

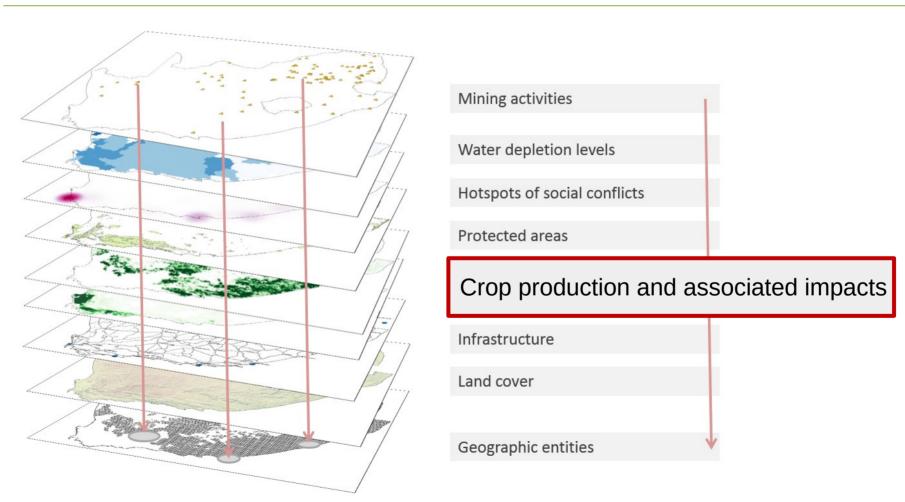






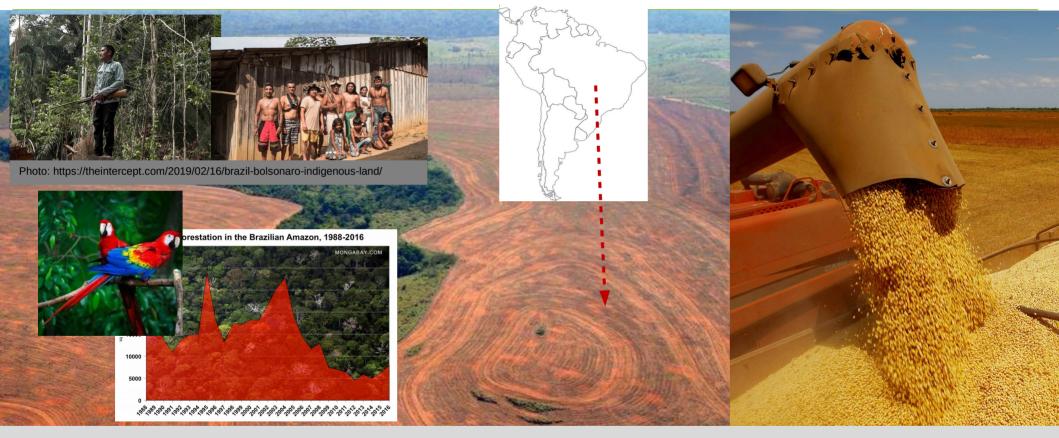
FINEPRINT multilayer analysis





Local impacts of global supply chains





Where exactly are biomass commodities produced and what are the associated impacts?

Available global crop maps

5 arc-minutes grid cell (~10 km x 10 km at the equator)



To name a few available data products:

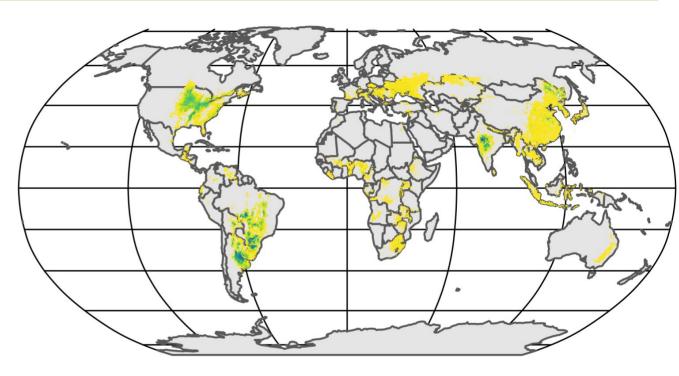
MapSpam: 2000, 2005, 2010 (42 crops)

GAEZ: 2000 (23 crops)

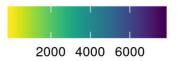
M3: 2000 (175 crops)

Limitations:

- Poor temporal coverage
- Inconsistent methodology over time (MapSpam)
- Does not allow direct land use change analysis



Harvested area of soabean in 2010 [Hectares]



Available global crop maps

5 arc-minutes grid cell (~10 km x 10 km at the equator)



To name a few available data products:

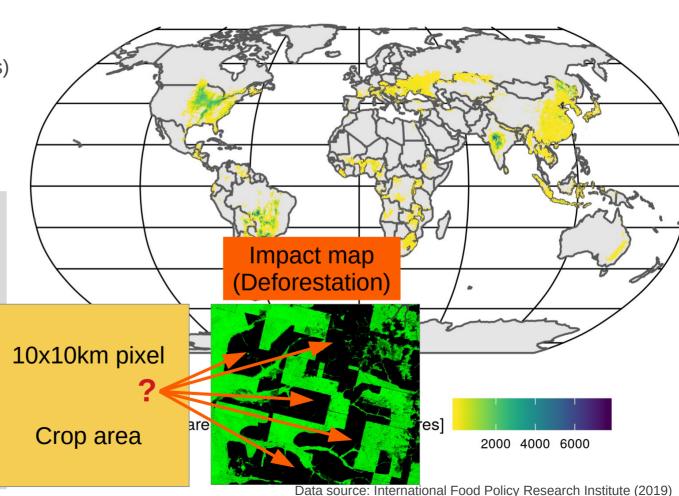
MapSpam: 2000, 2005, 2010 (42 crops)

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M3: 2000 (175 crops)

Limitations:

- Poor temporal coverage
- Inconsistent methodology over time (MapSpam)
- Does not allow direct land use change analysis



Earth Observation for Supply Chains





How to design a reliable and scalable methodology to improve impact assessments of biomass production?



Openly available satellite data for crop mapping



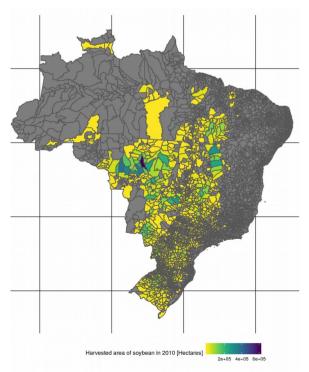


To name a few sensors: Sentinel 1, Sentinel 2, Landsat 8, MODIS Terra and MODIS Aqua

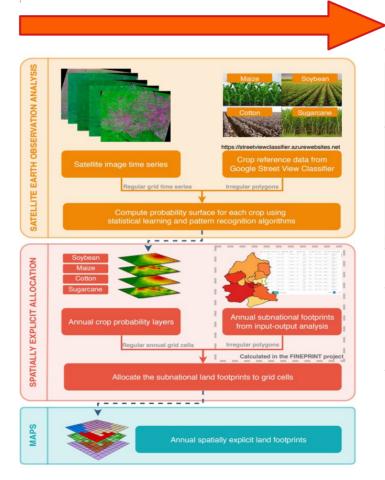
Earth Observation for Supply Chains



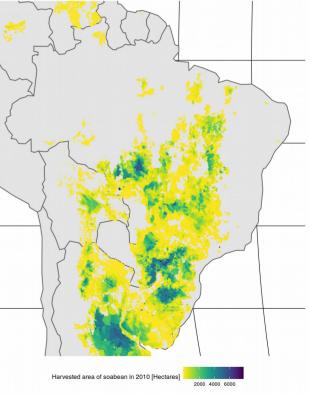
National or sub-national Production and trade statistics



Data source: PAM IBGE (2019)



Yearly 250m crop maps



Spatially explicit production and impacts



