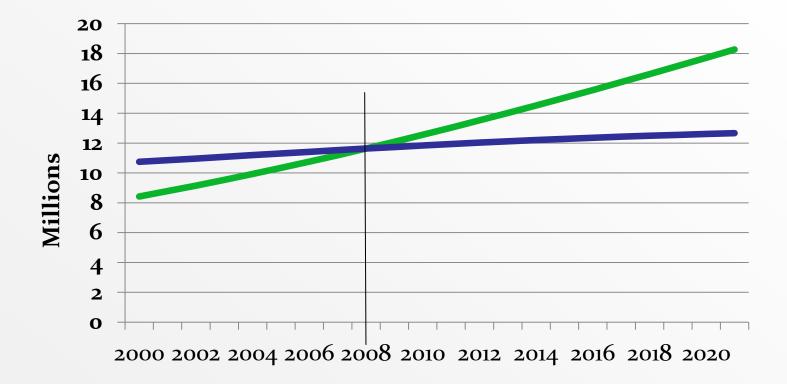




Outlook: Ghana's population growth strong but declining to 2% range by 2021

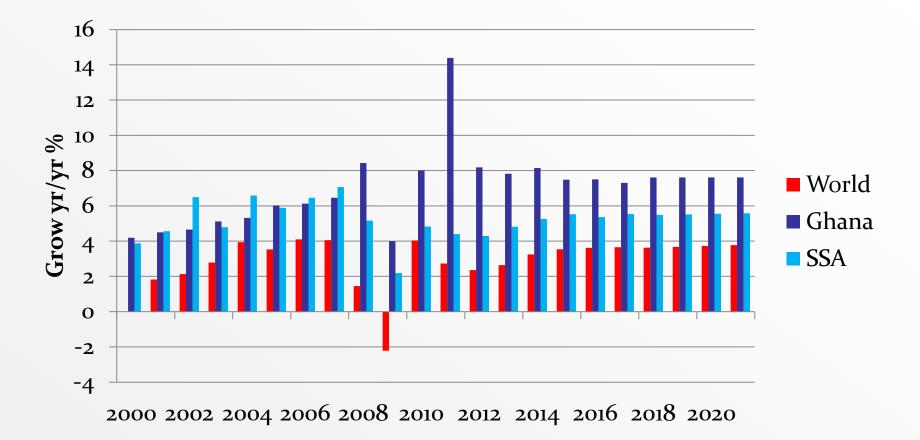


Population growth higher in urban areas, and exceeds rural population



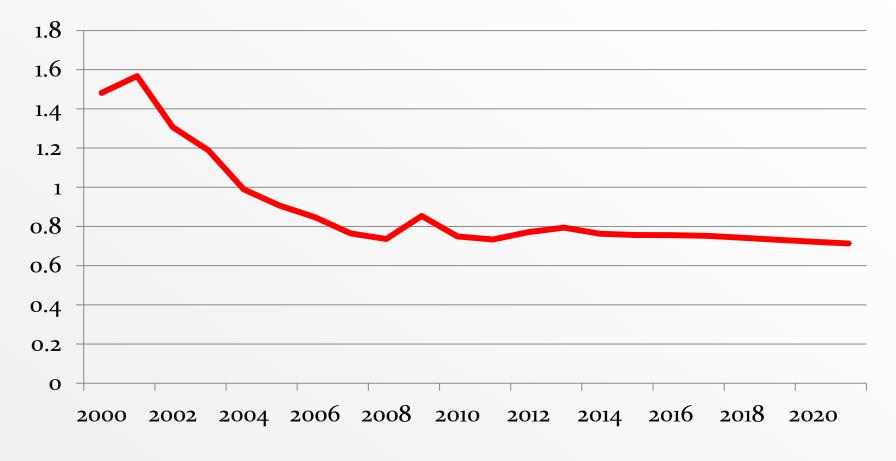
Source: UN-Statistics/population 2010

Global GDP growth has slowed. Ghana is anticipated to remain strong



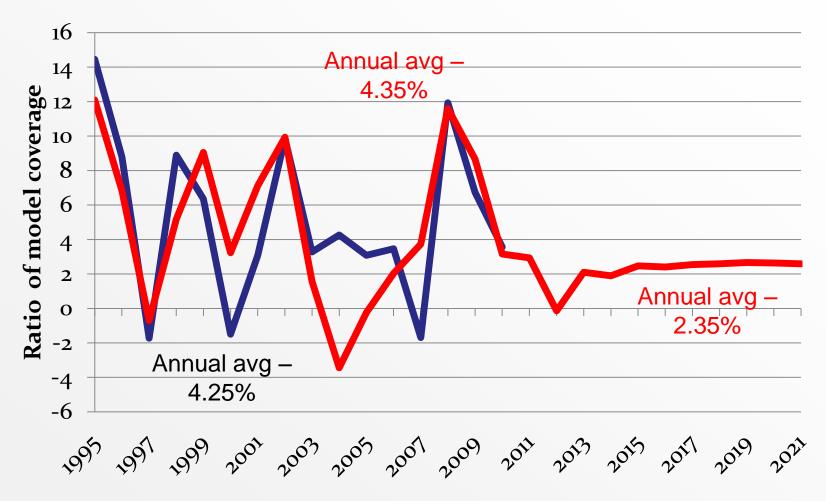
WEO - Oct 2012

Ghana's currency has appreciated in real terms and may remain strong



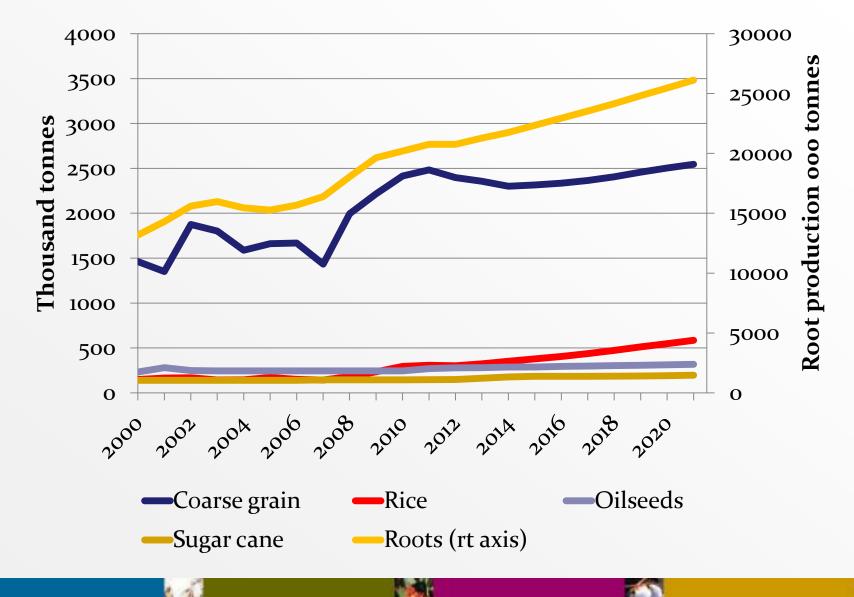
WEO - Oct 2012

Model's net agricultural production value tracks annual changes of FAOSTAT: Projected growth is slower



Index based on constant 2004-06 dollars

Production is dominated by roots, by far. Future rice production cuts into coarse grain production



Net trade in volume terms: demand outstripping supply

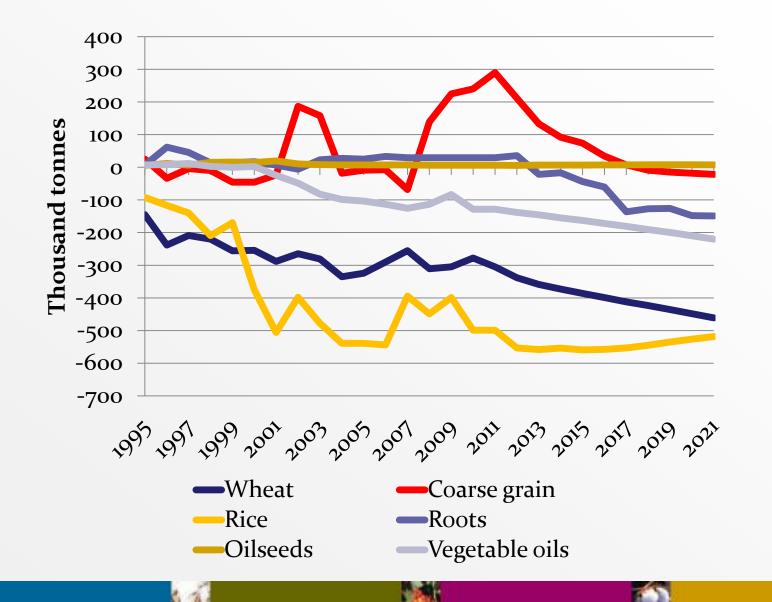


Index based on constant 2004-06 dollars at international prices

Million constant dollars



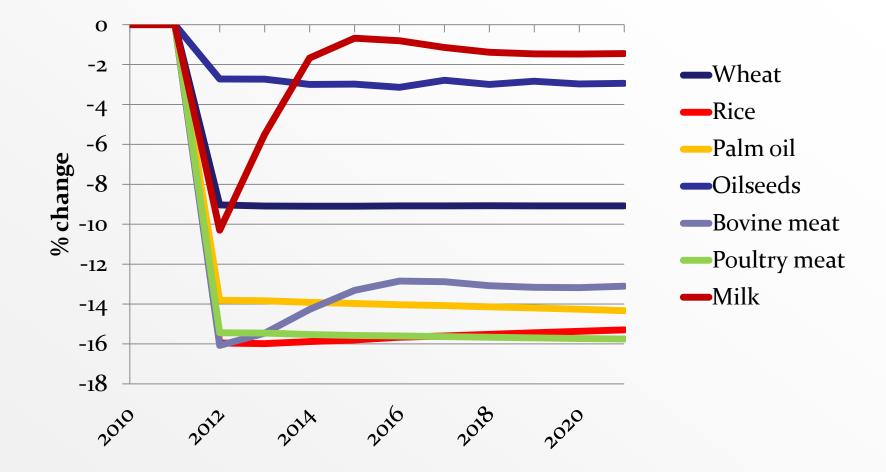
Net trade is deteriorating for all crops (?)



What about policy analysis?

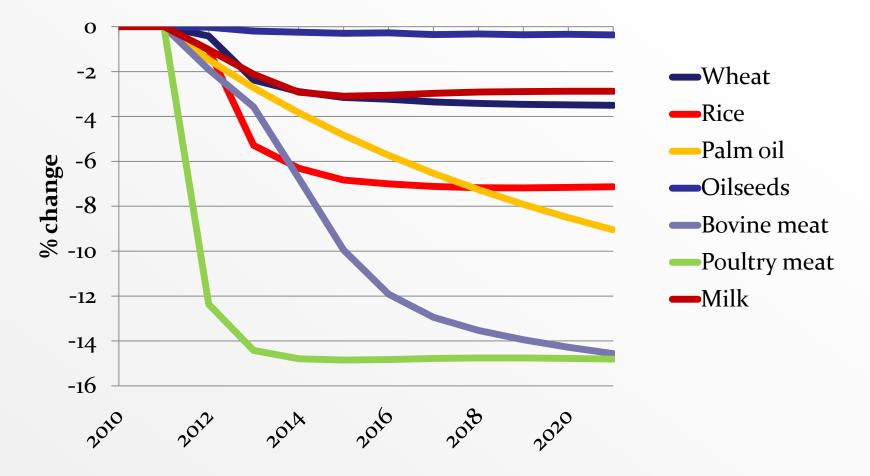
- Policy monitoring of MAFAP for Ghana generates useful data on policies, and and at what point they impact production, consumption and trade
 - Overall, extensive disincentives exist for production but these vary by commodity
- Can the model be used to assess the impact of policy changes?
 - Impact of tariff change
 - Changing the wedge from export/import prices to domestic prices
- It is important that policy assessment also provide a forward looking assessment of the costs, benefits and implications of changes.

Impact of tariff elimination on farm prices of selected commodities



No.

Impact of tariff elimination on farm production of selected commodities

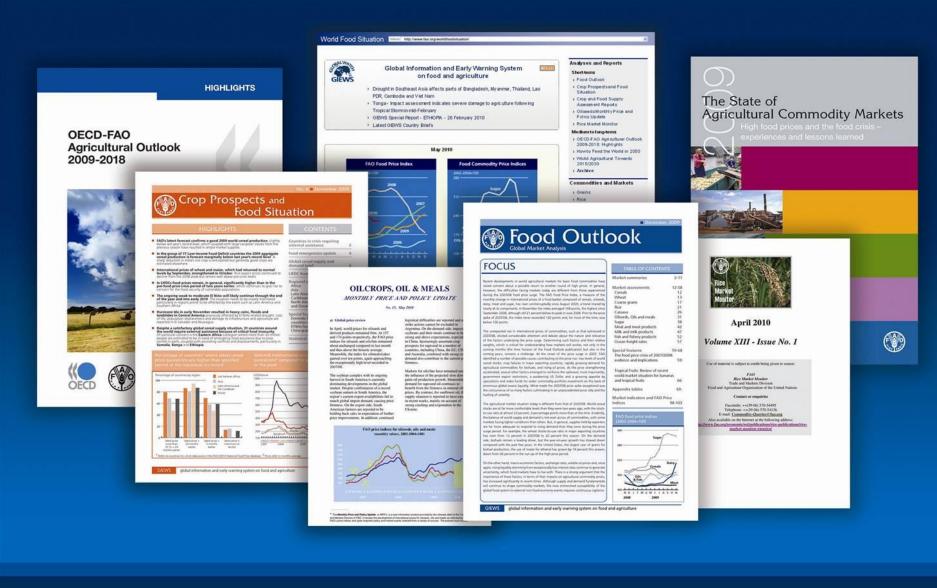




Conclusions

- What synergies between OECD-FAO Outlook and MAFAP, and can collaboration work?
- Yes. But work is needed
 - More attention to African countries is required. Existing outlook expertise for many countries is limited. Data are often questionable.
 - Extend commodity space, particularly to commodities which may be country specific such as cocoa in Ghana
 - Specification of important commodities such as roots and tubers needs to be considerably improved.
 - Re-specification of price relationships between port and producer may be needed for some types of scenarios
- Collaboration could be mutually beneficial
 - Improving data sets
 - Specifications may help in assessment of policy change.
 - Experts in MAFAP countries could review outlook projection and provide improve messaging at local, not just global levels.







Trade and Markets Division Information, Analyses and Forecasts