





# WHAT DOES SUSTAINABLE FOOD CONSUMPTION MEAN IN PRACTICE?

- eat less meat and processed foods
- shop local
- choose seasonal food
- reduce your food waste
- compost your food waste
- bring your own bag to the shop
- recycle
- take a look on food labels





















# WHAT CAN WE RECYCLE?



# **TRASH**

PUT NON-RECYCLABLES IN YOUR TRASH OR COMPOST



film plastic (plastic wrap, bags, bubble wrap, etc.)



yard clippings (if not composting)



dirty diapers or cat litter



foam



food (if not composting)

waste-to-energy

# LABELS ON FOOD PRODUCTS

PP



PS











**OTHER** 





# THE EFFECTS OF THE CURRENT GLOBAL FOOD CONSUMPTION

The **consumption of animal-sourced food products** by humans is one of the most powerful negative forces **affecting the conservation of terrestrial ecosystems** and **biological diversity**. **Livestock production** is the single largest driver of **habitat loss**, and both **livestock and feedstock production** are **increasing in developing tropical countries** where the majority of biological diversity resides.

The <u>projected land base</u> required by 2050 to support livestock production in several megadiverse countries <u>exceeds 30–50%</u> of their current agricultural areas. <u>Livestock production</u> is also a leading cause of <u>climate change</u>, <u>soil loss</u>, <u>water and nutrient pollution</u>, and <u>decreases of apex predators and wild herbivores</u>, compounding <u>pressures on ecosystems and biodiversity</u>.

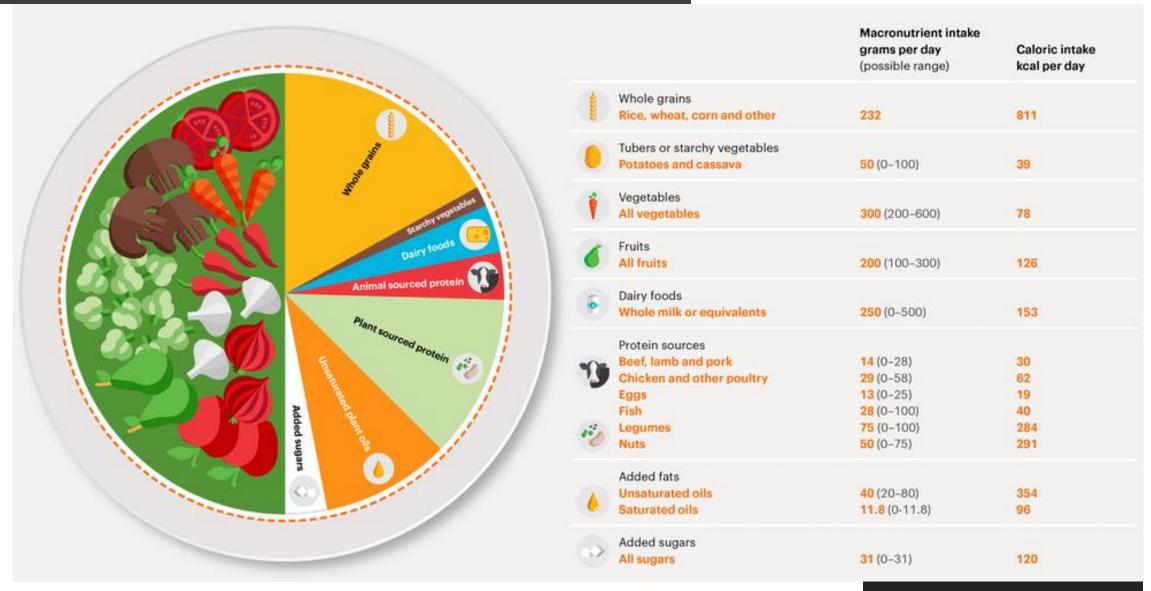
Machovina, B., Feeley, J. K., Ripple, W. J. (2015). Biodiversity conservation: The key is reducing meat consumption. *Science of The Total Environment*, p.419-431.

# Global greenhouse gas emissions from agriculture, forestry and other land use

UN IPCC Fifth Assessment Report, 2014



# THE PLANETARY HEALTHY DIET



# SOME FOODS ARE "WIN-WIN" OTHERS ARE "LOSE-LOSE"

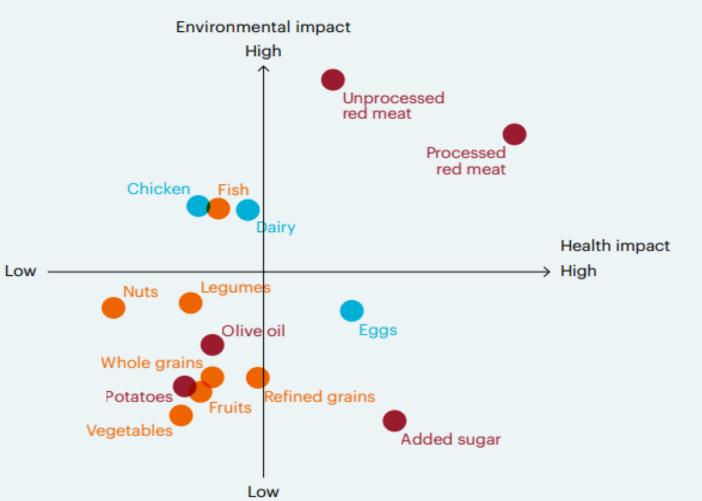
# Health and environmental impacts of various foods

- Emphasized foods
- Optional foods
- Limited foods

#### Figure 4.

The health and environmental impacts of various foods. Overconsumption of red and processed meats increases the risk to both human health and the environment. Plant foods tend to be good for both people and planet. Added sugar is a major driver of poor health but has much lower environmental impacts.

Source: Clark et al. (2019).17









# **EXAMPLES OF A PLANETARY HEALTHY DIET, according to the EAT Lancet Commission**









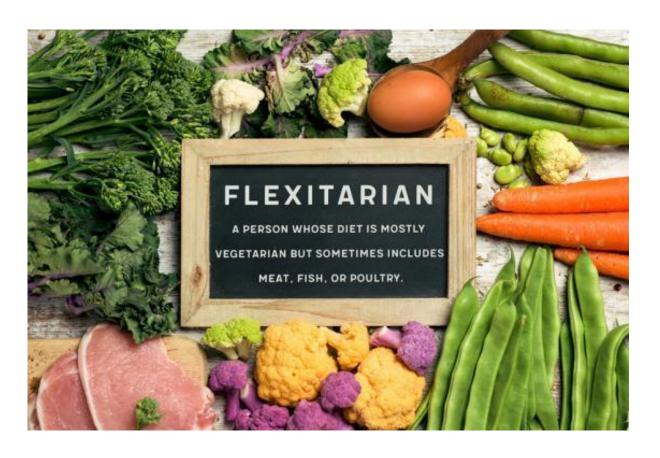






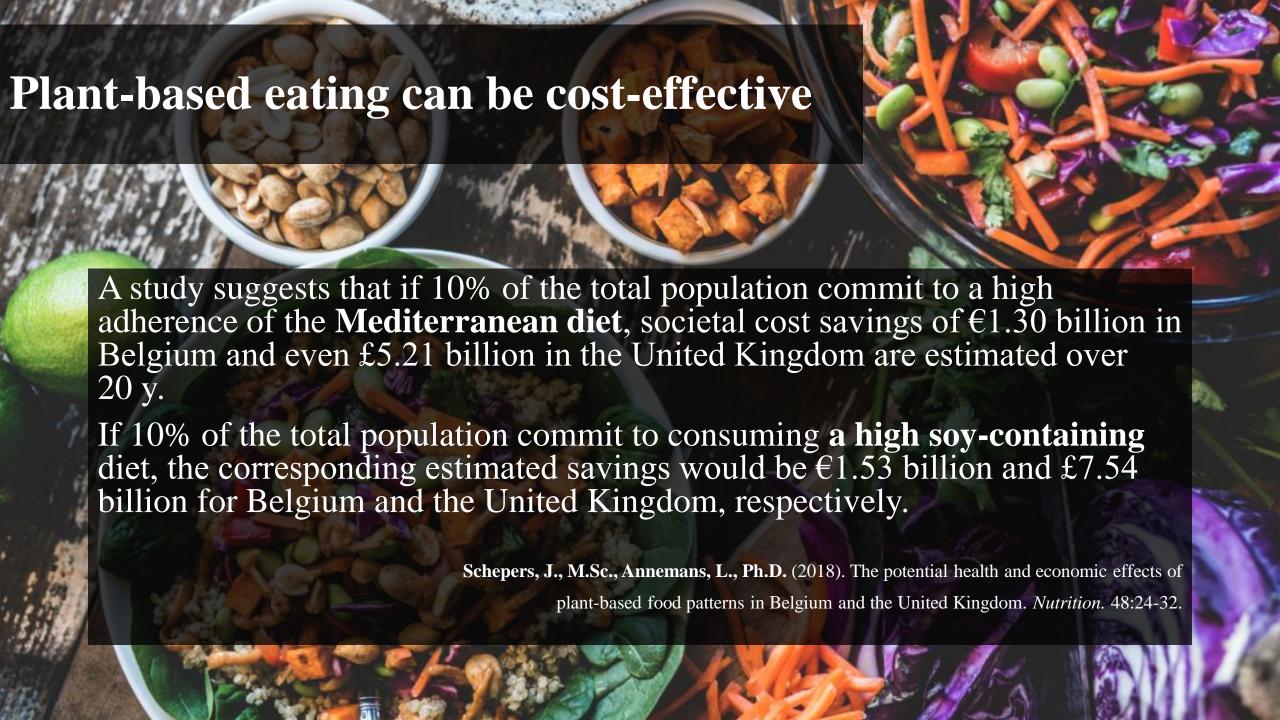






# Dietary changes from current diets toward healthy diets are likely to result in significant health benefits.

Approach 1 Comparative Risk	19%	or	11.1 million adult deaths per year
Approach 2 Global Burden of Disease	22.4%	or	10.8 million adult deaths per year
Approach 3 Empirical Disease Risk	23.6%	or	11.6 million adult deaths per year
			The Eat Lancet Commission, 2019.



## PLANT-BASED DIETS ARE IN LINE WITH...

- AMERICAN HEART ASSOCIATION
- AMERICAN INSTITUTE FOR CANCER RESEARCH
- AMERICAN CANCER SOCIETY, 2020
- CANADA FOOD GUIDE, 2020
- EAT LANCET, 2019

# **The Planetary Health Plate**

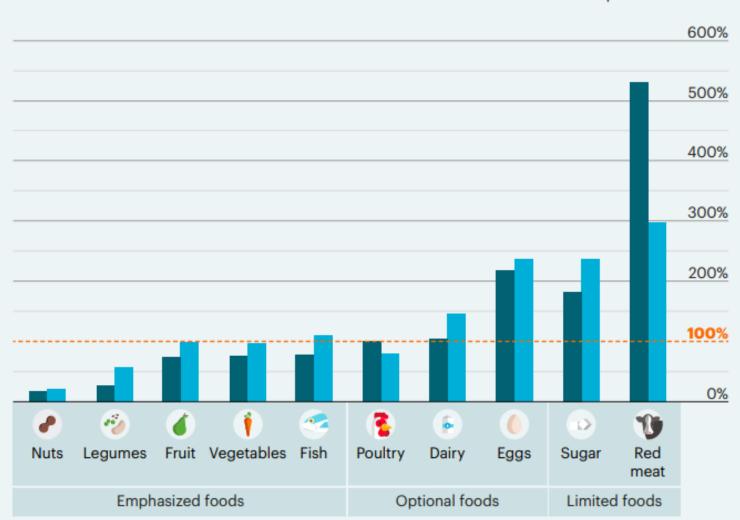




# Current consumption and NDGs for G20 countries compared to optimal intake

- Current Consumption
- National Dietary Guidelines
- ·-· Planetary Health Diet

% above or below the optimal intake level



The ecological foodpri consumption patterns		The ecological foodprint if are adopted globally	NDGs
India ———	··· Planetary	Indonesia —	Planetary
Indonesia —	boundary for food	India ———	boundary for food
China		South Korea	
Japan ———		China ———	
Saudi Arabia		Japan	
Turkey —		Saudi Arabia*	
South Korea —		Germany —	
South Africa		South Africa	
Mexico —		EU28	
Germany —		Turkey	
Russia		Mexico	
EU28		Italy ———	
UK ———		France ———	
Canada		UK	
Italy		Australia	
France —		Russia*	
Brazil —		USA	
USA ———		Brazil ———	
Australia		Canada	
Argentina —		Argentina —	

## National Dietary Guidelines of Canada

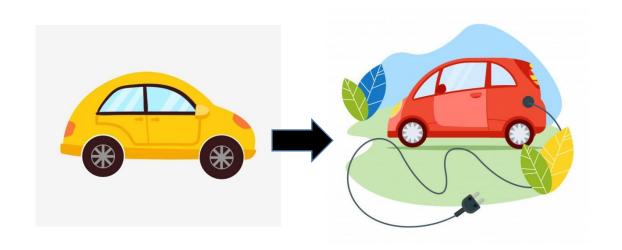
Canada recently launched a food guide with the words "Eat Well. Live Well." across the top of their guidelines.

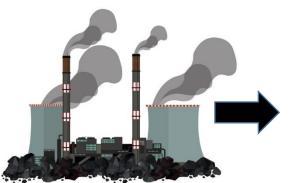
Their recommendations are to: have <u>plenty of vegetables</u> and <u>fruits</u> (half of the plate), <u>eat protein foods</u> (quarter of the plate), choose <u>whole-grain foods</u> (quarter of the plate), and <u>make water the drink of choice</u>.

The "guide emphasizes **getting protein from plant-based sources** such as beans, lentils and nuts, rather than always choosing animal-based foods such as milk, meat and poultry.

The Eat Lancet Commission, 2020.















# THANK YOU FOR YOUR ATTENTION!



### ADDITIONAL SOURCES

https://eatforum.org/eat-lancet-commission/

https://www.greenpeace.org/international/story/6803/will-europe-lead-the-way-towards-zero-deforestation/

https://littleshopofdreams.tumblr.com/post/121888136092

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https://www.proteinreport.org/research/creating-sustainable-food-future

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