The Cost of Food

Consequences of not valuing soil and water and the people who manage them

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Farming for Ever, Bălţi, November 2019





First

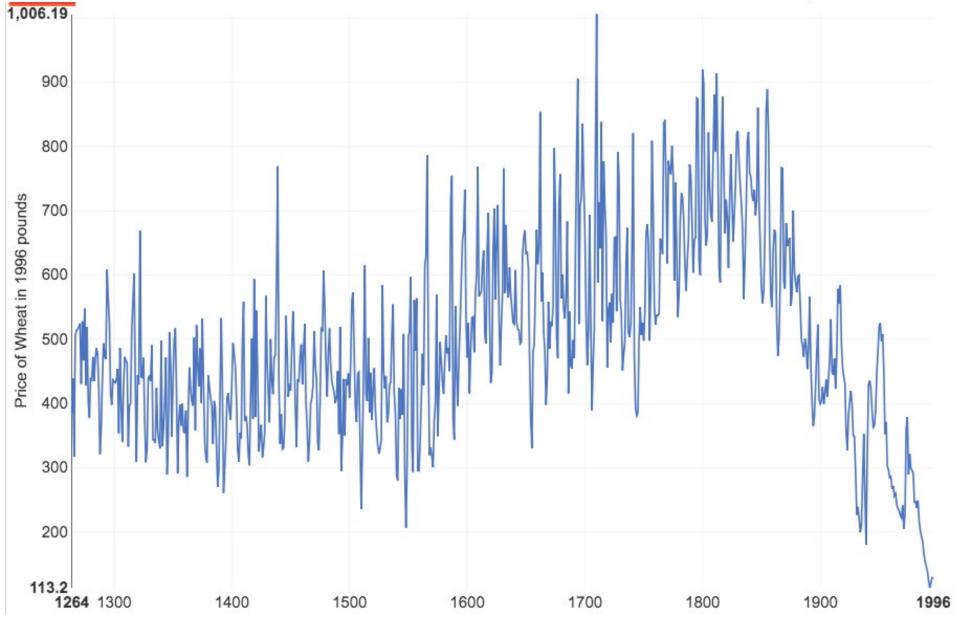
The food system is a political economy, not an economy.

- 1 Historical context on international food prices
- 2 Disharmony: how we produce food
- 3 Power relations in the food system



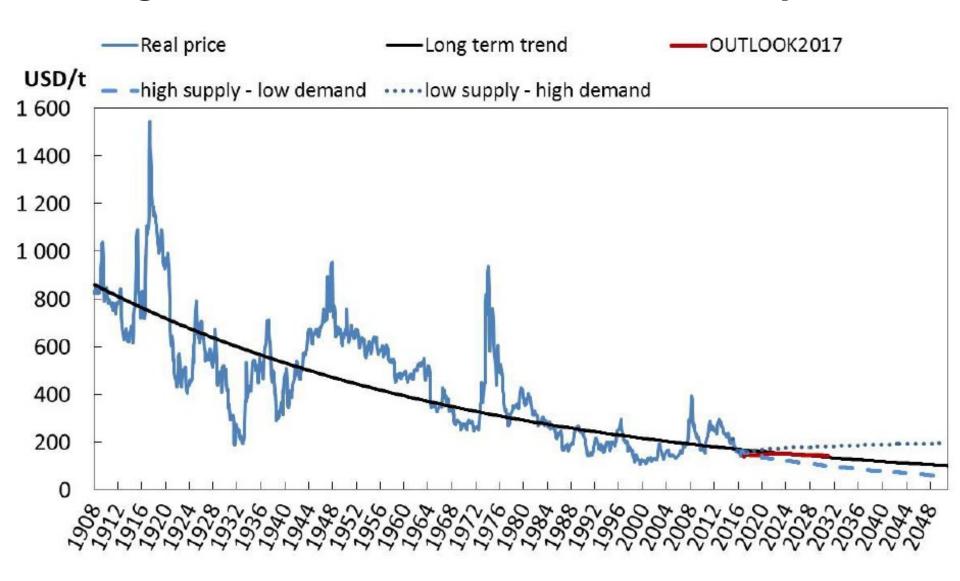


Wheat prices in constant 1996 pounds, 1264-1998



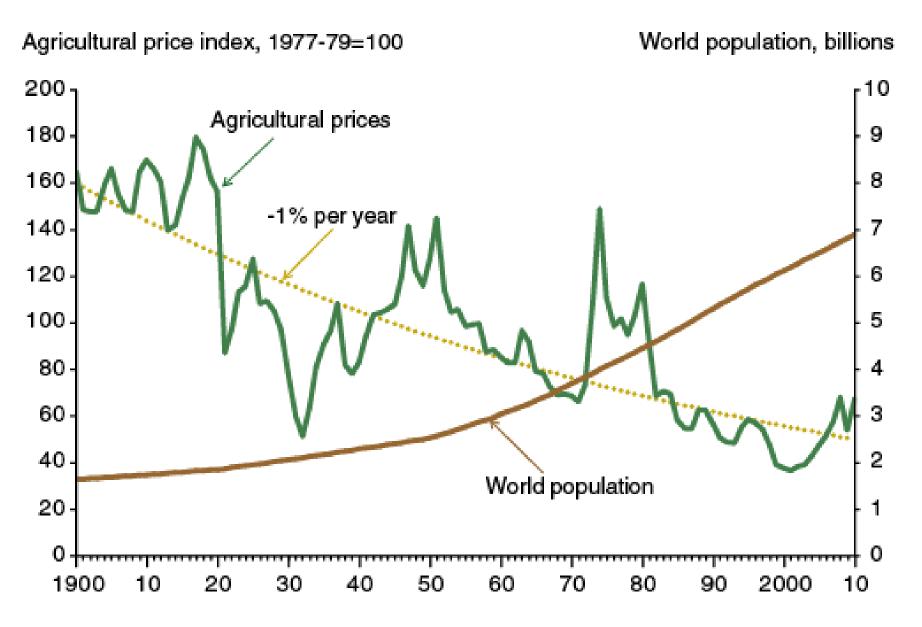
Source: Max Rosner. Data from Makridakis, Wheelwright and Hyndman, 1997 https://ourworldindata.org/food-prices/

Long term trends of international food prices



Source: Brooks, 2017 Who said "things could change".

Agricultural commodity prices & population trends, 1900-2010



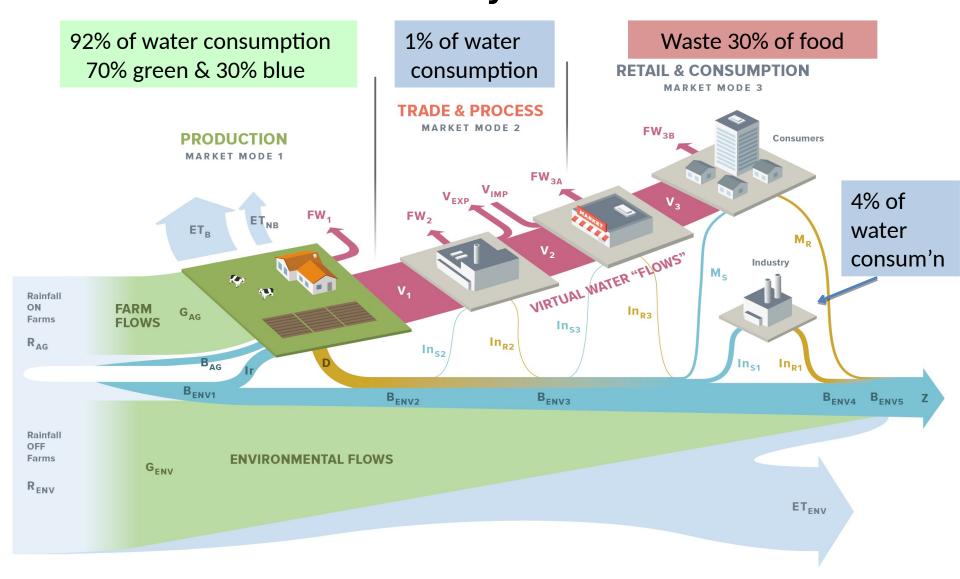
Source: USDA Economic Research Service based on Fuglie and Ball, 2012

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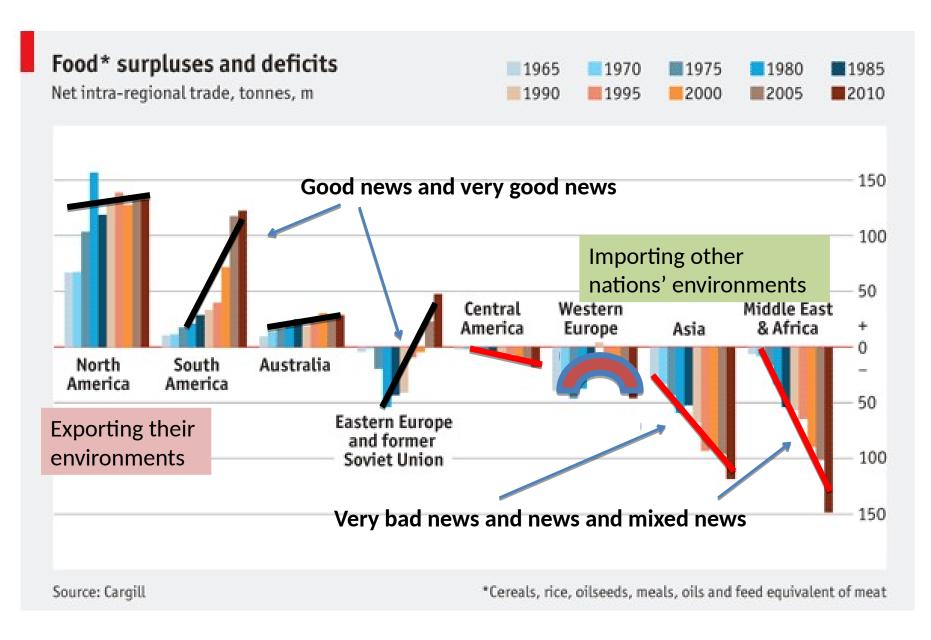




Water and virtual water resources in the food system



Source: Bromwich et al, 2019, Food, water and society



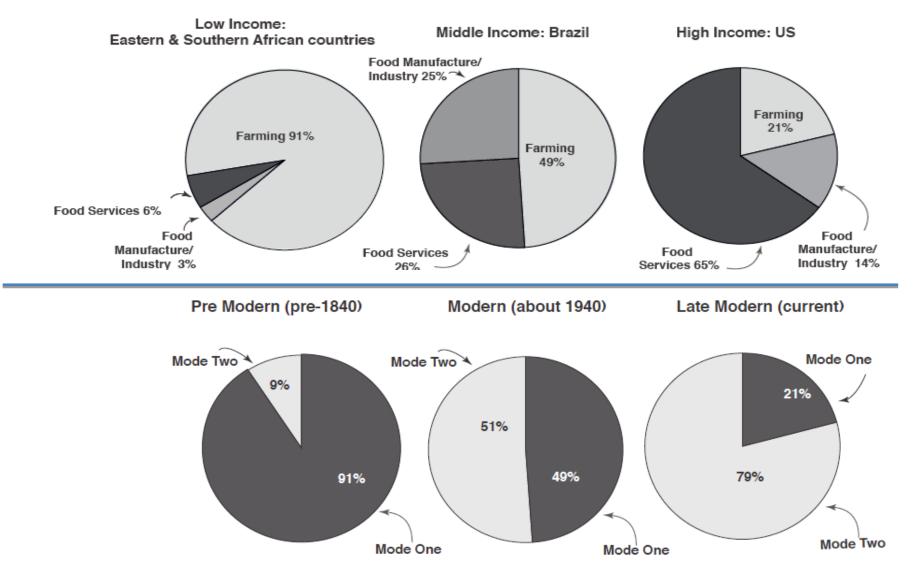
First

- 1 Some historical context on international food prices
- 2 Types of water and embedded water and trade
- 3 Power relations in the food system: changing food supply chains



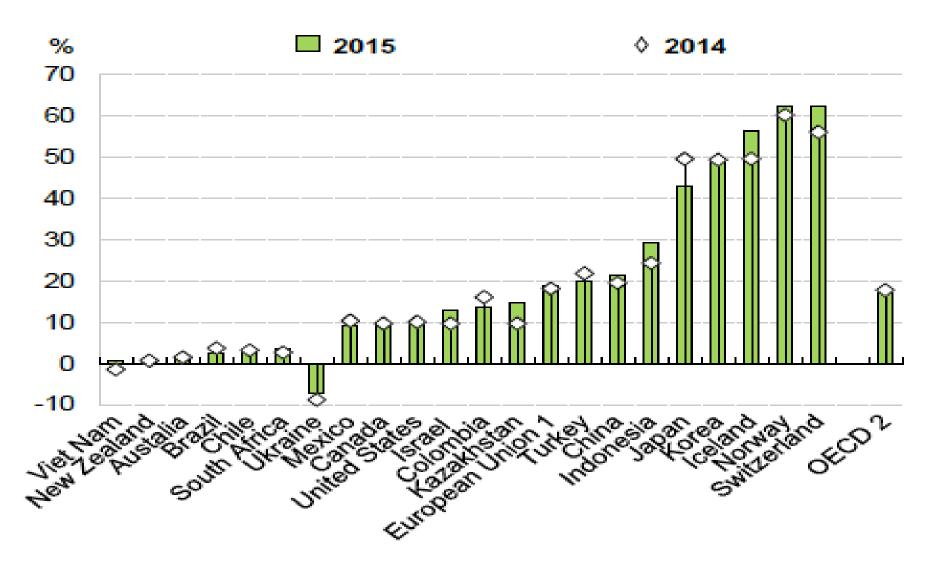


Food system jobs NOW in low-, middle-, and high-income countries AND with modernity



Source: Allan and others 2019, Food, water and society

Producer support estimate, 2014 and 2015 - percentage of gross farm receipts



Source: Eurostat 2016

Shifting producer-support, 1995-2015 - percentage of gross farm receipts

Grand Total 9 emerging economies OECD % 40 35 30 25 20 15 10 5 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2015

Source: Eurostat 2016

Who has power in the food system?

Farmers

Operators of water infrastructure

Big-Ag Seed, Fertilizer, Chemical Corporates
Big-Food-Commodity Traders
Big Food & Beverage Corporates
Big Supermarkets
The Other Major Food Distributors
Investors?

The State including law & regulation

Accountants & Reporting Rules
Food and Water NGOs
Multi- and Bi-Lateral Aid Agencies

Consumers

Society by adopting sound behaviour

Who could secure water and food for Society?

Farmers

Operators of water infrastructures
The Big-Ag Seed, Fertilizer, Chemical Corporates
The Big-Food-Commodity Traders
The Big Food & Beverage Corporates
The Big Supermarkets
The Other Major Food Distributors

Investors ?/Sustainable investment

The State including law & regulation

Accountants & sound Accounting & Reporting Rules

The Food and Water NGOs – Local & International The Multi- and Bi-Lateral Aid Agencies

Consumers (Voluntary regulators?)
Society by adopting sound behaviour

The food system and the political economy of the food system are:

- 1 Very old
- 2 Has to deliver under priced food
- 3 Is always very emotional
- 4 Easily politicised
- 5 Very much misunderstood and broken

The food system is misunderstood and broken because the political imperative is to deliver under-priced food to under paid people. The way it operates had to be camouflaged.



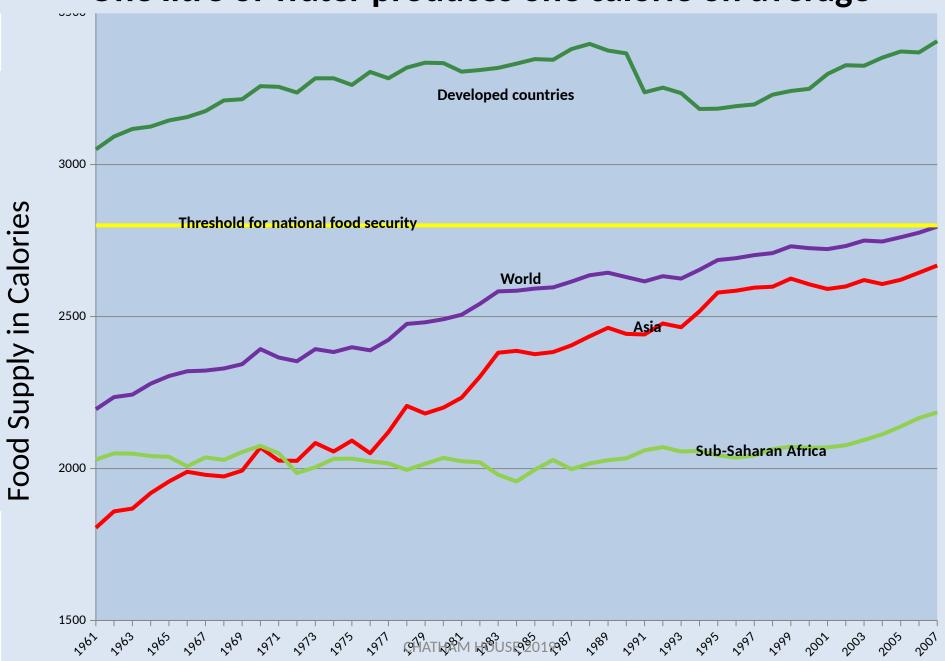




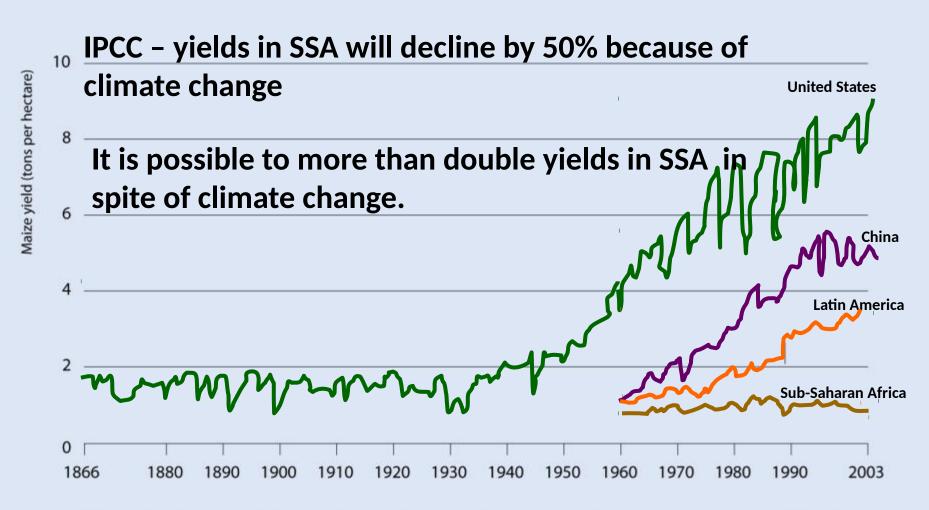
Will there be enough water?

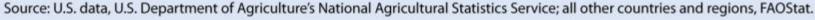


One litre of water produces one calorie on average



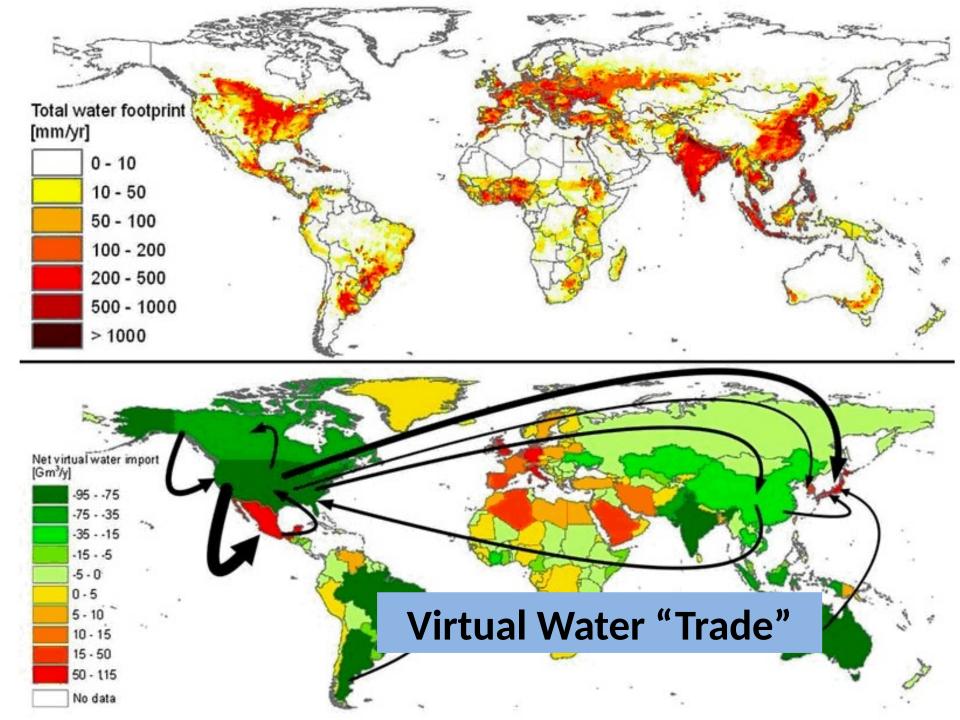
Growth in Yields











Green Water flows in Kenya

