



Current reality: food paradoxes

- Inefficient food system Obesity X Hungry People
- Food production chain High environmental impact
- Food waste Production, distribution and consumption inefficiency









2.1 billion Overwheight/obese

VS.

750 million malnourished

1 in 12 adults has diabetes

International Diabetes Federation. Diabetes Atlas. 2014

30% of the world population is overweight/obese

WHO, 2013

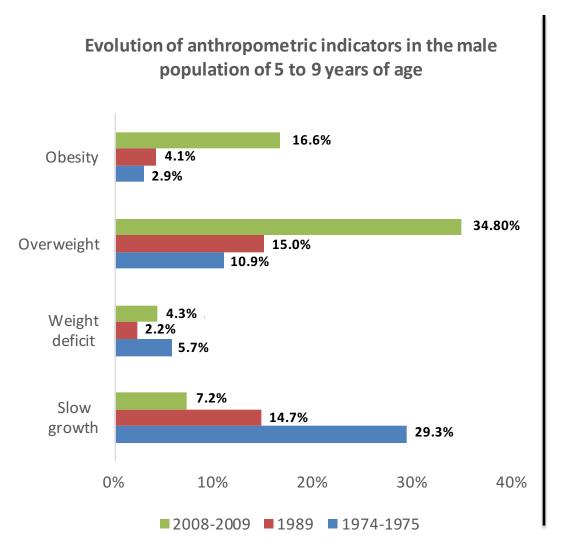
BRAZIL:

- 56.9% is overweight
- 20.8% is obese
- ♦ 6.2% has diabetes 90% has type 2 diabetes

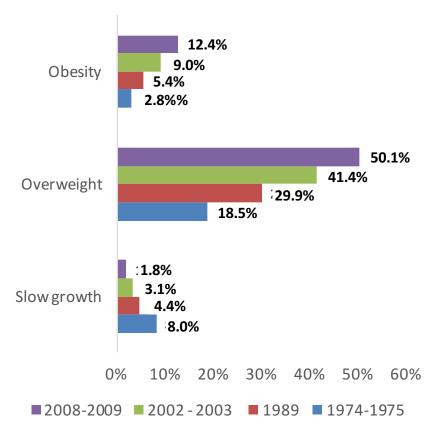
Brasil. Ministério da Saúde. Pesquisa Nacional de Saúde, 2014.



Nutritional transition of the Brazilian population









Inefficient food production chain

1.3 billion tons of food are wasted every year



4 times the necessary to feed almost **800 millons** of malnourished people

Today



2030



Conscious Consuption: we have no choice!



"Nurture people, animals or machines?"

BRAZIL

- Grain production: 202 million tons
- Soy + corn = 80% of local grain production

Brasil. Ministério da Agricultura ref. Safra de 2013/14



Brasil. Ministério da Agricultura ref. Safra de 2013/14

- **WORLD MAJOR** pesticides consumer
- 1 million ton = average consumption of 5.2 kg per person of poison

INCA. Instituto Nacional de Câncer José Alencar Gomes da Silva, 2015









"Nurture people, animals or machines?"

We are 7 billion humans, but we raise and slaughter more than 70 billion land animals on the planet every year for consuption

Global bovine herd: 1 billion heads

USDA, 2014

BRAZIL:

208 million heads = **20%** of global herd

Brasil. IBGE. Estatística da Produção Pecuária, 2015

World's major exporter

Brasil. Ministério da Agricultura, 2014.

World's second largest meat producer

Brasil. Ministério da Agricultura, 2014.





Brasil. IBGE. Estatística da Produção Pecuária, 2015







"Is it efficient?"

Intensive Animal Farming 1 kcal animal = 10 kcal vegetable

Cattle breeding → 1 kcal animal = 30 kcal vegetable





210kg of meat



Takes 4 hectares of land



Time: 4 to 5 years



34 tons of corn



32 tons of soy



23 tons of weath



8 tons of beans





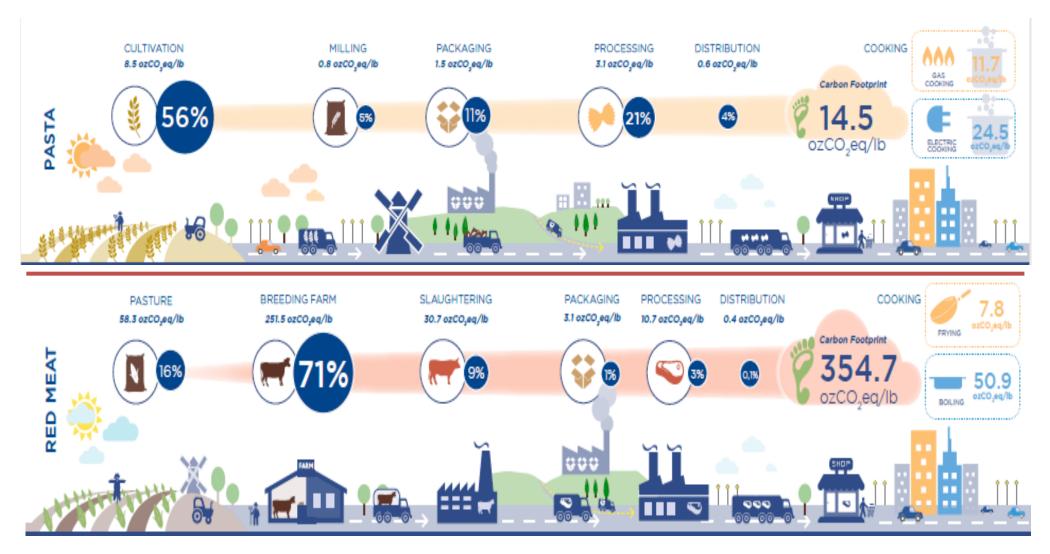
The crop-livestock sector is responsible for 90% of global water consumption — 1/3 is used for animal food production

To produce 1kg of meat 10 to 20 thousand liters of water: 20 times more than to produce 1kg of vegetable based food.





Production chain: greenhouse gases





2014 BRAZILIAN FOOD GUIDE



Recommendations on diet should consider the impact of production forms and distribution of food on social justice and environmental integrity

PLANT BASED FOOD is the base for a nutritious, balanced, tasty and culturally appropriate diet, promoting a socially and environmentally healthy food system.



Pasta = grain + water

- High sustainability index
- Low environmental impact production chain = from the farm to the table
- Simple production, easy to transport and to store during the whole year
- Energetic base for the mediterranean diet
- Protein content:
 - √ 100g of wholewheat pasta = 12.5g of protein = 16% VCT per portion.
 - ✓ 100g of traditional pasta = 11g of protein = 14% do VCT per portion



Pasta = sustainable food

Wholewheat pasta + olive oil + vegetables + nuts and/or legumes make a healthy and balanced dish:







- Simple
- Healthy
- Nutritionally balanced

- Low environmental impact
 - Culturally acceptable

- Low cost
- Economically fair



Alessandra Luglio, Nutritionist

- Nutritionist with over 15 years of experience in the clinical area.
- Graduated from the University of São Paulo in 1996.
- Expert in vegetarian diet and vegetarian healthy recipes, and also an expert in sustainable diets.
- Responsible for the organization of sports and nutrition events, conferences and exhibitions, and she also teaches extension classes in sports nutrition and functional food.
- Consultant and technical expert responsible for important food brands and supplements for health and sport.
- Serves as the Food and Nutrition ambassador in Brazil for the Barilla Center for Food & Nutrition Foundation (BCFN).







