









Environmental effects of agricultural subsidies

TRADE AND ENVIRONMENTAL SUSTAINABILITY STRUCTURED DISCUSSIONS

TESSD INFORMAL WORKING GROUP MEETINGS

THURSDAY MARCH 16TH

Setting the stage





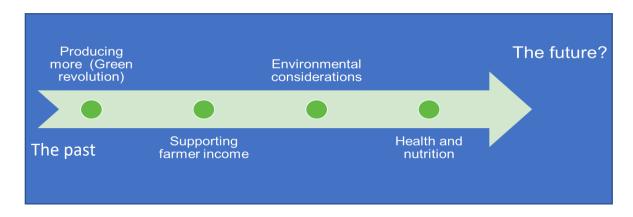




An issue of semantics... and metrics



- Repurposing?
 - Need to define old and new purposes



- Reforming?
- Reallocating resources?
- Support vs subsidies? All type of support are not subsidies, and all subsidies are not recorded in our metrics of support.
- Harmful subsidies?



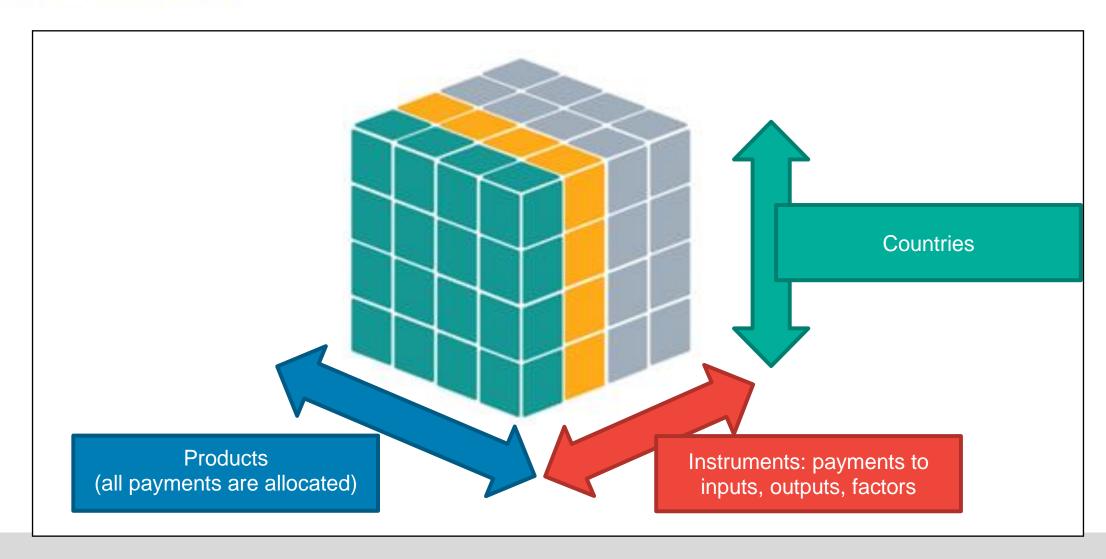






"Reallocation" in a policy and budget space













"Reallocation" in a policy and budget space



Two main type of policies

Subsidies aka domestic support

Trade policies aka import and export taxes/subsidies

4 types of effects

"Scale effect" How much to produce (volume)

"Technical effect"

How to produce (practices)

"Composition effect"

What to produce (products)

Where to produce (location)









Level and composition of global support for Food and Agriculture



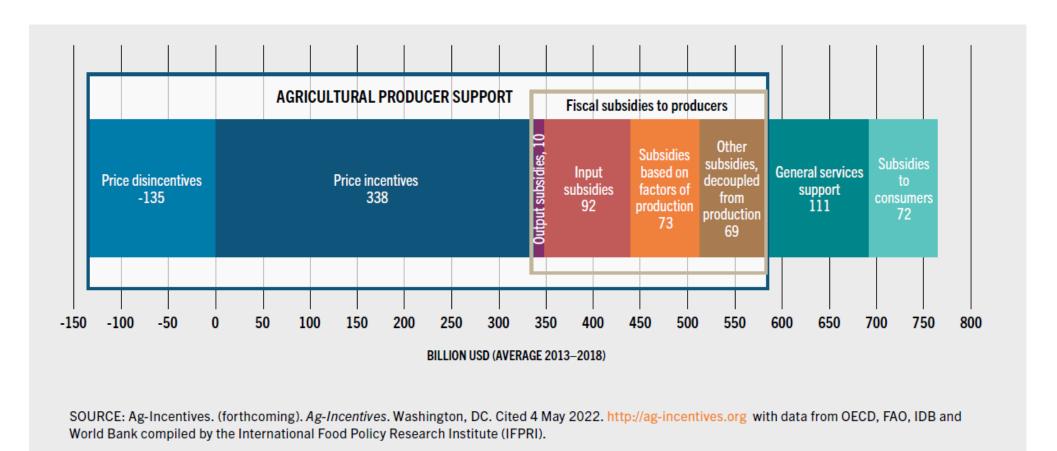


Fig 18 in SOFI 2022

Various works and reports

MODELING THE IMPACTS OF AGRICULTURAL SUPPORT POLICIES ON **EMISSIONS FROM AGRICULTURE**











g agricultural support to transform food systems



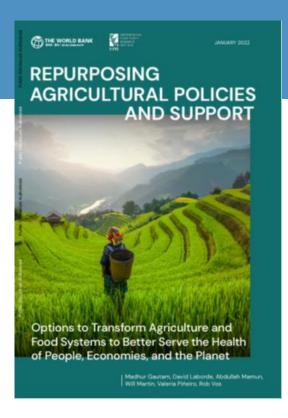
SCIENCE AND INNOVATIONS

for Food Systems Transform and Summit Actions

Joachim von Braun, Kaosar Afsana, Louise O. Fresco, Mohamed Hassan (edito

Papers by the Scientific Group and its part support of the UN Food Systems Summit.

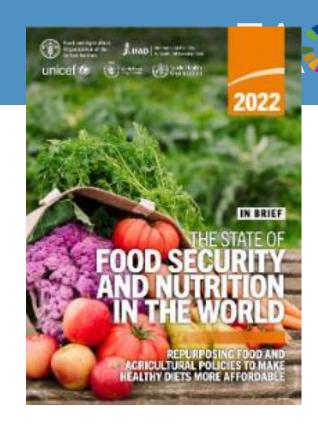




Land use +
Alternative
"Green"
scenarios

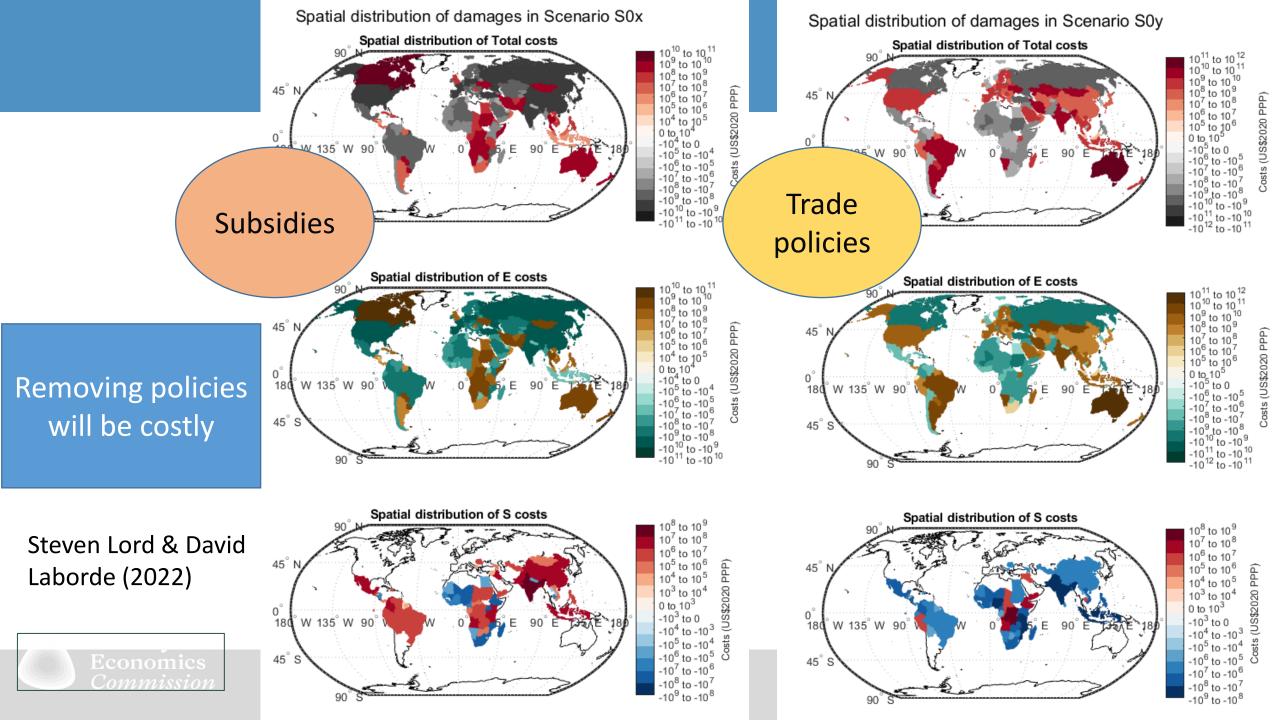


Hidden costs Cross border redistribution



Healthy diets focus: from producers to consumers and product biases

Removing subsidies or reforming them?











Policy removal in SOFI 2022



	Food security and nutrition			Equity			Climate
	Prevalence of undernourishment	Affordability of a healthy diet	Income gap in the affordability of a healthy diet	Extreme poverty (less than USD 1.90 per day)	Farm income	Agricultural production (volume)	GHG emissions from agriculture
WORLD	0.08	-0.15	0.14	0.05	-6.27	-0.64	-0.94
COUNTRY INCOME GROUP							
High-income countries	0.01	-0.04	0.00	0.01	-18.17	-1.48	-2.23
Upper-middle-income countries	0.06	-0.08	0.05	0.01	-5.07	-0.46	-1.00
Lower-middle-income countries	0.13	-0.28	0.31	0.13	-2.06	-0.33	-0.47
Low-income countries	0.06	-0.08	0.06	-0.02	0.49	0.12	1.72
REGION							
Africa	0.07	-0.06	0.05	-0.04	0.33	0.09	0.78
Asia	0.09	-0.20	0.21	0.10	-5.15	-0.51	-0.86
Americas*	0.07	-0.16	0.06	0.01	-6.79	-0.75	-0.76
Latin America and the Caribbean**	0.11	-0.23	0.23	0.02	-1.74	-0.36	-0.53
Europe	0.01	-0.04	0.00	0.01	-24.68	-2.08	-3.80

Important remarks



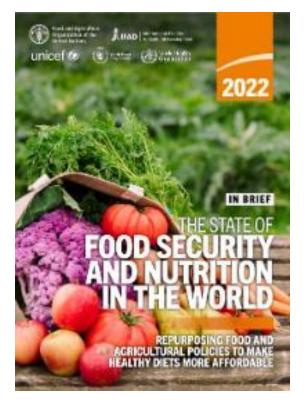
- Avoid simplifications
- Time horizon matters
- Trade distorting policies and environmental harmful policies are not synonymous
- Input subsidies hide a very complex set of policies
- The same policy could have different effects in various locations

Trade-offs

Scenario matrix for SOFI 2022



		Degree of Targeting toward Product				
		Removing biased incentives	Supporting			
			Nutritious Products			
Targeting producers or consumers or both	Fiscal Subsidies to Producers	Homogenous subsidy on farm gross income (same rate of subsidy across all farm commodities) Scenario 1a	Nutritious products are subsidized at ten times the average rate, and products of high energy density and minimal nutritional value at half the average rate. Scenario 1b			
	Mixed approach: the role of border support and market price controls		Border support is removed on nutritious products and not changed for products of high energy density and minimal nutritional value. Scenario 1c			
	Fiscal Subsidies to Consumers:	Consumer subsidies are provided at the same rate of subsidy across all food items Scenario 2a	Nutritious products are subsidized at ten times the average rate, and products of high energy density and minimal nutritional value at half the average rate. Scenario 2b			

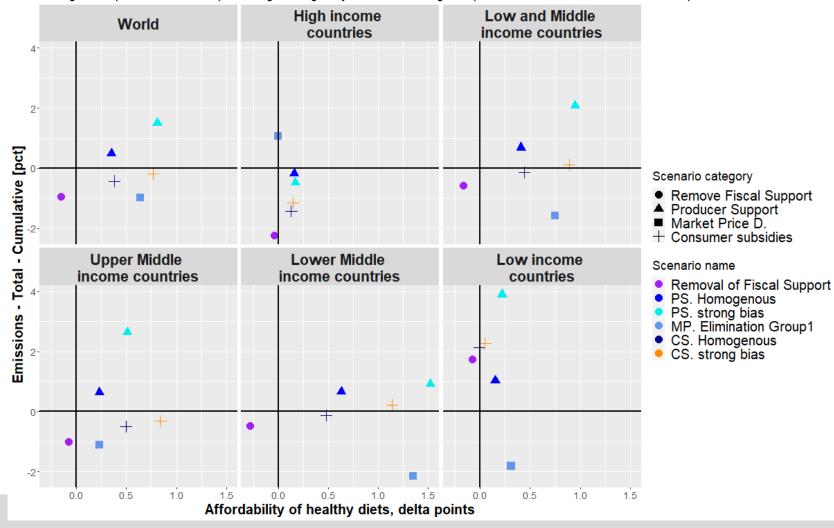


Healthy diets affordability and GHG



Trade-offs: Healthy Diets affordability & GHG emissions

Changes compared to baseline: percentage changes by default, or changes in points if indicated in the variable description.

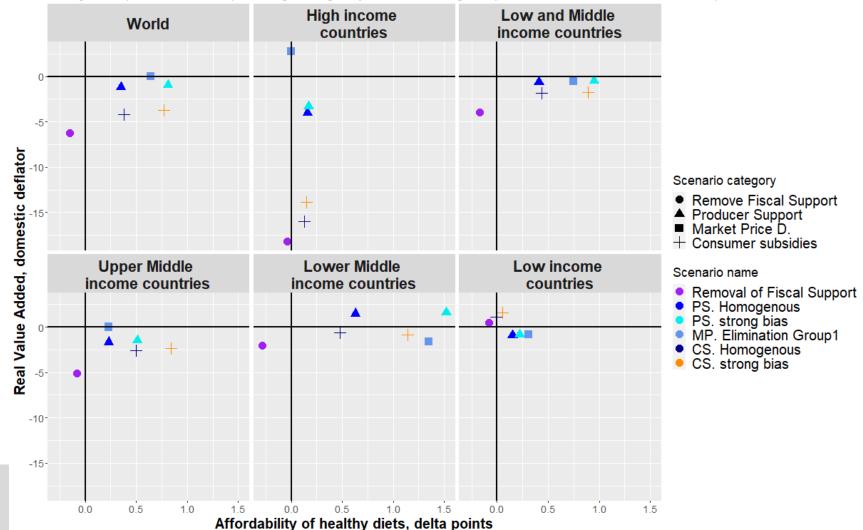


Farm income vs Healthy Diets affordability



Trade-offs: Healthy Diets affordability & Farm Income

Changes compared to baseline: percentage changes by default, or changes in points if indicated in the variable description.



Lessons Learned: Limited Opportunities and careful planning is needed



Removing existing policies will

Hurt farmers overall (with some benefits for some countries)

Will slightly help the poor and the hungry IF border protection is removed

Ambiguous effects on global emissions, mainly through a contraction of production and land abandonment

So, Repurposing is required

Investment in Sustainable
Intensification is required. Investing in
"traditional" productivity gains will not
deliver

Border Polices and Domestic Support have, in most of the cases, opposite effects on diets

Input subsidies are a tricky issue

Focusing on healthy/environmental friendly products

Could contribute to reduce the cost of healthy diets but has limited impact when using producer subsidies

Risk for governments to pick the wrong "good" products

Phasing out resources from staples could have a small impact on undernourishment

Conclusion and Guidance for trade rules



Current WTO rules are not an obstacle for repurposing, but they provide weak incentives or guidelines.

Blue box policies, especially for livestock, are a significant potential to curb GHG emissions.

Repurposing could involve significant box shifting towards Green Box , and abuse of existing flexibilities

Assessing price support through historic reference price is not consistent with a transformation agenda

In the future, soul searching for the WTO members: should the rules focus on "do no harm" or "do good"

Disciplining Overall Trade
Distorting Support is not
synonymous to improve Social and
Environmental impacts of farm
policies

Increase Transparency and
Monitoring (Notifications) will be
essential to promote trust and
coordination in the global
repurposing process

Tariffs remain an awkward instrument to guide repurposing

Border Tax Adjustments are a second-best option

Discriminatory use will be a source of dispute and also inefficiencies