

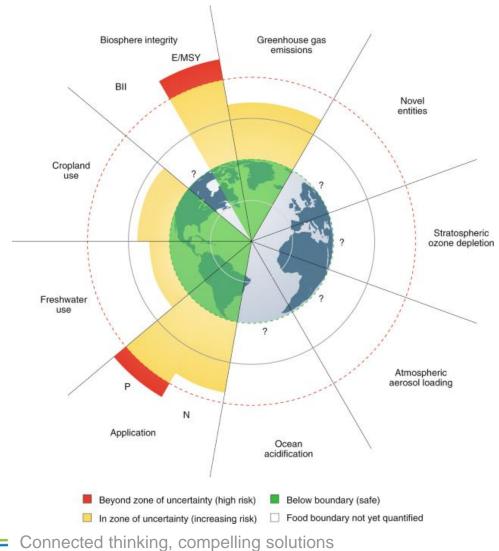


# Building the case for Nature Positive Production

Without a great food system transformation, the world will fail to deliver both on the United Nations Sustainable Development Goals and the Paris Climate Agreement. There are five grand challenges to be faced, by science and society, to effect that transformation.

Planet-proofing the global food system

Johan Rockström, Ottmar Edenhofer, Juliana Gaertner and Fabrice DeClerck



### (1) Diversity in diets

**Target 1 – Healthy Diets** 

2500 kcal/day



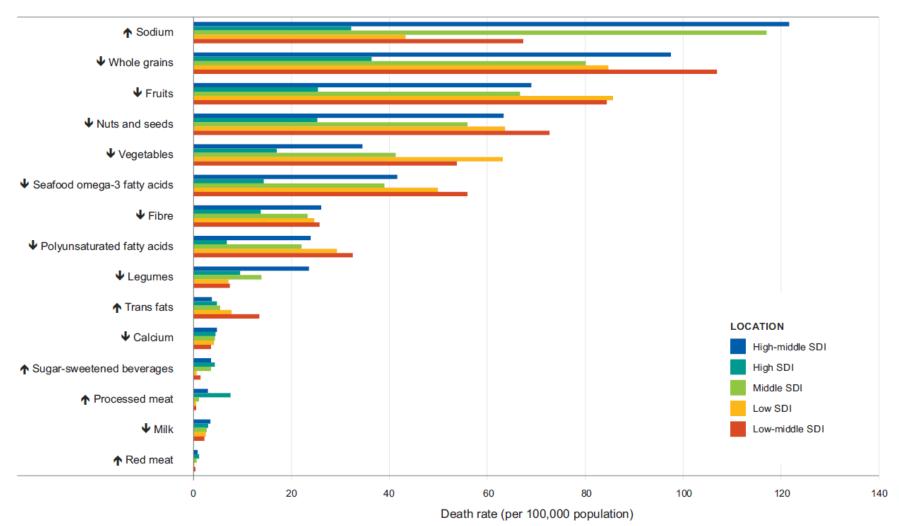
			grams per day (possible range)	Caloric intake kcal per day
	-cucció-	Whole grains Rice, wheat, corn and other	232	811
	0	Tubers or starchy vegetables  Potatoes and cassava	<b>50</b> (0–100)	39
	•	Vegetables All vegetables	<b>300</b> (200–600)	78
	1	Fruits All fruits	<b>200</b> (100–300)	126
	0	Dairy foods Whole milk or equivalents	<b>250</b> (0–500)	153
	3	Protein sources  Beef, lamb and pork  Chicken and other poultry  Eggs  Fish  Legumes  Nuts	14 (0-28) 29 (0-58) 13 (0-25) 28 (0-100) 75 (0-100) 50 (0-75)	30 62 19 40 284 291
	<b>6</b>	Added fats Unsaturated oils Saturated oils	<b>40</b> (20–80) <b>11.8</b> (0-11.8)	354 96
		Added sugars All sugars	<b>31</b> (0-31)	120

**Macronutrient intake** 

### (1) Diversity in diets



### Mortality rate attributable to diet



Source: GBD Collaborative, Health effects of dietary risks in 195 countries, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017." The Lancet 393.10184 (2019): 1958-1972.

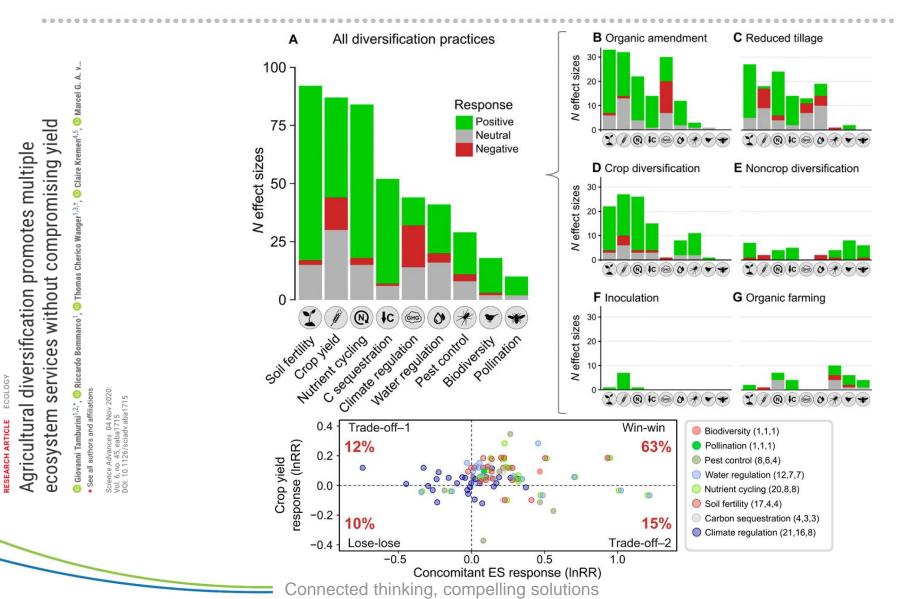


# (2) Agroecology: A Nature Positive Agriculture

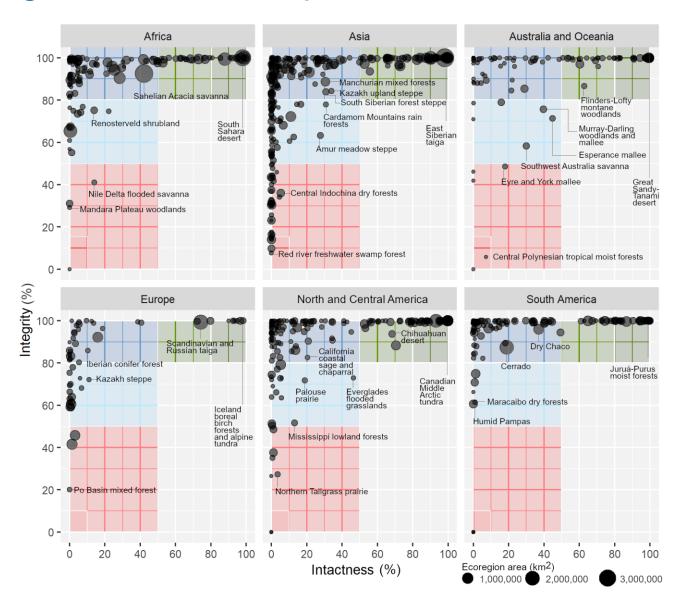
Agroecology focuses on the contribution of biodiversity in regenerating ecosystem services to and from agriculture



### (2) Agriculture must share space with biodiversity

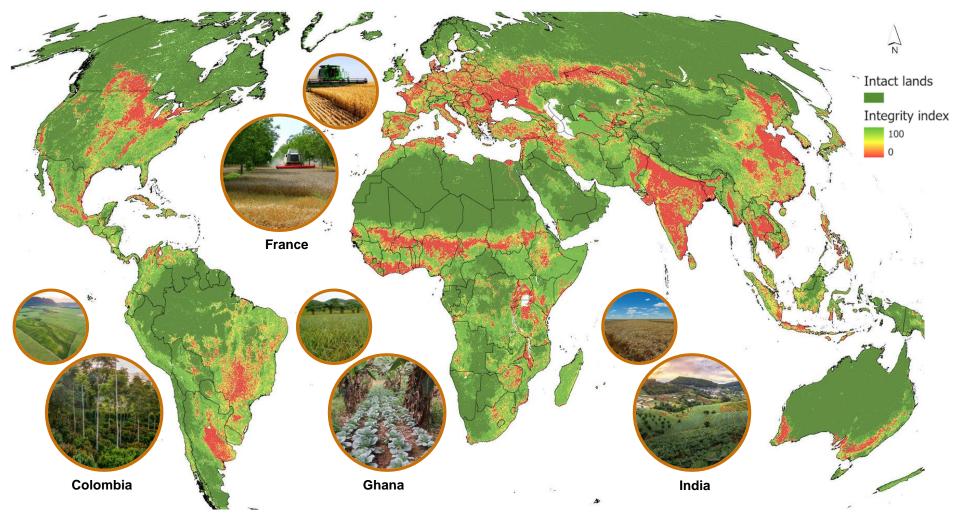


# (3) Agriculture must spare intact nature





## (3+4) A whole earth approach is needed



Source: DeClerck, F., Jones, S., Estrada-Carmona, N. and Fremier, A., 2021. Spare half, share the rest: A revised planetary boundary for biodiversity intactness and integrity.