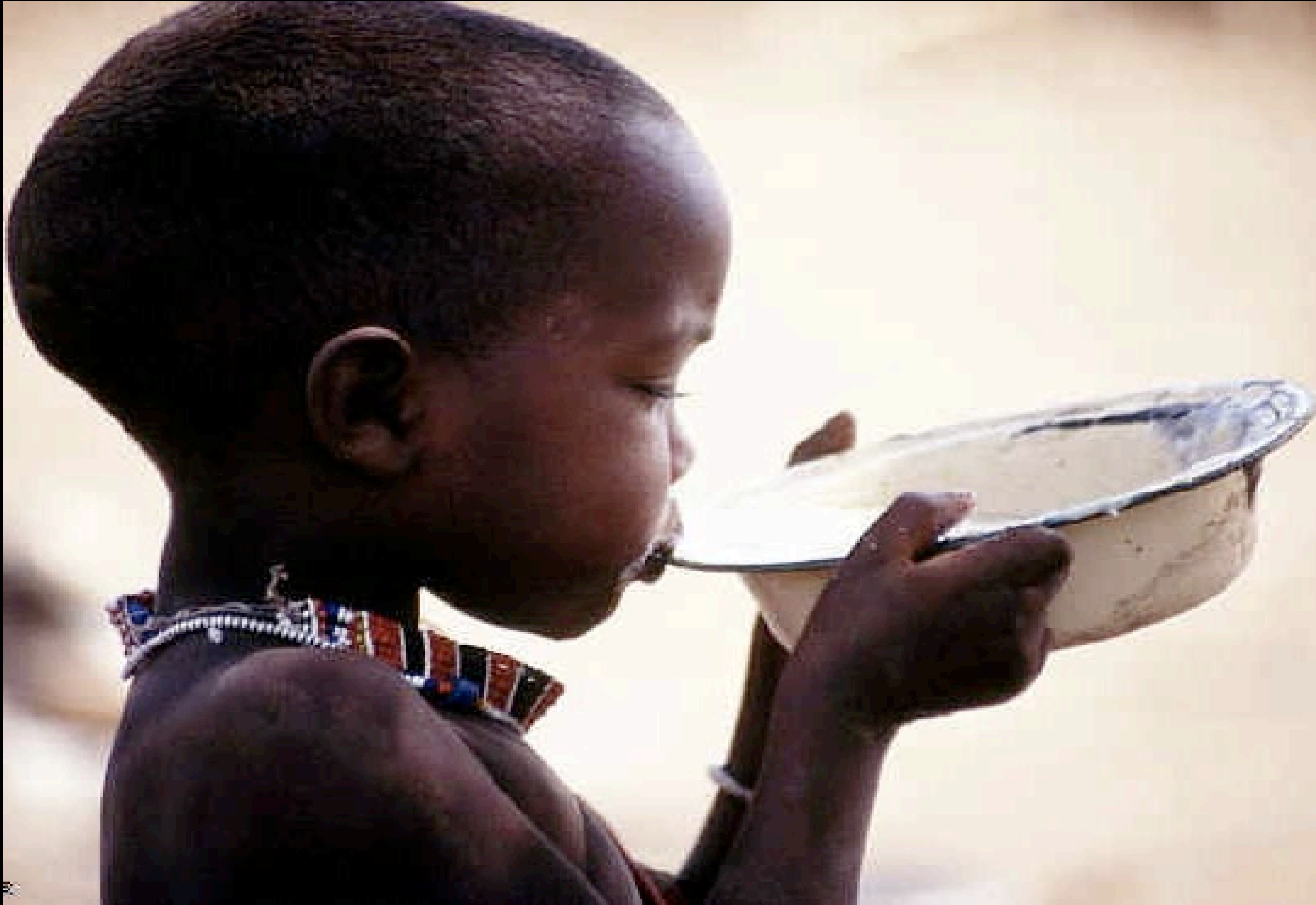


SO WE ALL MAY EAT:



REFLECTIONS ON A FOOD + NUTRITION PARADIGM FOR THE 21ST CENTURY

22nd Annual
Martin J. Forman
Memorial Lecture
December 4, 2012

JOSETTE SHEERAN

WE KNOW ABOUT ONE KIND OF CLIFF.....



THE FOOD CLIFF



GLOBAL FOOD PRODUCTION MUST INCREASE
70% BY 2050 TO MEET OUR NEEDS.



Annual Cereal production must rise by **42%**.

LAUNCH
FULL

infographic >

Over the next 40
years, we need to
produce more food
than the last 8,000
years combined.

WHAT IS OUR TARGET?

“Food and nutrition security exists when all people at all times have physical, social and economic access to food, which is consumed in sufficient quantity and quality to meet their dietary needs and food preferences, and is supported by an environment of adequate sanitation, health services and care, allowing for a living healthy and active life.”

***Committee on World Food Security**



ARE WE
ON
TRACK?

There is more than enough food today



The edible crop harvest in the world is more than 4600 kcal per every person per day. Even after loss, waste, and food use as fodder there is more than 2700 kcal per day per person.

YET:













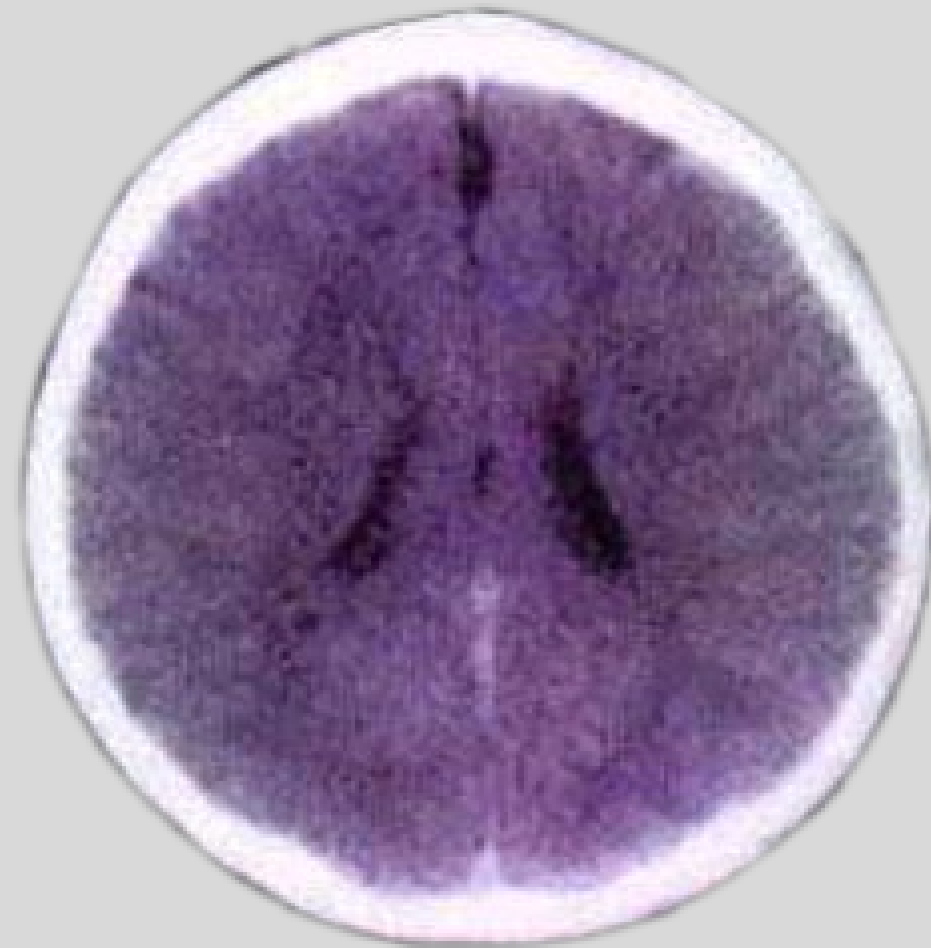




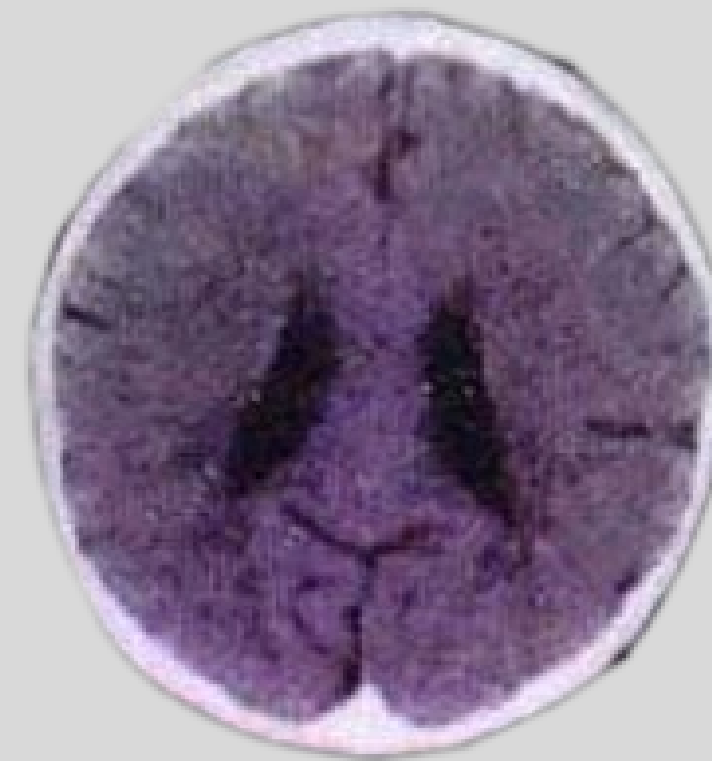
Burden of Knowledge

1000 Days

Brain scan – two 3-year old children



Normal



Malnourished

© 2007 Dr Fernando Monckeberg Barros, Universidad Diego Portales

The child is reported to have suffered from extreme neglect (abandono cronico) and the degree to which other factors such as social stimulation may have impacted this child are unknown.

Burden of Knowledge

Evidence of Effects of Malnutrition



**Brain neurons in
normal 3-yr old**



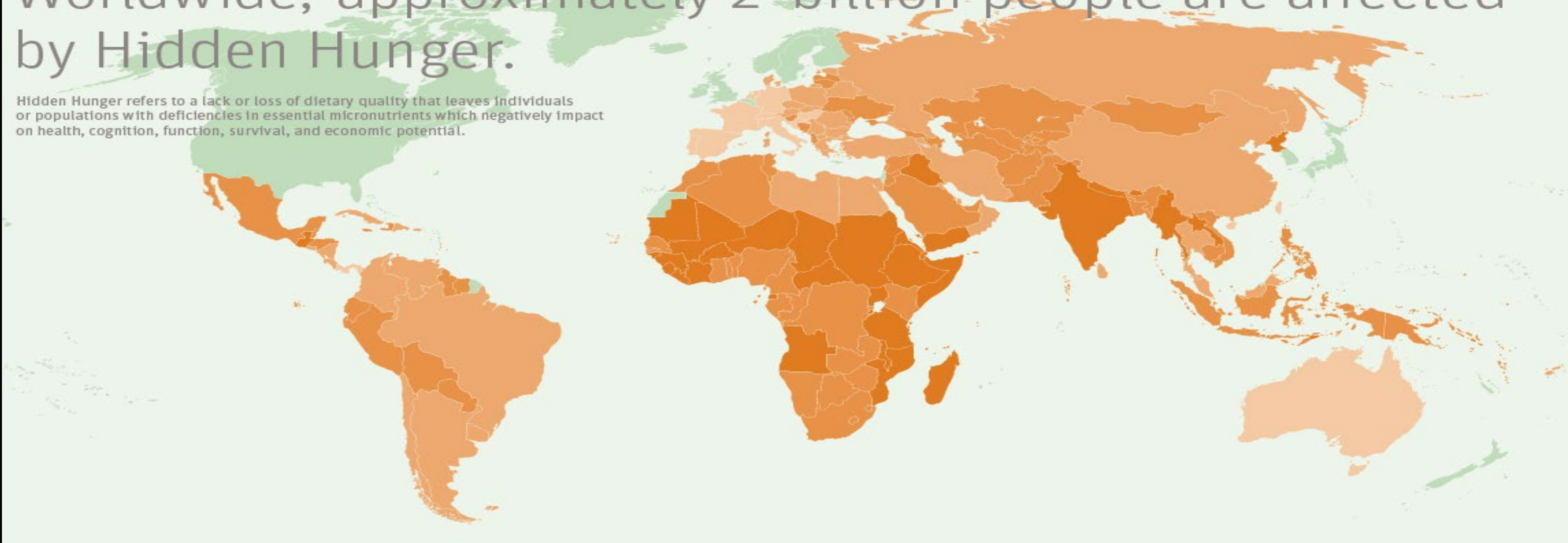
**Brain neurons in
malnourished 3-yr old**

Micronutrient status is inadequate in low-income countries

Global Hidden Hunger:

Worldwide, approximately 2 billion people are affected by Hidden Hunger.

Hidden Hunger refers to a lack or loss of dietary quality that leaves individuals or populations with deficiencies in essential micronutrients which negatively impact on health, cognition, function, survival, and economic potential.



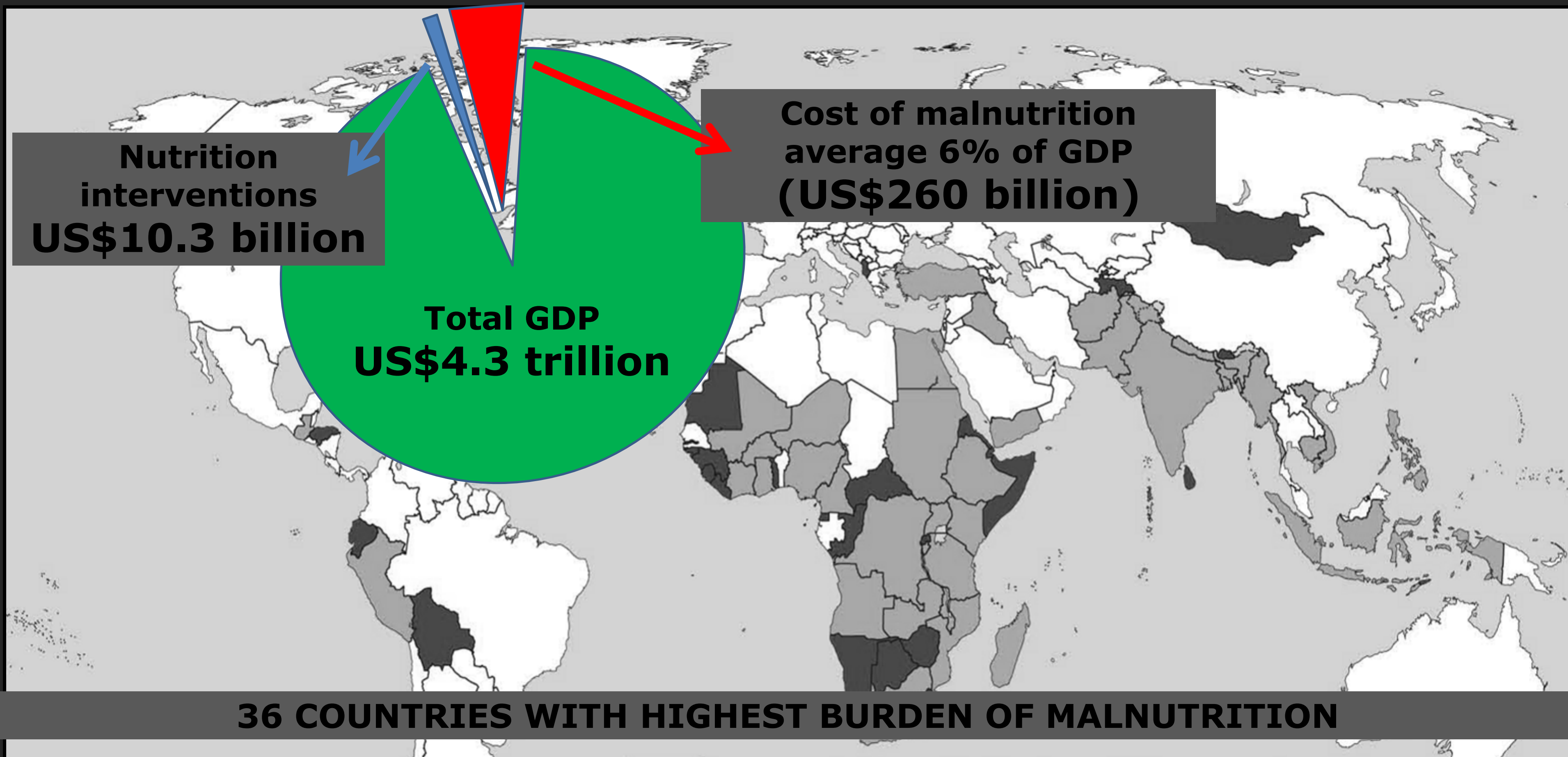
Severity of Hidden Hunger was determined based on the proportion of under-fives affected by anemia, vitamin A deficiency, stunting as an indicator of zinc deficiency and school-aged children affected by goiter.

UNICEF State of the World's Children 2009, WHO Global database on vitamin A deficiency and anemia, iodine deficiency



This map is the property of Sight and Life

ECONOMIC IMPERATIVE



GAME CHANGER 1:
PARTNERSHIPS to produce AND
expand access to affordable,
nutrient-dense and fortified foods.









NEEDED: SPECIAL NUTRIENT-DENSE FOOD FOR PREGNANT AND NURSING MOTHERS



BREAST-FEEDING:
PRACTICED BY
LESS THAN 10%
MOTHERS IN
MANY NATIONS
IS THE MOST
IMPORTANT
“SOLUTION”!

GAME CHANGER 2:

PARTNERSHIPS WHICH EMPOWER SMALL
HOLDER FARMERS, THE HUNGRY AND
RURAL WOMEN WITH A “HAND SHAKE”;
NOT ONLY A “HAND UP” OR A “HAND OUT”

The 1 percent tells the story of the 99 percent



Purchasing for Progress – P4P







GAME CHANGER 3:
TO SCALE SUSTAINABLE
'CIRCULAR FOOD ECONOMY'
INNOVATIONS, COLLABORATION



New Alliance, New Vision for Agriculture and Grow Africa



growafrica

Transformative solutions along the value chain

Research & Development

Input distribution and adoption

Farming

Trading and processing

Manufacturing
and retailing

Distribution to
Consumers



Grow Africa: Overview of the global and local/regional companies submitting LOIs to date

GHANA NUTS LTD.

SAB MILLER

JAIN Irrigation Inc

UNITED PHOSPHORUS LIMITED

syngenta

IFC International Finance Corporation

GUTS Agro-Industry P.L.C.

Intersnack

DUNAVANT GLOBAL - DISTRIBUTION - FREIGHT - SOLUTIONS

NETAFIM

YARA

Ecobank The Pan African Bank

kraft

ARMIA JARO

MARS incorporated

TASTA

COMPACI

AGCO

Oltremare

BANK of ABYSSINIA

Rabobank

WCF WORLD COCOA FOUNDATION

OLAM

PLEXUS COTTON LIMITED

TDG Trade & Development Group

finatrade

ACT

Savanna Farmers Marketing Company

SELOUS FARMING LIMITED

EcoEnergy Tanzania

TANSEED International Ltd

AGRICA

HILINA Enriched Food Processing Center P.L.C.

AGRI SERV Ltd AGRICULTURE OUR FUTURE

HERSHEY'S

Omega Farms Sustainable Agriculture

Cargill

TATEPA

vodafone

Swiss Re

DU PONT

Unilever

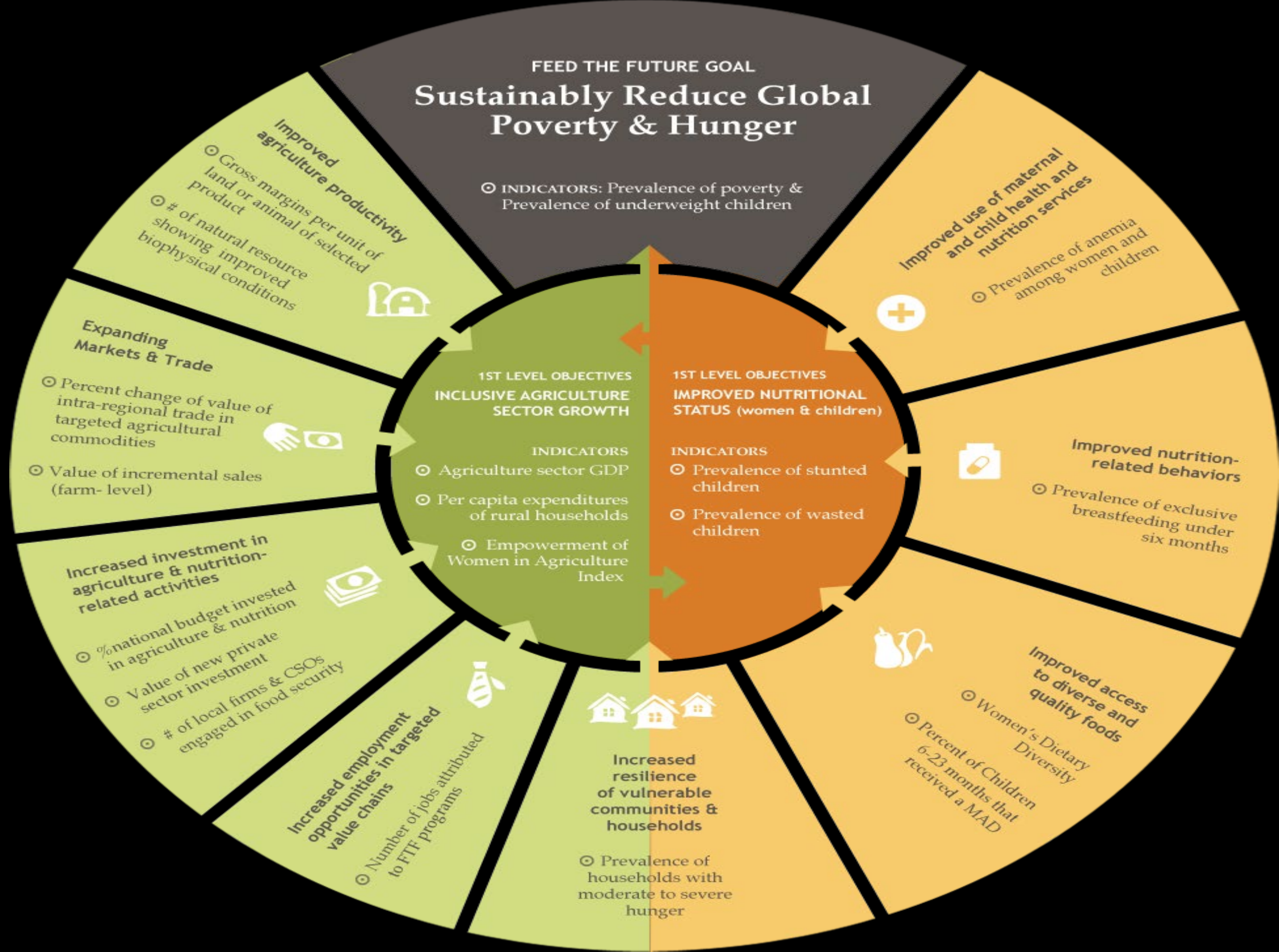
Zemen BANK

PREMIUM GOODS LIMITED

SAP

iPS Industrial Promotion Services (West Africa) S.A.

ACi



Scaling Up Nutrition



Together, we can achieve
what no single effort could,
and make the world a healthier,
stronger place for us all.

Progress of the SUN Movement: December 4 2012



What you buy in the supermarket can change the world.

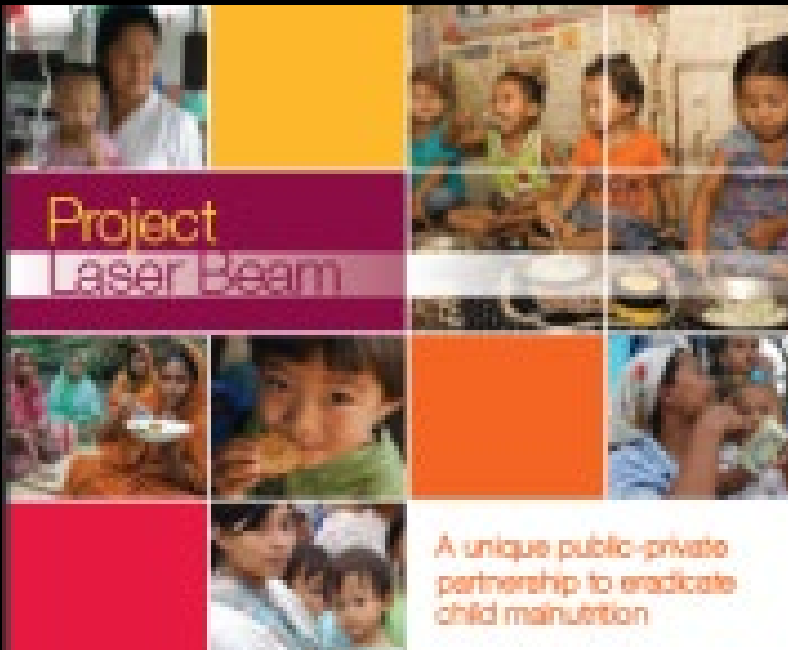
More than one in three of the products in your weekly shop contain palm oil which, if not produced sustainably, can be a cause of rainforest destruction.

Last year Unilever funded the farming of 180,000 tonnes of RSPO* certified sustainable palm oil. That represented more than half of all the sustainable palm oil traded worldwide.

It was only 15% of what we used but this year we will more than double the volume and by 2015 all our palm oil will come from sustainable sources.

It is an important step. If everyone did the same we could transform the industry and help put a stop to deforestation.

Small actions, big difference.



Project Laser Beam

A unique public-private partnership to eradicate child malnutrition

PUT FOOD FIRST





RESEARCH PROGRAM ON Agriculture for Nutrition and Health



gain

Global Alliance for Improved Nutrition

GLOBAL HUNGER INDEX 2012
THE CHALLENGE OF HUNGER



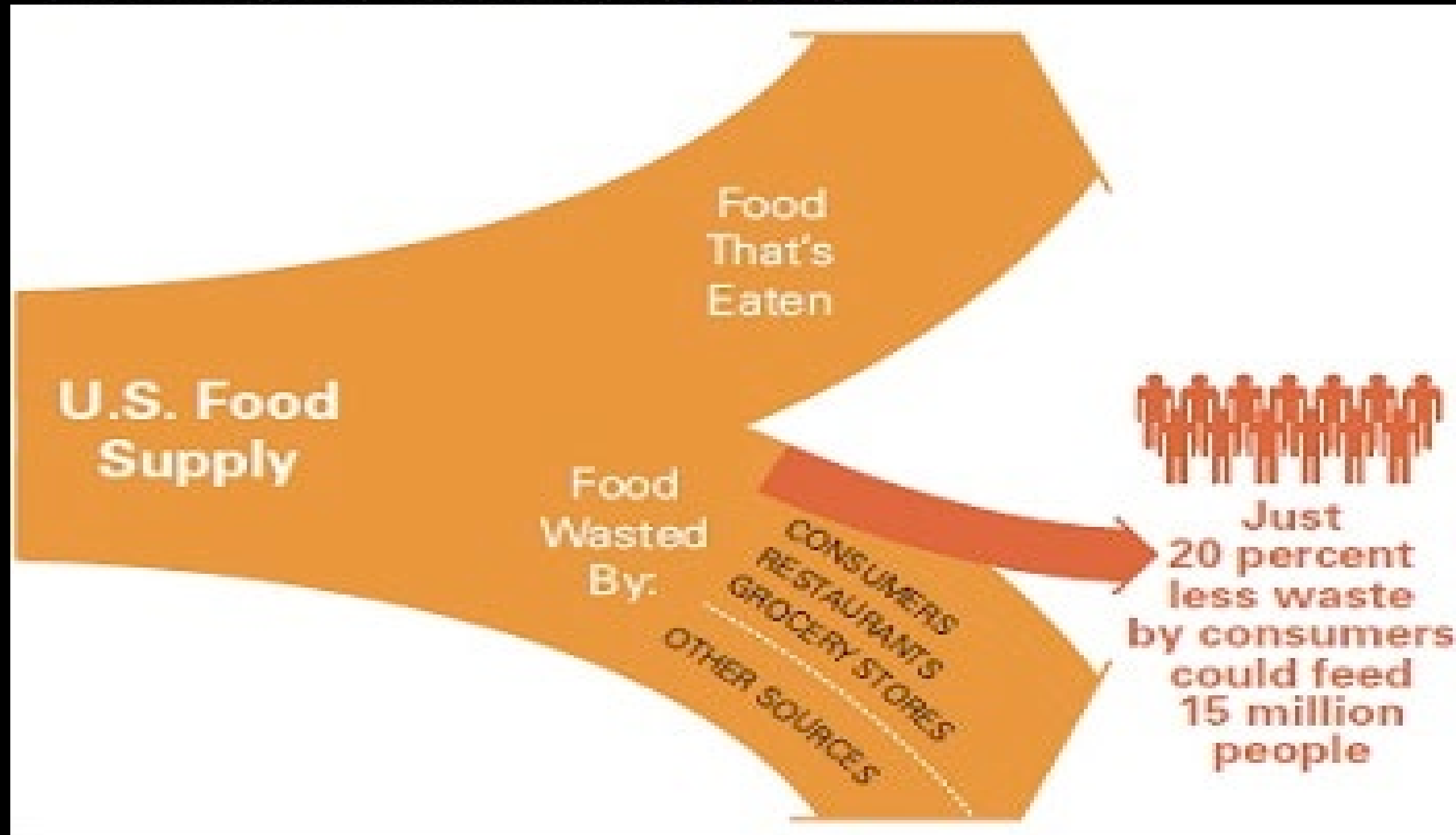
HUGE PALM OIL COMPANY PROMISES TO END DEFORESTATION



GREENPEACE

NEEDED: NEW COLLABORATION ON FOOD WASTE FROM FARM TO FORK

25 million people could be fed if we reduced consumer food waste by 20 percent



SOURCE: NDRC

GAME CHANGER 4:
LEADERS CAN BE
INSPIRED TO ACT AND
CAN MAKE A DIFFERENCE

The Economist

APRIL 19TH-25TH 2008

www.economist.com

Brazil as the next oil giant

God help Italy

London's funny but sad election

The return of Disney

Cancer's link to stem cells

The silent tsunami

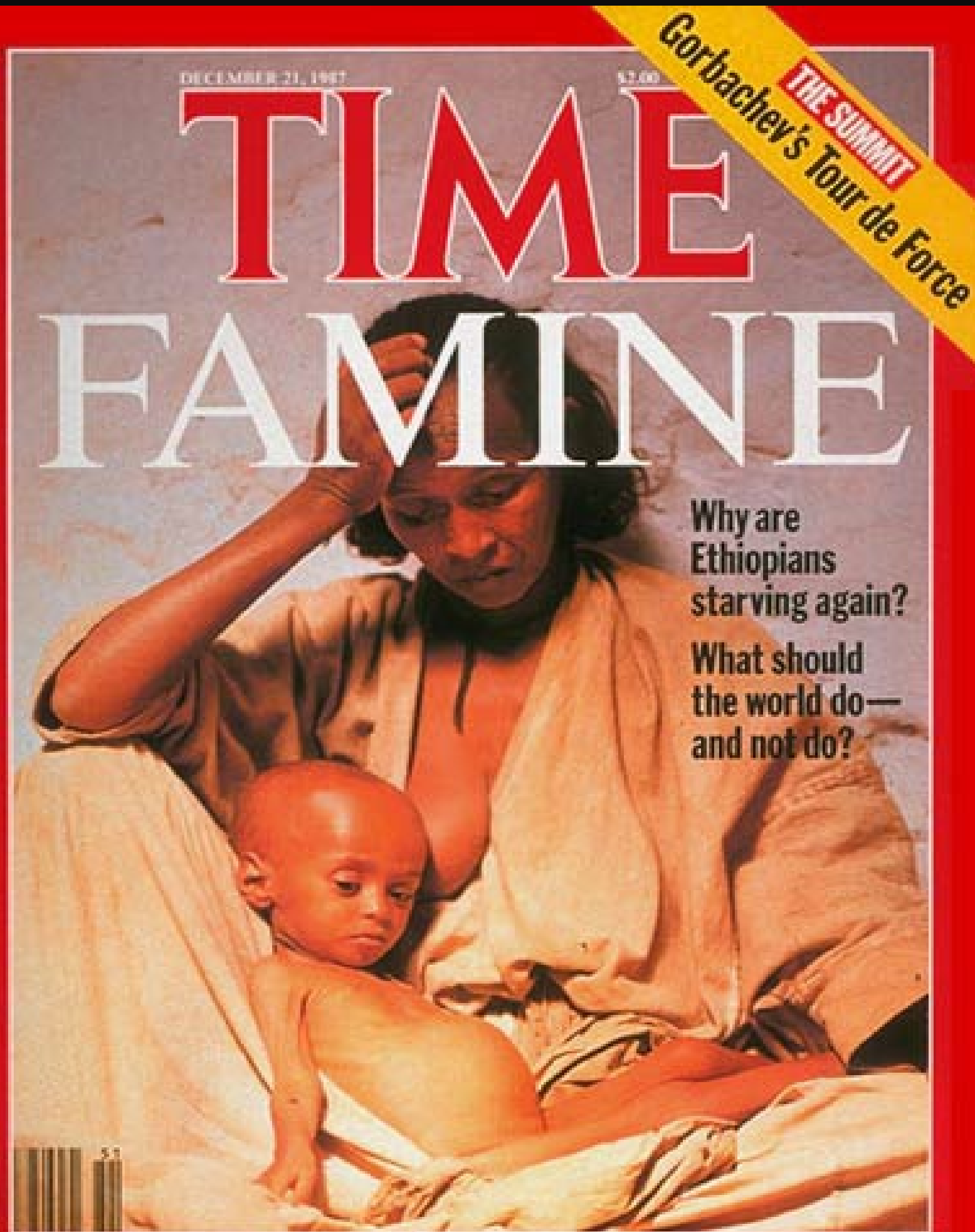
The food crisis and how to solve it



Global Commitment

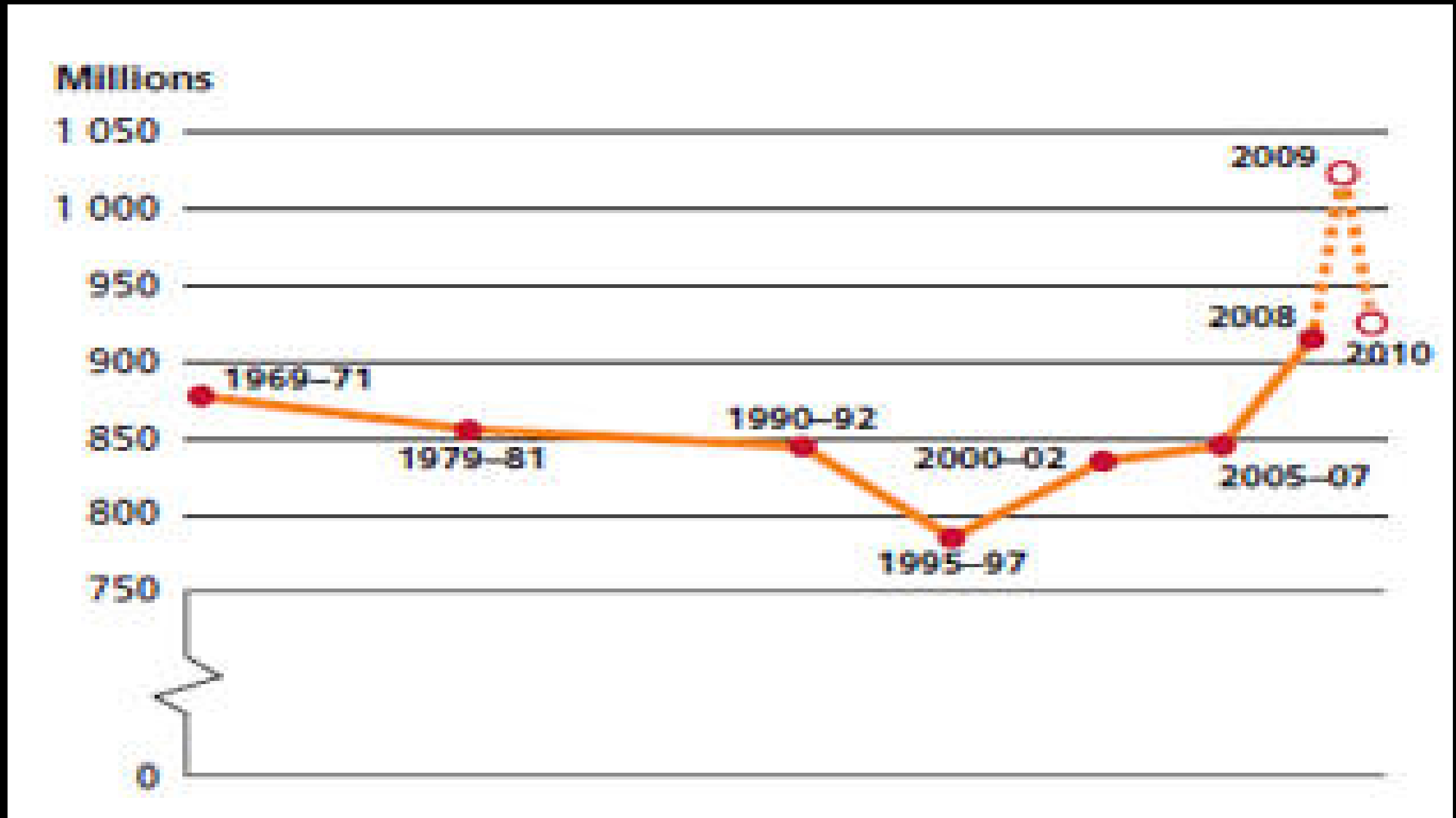


**“Never before have
so many leaders, from so many
countries and fields, agreed to work
together to improve nutrition. SUN gives all
of us an opportunity to support countries in
their efforts to end hunger and
malnutrition.”
BAN KI-MOON**



1987 Ethiopia Famine





HUNGER NUMBERS HAVE NOT SHIFTED SIGNIFICANTLY SINCE 1969 : FAO

IS IT BECAUSE

THE WARNING BELLS

RING SO LOUDLY

THAT NO ONE

SEEMS TO HEAR THEM?

Paul Polman, CEO, UNILEVER

Financial Times, November 21, 2012

THE 10 IMPERATIVES OF HUNGER

1. PRIORITIZE URGENT NUTRITION AID TO PREGNANT WOMEN AND YOUNG CHILDREN
2. VIEW HUNGER AS AN OPPORTUNITY, NOT A PROBLEM: CREATE WIN-WIN OPPORTUNITIES FROM FARM TO FORK
3. REVISE SUBSIDY AND POLICY MODELS DESIGNED FOR POST-WORLD WARII + POST-INDEPENDENCE
4. URGENTLY ADDRESS MASSIVE POLICY GAPS IN DEVELOPING WORLD ON LAND + INVESTMENT
5. SCALE UP WHAT WORKS: PUT \$ BEHIND PROVEN MODELS THAT BUILD RESILIENCY
6. PROMOTE DIVERSE SOLUTIONS: END THE WAR BETWEEN LARGE SCALE AND SMALL SCALE AGRICULTURE
7. RADICALLY REDUCE WASTE FROM FARM TO FORK
8. DEPLOY INNOVATIVE TECHNOLOGIES: CLOSE THE WATER, YIELD, STORAGE, PROCESSING GAPS
9. LEADERSHIP: THE G-8, G-20 MUST INCLUDE FOOD AND NUTRITION SECURITY
- 10. ENABLE A PARADIGM SHIFT TO 'FOOD FOR THE 21STCENTURY:' A MORE SUSTAINABLE, MORE EFFICIENT 'CIRCULAR FOOD ECONOMY', INTEGRATING FOOD-WATER-ENERGY PRESSURES INTO SUSTAINABLE, SCALABLE, SOLUTIONS AT THE LOCAL, REGIONAL AND GLOBAL LEVELS**

REMEMBER: **THIS BATTLE IS 'WINNABLE'**



BUT: AVOIDING THE 'FOOD CLIFF' REQUIRES A **PARADIGM SHIFT**