#### 18th Annual IAOM Mideast & Africa District Conference & Expo

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A Public-Private-Civic Investment in Each Nation

# FFI Building Momentum in the Middle East & Africa



Barr Al Jissah Resort and Spa Muscat, Oman December 8-14, 2008

The Copenhagen Consensus ranks the provision of micronutrients as a top cost-effective investment. . . above trade liberalization, malaria, water/sanitation. . and the benefit: cost ratios for investing indirect nutrition interventions are very high.

| Rating | Challenge                   | Opportunity                                 |
|--------|-----------------------------|---|
| Very   | 1. Diseases                 | Control of HIV/AIDS                         |
| Good   | 2. Malnutrition and hunger  | Providing micronutrients                    |
|        | 3. Subsidies and Trade      | Trade liberalization                        |
|        | 4. Diseases                 | Control of malaria                          |
| Good   | 5. Malnutrition and hunger  | New agricultural technologies               |
|        | 6. Sanitation and Water     | Small-scale water technologies              |
|        | 7. Sanitation and Water     | Community-managed systems                   |
|        | 8. Sanitation and Water     | Research on water in agriculture            |
|        | 9. Government               | Lowering cost of new business               |
| Fair   | 10. Migration               | Lowering barriers to migration              |
|        | 11. Malnutrition and hunger | Improving infant/child malnutrition         |
|        | 12. Diseases                | Scaling up basic health services            |
|        | 13. Malnutrition and hunger | Reducing the prevalence of low birth weight |
| Poor   | 14-17 Climate/Migration     | Various                                     |

#### **Consequences of Iron Deficiency**

#### In Children:

- Anemia
- Poor growth
- Weak immune system
- Reduced cognition and development
  - Poor attention span, concentration, memory, learning ability
  - Poor muscle function and manual dexterity, behavior, social interaction



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#### In Adults:

- Anemia
- LBW and premature babies
- Maternal deaths
- Fatigue
- Reduced work performance





#### **Consequences of Folate Deficiency**

- Neural tube defects
   <u>Spina bifida:</u>
  - Paralysis
  - Loss of bowel & bladder control
  - Learning disabilities
  - Anencephaly:
  - Still births or death after delivery
- Anemia



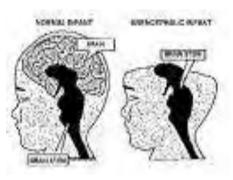
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#### Spina bifida



#### Anencephaly





#### **IAOM Resolution in Support of FFI**





Flour Fortification Initiative

#### A resolution in support of the Flour Fortification Initiative

Therefore, be it resolved and let it be known that on this the 16th day of May in the year two thousand and three, the International Association of Operative Millers' Board of Directors does hereby,

✓ endorse the precepts of the Flour Fortification Initiative and its minimum goal of iron and folic acid fortification of flour world–wide;

✓ encourage individual and collective member and associate member activities that allow for the discovery of the technical, political, and economic barriers that may prevent millers in other countries from fortifying flour;

#### **IAOM Resolution in Support of FFI**



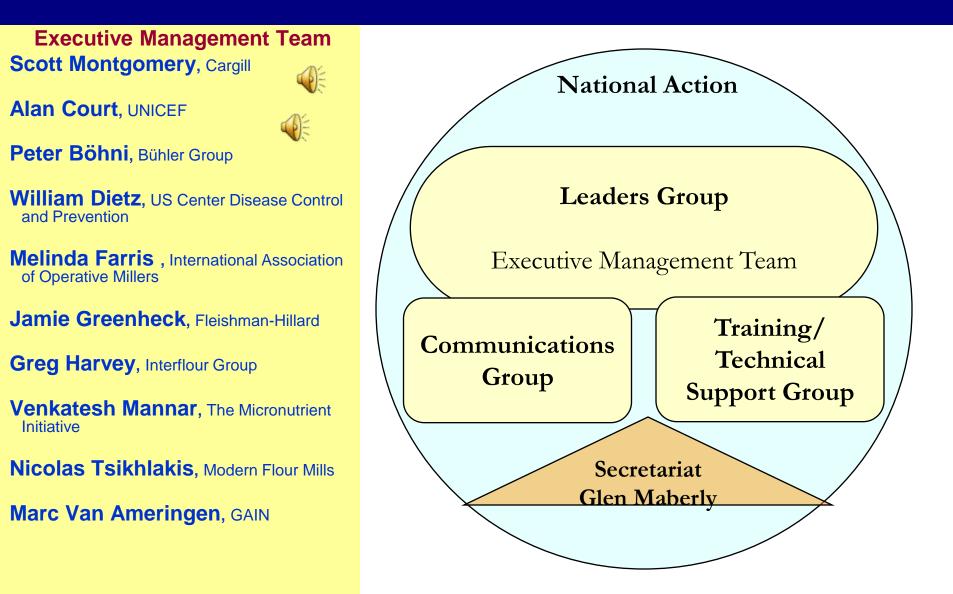


Flour Fortification Initiative

✓ advance the cause of the Flour Fortification Initiative through education, training, consultation, guidelines, technical handbooks, web sites, journal articles, video media and any other such communication tools as allowed by the members' respective companies;
✓ promptly submit this resolution to its members with recommendation of support,
✓ submit the approved resolution to the Flour Fortification Initiative as a testimony of support.

Approved May 16, 2003 Secretary

#### FFI Defined – London Forum June 2005



#### **FFI REVIEW**



#### In 2004:

- Fortification around 18%
- FFI was still conceptual
- Organizations operating mostly independently



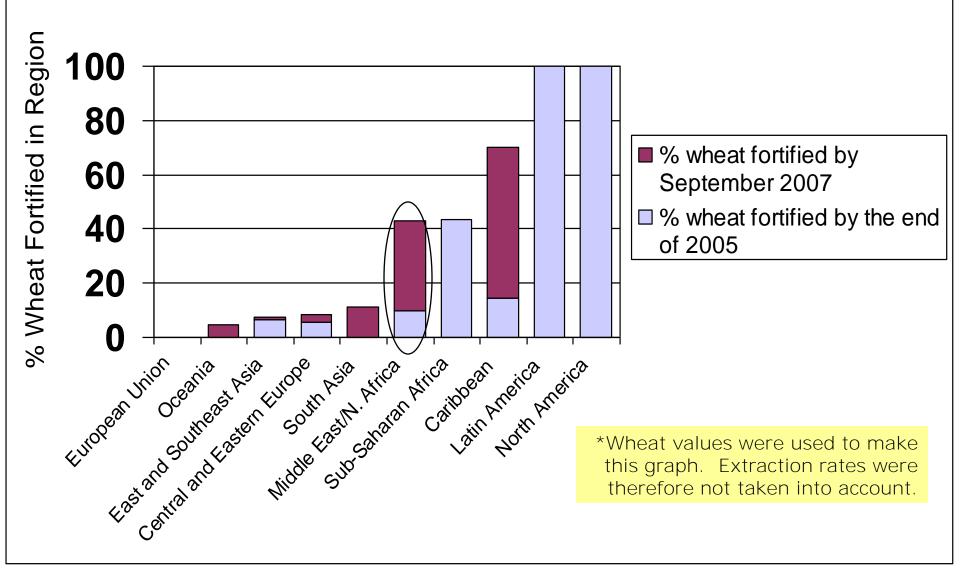
Flour Fortification Initiative



#### **55** Countries with mandatory flour fortification

| <u>Middle</u><br><u>East/North</u><br><u>Africa</u>  | <mark>Latin</mark><br><u>America</u><br>Argentina  | <mark>Caribbean</mark><br>Barbados<br>Cuba  | FLOUR FORTIFICATION SITUATION 2007   |
|--|--|---|--|
| <ul> <li>Bahrain</li> <li>Iran</li> <li>Iraq</li> <li>Jordan</li> <li>Kuwait</li> <li>Morocco</li> <li>Oman</li> <li>Palestine,</li> <li>Occupied</li> <li>Territory</li> <li>Qatar</li> <li>Saudi Arabia</li> <li>Yemen</li> <li>Sub-Saharan</li> </ul> | Belize<br>Bolivia<br>Brazil<br>Chile<br>Colombia<br>Costa Rica<br>Ecuador<br>El Salvador<br>Guatemala<br>Honduras<br>Mexico<br>Nicaragua<br>Panama<br>Paraguay | Dominican Republic<br>Grenada<br>Guadalupe<br>Guyana<br>Haiti<br>Jamaica<br>Puerto Rico<br>St. Vincent<br>Trinidad Tobago<br>Central and Eastern<br>Europe<br>Turkmenistan<br>East and South East<br>Asia |  |
| Africa<br>Cote d'Ivoire<br>Ghana<br>Nigeria<br>South Africa<br>Sudan<br>Flour Fortifi<br>A Public-Private-Civic  | Peru<br>Surinam<br>Uruguay<br>Venezuela<br><b>North</b><br><b>America</b><br>Canada  |   | Fortification Status:         Level of legislation         Nothing or         Unknown         Planning         Voluntary         Mandatory |

## Percent of Wheat Fortified in each Region for 2005 and 2007\*



## Percent of Population with access to fortified from 2004 and 2007\*

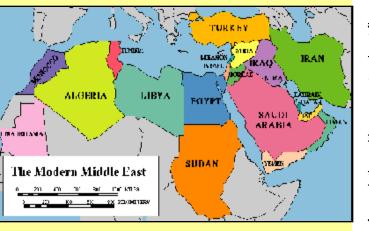
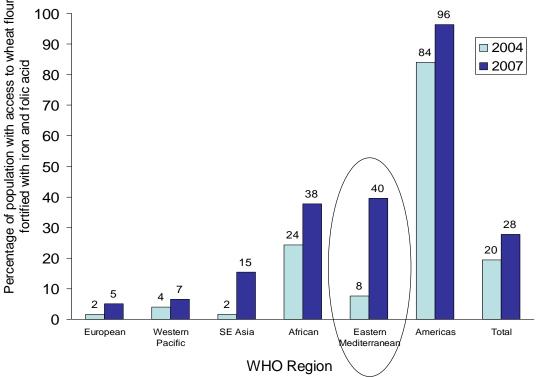
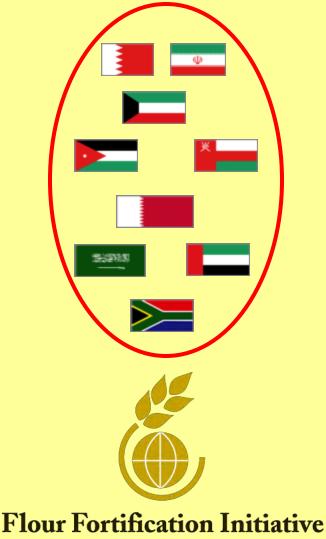




Figure: Percentage of population estimated to have access to fortified wheat flour: Total and by WHO Region – 2004 and 2007



#### **Countries with National Flour Fortification Programs**



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### **Early Adopters**

Bahrain, Iran, Jordan, Kuwait, Oman, Qatar, Saudi Arabia, Dubai, and South Africa

#### Additions since the IAOM Marrakesh Meeting (2005)



Morocco, Democratic Republic of Congo, Iraq Palestinian National Authority, and Yemen

Countries in process to making significant progress toward national scale fortification



Egypt, Sudan, Turkey and Uganda



#### MARKET CHALLENGES

Increased prices of wheat adding pressure on millers

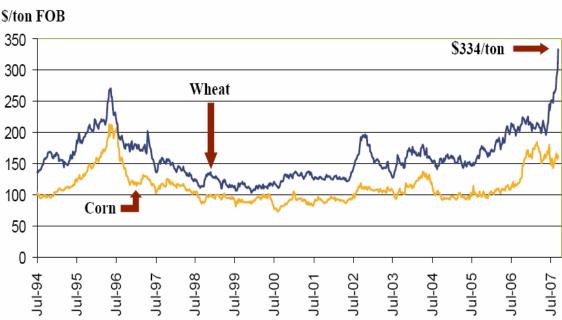
Increased prices of vitamins and minerals (especially folic acid)

Most effective fortificants cost more, e.g. iron particles are cheap but may not work



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#### **Rising Wheat Prices**



**U.S. Prices Soar for All Grains** 

#### **REAFFIRMING THE PRINCIPLES**

Guidelines to National Action

Adopted by FFI Eurasia Regional Leaders Group, 2006



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1. Flour Fortification adoption should have national leaders driving the process.

Flour fortification is most successful when it is driven nationally by multiple stakeholders under the guidance of a recognized local leader supported by a core team.

Different sectors (industry, scientific and academic communities, government, civil society) should resolve any internal issues and collaborate to leverage resources a focus

on an agreed strategy.

#### **REAFFIRMING THE PRINCIPLES**



### **2. International involvement catalyses and supports national action**

The success of flour fortification in other countries can instill confidence, capability and stimulation when international experts collaborate to provide nationally applicable experience and precise detail regarding fortification standards, legislation and technical advice.



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#### **REAFFIRMING THE PRINCIPLES**





3. Fortification should be mandatory; a share-building market approach does not work

Miller profit margins are low and all stakeholders are concerned about price. Attempts to increase profit margins through premium pricing of fortified products have failed.

A level playing field is essential. Countries are recognizing that a "mandatory" approach is the only effective way forward.

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#### **REAFFIRMING THE PRINCIPLES**





#### 4. Fortification requires a "system change"

Modifications in the way public institutions operate and private companies do business.

Different sectors should agree upon the need and work together to achieve fortification; this cooperation is often a new experience and requires time, patience, energy and knowledge to build the necessary national capacity.

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#### **REAFFIRMING THE PRINCIPLES**





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### 5. Getting the final political "go" is a major step

The national leaders and members of the FFI Leaders Group can help mobilize political will. Reaching the top decision makers is necessary to get the final political "go."

#### CONCLUSION



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Success depends on the FFI Leaders Group to provide leadership & coordination that will maximize the unique nature of our network

We need to help our partners to more fully engage & work with country leaders as they advocate adoption of mandatory fortification

