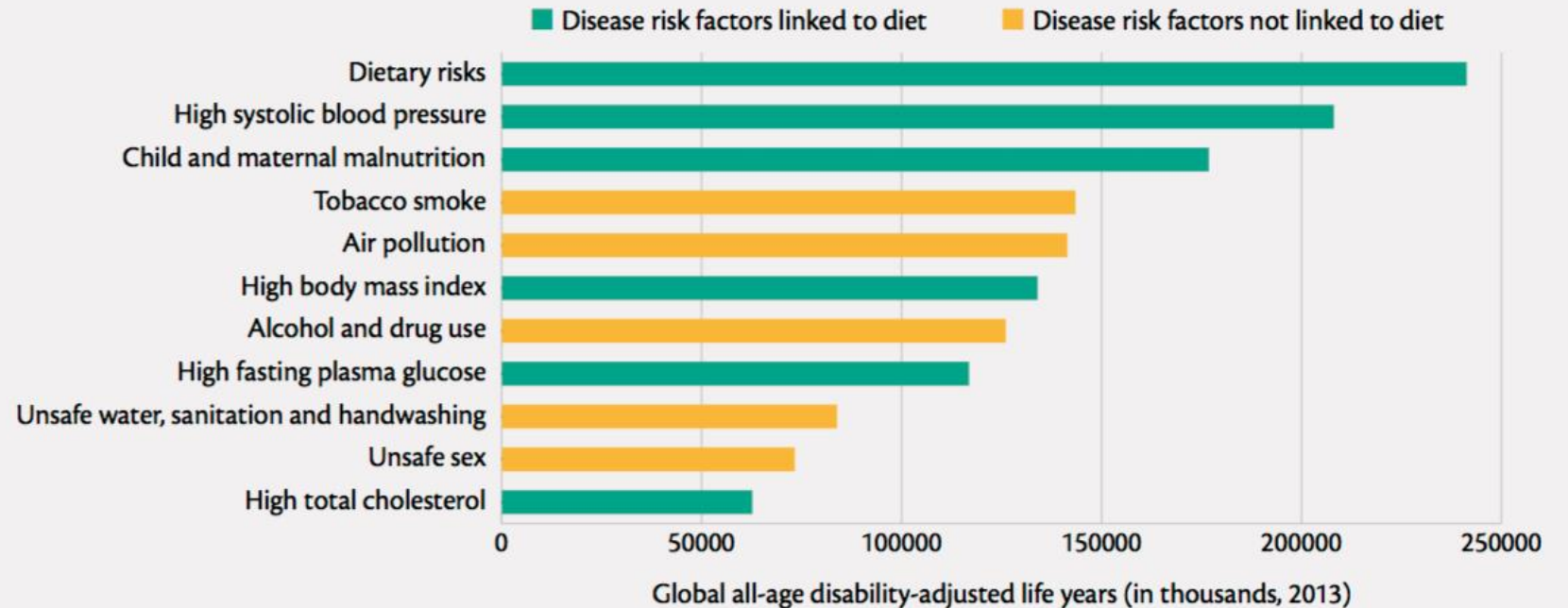


The True Cost & Price of Food

IFAD-Japan N4G side event Nov 30rd
Dr. Gunhild Stordalen, EAT Foundation

Food has become the no 1 cause of human mortality

FIGURE 1: Six of the top 11 risk factors driving the global burden of disease are related to diet



Source: Global Burden of Disease Study 2013 Collaborators (2015), Figure 5

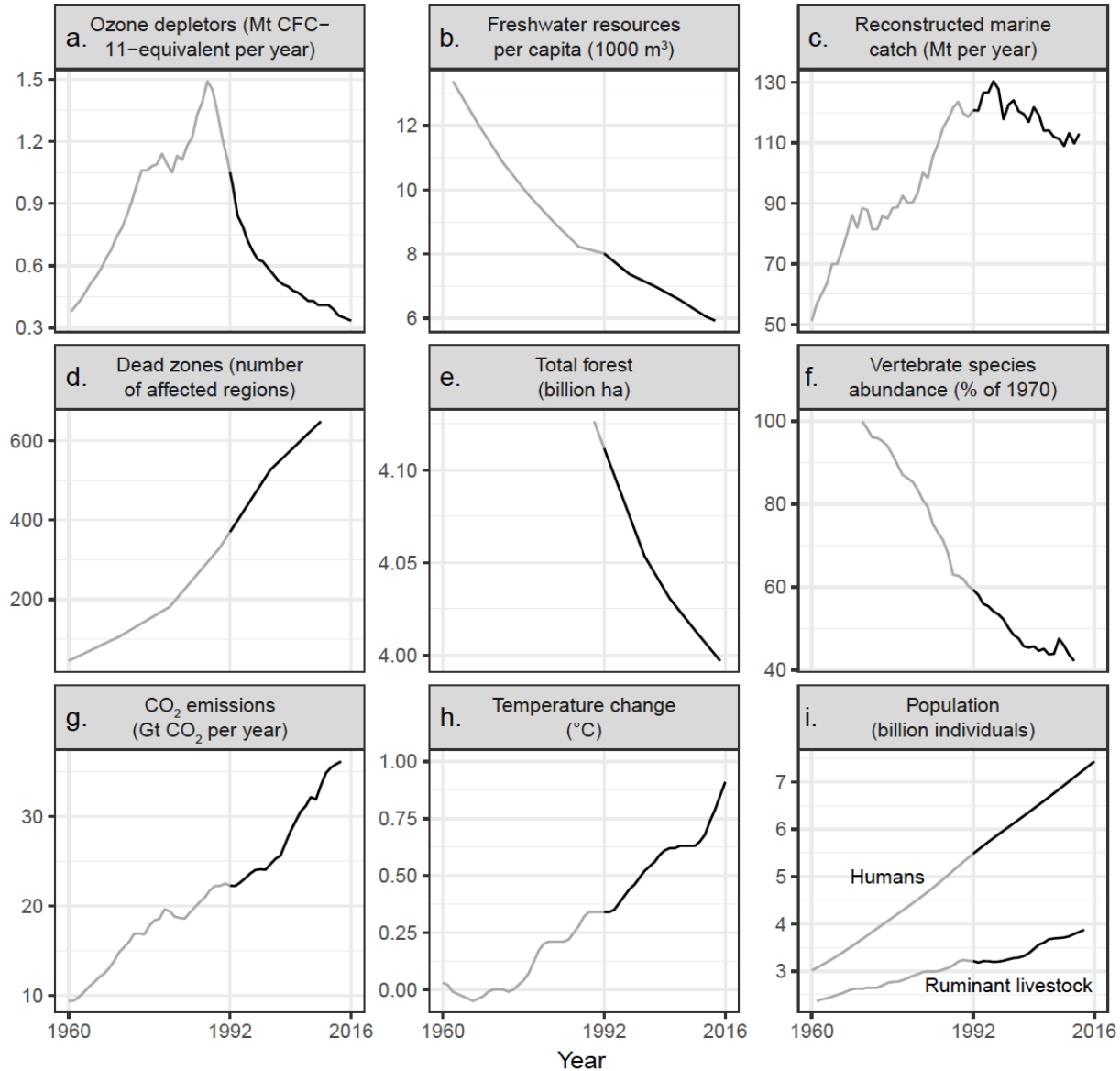
Note: The graph shows global disability-adjusted life years (DALYs) attributed to level 2 risk factors in 2013 for both sexes combined.



World Scientists' Warning to Humanity: A Second Notice

WILLIAM J. RIPPLE, CHRISTOPHER WOLF, THOMAS M. NEWSOME, MAURO GALETTI, MOHAMMED ALAMGIR, EILEEN CRIST, MAHMOUD I. MAHMOUD, WILLIAM F. LAURANCE, and 15,364 scientist signatories from 184 countries

*We are NOT
bending
environmental
curves*



CLIMATE CHANGE

Global food system emissions could preclude achieving the 1.5° and 2°C climate change targets

Michael A. Clark^{1*}, Nina G. G. Domingo², Kimberly Colgan², Sumil K. Thakrar², David Tilman^{3,4}, John Lynch⁵, Inês L. Azevedo^{6,7}, Jason D. Hill²

Fixing food is key to a stable climate

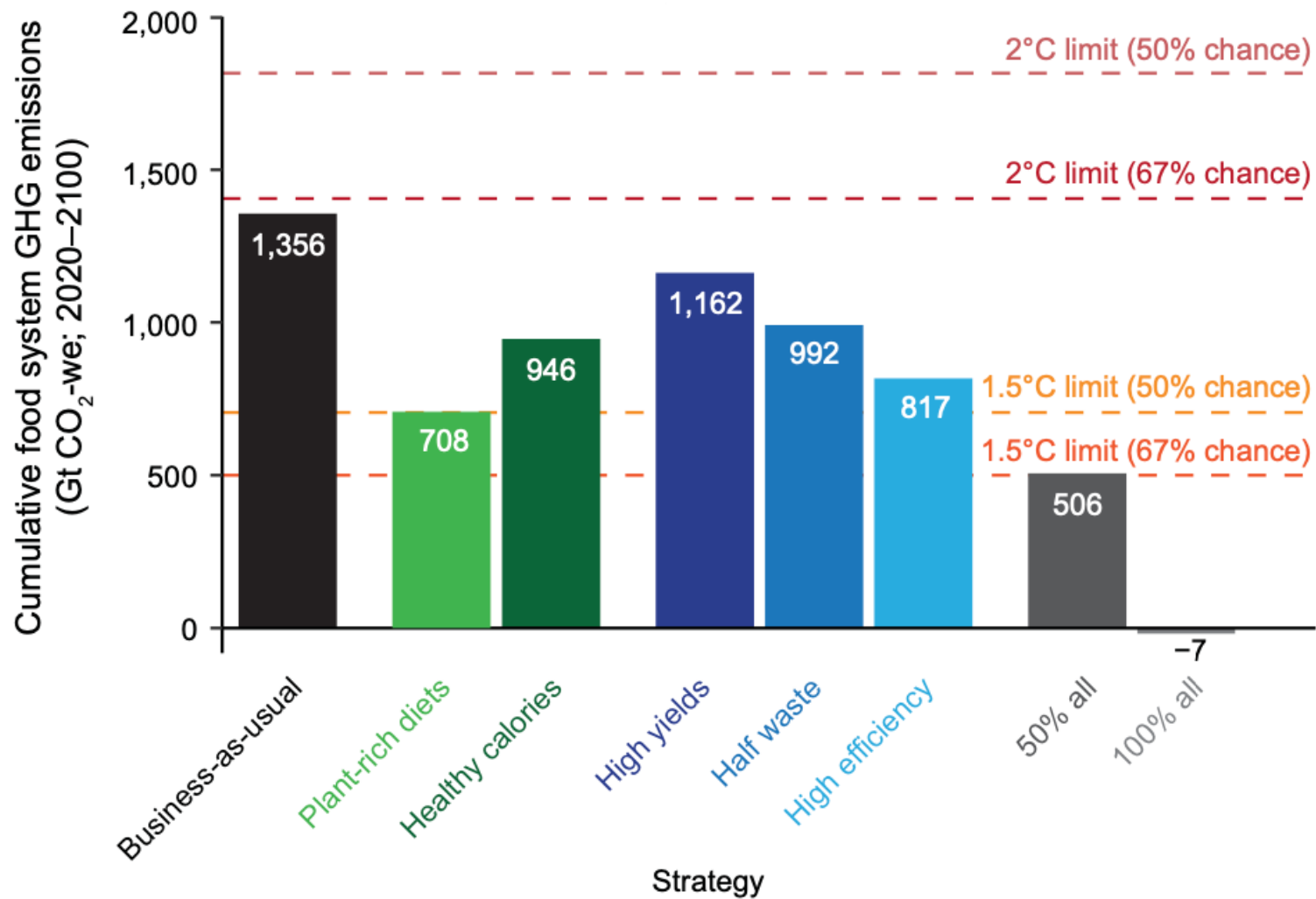










Fig. 1. Projected cumulative 2020 to 2100 GHG emissions solely from the global food system for business-as-usual emissions and for various food system changes that lead to emission reductions.

Defining Healthy Diets

2500 kcal/day



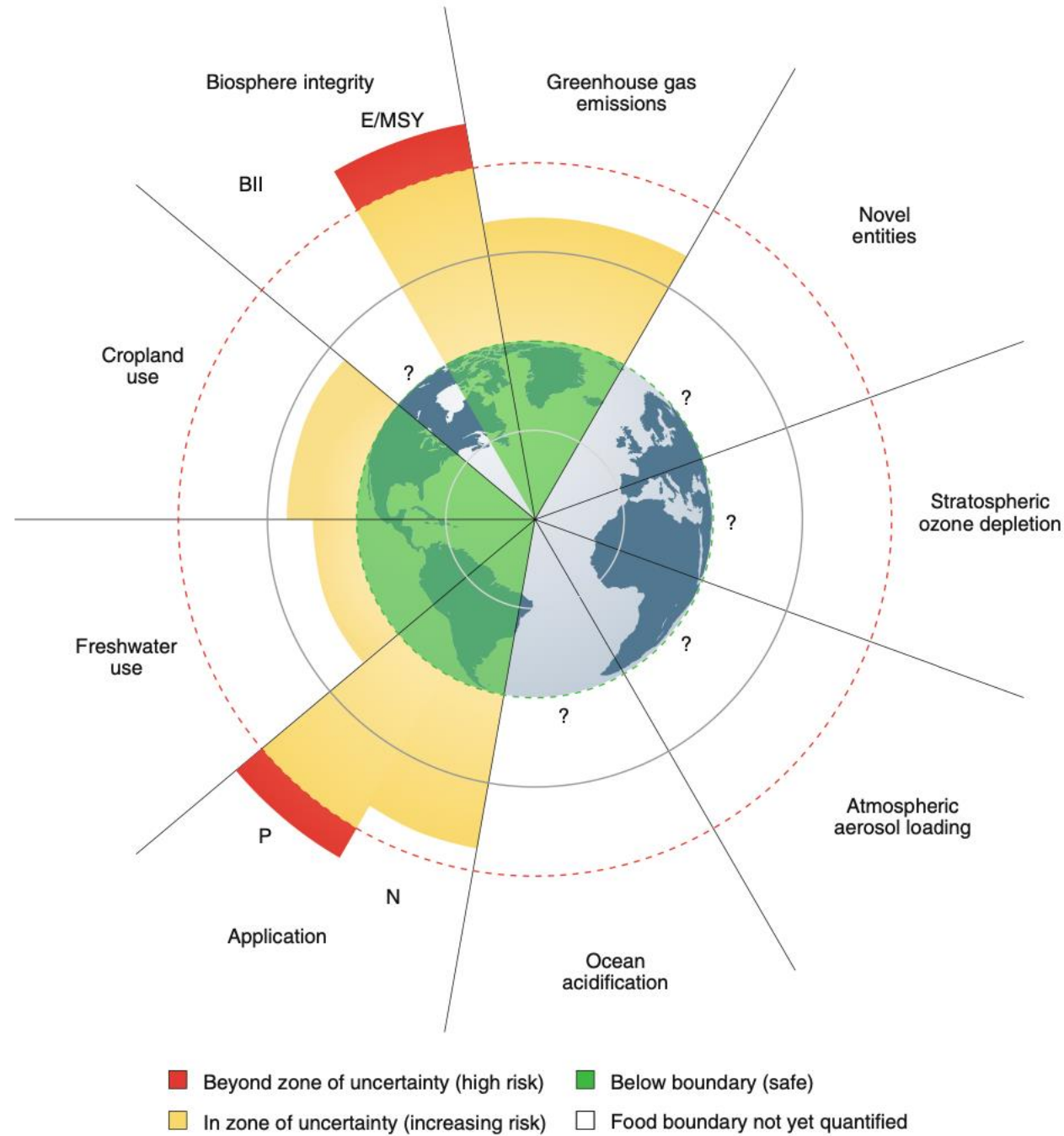
EAT Lancet Commission; The Lancet, 2019

	Macronutrient intake grams per day (possible range)	Caloric intake kcal per day
 Whole grains Rice, wheat, corn and other	232	811
 Tubers or starchy vegetables Potatoes and cassava	50 (0-100)	39
 Vegetables All vegetables	300 (200-600)	78
 Fruits All fruits	200 (100-300)	126
 Dairy foods Whole milk or equivalents	250 (0-500)	153
 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
 Added fats Unsaturated oils Saturated oils	40 (20-80) 11.8 (0-11.8)	354 96
 Added sugars All sugars	31 (0-31)	120

Planet-proofing the global food system

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.

Johan Rockström, Ottmar Edenhofer, Juliana Gaertner and Fabrice DeClerck



**Starved,
stuffed and
squandered by
2050?**

If current trends continue....

Global food demand will increase by about 50% by 2050, the demand for animal products like meat and milk will more than double

More than **4 billion** (45%) people could be **overweight**, **1.5 billion** of them **obese** (16%), while **500 million** people continue to be **underweight**.

**↑ waste of food + ↑ consumption of animal protein =>
environmental impact of food systems will spiral out of control**

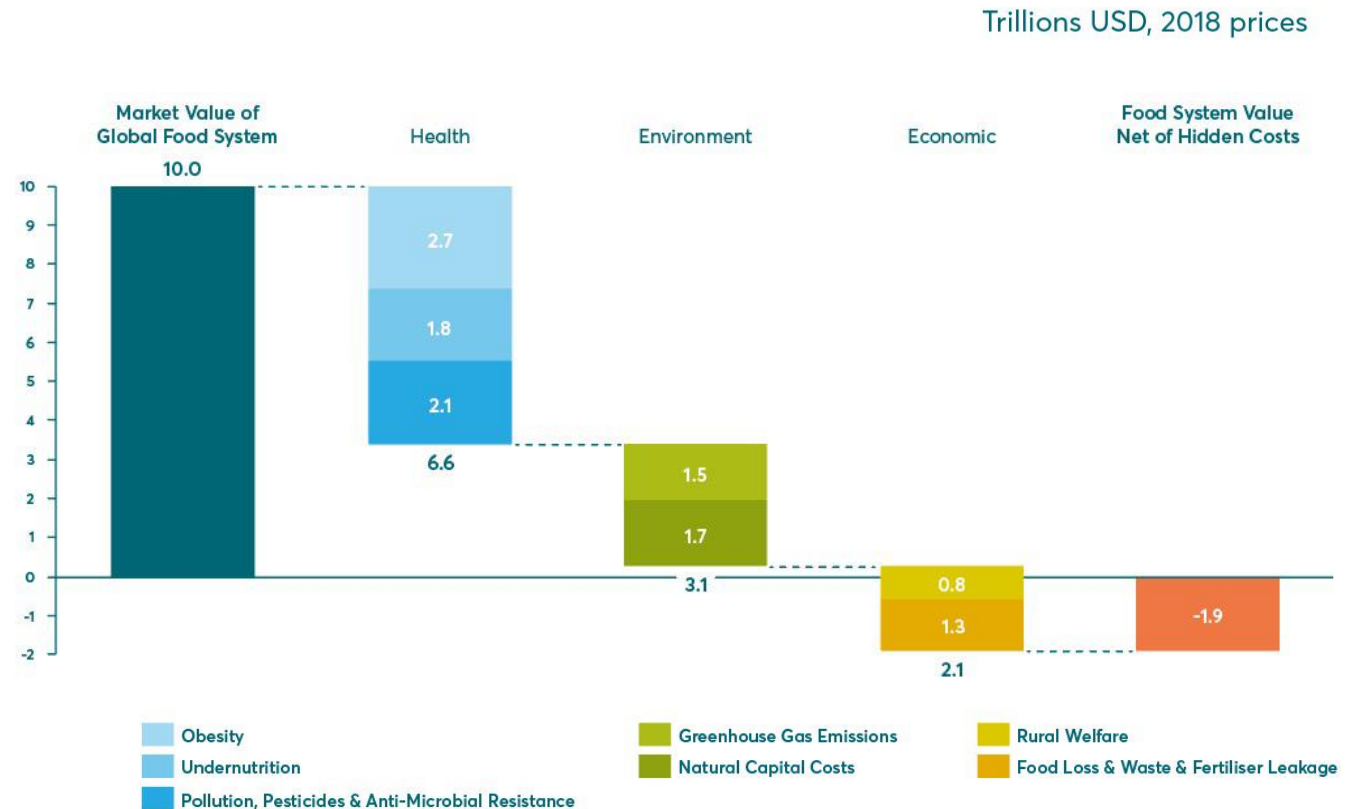
Source: Bodirsky *et al. Sci Rep*10, 19778 (2020).



Food systems generate MORE COSTS THAN VALUE!!

Hidden costs today

The “hidden costs” of global food and land use systems sum to **\$12 trillion**, compared to a market value of the global food system of \$10 trillion.



Source: Food and Land Use Coalition, 2019



True cost accounting would change (almost) everything



The Good Food Finance Network

- Food finance exacerbates rapidly rising global and regional risks
- Significant investment opportunities are missed
- Massive policy failures cement status quo
- Lack of finance instruments tailored to innovators, entrepreneurs in regenerative production, supply of healthy, nutritious foods, etc



CONVENED AND COORDINATED BY

IN CLOSE COLLABORATION WITH

THE WORLD BANK, RABOBANK, S2G VENTURES, UNEP FI, PRI, THE GEF, JUST RURAL TRANSITION,
AND OTHER SUPPORTING PARTNERS.



The *Food Forward* Consortium

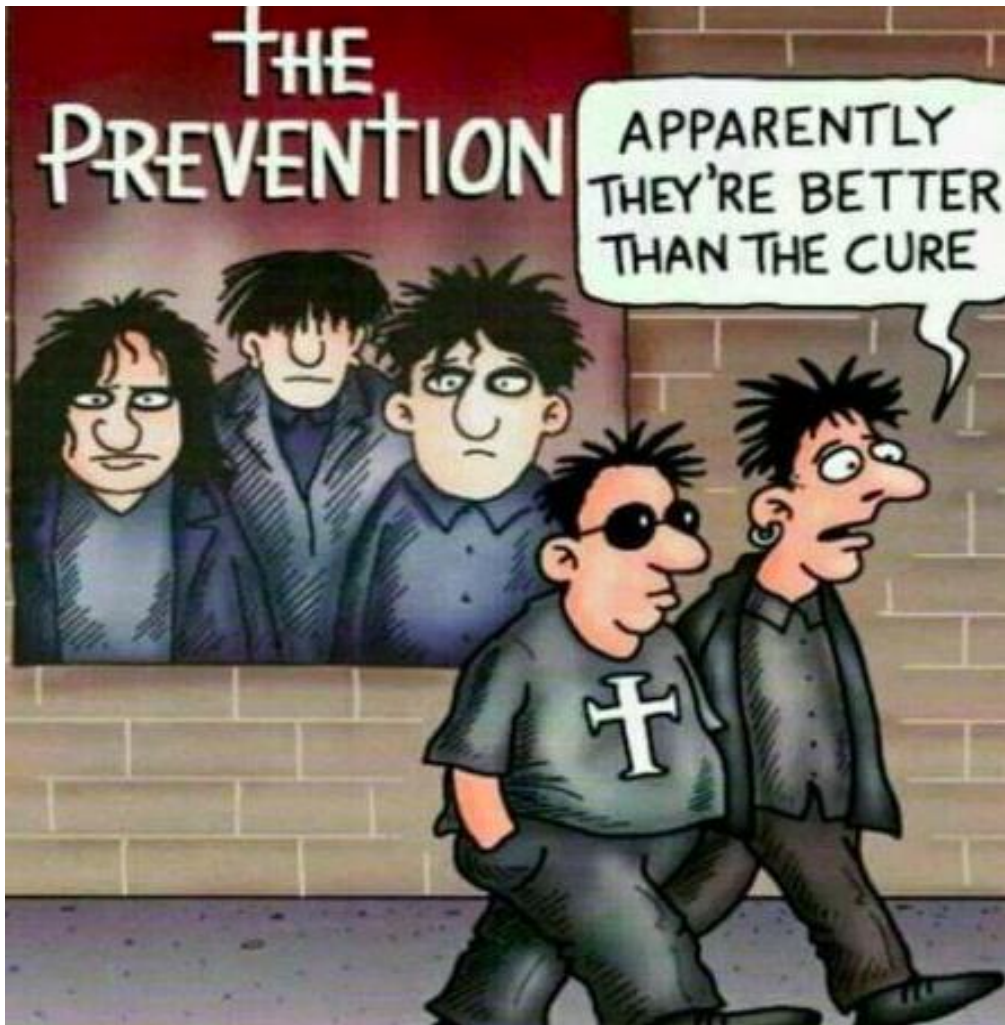


Initiated by GAIN, EAT, WWF, CARE, ICCCAD & The Club of Rome



Core Conveners





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