

# Public-private-civic partnerships for maize-flour and corn-meal fortification



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8 April 2013

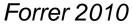
Consultation: Technical considerations for maize flour and corn meal fortification in public health

# A definition of public-private partnerships (PPPs)

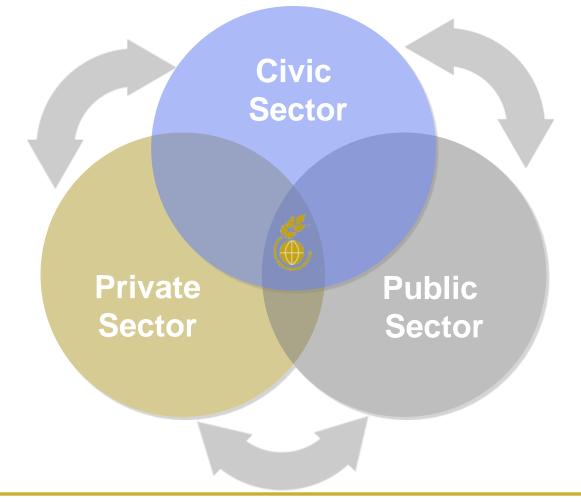
"Public-private partnerships are ongoing agreements between government and private sector organizations in which the private organization participates in the decision-making and production of a public good or service that has traditionally been provided by the public sector and in which the private sector shares the risk of that production."



tradexcap.com



## **Public-private-civic (implicit)**





Widdus 2005; <a href="http://www.ffinetwork.org/about/index.html">http://www.ffinetwork.org/about/index.html</a>

## Why enter into PPPs?

"[To combine] different skills, expertise and other resources ideally in a framework of defined responsibilities, roles, accountability and transparency — to achieve a common goal that is unattainable by independent action."



blogspot.com



## **Challenges of PPPs**

Different reasons for entering into PPPs



Government

exert fundinggoals imperative interpretation belief misunderstanding truly various imperitive **Sectors** necessarymotivations necessarym

#### Industry



NGO



IOM 2012

- Potential conflicts of interest and biases
- Lack of leadership



Different accountability, governance, working cultures

IOM 2012, Kraak 2012, Rowe 2012, Dangour 2011, Widdus 2003

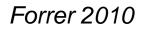
### **History of PPPs**



theydrawandtravel.com

123rf.com





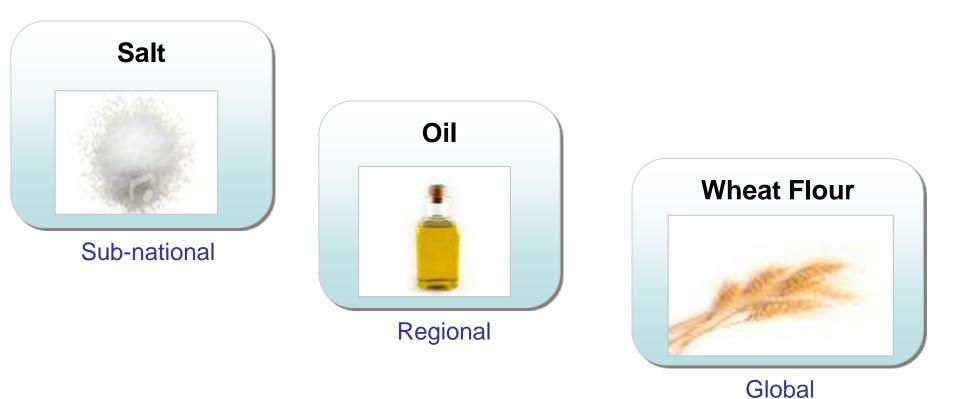
## **Special case of fortification**

"Food fortification is a public health intervention that is adopted by and delivered through the private sector using its delivery expertise and efficiency, with strong support from the government.

Few other large-scale programs use this method of delivery."



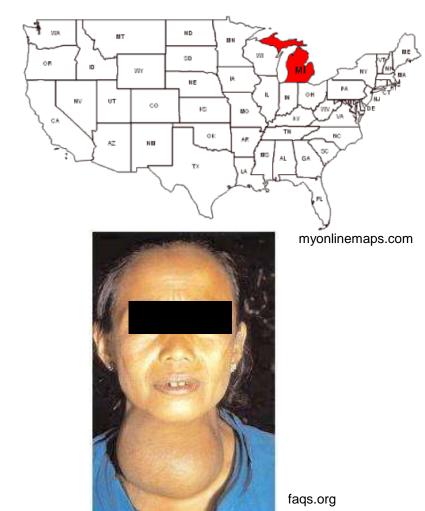
# **Examples of partnerships to advance fortification**



16 YEARS of Progress through Partnerships

## PPP to iodize salt in Michigan (USA)

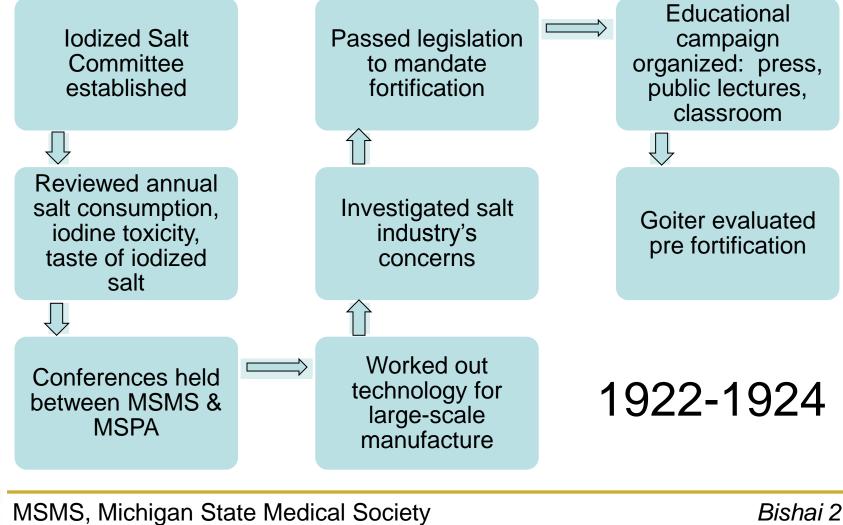
- <u>Goal</u>: prevent goiter in women and children
- <u>Years</u>: 1922-1924
- Actors: Michigan State Medical Society, Michigan Salt Producers Association, University of Michigan, salt retailers, press, physicians, school teachers, State Department of Health



Bishai 2002



## **PPP to iodize salt in Michigan (USA)**



MSPA, Michigan Salt Producers Association

Bishai 2002

## PPP to iodize salt in Michigan (USA)

- <u>Success</u>: 74-90% reduction in goiter between 1924-1935
- Factors:
  - Cooperation, health workers and salt industry, planning stage
  - a public education campaign / introduction of food\*



theshiksa.com

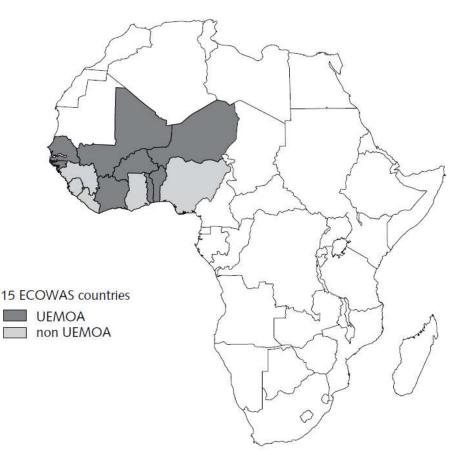


evidence of success

\*No other fortified food available in the country at the time

Bishai 2002

## PPP to fortify oil with vitamin A in West Africa



- <u>Goal</u>: improve vitamin A status of vulnerable populations
- <u>Years</u>: 2004-2010
- <u>Countries</u>: Benin, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal, Togo



ECOWAS, Economic Community of West African States UEMOA, West African Economic and Monetary Union

Sablah 2012

## PPP to fortify oil with vitamin A in West Africa

Private sector organizations:

- Vegetable oil industries (AIFO-UEMOA)
- Consumer associations
- Importers of vegetable oil
- Marketing agencies of vegetable oils/retailers
- Fortificants producers/ supply industries (BASF, DSM)
- Equipment manufacturers
- Media/press

Regional/national public sector institutions:

- Ministries of Health of member countries
- National alliances for food fortification
- Regional health institutions (WAHO)
- Regional political institutions (UEMOA/ECOWAS)
- Ministries of Commerce and Industries
- National regulatory agencies and customs

Public-private partnership for accelerated vegetable oil fortification

Leveraged resources:

- Funding
- Advocacy
- Social marketing
- Technical capacity
- Food technology, QA/QC
- Regulations
- M&E

Public-private nongovernmental/civil society organizations:

- Private voluntary
  organizations (HKI)
- MI
- Local CSOs

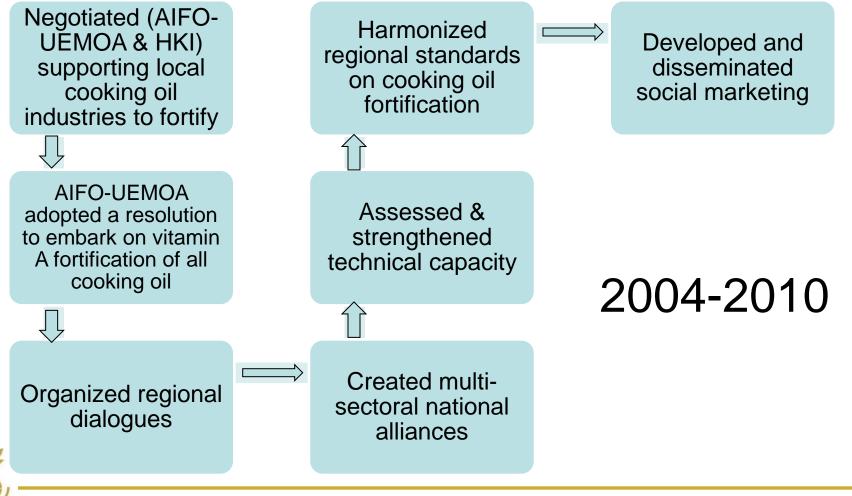
Public-private bilateral and multilateral development partners/agencies:

- USAID
- GAIN
- MSDF
- Taiwanese Government
- UNICEF
- WFP
- FAO



Sablah 2012

# PPP to fortify oil with vitamin A in West Africa



160 YEARS of Progress through Partnerships

Professional Association of Cooking Oil Industries of the West Africa Economic and Monetary Union (AIFO-UEMOA)

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# PPP to fortify oil with vitamin A in West Africa

#### Success:

- Countries fortifying:
  0→19
- Coverage: ~55 M with daily access to vitamin A–fortified cooking oil
- Initiative broadened: wheat-flour fortification



mylot.com



## PPP to fortify oil with vitamin A in West Africa

#### Lessons learned:

- Private sector industries can act quickly
- Sustainability is ensured through mandatory policies and enforcement of decrees
- Policy development requires a significant length of time
- Local presence and understanding required to nurture partnerships



- <u>Goal</u>: establish global recommendations for wheat-flour fortification
- <u>Years</u>: 2004-2010
- <u>Actors</u>: nutritionists, pharmaceutical representatives, cereal scientists, milling experts



kznhealth.gov.za



telegraph.co.uk



#### Objectives:

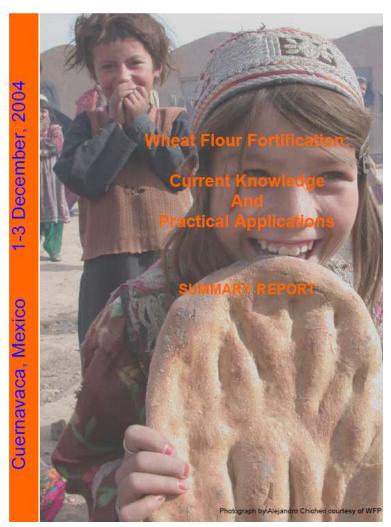
- Review the latest scientific and technical information regarding wheat-flour fortification with iron and folic acid
- Identify technical and practical barriers that may impede the implementation of fortification
- Provide practical recommendations to overcome barriers

#### Participants:

 Public-health agencies, research institutions, premix manufacturers, milling industries, development



agencies



#### Second Technical Workshop on Wheat Flour Fortification: Practical Recommendations for National Application

March 30 to April 3, 2008 Stone Mountain, Georgia, USA



Nearly 100 leading nutrition, pharmaceutical and cereal scientists and milling experts from the public and private sectors from around the world gathered for four days to harmonize advice for countries considering national wheat and/or maize flour fortification.



Table 1. Average levels of nutrients to consider adding to fortified wheat flour based on extraction, fortificant compound, and estimated *per capita* flour availability

Nutrient	Flour Extraction Rate	Compound	Level of nutrient to be added in parts per million (ppm) by estimated average per capita wheat flour availability (g/day) <sup>1</sup>			
			<75 <sup>2</sup> g/day	75-149 g/day	150-300 g/day	>300 g/day
Iron	Low	NaFeEDTA	40	40	20	15
		Ferrous Sulfate	60	60	30	20
		Ferrous Fumarate	60	60	30	20
		Electrolytic Iron	NR <sup>3</sup>	NR <sup>3</sup>	60	40
	High	NaFeEDTA	40	40	20	15
Folic Acid	Low or High	Folic Acid	5.0	2.6	1.3	1.0
Vitamin B <sub>12</sub>	Low or High	Cyanocobalamin	0.04	0.02	0.01	0.008
Vitamin A	Low or High	Vitamin A Palmitate	5.9	3	1.5	1
Zinc⁴	Low	Zinc Oxide	95	55	40	30
	High	Zinc Oxide	100	100	80	70



### FOOD AND NUTRITION BULLETIN

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SUPPLEMENT

FLOUR FORTIFICATION WITH IRON, FOLIC ACID, VITAMIN B<sub>12</sub>, VITAMIN A, AND ZINC: PROCEEDINGS OF THE SECOND TECHNICAL WORKSHOP ON WHEAT FLOUR FORTIFICATION

Guest editors: Mary Serdula, J.P. Peña-Rosas, Glen F. Maberly, and Ibrahim Parvanta

Associate Editors: Nancy Jennings Aburto, Cria G. Perrine, and Zuguo Mei



#### Lessons learned:

- Constructive dialogue can be facilitated among sectors
- A focus on problem solving (e.g. what can we recommend to countries?) is productive
- Several meetings may be necessary to reach consensus
- Extensive resources needed



thishousehofhonours.webs.com

Scott Montgomery, Laird Ruth, Bob Baldwin, personal communication

### Applicability to maize-flour and cornmeal fortification

- Mass fortification of any food requires collaboration among public-private-civic partners
- Educational/social marketing campaigns are useful
- Evaluations can document success
- Legislation & monitoring ensure sustainability
- On-the-ground presence to nurture partnership
- Allow time for frequent dialogue & policydevelopment process



## Conclusions

- Public-private-civic partnerships have been used to meet publicsector goals
- Successful large-scale fortification requires partnerships
- Experiences with & partnerships forged for fortification of other foods can accelerate maize/corn fortification





Champions needed

## **References for download**

http://www.sph.emory.edu/~hpacho2/ (in folder *PartnershipsMaize*)

## For more information

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