



INTERNATIONAL FOOD
POLICY RESEARCH INSTITUTE
sustainable solutions for ending hunger and poverty

Biofuels , Food and Energy Security: An IFPRI perspective

Siwa Msangi

Environment and Production Technology Division

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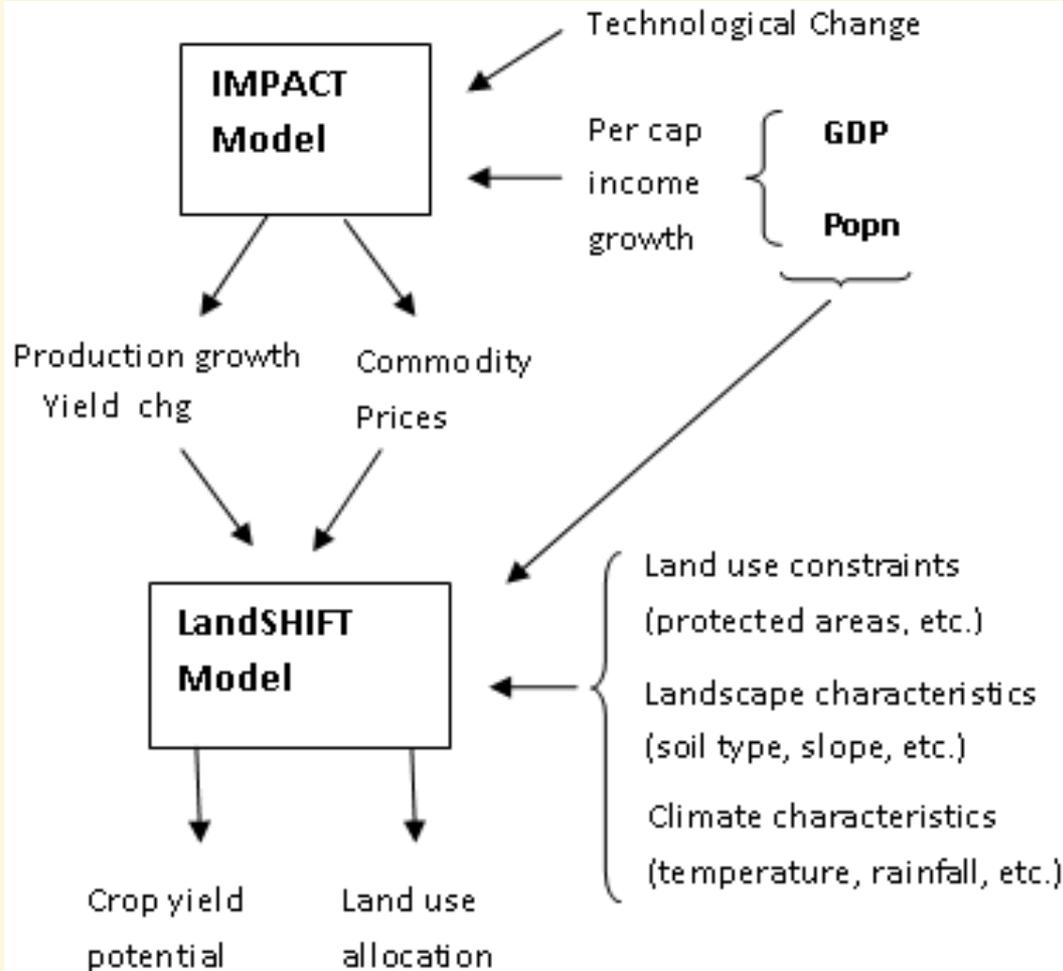
Why IFPRI is interested in biofuels

- Primarily from a food security perspective – try to understand the interactions between energy and agricultural market dynamics
- To capture the trade-offs in resource availability (land & water) arising from biofuels and agriculture interactions
- Looking beyond the pure biophysical effects to see how rural land and labor markets – and, ultimately, the livelihoods of farmers are affected
- Like others in the CGIAR– we are interested to see how biofuels might scale up in the developing world and if there are opportunities for small-holders to capture benefits beyond just providing raw biomass

Projects with an environmental focus

- Study of biofuels and impacts on forest resources in Southeast Asia
 - To examine how global demand for biofuels – principally biodiesel in the EU – might impact upon environmental and human well-being in East, South and Southeast Asia
- Global impact of biofuels on water scarcity and food security
 - To see how global growth in biofuels production could impact the global water balance, and what implications it has for food production and long-term food security

IMPACT-LandSHIFT model linkages



Here we interact an equilibrium-driven market model with a model that accounts for biophysical potential and availability to get realistic bounds on future expansion