

FOOD, PEOPLE AND PLANET





Roberto Ciati – Board BCFN Foundation April 8, 2017



THE BURNING ISSUES FOR OUR PLANET

• CLIMATE CHANGE

- 8-20% reduction in cultivated surface area by 2050
- 5-25% reduction in production level by 2050
- Environmental impact of agricultural production on the atmosphere

AGRICULTURAL PRODUCTIVITY

- Productivity growth slowed
- Farm land mostly used for livestock and animal feed production
- Loss of biodiversity
- Human capital
- FOOD LOSS AND WASTE
- Food losses at the cultivation level and lack of infrastructures
- Food waste at consumer level



POPULATION GROWTH

7.3 billion in 2016

9.7 billion in 2050

Migration flows

WATER MANAGEMENT

- less water/more needs
- 70% of the world water consumption
 linked with agriculture

URBANIZATION

Total population in urban areas (%) in 2030:

- Africa: 55%
- Asia: 66%
- South America: 74 %

• EATING BEHAVIOURS, QUALITY AND LIFE EXPECTANCY

- Malnutrition: Hunger vs Obesity
- Low levels of physical activity
- Growth of life expectancy
- Diets' impact on health: sugar, fats etc..
- Food policies

The BCFN Vision and Mission

Vision

Enable people to make informed choices about food and nutrition.

Mission

The BCFN is an **independent multidisciplinary center** which aims to provide multiple outputs and contributions with high scientific contents and become over time a valuable tool for **Institutions**, the **Scientific Community**, **Media** and for **People**.

A privileged **meeting point** for anyone interested in food, the environment, sustainable growth and their implications on people's and society's life, at a national and international level.

GOVERNANCE

Board of Directors



Guido Barilla Chairman



Paolo Barilla Vice Chairman



Paolo De Castro Coordinator S&D Committee on Agriculture and Rural Development, European Parliament



Alberto Grando Pro-Rector for Development Bocconi University



Carlo Petrini Chairman and Founder Slow Food

GOVERNANCE

Advisory Board



Gabriele Riccardi Professor of Endocrinology and Metabolic Pathologies at the Università degli Studi of Naples "Federico II"

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Livia Pomodoro President Milan Center for Food Law & Policy



Ellen Gustafson Founder and Executive Director of the 30 Project; Co-Founder of FEED Projects and the FEED Foundation



Riccardo Valentini Member of the Intergovernmental Panel on Climate Change - IPCC, Nobel Prize for Peace 2007



Camillo Ricordi Surgeon and Scientific Director and Chief Academic Officer of the Diabetes Research Institute at the University of Miami



Stefano Zamagni Professor of Economics John Hopkins University and Member Pontificial Academy of Social Sciences



Danielle Nierenberg Expert on sustainable agriculture and the cofounder of Food Tank: The Food Think Tank

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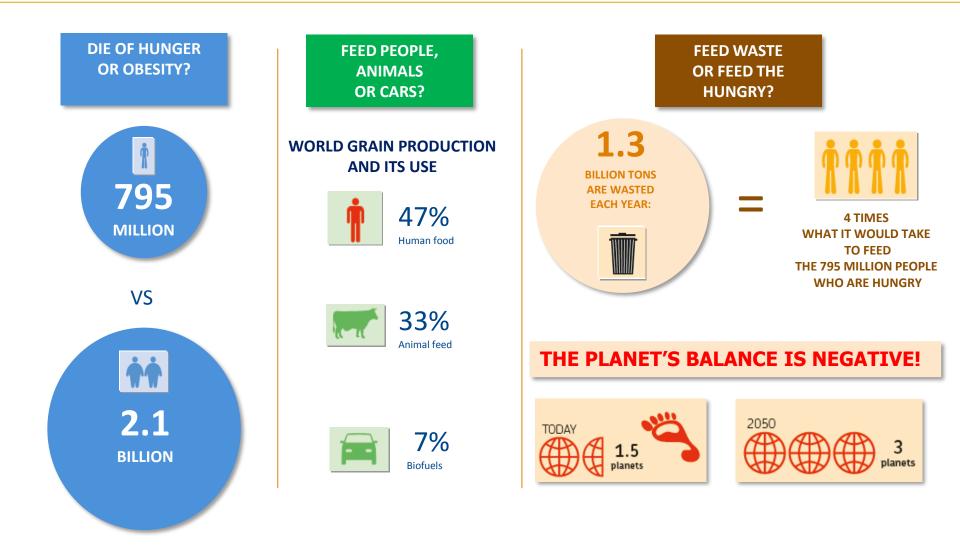
Barbara Buchner

Executive Director,

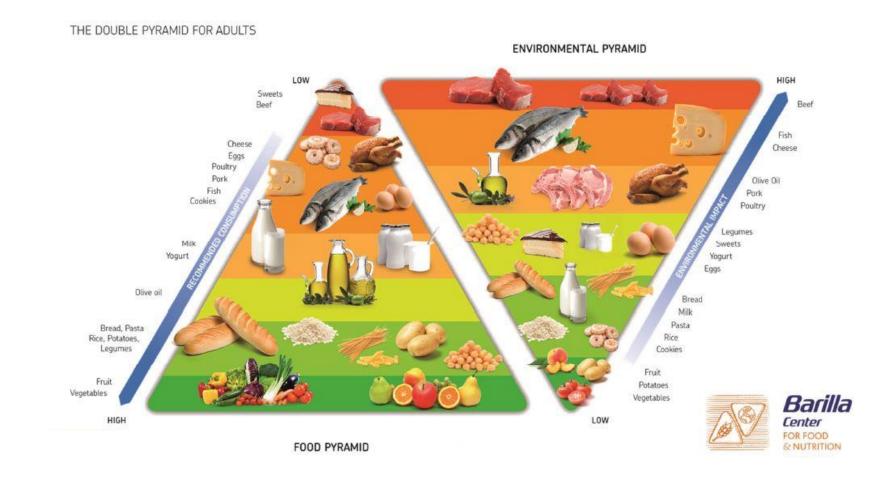
Climate Policy Initiative

Climate Finance -

THE GLOBAL PARADOXES ON FOOD AND NUTRITION



THE BCFN FLAGSHIP CONCEPT



GOOD FOR YOU, GOOD FOR THE PLANET

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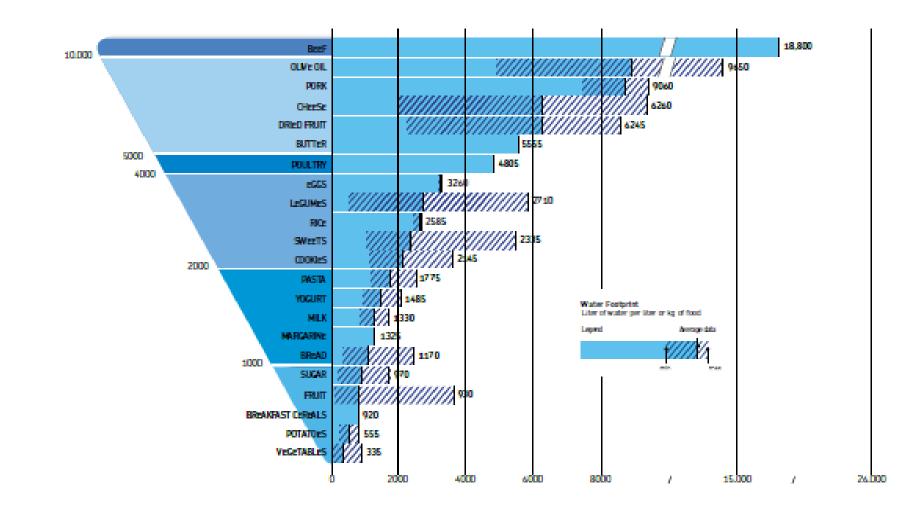
THE BCFN FLAGSHIP CONCEPT: Food Pyramid







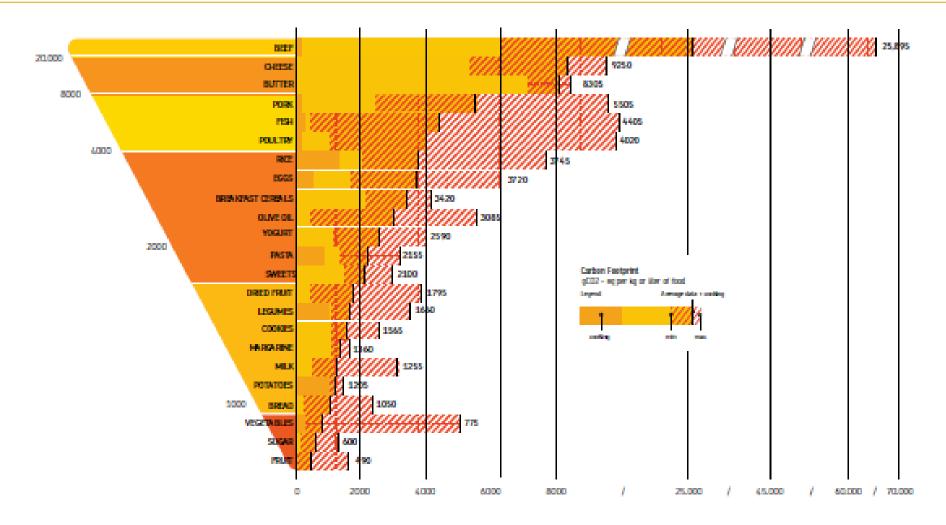
THE BCFN FLAGSHIP CONCEPT: Water Footprint





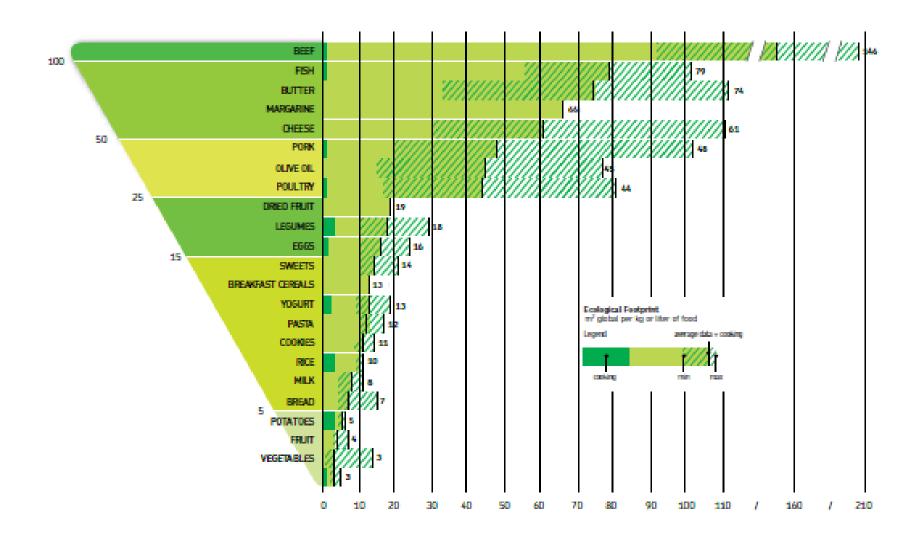
GBCFN FOUNDATION 2016

THE BCFN FLAGSHIP CONCEPT: Carbon Footprint



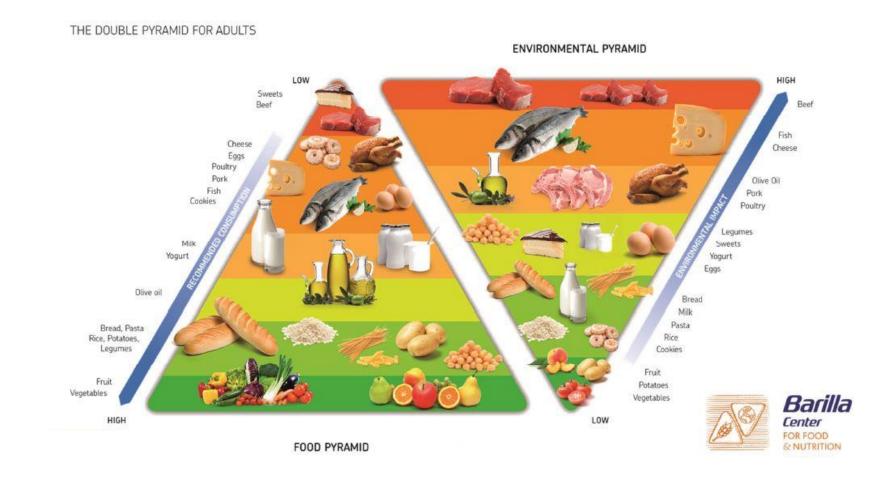
@BCFN FOUNDATION 2016

THE BCFN FLAGSHIP CONCEPT: Ecological Footprint



GBCFN FOUNDATION 2016

THE BCFN FLAGSHIP CONCEPT



GOOD FOR YOU, GOOD FOR THE PLANET

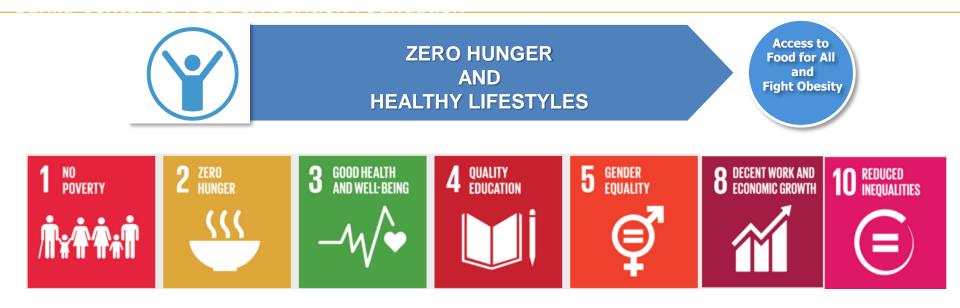
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THE PATHWAY TOWARDS THE SUSTAINABLE DEVELOPMENT GOALS

The BCFN aims to support the achievement of the Sustainable Development Goals through **research**, **dissemination** and **public engagement** in Food, Nutrition and Sustainability, with a multidisciplinary approach.



THE FOOD SYSTEM AND THE SDGs





THE FOOD SYSTEM AND THE SDGs





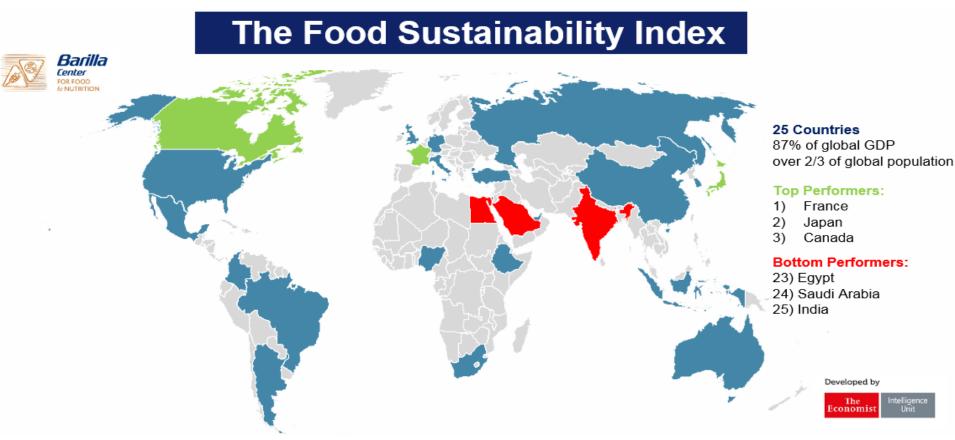
THE FOOD SYSTEM AND THE SDGs





2009-2016: OUR COMMITMENT





The **Food Sustainability Index** is a tool aiming at highlighting policies and best practices on a global scale related to food paradoxes and the main SDGs on food, climate change, sustainable cities, responsible production and consuMption, health, gender equality, education and infrastructures.

www.foodsustainability.eiu.com

THE FOOD SUSTAINABILITY INDEX

The rationale

BCFN's continuous effort to prompt the engagement of civil society, policy makers, and businesses on the foodrelated challenges that the world is now facing.

Objectives

The FSI investigates the extent to which food sustainability is realised in 25 countries from different regions in the world, by analysing their performance vis-à-vis three main challenges with which the global food system is currently confronted:

- Promoting sustainable agricultural practices (Sustainable Agriculture);
- Ensuring healthy nutrition and lifestyles (Nutrition Challenges);
- Reducing food waste and losses (Food Loss and Waste).

The FSI's aims are threefold:

- to highlight the performance of countries in the three areas identified, through the use of qualitative and quantitative key performance indicators (KPIs) in the economic, social and environmental domain;
- to offer examples of best practices at the national and city levels through focus on specific case studies and a "city monitor" tracking the performance and progress of 16 municipalities in the world;
- > to measure progress over time by updating of the FSI periodically.

THE FOOD SUSTAINABILITY INDEX

FOOD LOSS AND WASTE	SUSTAINABLE AGRICULTURE	NUTRITIONAL CHALLENGES
Food loss 🕂	Water resources 🗕 🕂	Life quality 🕂
End-user waste 🗕 🕂	Land (land use, biodiversity, human capital)	Life expectancy 🕂
	Air (GHG emissions)	Dietary Patterns 🕂

0-33

33-67

67+

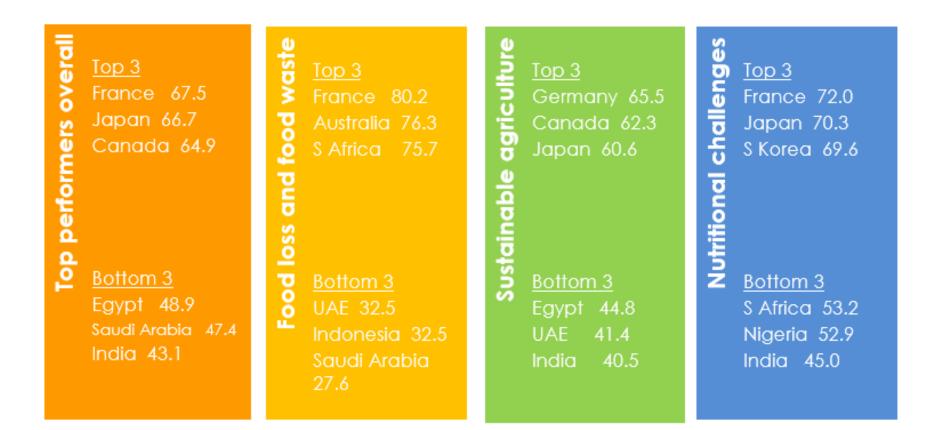
THE FOOD SUSTAINABILITY INDEX

Argentina			
Australia			
Brazil			
Canada			
China			
Colombia			
Egypt			
Ethiopia			

FOOD LOSS AND WASTE		SUSTAINABLE AGRICULTURE		NUTRITIONAL CHALLENGES	
Food loss	-	Water resources	-	Life quality	-
Food loss	72.64	Environmental impact of agriculture on water	46.04	Prevalence of under- and malnourishment	97.22
Policy response to food loss	100.00	Sustainability of water withdrawal	51.44	Micronutrient deficiency	86.14
Causes of distribution-level loss	100.00	Water scarcity	95.00	Ecological efficiency of supporting people's well-being	46.50
Solutions to distribution-level loss	84.63	Water management	100.00	Healthcare expenditure and costs	90.79
End-user waste	+	Land (land use, biodiversity, human capital)	+	Life expectancy	+
		Air (GHG emissions)	+	Dietary Patterns	+

Colo Eth France Germany India Indonesia Israel Italy Japan Mexico Nigeria Russia Saudi Arabia South Africa South Korea Turkey United Arab Emirates United Kingdom United States of America

Top and bottom: Overall and across the three pillars



FOOD SUSTAINABILITY MEDIA AWARD





Media play a key role in promoting food sustainability

The Food Sustainability Media Award

is a Global media contest to award outstanding and under-reported news, photographs and videos related to food, nutrition and sustainability

www.goodfoodmediaaward.com



THE BCFNYES! CONTEST AND THE BCFN ALUMNI



NEWS & EVENTS denone ISIA | March 18 RomeMUN | March 23 University of Florence - MSc Nutrition Sciences | March 31 ISIA Pescara - EXPO in tour

THE BCFN ALUMNI ARE 100 YOUNG PASSIONATE RESEARCHERS FROM ALL OVER THE WORLD PARTICIPATING IN THE BCFNYES! CONTEST YOUNG RESEARCHERS ARE INVITED TO PRESENT THEIR RESEARCH IDEAS ON THE THREE BCFN PARADOXES BY SUBMITTING PROJECTS ENABLING . HEALTHY LIFESTYLES SUSTAINABLE AGRICULTURE . THE END OF FOOD WASTE

www.bcfnyes.com

SAVE THE DATE





8TH INTERNATIONAL FORUM ON FOOD & NUTRITION MILAN, DECEMBER 4-5 2017

www.barillacfn.com/en/forum