SMARTER FUTURES

WHAT MAKES SMARTER FUTURES UNIQUE?



From 2007-2021, the Smarter Futures program helped make fortification of wheat flour, maize flour, and rice a reality in dozens of countries across Africa. A unique publicprivate-civic partnership, Smarter Futures convened key stakeholders and provided technical support to grain millers, governments, vitamin and mineral suppliers, international organizations, and academic institutions. The partnership helped create robust fortification programs that will continue to prevent debilitating health consequences of vitamin and mineral deficiencies, such as neural tube birth defects, impaired learning capacity, and decreased productivity, for years to come.



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Addressing global micronutrient deficiencies through flour fortification requires active involvement by public-private-civic partnerships like Smarter Futures. -Dr. Sylvia Roozen, International Federation for Spina Bifida and Hydrocephalus

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Smarter Futures facilitates discussion and coordination that leads to impact by providing a forum for most organizations working on food fortification in Africa, including the private sector. -Leo Schulte-Vennbur, Mühlenchemie

SMARTER FUTURES' UNIQUE MODEL



government agencies and other

national entities non

ernmental organizations and academic organizations



Millers, equipment and flour

product companies.

wheat traders, baking organizations, and other affiliated

businesses



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CIVIC SECTOR Patient, parent, and professional organizations representing the civic domain

Tremendous progress has been made across Africa since Smarter Futures began. In 2007, only seven countries on the continent had legislation for mandatory or voluntary fortification of a grain [2]. As of January 2022, 29 countries have legislation to mandate the fortification of wheat flour alone or in combination with maize flour, six countries allow the voluntary fortification of either flour, and—though no country in Africa mandates the fortification of rice yet—Smarter Futures has mapped opportunities for rice fortification on the continent [2]. Although this progress cannot be attributed to the impact of Smarter Futures alone, the program's meetings, workshops, trainings, and other events have been attended by stakeholders from 41 countries. Thirty-six of these 41 countries are now planning, implementing, or monitoring a national fortification program.

Smarter Futures partners include the Global Alliance for Improved Nutrition (GAIN) and International Federation for Spina Bifida and Hydrocephalus (IF) as project holders, the Food Fortification Initiative (FFI) as the main implementing partner, and steering team members: Bühler, Helen Keller International (HKI), Mühlenchemie, Nouryon (formerly AkzoNobel), Nutrition International (NI), the World Food Programme (WFP). Funded by the Ministry of Foreign Affairs of the Netherlands, Smarter Futures did not itself invest large program resources but instead supported and strengthened the efforts of its network partners.

[1] Food Fortification Initiative. Potential anemia and neural tube defects averted through fortification of wheat flour, maize flour, and rice. Unpublished estimates. 2021. https://www.drophox.com/s/vienzfhx47uvoi4/Calculating%20Global%20Impact xlsx2dl=0

https://www.dropbox.com/s/yienzfhx47uyqj4/Calculating%20Global%20Impact.xlsx?dl=0 [2] Global Fortification Data Exchange. Fortification Legislation. Accessed 1 January 2022. http://www.fortificationdata.org

Providing Specialized Support



Note: In addition to the countries above, Smarter Futures provided assistance in developing standards that led to millers fortifying flour in the following countries: Algeria, Congo, Ghana, Lesotho, Sudan, and Tunisia.

Potential reach calculated using the following source: Food Fortification Initiative. Potential anemia and neural tube defects averted through fortification of wheat flour, maize flour, and rice. Unpublished estimates. 2021. <u>https://www.dropbox.com/s/yienzfhx47uyqj4/Calculating%20Global%20Impact.xlsx?dl=0</u>



Providing Specialized Support

In collaboration with partners, Smarter Futures provided specialized support to 26 countries in Africa. Support was provided through four areas of work: Advocacy, Strategic Development, Capacity Building, and Technical Assistance. By working in these areas, the Smarter Futures team assisted countries in the creation and/or scaling-up of a large-scale food fortification program through four phases: Phase 1 - Explore and Engage, Phase 2 - Map the Context, Phase 3 - Design and Develop, and Phase 4 - Monitor for Compliance and Impact. In addition to the countries listed below, Smarter Futures provided assistance in developing standards that led to millers fortifying flour in the following countries: Algeria, Congo, Ghana Lesotho Sudan and Tunisia

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Training and Convening Stakeholders

2015

2013

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2008 November 1st African Flour Fortification Initiative Workshop 132 participants Arusha, Tanzania	2010 April Standards Harmonization Workshop 28 participants Nairobi, Kenya November 2nd African Flour Fortification Initiative Meeting 75 participants Cape Town, South Africa		March FORTIMAS: Monitoring and Surveillance 22 participants Johannesburg, South Africa November IAOM Mideast and Afric District Conference and 600 participants Sousse, Tunisia December Cost and Economic Ben Training Workshop 48 participants Dar es Salaam, Tanzania December Africa Network Meeting 8 countries and partners Dar es Salaam, Tanzania	Expo efit	Training Workshop on Lifelong Care Lusaka, Zambia March Intermediate Congenital Anomalies Surveillance Workshop <i>30 participants</i> Arusha, Tanzania May Training Workshop on QA/QC for Flour Fortification <i>80 participants</i> Harare, Zimbabwe December Lunch Seminar: Smarter Futures The Hague, the Netherlands		2017 May Training Workshop on QA/QC 77 participants Lusaka, Zambia July Eastern and Southern Africa Training of Trainers 22 participants Nairobi, Kenya	i	2019 IF Global Prevention Initiative Clinics		2021 April Training Seminar for Millers to Build Capacity in Egypt's Milling Sector 60 participants Cairo, Egypt
June Former Minister of Foreign Affairs of the Netherlands, Bert Koenders, requests formation of Smarter Futures through the Schokland Agreements November European Meeting on Mandatory Flour Fortification Brussels, Belgium	June Flour Fortification Initiative Partners Meeting 27 participants Dakar, Senegal December Training of Trainers and Training of Milling Staff and Regulatory Staff 76 participants Dakar, Senegal 2009	April QA/QC - Monitoring and Surveillance of Flour Fortification Programs <i>66 participants</i> Dar es Salaam, Tanzania 2011		May Regional Workshop on QA/QC for Countries in North Africa 39 participants Casablanca, Morocco December Celebrating an Equipping Progress throu Partnerships 125 participant Cape Town, South Africa	ıd ugh	May Training Workshop on QA/QC 79 participants Kampala, Uganda June FORTIMAS: Monitoring and Surveillance Mozambique October Maize Fortification Strategy Meeting 79 participants Dar es Salaam, Tanzania 2016		October SADC Regiona Capacity Building Workshop 60 participants Johannesburg, South Africa		IF Advocacy Workshop August/ September Monitoring Challenge Workshop 75 participants Virtual	S

Training and Convening Stakeholders

Over the course of 15 years, Smarter Futures convened 27 trainings and collaborative meetings that were attended by stakeholders from 41 African countries. These trainings and meetings covered topics including micronutrient nutrition and fortification program planning, implementation, monitoring, and advocacy.

DATE	EVENT	ΤΟΡΙϹ	TARGET AUDIENCE	PURPOSE
November 8-9, 2007	European Meeting on Mandatory Flour Fortification	Advocacy	Regional and international organizations	Regional collaboration
November 17-20, 2008	1st African Flour Fortification Initiative Workshop	Advocacy	Regional and international organizations	Regional collaboration
June 2-3, 2009	Flour Fortification Initiative Partners Meeting	Advocacy	Regional and international partners	Regional collaboration
December 7-10, 2009	Training of Trainers and Training of Milling Staff and Regulatory Staff	Monitoring	Millers and regulatory officials	Training
April 19-22, 2010	Standards Harmonization Workshop	Nutrient deficiencies	SADC member states	Regional collaboration
November 26, 2010	2nd African Flour Fortification Initiative Meeting	Advocacy	Regional and international partners	Regional collaboration
April 4-8, 2011	QA/QC - Monitoring and Surveillance of Flour Fortification Programs	Monitoring	Program managers	Training
March 4-7, 2013	FORTIMAS: Fortification Monitoring and Surveillance	Monitoring	Government/scientific leaders and international partners	Training
November 5-8, 2013	International Association of Operative Millers Mideast and Africa District Conference and Expo	lron detection and measurement	Millers	International collaboration
December 10-14, 2013	Cost and Economic Benefit Training Workshop	Planning	Government ministries, milling companies, international organizations, and patient representatives	Training
December 10, 2013	Africa Network Meeting	Preventing NTDs	Public, private, and civic sector partners	Regional collaboration
May 12-15, 2014	Regional Workshop on QA/QC for Countries in North Africa	Monitoring	Public sector agencies and flour milling industries	Training
December 2-3, 2014	Celebrating and Equipping Progress Through Partnerships	Advocacy	Government representatives, milling executives, and international partners	International collaboration and awareness
March 2-6, 2015	Intermediate Congenital Anomalies Surveillance Workshop	Monitoring	Health professionals in African countries	Training and workshop
May 11-14, 2015	Training Workshop on QA/QC for Flour Fortification	Monitoring	Flour millers, government food control, and nutrition staff	Training
December 17-18, 2015	Lunch Seminar: Smarter Futures	Advocacy	Public and private partners of the Dutch Ministry of Foreign Affairs	International collaboration
2015	Training Workshop on Lifelong Care	Advocacy	Caregivers, civic advocacy organizations, and patient representatives	Training
May 22-28, 2016	Training Workshop on QA/QC	Monitoring	Food industry, universities, government nutrition and regulatory staff from Ministries of Health, Trade, and Industry	Training
June 2016	FORTIMAS: Fortification Monitoring and Surveillance	Monitoring	Flour millers, government food control, and nutrition staff	Training
October 3-7, 2016	Maize Fortification Strategy Meeting	Maize fortification	NFAs, millers, regulatory bodies, regional economic/health bodies, NGOs, donors, premix suppliers, and industry partners	Regional collaboration
May 15-19, 2017	Training Workshop on QA/QC	Monitoring	Flour millers, government food control staff, and NGO staff from 8 African countries	Training
July 24-28, 2017	Eastern and Southern Africa Training of Trainers	Planning, implementing, and monitoring	Trainees from a variety of professional backgrounds, representing 11 countries	Training
October 8-10, 2018	SADC Regional Capacity Building Workshop on Strengthening Food Fortification Programs: Monitoring and Surveillance Systems	Regulatory monitoring and advocacy	National representatives from food control, lead government ministries, the private sector, and patient representatives from SADC member states	Regional collaboration

NFA: National Fortification Alliance, NGO: non-governmental organization, NTD: neural tube defect, SADC: Southern African Development Community

DATE	EVENT	ΤΟΡΙϹ	TARGET AUDIENCE	PURPOSE	
2019	IF Global Prevention Initiative Clinics	Advocacy	Governments, international organizations, health services, health professionals, and individuals	International collaboration and awareness	
August 3- September 28, 2020	Monitoring Challenge Workshop: Identifying Innovative and Effective Means of Strengthening Fortification Program Monitoring Using Existing Resources	Regulatory monitoring	Government, private sector, and civil society stakeholders from countries with mandatory fortification programs in place that are struggling to implement effective monitoring frameworks	Regional collaboration	
2020-2021	IF Advocacy Workshop	Advocacy	Patient, parent, and professional organizations representing civic domain	Training	
April 1, 2021	Training Seminar for Millers to Build Capacity in Egypt's Milling Sector	Planning, implementing, and monitoring	Public and private millers, national government players, and external partner support stakeholders	National collaboration	

Resources to learn more about the need and opportunity for fortification in Smarter Futures countries:

- Global Fortification Data Exchange
- **<u>PUSH! Global Report Card</u>** for Spina Bifida and Hydrocephalus Prevention and Care

Selected Smarter Futures Publications and Resources

- Africa Maize Fortification Strategy (2017)
- **<u>Cost:Benefit Tool:</u>** Assists countries in comparing the estimated cost of implementing a national fortification program to the benefits the program will generate in return (2013)
- Fortify Grains to Prevent NTDs in Africa (2013)
- **FORTIMAS**: Approach for tracking the population coverage and impact of a flour fortification program (2014)
- **Monitoring Framework Shell:** Template that allows countries to add unique context with prefilled general recommendations and processes (2021)
- **<u>Regulatory Monitoring of National Food Fortification Programs:</u>** Policy guide that proposes a standardized, feasible approach to determining fortification compliance and offers country-specific examples for addressing common, ongoing challenges faced by public and private sectors (2018)
- Smarter Futures Brochure (2021)

