The Interconnectedness between the Ecosystems of a Human Body and the Earth

with Rosa Tkacova

Erickson's Eco Coaching Series



The Impact of Climate Change on Human Health

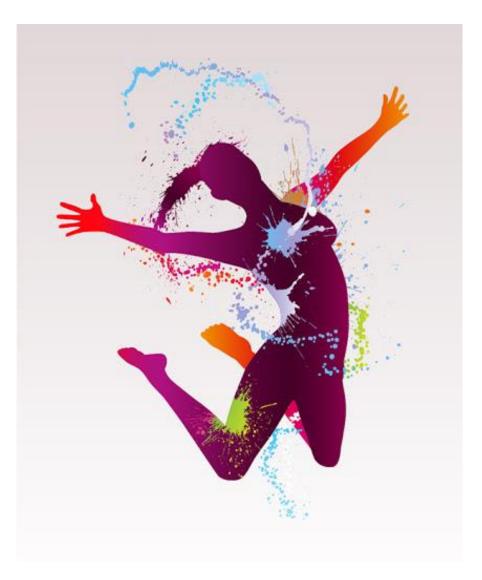
Injuries, fatalities, Asthma, cardiovascular disease mental health impacts Air Severe Malaria, dengue, Pollution Weather Heat-related illness encephalitis, hantavirus, and death, **Rift Valley fever,** ASINGATURES cardiovascular failure Changes Lyme disease, in Vector chikungunya, Extreme Ecology West Nile virus Heat Increasing Environ-Allergens Respiratory mental Forced migration, Degradation allergies, asthma civil conflict, mental health impacts Water and Food Water Supply Impacts **Quality Impacts**

Malnutrition, diarrheal disease Cholera, cryptosporidiosis, campylobacter, leptospirosis, harmful algal blooms

Ecosystem

Any system or network of interconnecting and interacting parts

What does the term 'Ecosystem of human body' mean to you?





Ecosystem of Human Body

What does the term 'Ecosystem of human body' mean to you?



Balance = Homeostasis

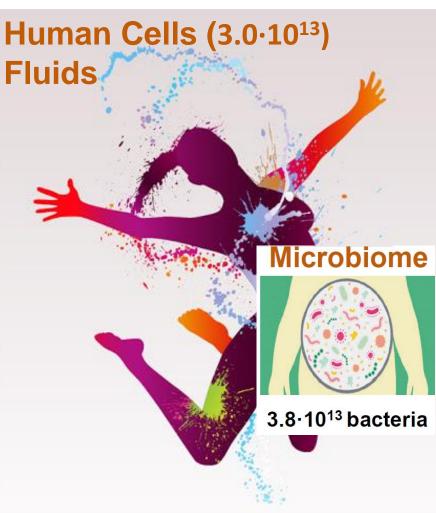


Interactions









Balance = Homeostasis



Everyday Choices to Keep Balance





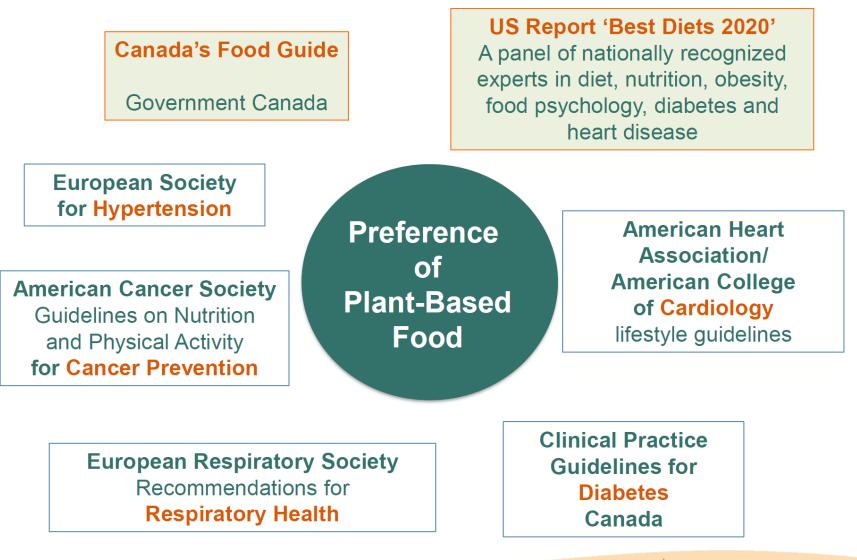




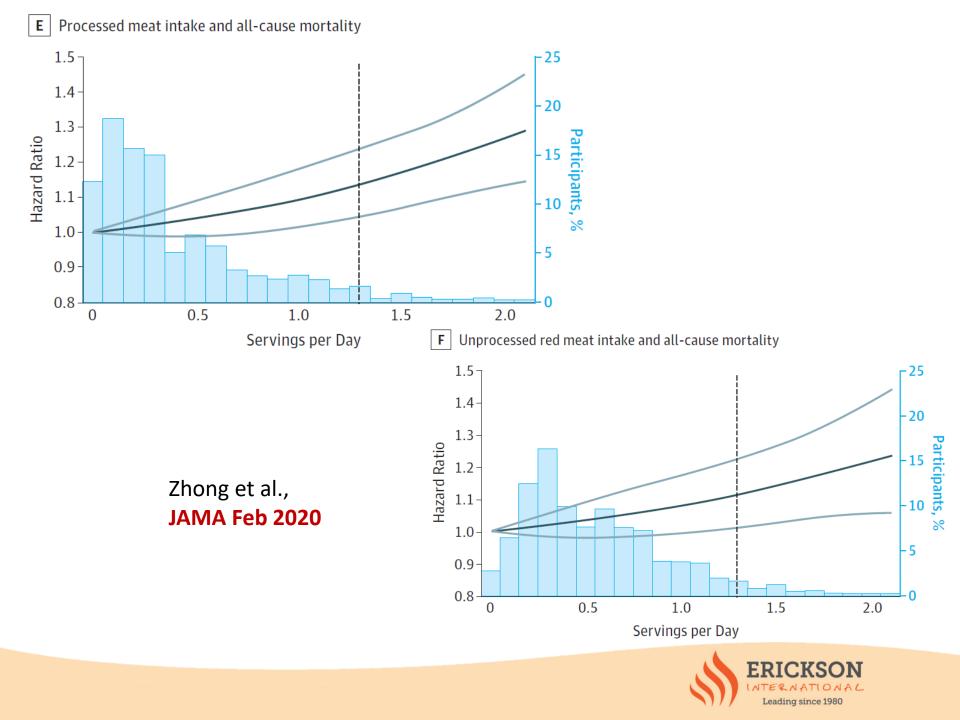
Balance = Homeostasis

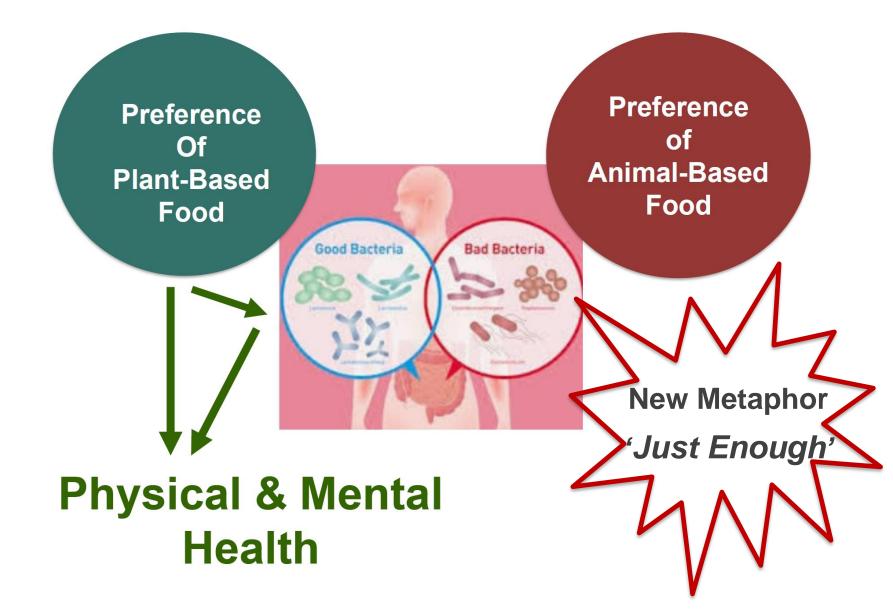


Food Choices for Individual Health







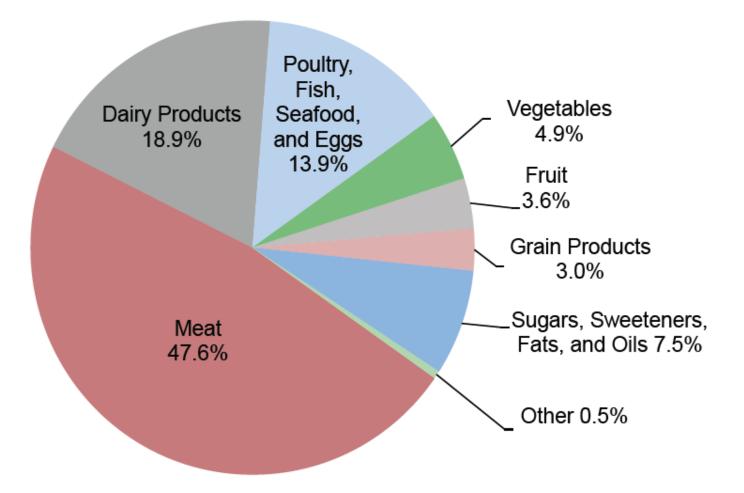




Food, Transportation & the Ecosystem of the Earth

What Is the Link?

Carbon Footprint of Food



Center for Sustainable Systems, University of Michigan. 2018. "Carbon Footprint Factsheet." Pub. No. CSS09-05.

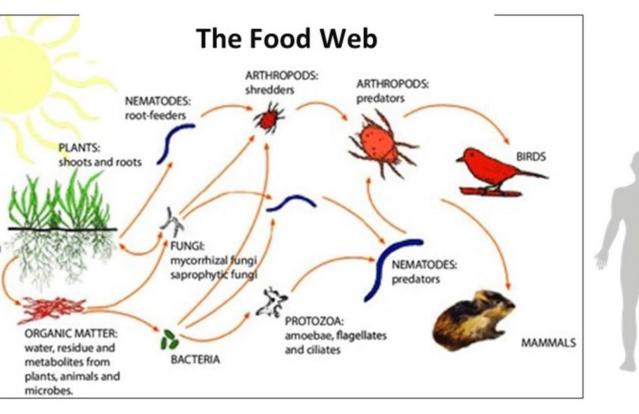


The Mineral Cycle of Life-Sustaining Nutrients

Christopher Cooke

- The movement of minerals or nutrients including carbon, nitrogen and other essential nutrients.
- Affects all forms of life (micro-organisms, plants, animals, and humans).





Humans Require over 90 essential nutrients

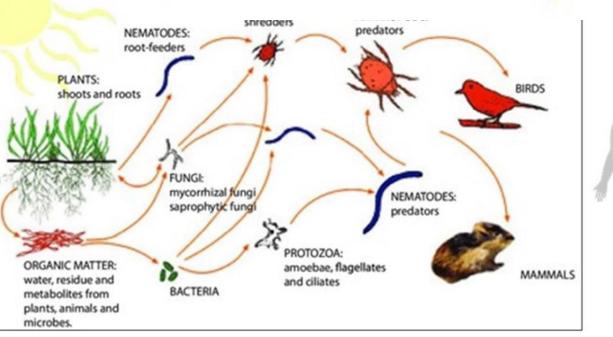
- 90 Essential
- Nutrients
- 60 Minerals
- 2-3 Essential Fatty Acids
- 16 Vitamins
- 12 Amino Acids

http://www.youngevity.com/inde x.cfm/90-forlife/#sthash.9pPd1Gcb.dpuf

The Mineral Cycle of Life-Sustaining Nutrients

- The movement of minerals or nutrients including carbon, nitrogen and other essential nutrients.
- Affects all forms of life (micro-organisms, plants, animals, a

One Ecosystem



Humans Require over 90 essential nutrients

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http://www.youngevity.com/inde x.cfm/90-forlife/#sthash.9pPd1Gcb.dpuf

What is Ecological Nutrition?







Nature, 2018

Options for keeping the food system within environmental limits

Marco Springmann^{1,2*}, Michael Clark³, Daniel Mason-D'Croz^{4,5}, Keith Wiebe⁴, Benjamin Leon Bodirsky⁶, Luis Lassaletta⁷,

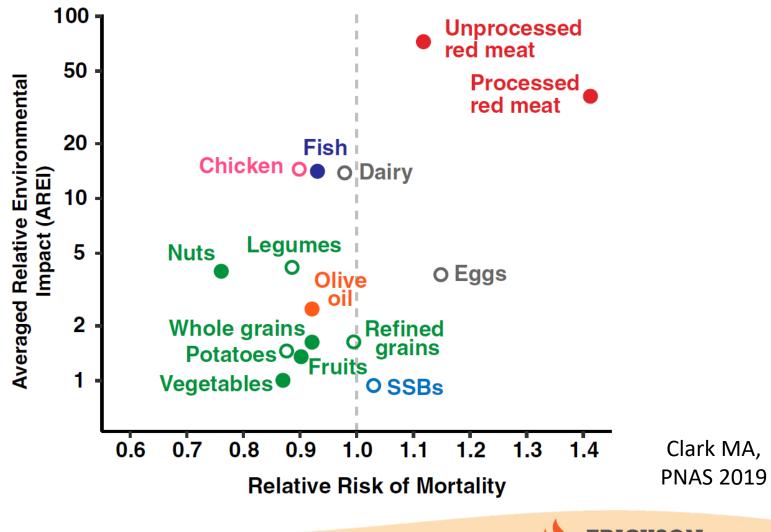
Lancet, 2019

Food in the Anthropocene: the EAT-*Lancet* Commission on healthy diets from sustainable food systems

Walter Willett, Johan Rockström, Brent Loken, Marco Springmann, Tim Lang, Sonja Vermeulen, Tara Garnett, David Tilman, Fabrice DeClerck, Amanda

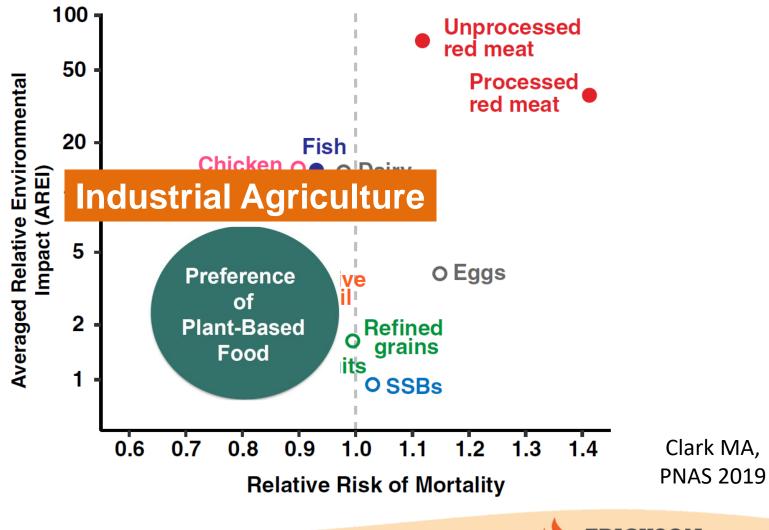


Multiple health and environmental impacts of foods





Multiple health and environmental impacts of foods



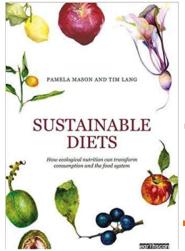


Ecological Nutrition

Reviews

Future of Food: Journal on Food, Agriculture and Society, 6 (1)





Sustainable diets: How ecological nutrition can transform consumption and the food system

A review by Jessica Lucinda Amprako

2017

Industrial Agriculture

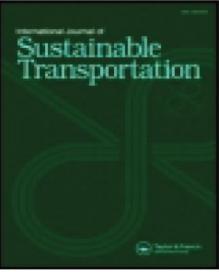
Ecological Agriculture



The 2019 report of The *Lancet* Countdown on health and climate change: ensuring that the health of a child born today is not defined by a changing climate

Active Transportation = Sustainable Transportation

the health benefits of increasing uptake of active forms of travel (walking and cycling) have been shown through a large number of epidemiological and modelling analyses.





What Are the Solutions?

One Ecosystem

Agreements on:

Problems

Solutions

Implementation



ENERGY



FOOD



Fossil fuels

Transportation

Electricity Generation Materials

Food

Ecological Food Choices Reduction of Food Waste Land Use United Nations & Climate Action

POPULATION



Population growth

Women and Girls



ENERGY



FOOD



Fossil fuels

Transportation

Electricity Generation Materials

Sustainable Transportation

Food

Ecological Food Choices Reduction of Food Waste Land Use

Ecological Nutrition

POPULATION



Population growth

Women and Girls

Reproductive Behavior



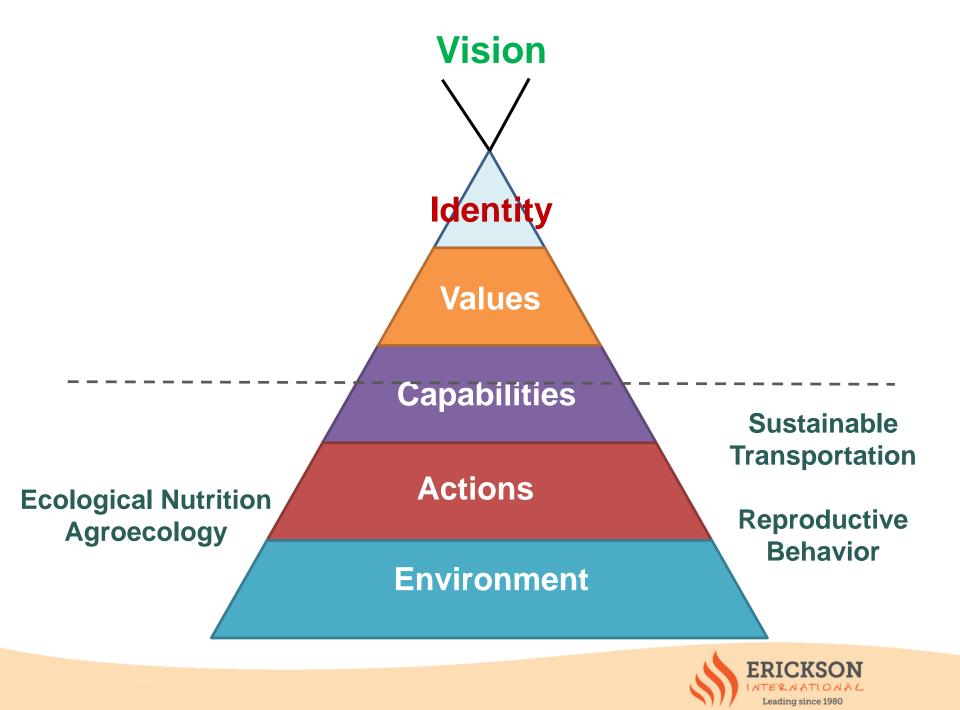
We may have agreements on:

Problems

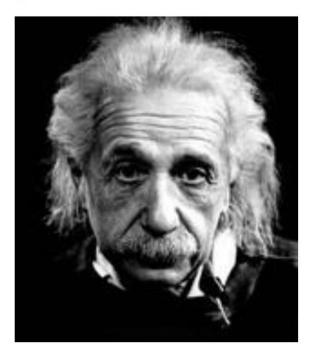
Solutions

How do we agree on implementation? What is the challenge?



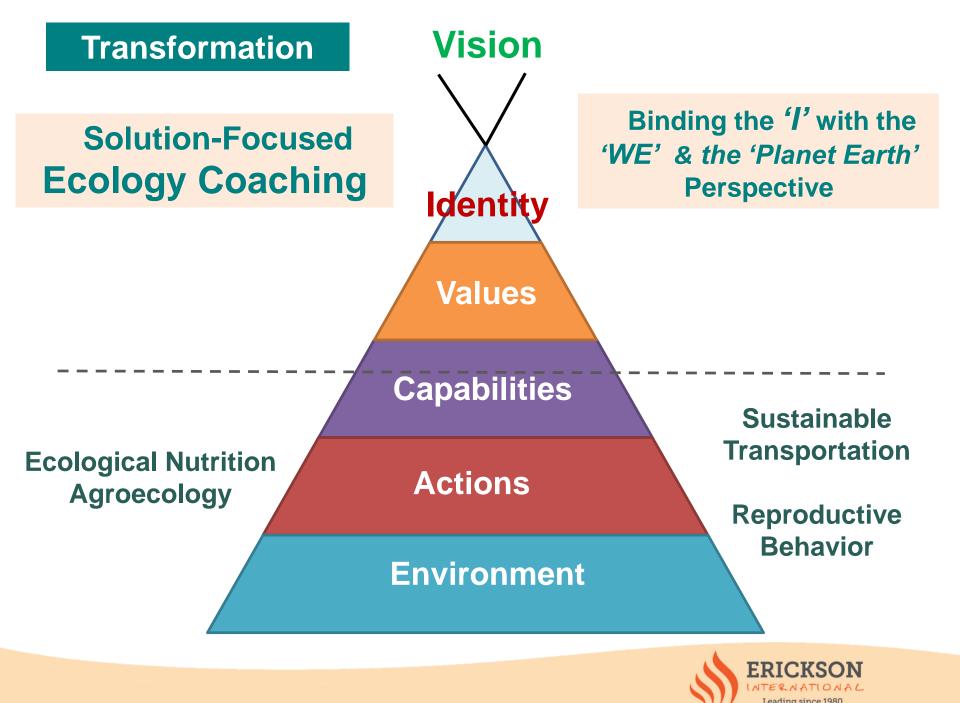


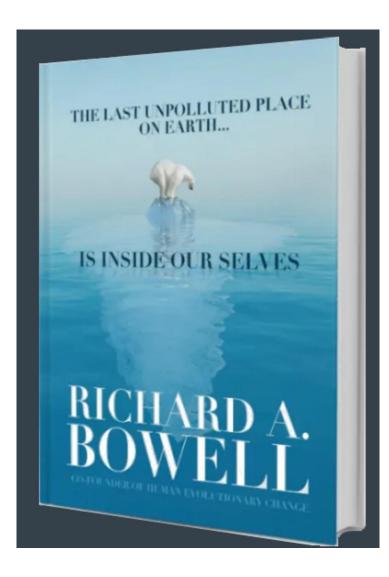
"A human being is a part of the whole called by us universe, a part limited in time and space.



Our task must be to free ourselves by widening our circle of compassion to embrace all living creatures and the whole of nature in its beauty."







'The transformation work needs to be available to as many people as possible.

It is a human race issue.'



Which action steps may you consider for yourself towards ecological nutrition ecological transportation?

What and whom can you impact in your personal life?

What and whom can you impact as a coach and/or as a leader?





Value





