



RECLAIMING THE FUTURE OF FOOD AND FARMING

# ***Agroecology works!***

## **Towards resilient food & farming systems**

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[www.panna.org](http://www.panna.org)

**Webinar 21 June 2016**



# What is agroecology?

*“The study, design, co-creation & management of sustainable farming systems”*

Integrates ecological sciences and principles ...

with local and Indigenous knowledge and practice.



*A social movement to transform power structures.*

# Productive, Profitable & Resilient,

*Biodiverse agroecological farm, Mexico*



Source: Ivette Perfecto

- ✧ local seeds
- ✧ crop rotation
- ✧ polyculture
- ✧ mulch for weed control
- ✧ organic compost
- ✧ agroforestry
- ✧ contour cropping
- ✧ pollinator habitat
- ✧ watershed protection

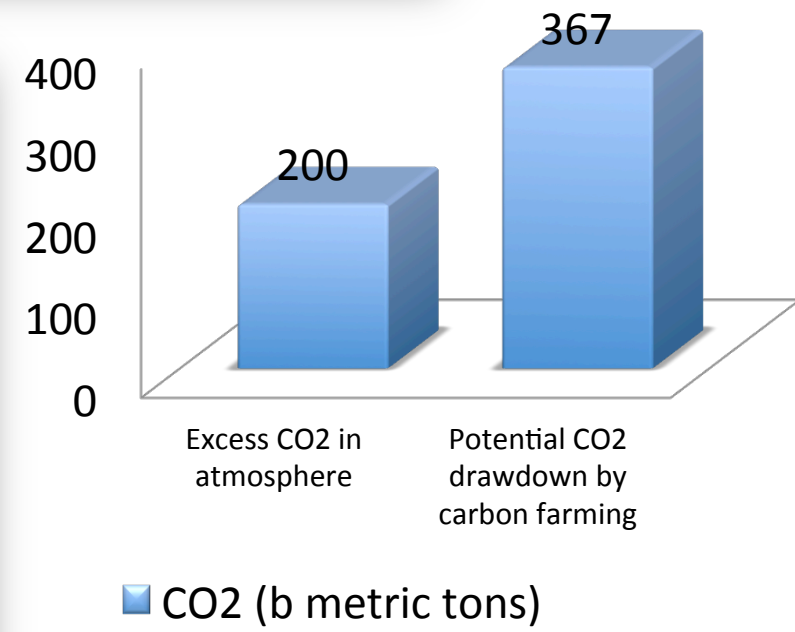
*Social/economic context:*

- + sustainable livelihoods
- + year-round employment
- + nutritious food





## Capturing carbon



Toensmeier, 2016; Lal, 2014; IPCC 2014



# *Agroecology: social & economic equity*





# *Agroecology in the U.S.*





# Agroecology delivers



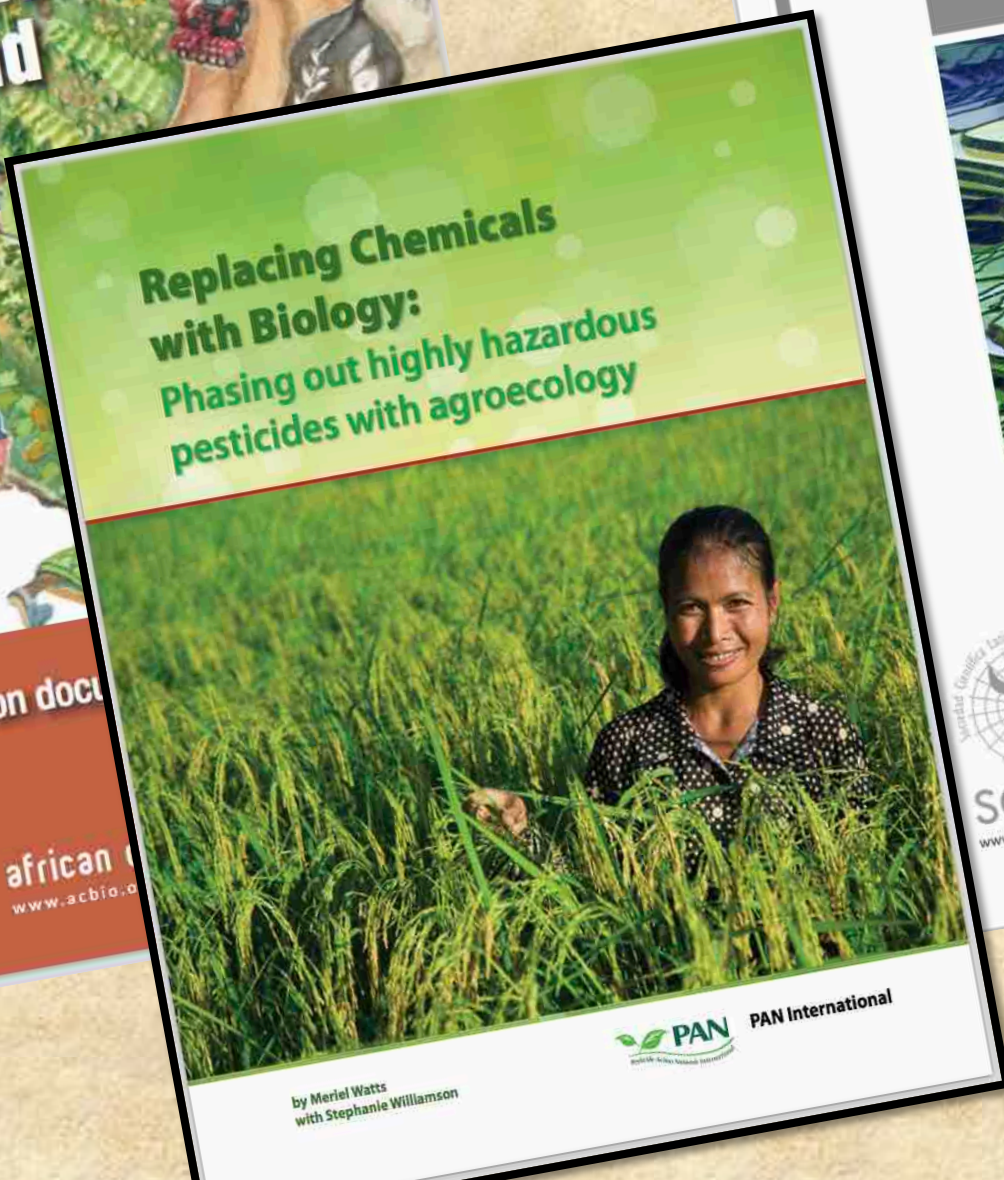
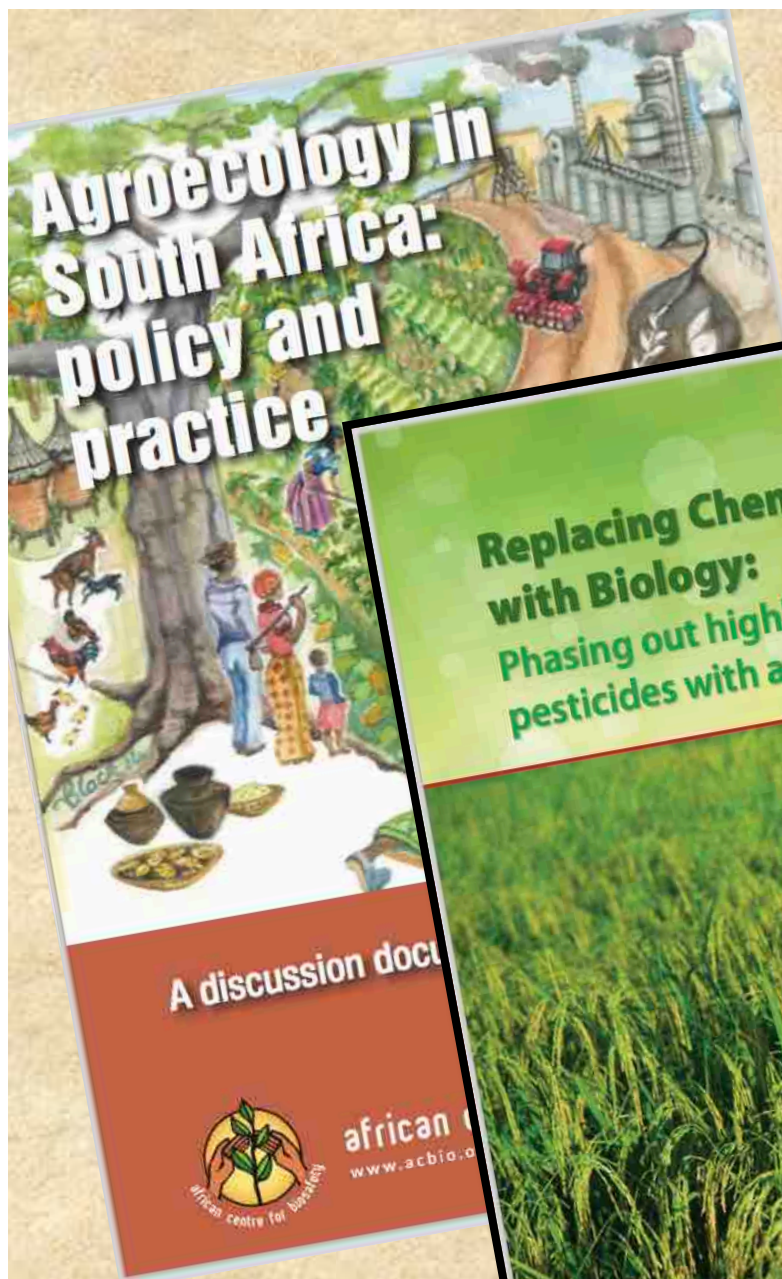
“To feed 9 billion people in 2050, we urgently need to adopt the most efficient farming techniques available...**Agroecology**, done right, can produce just as much food, while conserving natural resources and improving ecological resilience.”

– Olivier de Schutter, UN Special Rapporteur on the Right to Food, 2011

# Agroecology delivers

- ✓ IPES-FS, [From Uniformity to Diversity: a paradigm shift](#) (2016)
- ✓ UNCTAD, [Wake up Before It's Too Late: make agriculture truly sustainable now for food security in a changing climate](#) (2013)
- ✓ UN Special Rapporteur on the Right to Food, [Agroecology & the Right to Food](#) (2011)
- ✓ UNEP, [Towards a Green Economy](#) (2011)
- ✓ UN/World Bank, [International Assessment of Agricultural Knowledge, Science & Technology for Development](#) (2008)
- ✓ UNCTAD/UNEP, [Organic Agriculture & Food Security in Africa](#) (2007)

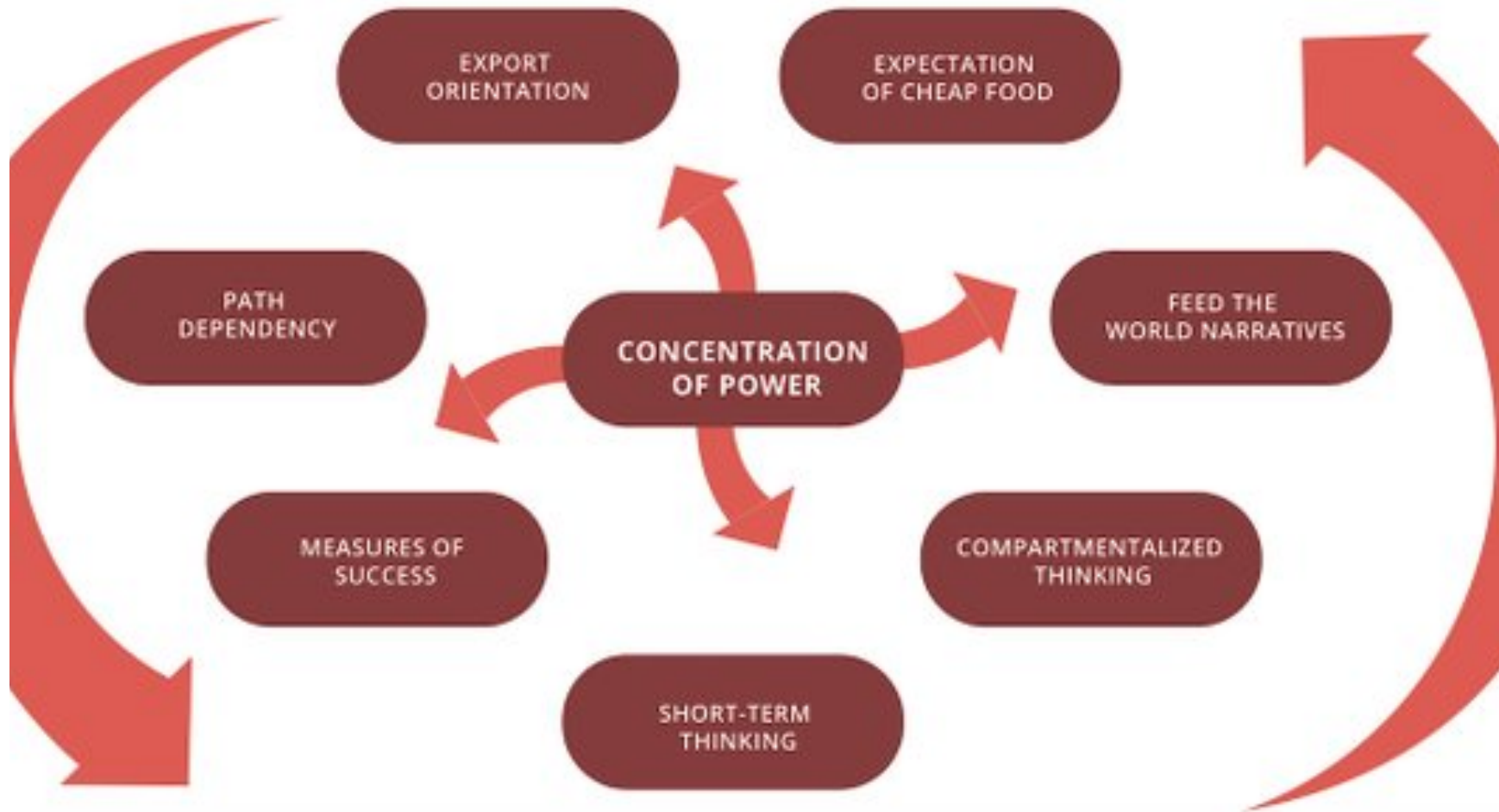




*So why isn't agroecology  
everywhere?*

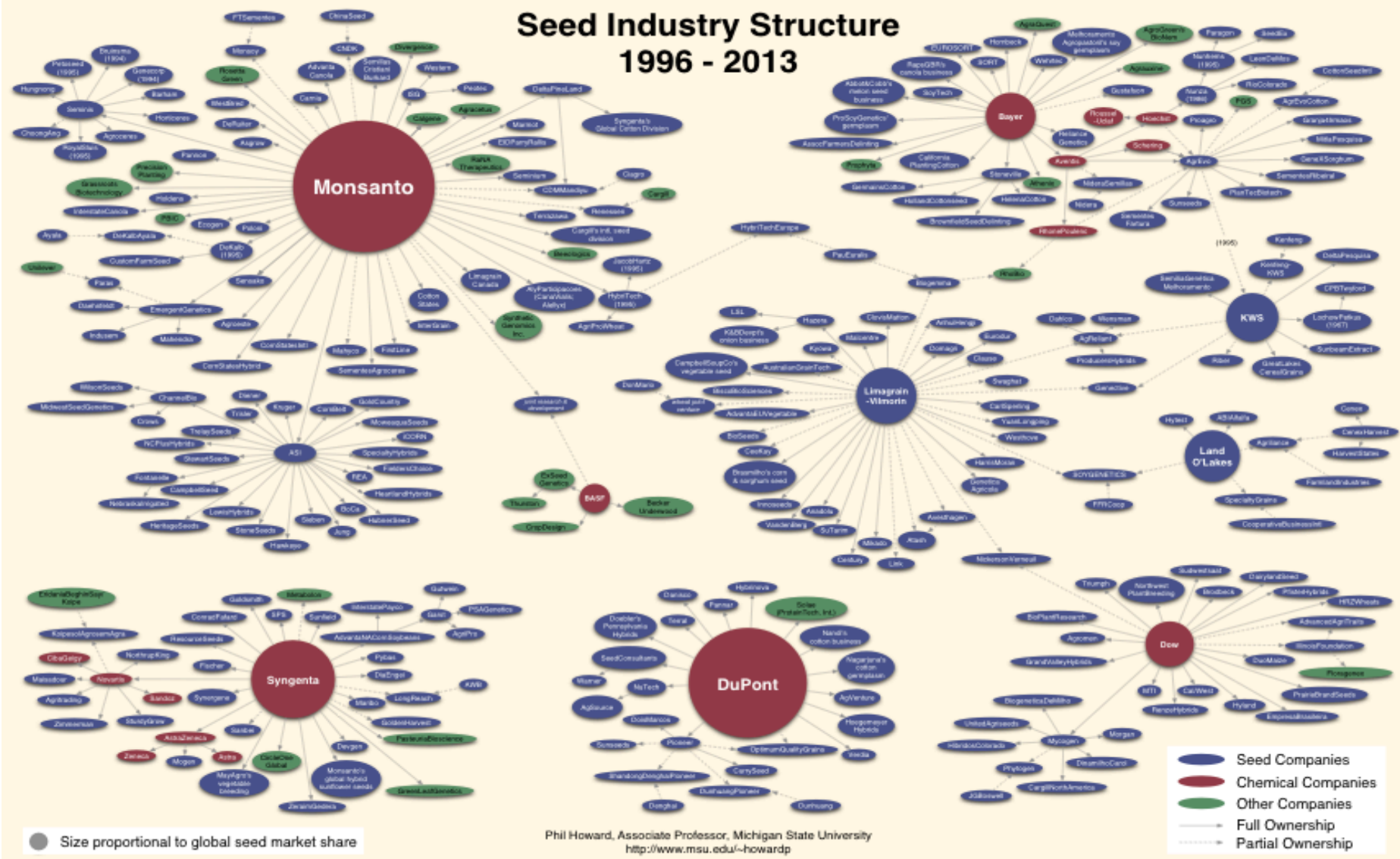


# Industrial Ag Lock-ins



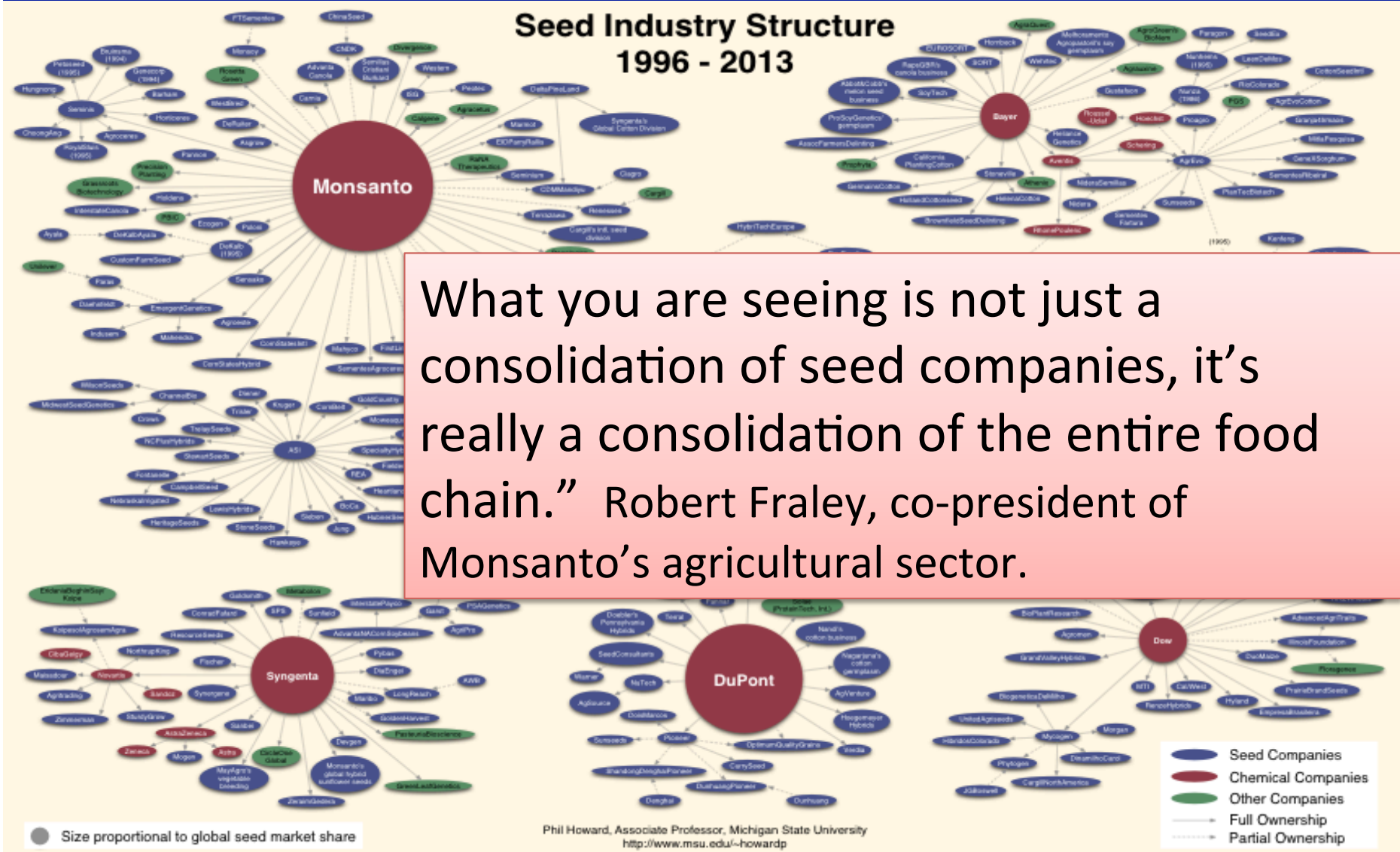
Intl Panel of Experts on Sustainable Food Systems (IPES), 2016

# Corporate consolidation (seeds)



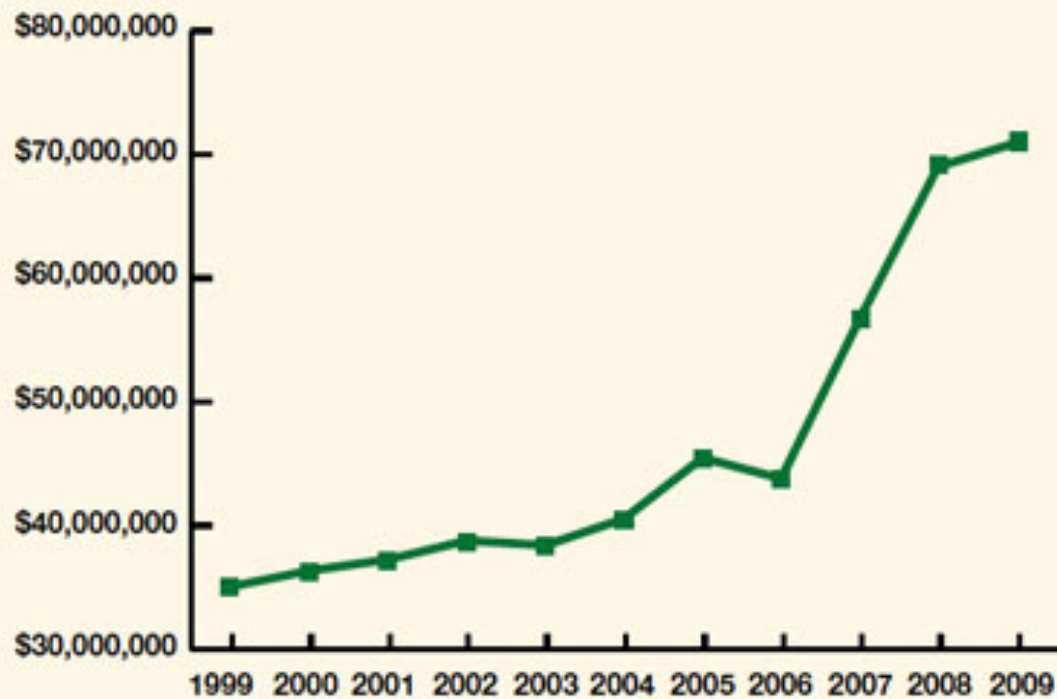


# Corporate consolidation (seeds)



# Market power = political power

## Biotech Lobbying Expenditures



Source: FWW analysis of Center for Responsive Politics data, available at [www.opensecrets.org](http://www.opensecrets.org)



Published on Tuesday, May 05, 2015 by Common Dreams

### Suppressing Science For Monsanto? Groups Demand Investigation of USDA

# Scientific integrity undermined



deLonge, Miles & Carlisle, 2015



# Democracy Matters



Farmworker Association of Florida  
La Asociación Campesina de Florida  
Asosiyasyon Travayè Latè nan Florid





# *Agroecology: path to equitable, productive & resilient farming*



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# Online Resources



RECLAIMING THE FUTURE OF FOOD AND FARMING

- ❖ Learn more: [www.panna.org](http://www.panna.org)
- ❖ Analysis: GroundTruth Blog [www.panna.org/blog](http://www.panna.org/blog)
- ❖ Pesticide information (toxicity): [www.pesticideinfo.org](http://www.pesticideinfo.org)
- ❖ Agroecology:  
<http://www.panna.org/key-issues/agroecology-farming-solutions>
- ❖ Democratizing food:  
<http://www.panna.org/key-issues/food-democracy>