

Are Pesticides Obsolete?

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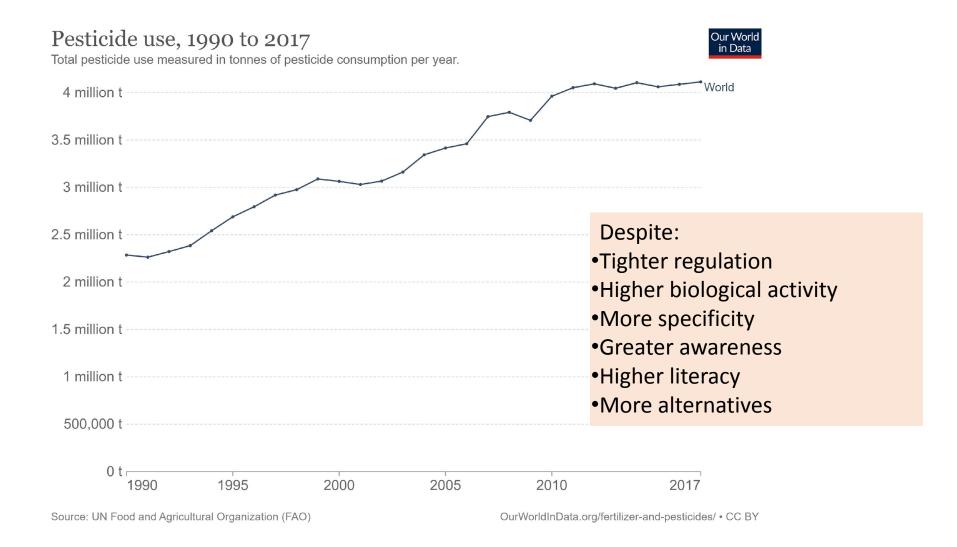






Current thinking

- The cocktail of chemical pollution that pervades the planet now threatens the stability of global ecosystems upon which humanity depends (Stockholm Resilience Centre 2022)
- The assumption by regulators around the world that it is safe to use pesticides at industrial scales across landscapes is false (UK Chief Scientific Advisor)
- There is no conflict between low pesticide use and both high productivity and high profitability in the majority of arable farms (Nature Plants 2017)
- Today's dominant agricultural model is highly problematic, not only because of damage inflicted by pesticides, but also their effects on climate change, loss of biodiversity and inability to ensure food sovereignty (UN Special Rapporteur on the Right to Food)



"The increased use of pesticides since 1960 obviously has not resulted in a significant decrease of crop losses"

When you target these

It's impossible to avoid these



Are synthetic chemical pesticides doing what you think they are doing?

Predator/parasite populations are declining and slow to recover

Pest resistance/ Pest relocation

Increased nutrition & palatability of crops to pests from chemicals

Beneficial organism populations decline (insects, amphibians, reptiles, birds, mammals)

Soil biota depleted

Phyto-toxicity of pesticides



Impact o

385 million poisonings/year globally

15,000 deaths/year globally

168,000 pesticide suicide deaths/year





Countries are taking action

EU Farm to Fork strategy aims to reduce pesticide use by 50% by 2030 with no negative impact on productivity and farmer incomes

CBD target 2/3 reduction in pesticide use globally by 2030

India is reviewing 27 pesticides considered for banning

China has withdrawn 22 and will deregister another 10 pesticides

Mozambique withdrew 39 pesticides after a HHP review



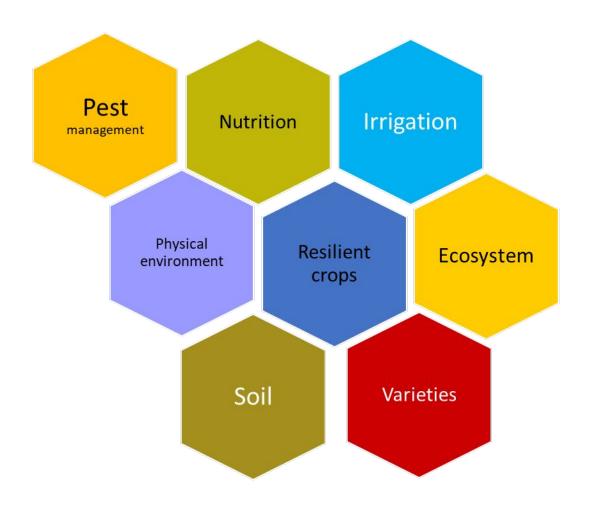


The current model for pest control is wrong



99% of the pesticide misses its target

Holistic cropping systems



Pest Management= Solutions for farmers, not a catalogue of chemicals

Agroecology

Cultural

Mechanical

Biological

Chemical

















New Tech that Zaps Agricultural Pests with Laser Beams

The research comes as demand increases for a safe and stable food supply - without the application of chemicals - to feed the growing global population.

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Juichiro Ito













"...We can't save the world by playing by the rules, because the rules have to be changed. Everything needs to change and it has to start today." Greta Thunberg



Thank you for your attention