



# ACTIVITIES REPORT

## 2022

# TABLE OF CONTENTS

- List of Figures & Tables ..... 3
- Acronyms & Abbreviations ..... 3
- Vision of Henk, President & CEO of IFDC ..... 5
- Words From Ifdc Country Director ..... 6
  - Soil conditions in Burkina Faso ..... 7
- 1. Introduction ..... 7
  - A brief history of IFDC's work in Burkina Faso ..... 8
  - Fertilizer situation in the country ..... 8
  - Mission ..... 9
  - Objectives of projects and programs implemented in 2022 ..... 9
  - 2SCALE ..... 9
  - PIPATA ..... 9
  - 2PATM ..... 9
  - EnGRAIS ..... 9
  - AfricaFertilizer (AFO) ..... 9
  - Link with the country's agricultural policy ..... 9
  - 2SCALE ..... 9
- 2. IFDC's Current Activities in Burkina Faso ..... 9
  - PIPATA ..... 10
  - 2PATM ..... 10
  - EnGRAIS ..... 10
  - AfricaFertilizer (AFO) ..... 10
  - 2SCALE ..... 10
  - Activities ..... 10
- 3. Activités principales en 2022 et résultats ..... 10
  - Results ..... 12
    - PIPATA ..... 13
    - Activities ..... 13
  - Results ..... 13
    - 2PATM ..... 14
    - Activities ..... 14
  - Results ..... 14
    - EnGRAIS ..... 15
    - Activities ..... 15
  - Results ..... 15
    - AfricaFertilizer (AFO) ..... 16
    - Activities ..... 16
  - Results ..... 16
    - World Soil Day ..... 17
    - Organisation open doors to celebrate IFDC's 19th anniversary in Burkina. .... 17
    - Team building/ Cocktail de fin d'année. .... 17
- 4. Other IFDC activities/Participation of IFDC in external activities ..... 17

5. IFDC investments in December 31, 2022.....18  
 6. Conclusion and Outlook .....20

## LIST OF FIGURES & TABLES

Figure 1. IFDC 2020-2030 Strategy to Feed the World..... 7  
 Figure 2. 2SCALE’s active partnerships in Burkina Faso in 2022 ..... 11  
 Figure 4. Testimony of ZEBRE MOUMOUNI, endogenous rice industry coach in Bama ..... 12  
 Figure 3. Key results of the 2SCALE program in Burkina Faso in 2022 ..... 12  
 Figure 6. Testimony of DJIBILA Yamba Salam, peanut producer from the grassroots PO Wend lamita Coopérative CAP-YAKO, Commune de Bagare, Région du Nord ..... 13  
 Figure 5. Key results of PACTE/PIPATA project in Burkina Faso in 2022 ..... 13  
 Figure 7. Key results of the PACTE/2PATM project in Burkina Faso in 2022..... 14  
 Tableau 5. ....Summary of IFD Investments from 1st January to 31 December 2022..... 18

## ACRONYMS & ABBREVIATIONS

2SCALE	Toward Sustainable Clusters in Agribusiness through Learning in Entrepreneurship
ABC	Agribusiness cluster
AFDR	Association Formation Développement Ruralité
AFO	Africa Fertiler Og
AGNU	United Nations General Assembly
AGRA	Alliance for Green Revolution
AJVVC	Association des Jeunes pour la Valorisation du Coton (Youth Association for Cotton Development)
APMR	Association Promo Monde Rural
APNI	African Institute of Plant Nutrition
WITH	Village Savings and Credit Association
BMC	Business Model Caneva
BoP	Base of the Pyramid
BoPInc	Base the Pyramid innovation Center
B2B	Business to Business
BUNASOL	Bureau National des Sols
C4CP	Country 4 Cotton Partnership
CAGEF	Family Farm Management Support Center
CAIMA	Central Purchasing Office for Agricultural Inputs and Equipment
CAP/Yako	Coopérative Agricole du Passoré
ECOWAS	Economic Community of West African States
CILSS	Permanent Inter-State Committee for West Africa
Covid 19	Coronavirus disease 2019
CFA	French colonies in Africa
CSA	Climate Smart Agriculture
DGIS	Directoraat Generaal Internationale Samewerking
EnGRAIS	Enhancing Growth through Regional Agricultural Input Systems
EKN	Embassy of Kingdom of the Netherlands
E-voucher	Electronic voucher
FAG	Federal Attorney Fenral
FeSERWAM	Fertilizer and Seed Recommendations Map for West Africa
Feed the Future (Fertilizer)	Stimulating growth through regional agricultural input systems” - (Fertilizers) in West Africa
GFSS	Global Food Security Strategy
GRN	Natural Resources Management
GTTE	Fertilizer Technical Working Group
GIFS	Integrated Soil Fertility Management
GIZ	German Technical Cooperation
GTTE	Technical working group on fertilizers
Ha	Hectare
IEM	Infrastructure and Merchant Equipment

IFDC .....	International Fertilizer Development Center
INERA .....	Institute for the Environment and Agricultural Research
IITA .....	International Institute of Tropical Agriculture
JPO .....	Open doors
MARAH .....	Ministry of Agriculture, Animal Resources and Fisheries
MSD .....	Market System Development
MIR + .....	Marketing input regionally
MoU .....	Memorandum of Understanding
MPME .....	Micro, small and medium-sized enterprises
NPK .....	Nitrogen, Phosphorus and Potassium
OHADA .....	Organization for the Harmonization of Business Law in Africa
OPA .....	Organization of agricultural producers
OYE .....	Opportunity for youth employment
PEA .....	Pôle d'Entreprise Agricole
PIA .....	Agricultural Input Package
SMES .....	Small and Medium-sized Enterprises
PPP .....	Public-private partnerships
PACTE/2PATM .....	Contract farming and ecological transition project / agro-ecological production and corn processing project
PACTE/PIPATA .....	Contract farming and ecological transition project / Project to intensify agro-ecological production and processing of groundnuts
PAM .....	World Food Programme
PAMEFA .....	Program to support the modernization of family farms - agricultural inputs component
PAPAPE	
/	
SAPEP .....	Program to Improve Smallholder Agricultural Productivity in Sub-Saharan Africa
Smallholders Agricultural Productivity Enhancement Program	
	Small and medium-sized companies
	United Nations Development Programme
	National Food and Nutritional Security Policy
	Public-private partnership
	Deep Urea Placement
SAE .....	Entrepreneurial support structures
SAPEP .....	Smallholder agricultural productivity improvement program in sub-saharan africa
SPA .....	Supportive Partnership Agreement
SFD .....	Decentralized financing structures
SIFT .....	Information and technical training system
SIM .....	Market Information System
SITRAC .....	Société industrielle pour la transformation et la commercialisation des céréales (Industrial company for the processing and marketing of cereals)
SNPEF .....	National Strategy for the Promotion of Women's Entrepreneurship
SNPEJ .....	National Strategy for the Promotion of Youth Entrepreneurship
SSA .....	Sub-Saharan Africa
TAAT .....	Technologies for African Agricultural Transformation
TDL .....	Local Development Tax
TPE .....	Very Small Enterprises
UEMOA .....	West African Economic and Monetary Union
UGPCCN .....	Union des Groupements Paysans de Commercialisation de Céréales du Namentenga
UII .....	Universal Impact Indicator
UNPS .....	Union Nationale des Producteurs de Soja
UPL .....	United Phosphorus Limited
UR-SCOOP-CA-PA-CES	Union Régionale des Sociétés coopératives avec Conseil d'Administrations des Producteurs d'Arachide du Centre Est
URCEAB .....	Union Régionale des Sociétés Coopératives des Entrepreneurs Agricoles de la Boucle du Mouhoun
URSCOOP/CPA .....	Association Vanoussan de Sayaro and Union Régionale des Sociétés Coopératives de Commercialisation des Produits Agricoles de la Boucle du Mouhoun
USAID .....	United States Agency for International Development
WACoFee .....	West African Fertilizer Control Committee
WAFBIG .....	West Africa Fertilizer Business Information Guide

# VISION

## VISION OF HENK, PRESIDENT & CEO OF IFDC

On January 1, 2023, Henk van Duijn was installed as the new President and CEO of IFDC. Henk's vision is: "One mission, one team" with the ambition to return to the center court of IFDC's expertise areas while building on IFDC's strategy 2020 - 2030.

To help address the challenges facing global food systems, IFDC has developed its Strategy 2020-2030, which outlines four pillars of its work: (1) *developing better technologies*, (2) *catalyzing agricultural productivity*, (3) *strengthening markets*, and (4) *enabling impact*.

*"Under my leadership, in the coming years, the four pillars of our strategy will strengthen the core of IFDC's research and interventions. Together, the four pillars of our work will help farmers improve the health of their soils, agricultural productivity, and household incomes, thereby contributing to the food security and economic development of their villages, their nations, and the world."* Henk van Duijn

Henk brings a philosophy of soil health as the basis of a holistic to agricultural development. The realization of this vision will be achieved through staff and capacity development, special projects, the establishment of a Fertilizer and Soil Health Innovation center, and broad-based consulting services.

With the leadership of Henk van Duijn, IFDC wants to return to the forefront of soil health and fertilizer worldwide in the next 3 to 5 years.

*"IFDC will intensify its efforts to find solutions to future challenges through research on soil fertility and nutrient use efficiency. We have the knowledge and expertise to make a significant impact in sub-Saharan Africa, where soil nutrient depletion, both natural and human-induced, is an ongoing challenge."*

Henk van Duijn,  
President & CEO of IFDC





## WORDS FROM IFDC COUNTRY DIRECTOR



“

*More than 242,000 people were directly affected by IFDC interventions in Burkina Faso in 2022. Almost 500 million CFA francs were invested in Burkina Faso in 2022 through the implementation of IFDC's various projects and programs.*

”

Dear partners,

It gives me great pleasure, on behalf of the entire IFDC team in Burkina Faso, to present you with the 2022 annual report on these activities. Thank you for your interest in our organization and its work in Burkina Faso.

The year 2022 was a year of great achievements for IFDC in Burkina Faso, despite the COVID19 and above all security contingencies.

More than 242,000 people have been directly affected by IFDC interventions in 2022 in Burkina Faso in the fields of integrated soil fertility management, development of the seed and fertilizer sector, improvement of agricultural productivity, market access, professionalization of actors, promotion of technologies, and so on.

Almost 500 million CFA francs were invested in Burkina Faso in 2022 through the implementation of various IFDC projects and programs.

I would therefore like to take this opportunity to express my deep gratitude to the backers of our current projects and programs: DGIS, EU (AFD-KFW), ECOWAS and UEMOA. Thank you for your continued trust.

I would also like to thank all the IFDC staff in Burkina Faso, who have worked so hard to achieve these results and improve the living conditions of those involved in the agricultural sector.

We would also like to extend our special thanks to the Government of Burkina Faso through the Ministry of Agriculture, Animal Resources and Fisheries (MARAH) and the Ministry of Higher Education, Research and Innovation (MESRI) for their unfailing collaboration in our 2022 activities. We would be remiss if we didn't thank all our partners for their support and their daily commitment to achieving our objectives.

I would therefore like to invite you to read and become acquainted with the contents of this report, which presents the various actions and interventions of IFDC in Burkina Faso during the year 2022.

Thank you very much

# 1. Introduction

IFDC (International Fertilizer Development Center), founded in 1974 and based in Alabama, USA, is an international public institution working for food security and poverty reduction in developing countries through the development and dissemination of efficient soil fertility management technologies, and the development of agricultural input and output markets. IFDC is recognized as a global center of excellence, with offices coordinating the implementation of activities in several countries in North and West Africa, East and Southern Africa and Asia. IFDC uniquely addresses global issues of food security and poverty by bridging the gap between research and impact, combining science-based innovation, holistic market

systems development, an enabling policy environment and strategic partnerships to help farmers and countries identify and scale up sustainable agricultural solutions, including improved nutrient use efficiency. These approaches are needed to boost soil health and crop productivity while reducing the environmental impact of fertilizer use. IFDC translates research into action using local, environmentally friendly and impact-oriented solutions. Together with our partners, we seek to close the yield gap, eradicate world hunger, safeguard the soils on which our lives depend, and generate economic resilience for farm households and the countries in which they live.

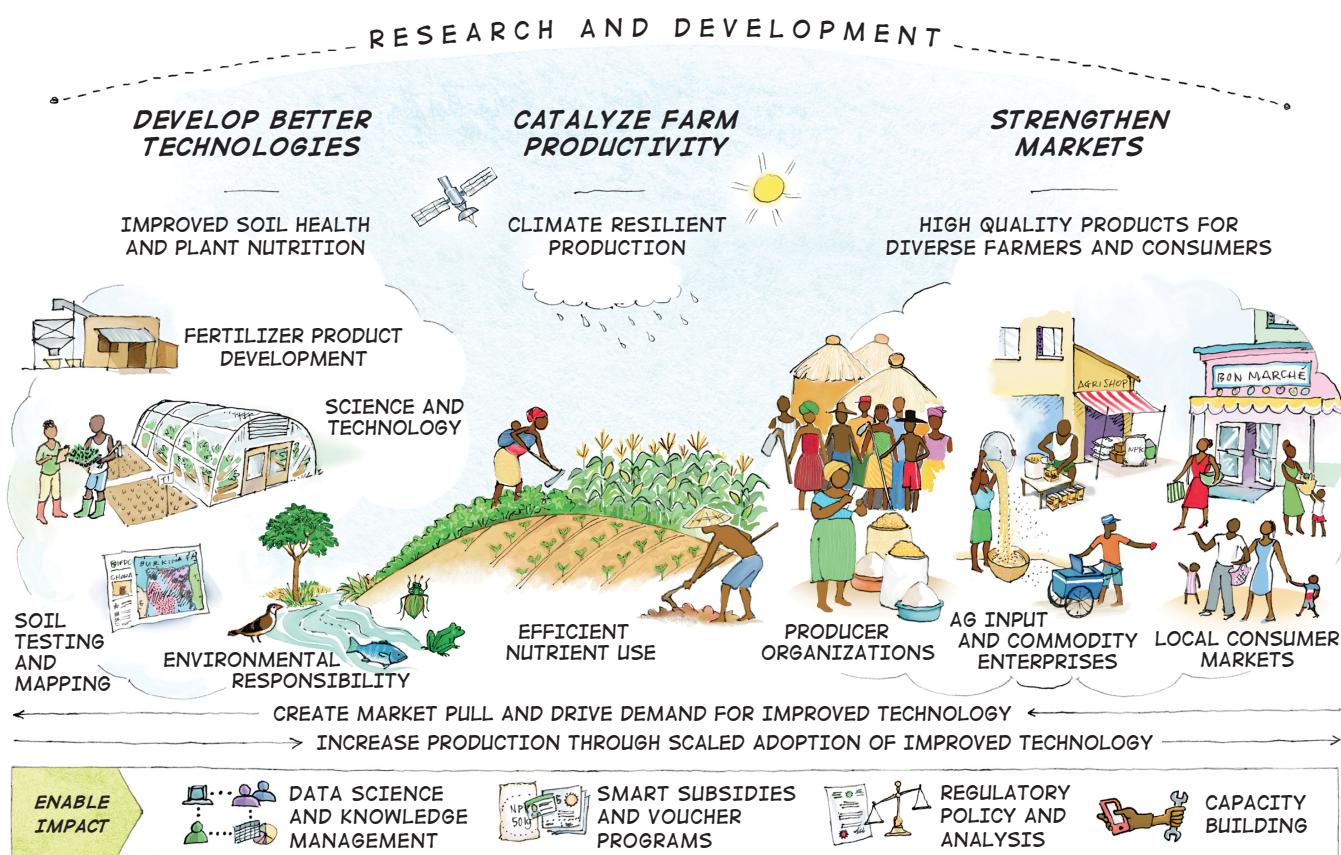


FIGURE 1. IFDC 2020-2030 Strategy to Feed the World

## Brief presentation of Burkina Faso: Soil conditions and fertilizer situation

### Soil conditions in Burkina Faso

According to BUNASOL (Bureau National des Sols), there are 9 classes of soil in Burkina Faso. Despite good fertility in some regions, the majority of the country's soils are affected by increased and progressive salinization, which in turn is the primary cause of desertification, erosion, degradation and reduced biodiversity (MAAH, 2021). Arable land in Burkina Faso occupies 17.7% of the country's total surface area, i.e. some 9 million ha, of which 3 million ha are currently

farmed (World Bank, 2008). This is exploitable land for agricultural production. These soils are characterized by their mineral poverty. Total nitrogen content is less than 0.06% in 71% of soils, and nearly 93% of soils have an assimilable phosphorus content of less than 30 mg/kg. Exchangeable potassium content is also very low. According to a joint UNDP-FAG study (2008), soil organic matter content is below 1% for 55% of soils surveyed, between 1% and 2% for 29% of soils, and above 2% for only 16% of soils. Around 10% of soils have a pH below 5, 60% between 5 and 6 and 30%

above 6.

There are 8 main soil types in Burkina Faso (French classification). These are Soils with iron and manganese sesquioxides (39%), made up of the subclass of ferruginous soils or lixisols (FAG classification); Soils with little erosion (26%); Brown soils (6% with cases of hydromorphy); Vertisols (6%), which are soils that are difficult to work with traditional methods because they are too heavy when wet and hard when dry; Ferralitic soils (2%), with a coarse texture and low water reserve; Hydromorphic soils (13%); The class of sodic or salsodic soils (5%), characterized by soil mass build-up and a tendency to alkalinization; Crude mineral soils and halomorphous soils (3%), of virtually no agronomic interest, but which can be used for grazing. At present, yields are stagnant or falling due to the decline in soil fertility in Burkina Faso.

### Fertilizer situation in the country

In Burkina Faso, as in all Sahelian countries, rising fertilizer prices are a reality, and a direct result of the lack of global supply. This rise is the result of a number of factors, including import restrictions due to COVID-19, political instability, the Russo-Ukrainian crisis, and rising prices for natural gas, crude oil and shipping costs. The

increase in transport costs is reflected in the price of raw materials and fertilizers, which represents on average 15-20% of the total cost of foodstuffs in the region. At the start of the 2022 winter season, the price of a 50 kg bag of urea was between 35,000 F and 37,000 F, depending on the locality, and the price of NPK 15-15-15 was between 30,000 Fcfa and 32,500 Fcfa, out of an estimated requirement of 211,856 tonnes (t) of NPK and 79,376 t of urea, according to forecasts by the Ministry of Agriculture.

In May 2022, the price of urea rose by 106% compared with the average for the last five years. As for subsidized fertilizers for cereals and cotton, the government has disbursed an envelope of 72.8 billion Fcfa (\$117 million) to subsidize inputs for the 2022/2023 cotton season. This public support enabled producers to purchase 50 kg bags of NPK fertilizer and urea at a price of 16,000 Fcfa, compared with 35,000 Fcfa and 37,000 Fcfa respectively without the subsidy. To better manage the subsidy, in June 2020 the government set up the Centrale d'Achat des Intrants et Matériels Agricoles (CAIMA), which brings together the government and producers' associations, with the mission of "helping to ensure the country's regular supply of agricultural inputs and materials, in terms of both quantity and quality, at a competitive price".

## A brief history of IFDC's work in Burkina Faso

IFDC has been operating in Burkina Faso since 1996, working to bring together innovative research, market expertise and strategic partners from the public and private sectors to scale up sustainable solutions for soil, plant nutrition for the benefit of farmers. IFDC officially opened its country office in Burkina Faso in 2003 under a memorandum of understanding amended in 2017 by a headquarters agreement with the Burkinabè government. IFDC's interventions in Burkina have focused on the one hand on support for the fertilizer sector, the reconstruction of degraded and nutrient-depleted soils, soil fertility management, the adoption of deep urea placement and the use of local natural phosphates. On the other hand, this support has revolved around (i) the adoption of digital technologies focused on market information, weather and pest forecasts; (ii) the strengthening of agribusiness and the development of agricultural value chains; (iii) crop and business management advice; (iv) and finally the empowerment of women and young people.

In the 26 years it has been operating in Burkina Faso, IFDC has implemented some twenty national and regional projects and programs, strengthening its capacity and skills to support agricultural actors. These include the Toward Sustainable Clusters in Agribusiness through Learning in Entrepreneurship program (2SCALE), the agro-ecological production and processing of maize project (PACTE/2PATM), and the intensification of agro-ecological production and processing of groundnuts project (PACTE/PIPATA), Programme d'appui à la modernisation

des exploitations familiales-volet intrants agricoles (PAMEFA), FeeD the Future "stimulating growth through regional agricultural input systems" - (Fertilizers) in West Africa, technologies for the transformation of African agriculture (TAAT) - soil fertility enabler compact, Smallholder agricultural productivity improvement program in sub-saharan africa (SAPEP); Marketing input regionally (MIR+), etc.

IFDC also promotes apprenticeships for young people by regularly welcoming interns from public and private universities to its administrative and technical departments for their professional training.

IFDC is now active in Burkina Faso under the leadership of Country Director Mr. Moussa Dionou since November 1, 2022.

The office team consists of :

- ✓ A staff of 14, including those responsible for monitoring field activities, as well as administrative staff responsible for the day-to-day management of activities, with gender parity (young people and women).
- ✓ A head office based in the 2000 district of Ouagadougou, and satellite offices in the provinces of Dédougou and Tenkodogo to bring IFDC closer to its beneficiary partners.

This report provides an overview of IFDC's operations in Burkina Faso for the year 2022, the related investments, the alignment of activities with the Government's agricultural policy and the major results achieved.

## 2. IFDC's Current Activities in Burkina Faso

### Mission

With a view to contributing to rural development in developing countries, IFDC's mission is to develop, through a combination of innovative research, agricultural market expertise and strategic public-private partnerships, sustainable technologies for managing soil fertility and increasing agricultural productivity, which improve the income and well-being of both producers and entrepreneurs, while preserving the environment and natural resources.

### Objectives of projects and programs implemented in 2022

IFDC Burkina Faso is currently implementing three (3) projects and programs, including: (i) the development of agricultural chains and market systems to facilitate producers' access to the agricultural and financial services needed to improve their productivity, (ii) the sustainable increase in productivity of quality groundnuts respecting aflatoxin content standards and improving the availability of groundnut-based food products for all, and, (iii) improving the productivity of producers through agro-ecological intensification, their professionalization on contract farming in the corn sector.

### 2SCALE

2SCALE's overall objective is to contribute to food and nutrition security, sustainable and inclusive economic growth, and stability in Africa, through public-private partnerships that incubate and accelerate inclusive business models in the agricultural sector.

### PIPATA

The overall objective of PIPATA is to contribute to a sustainable increase in the productivity of aflatoxin-free quality groundnuts and to the production of quality therapeutic foods to combat malnutrition in Burkina Faso.

Specifically, the aim is to (i) build the capacity of peanut producers through intensive agro-ecological techniques, (ii) ensure the local supply of quality peanuts to InnoFaso, (iii) increase InnoFaso's production and marketing of nutritious, enriched peanut-based food products.

### 2PATM

The overall aim of 2PATM is to help meet the needs of the SITRAC plant for quality maize through the professionalization of stakeholders, agro-ecological intensification and contract farming.

Specifically, the aim is to (i) improve maize productivity through agro-ecological intensification; (ii) professionalize target stakeholders through contract farming; and (iii) improve SITRAC's processing and marketing capacity.

### EnGRAIS

The Feed the Future Enhancing Growth through Regional Agricultural Input Systems (EnGRAIS) project for West Africa is a five-year project funded by the U.S. Agency for International Development that seeks to address critical issues limiting the effective supply and use of agricultural inputs in West Africa. EnGRAIS aims to bring about strong, positive and sustainable change to improve farmers' availability and access to appropriate, affordable and quality agricultural inputs. EnGRAIS works primarily with Regional Economic Communities, notably the Economic Community of West African States and the West African Economic and Monetary Union, as well as with public and private actors in the fertilizer value chain in the region, to create the tools and environment necessary for farmers to increase their productivity.

The EnGrais project aims to contribute to improved sustainable agricultural productivity and inclusive growth for the people of West Africa.

Strategic objective: To sustainably increase the regional availability and use of appropriate fertilizers at affordable prices.

### AfricaFertilizer (AFO)

AFO's objective is to :

- ✓ Provide reliable, accurate and timely fertilizer data and information for fertilizer market information systems in Sub-Saharan Africa (SSA).
- ✓ Enlighten and encourage the fertilizer market in Sub-Saharan Africa to promote interest in investments aimed at strengthening the industry.

### Link with the country's agricultural policy

Through the approaches adopted by IFDC in the implementation of its projects and programs, notably the development of market systems, inclusive financing models and the development of Agricultural Enterprise Poles (PEA), it contributes fundamentally to the achievement of three key objectives, in line with the "Second National Economic and Social Development Plan (PNDES II of 2021-2025)" and the policy of the Ministry of Agriculture, Animal Resources and Fisheries, namely: (i) to enhance the value of local products in order to improve producers' incomes and encourage local consumption of healthy products, (ii) to ensure the food and nutritional security of the population (iii) to enable a long-term sustainable agricultural development model, based on family farms.

### 2SCALE

2SCALE uses public-private partnerships (PPPs) to contribute to food and nutrition security, sustainable and inclusive economic growth, and stability, which is perfectly aligned with the country's development

policies, namely: (i) the Politique Nationale de Sécurité Alimentaire et Nutritionnelle (PNSAN); (ii) Stratégie Nationale de Promotion de l'Entrepreneuriat Féminin (SNPEF), (iii) Stratégie Nationale de Promotion de l'Entrepreneuriat des Jeunes (SNPEJ).

2SCALE in Burkina Faso operates in 4 strategic agricultural product groups, in line with government policy on strategies to improve people's incomes. These groups are :

1. Basic products/vegetables
2. Fresh produce/horticultural products
3. Oilseeds & pulses
4. Milk and animal proteins

### PIPATA

For PIPATA, the problem of access to healthy food in sufficient quantity for the population is an acute one in Burkina Faso.

Faced with recurring food crises, and aware that the development of both individual Burkinabè and communities as a whole depends on good food security, PIPATA has focused on actions dictated by Burkina Faso's National Food and Nutritional Security Policy (PNSAN). This serves as a frame of reference and orientation for all actors involved in the fight against poverty and malnutrition, and in achieving sustainable food security in Burkina Faso.

The PIPATA project, whose aim is to contribute to a sustainable increase in the productivity of aflatoxin-free quality groundnuts and the production of quality therapeutic foods, is therefore reinforcing efforts to combat malnutrition in Burkina Faso.

### 2PATM

On the political front, several strategic policy documents have been drawn up with a view to boosting corn production and processing. The National Economic and Social Development Plan (PNDES II) and various ministerial decrees support the consumption of local products, particularly maize.

2PATM is perfectly in line with the process of agricultural modernization promoted by the country's authorities. Through this project, several actions are being implemented to support producers' access to suitable inputs, the best production techniques and aflatoxin management. These actions contribute to increasing the supply of maize for human consumption, livestock farming and the incomes of actors in the value chain. The processing of maize into flour, couscous, semolina and grits, as practiced by SITRAC and supported by 2PATM, is also in line with the government's overall vision of boosting the processing of local products in order to increase their added value.

### EnGRAIS

The Feed the Future Enhancing Growth through Regional Agricultural Input Systems (EnGRAIS) project for West Africa is a five-year USAID-funded project for West Africa that aims to address critical issues limiting the efficient supply and use of agricultural inputs in West Africa. EnGRAIS is expected to bring about strong, positive and sustainable changes to improve farmers' availability and access to appropriate, affordable and quality agricultural inputs. EnGRAIS works primarily with the Regional Economic Communities, including ECOWAS and UEMOA, and the region's public and private sector fertilizer value chain actors, to create the tools and environment necessary for agricultural value chain actors to do their jobs better and increase the productivity of the region's farmers. These objectives are in line with the National Food and Nutritional Security Policy of Burkina Faso, which is a member of WAEMU and ECOWAS.

### AfricaFertilizer (AFO)

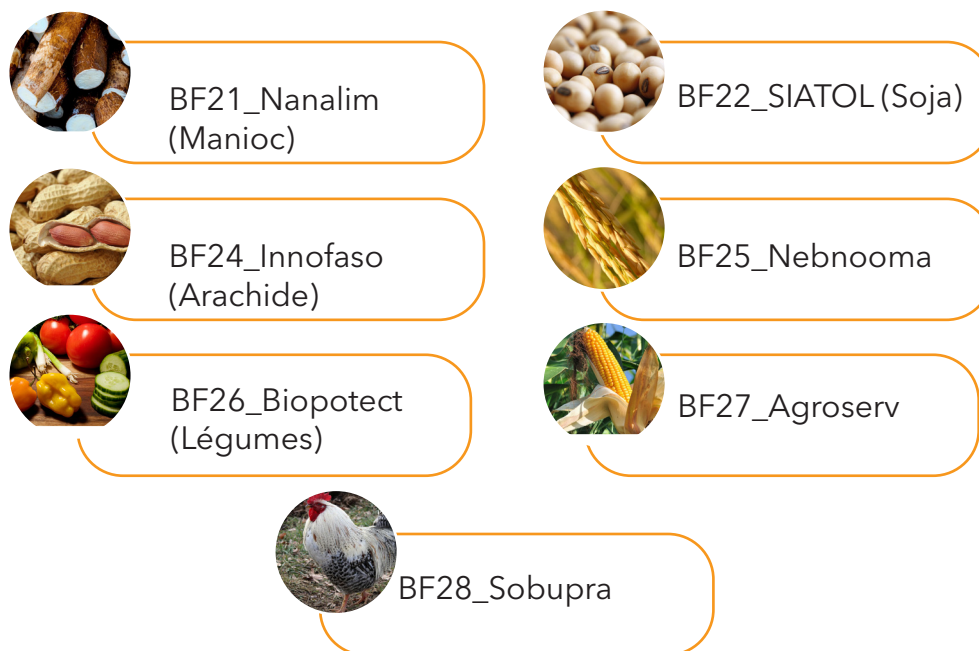
AfricaFertilizer (AFO) is an initiative launched in 2009 by IFDC, following the 2006 Abuja Declaration to increase fertilizer use levels in Africa from 8 kg/ha to at least 50 kg/ha by 2015. AFO's mandate is to provide reliable, accurate and timely fertilizer data and information to feed the fertilizer market information system in over 18 Sub-Saharan African (SSA) countries, including Burkina Faso. These objectives are in line with the country's National Food and Nutritional Security Policy.

## 3. Activités principales en 2022 et résultats

### 2SCALE

#### Activities

2SCALE is a program that relies on public-private partnerships to implement its activities. The partnerships active in Burkina Faso in 2022 are :



**FIGURE 2.** 2SCALE's active partnerships in Burkina Faso in 2022

During 2022, changes in political regimes and growing insecurity in some regions were major constraints on the implementation of program activities in Burkina Faso. Nevertheless, the following relevant activities were carried out:

- ✓ Preparation and validation of 7 annual action plans and partnership budgets;
  - ✓ Organization and holding of various training courses (training of staff and support services on the ABC clusters strategy and the implementation of AVEC, gender and youth approaches, business relations and market access, business relations retention, etc.);
  - ✓ Ongoing capacity-building for actors in all sectors;
  - ✓ The development of implementation plans idea of systemic change in the poultry and vegetable sectors;
  - ✓ Writing replication cases to inspire impact creation;
  - ✓ The production of video "encyclopaedias" of partnerships for capitalization ;
  - ✓ Preparation of the PPP exit strategy.
- » 2SCALE's activities revolve around various themes, most of which have been translated into indicators, namely: BOP marketing, small-scale producers and their access to various services, green innovations, gender and youth inclusion, and financial inclusion. Thus: In terms of BoP marketing and distribution, a total of eight (8) new product formulas in the cassava value chain have been developed by the partnership to reach more BoP consumers. In the peanut sector, peanut paste and peanut spread have been developed to reach more BoP consumers. In the corn and rice sectors, new products such as semolina and rice couscous, as well as small-scale packaging, have also been developed to make the products more accessible to all.
- » In the area of agri-food cluster training and access to inputs and services, the major activities include training staff and coaches on the PEA training and development strategy, recruiting a consultant to help implement PEA activities, and recruiting an ABC specialist.
  - » With regard to the theme of inclusive green innovations in the value chain system, several innovative technologies and products have been introduced and tested in partnerships. These included the scaling-up and introduction of new varieties of maize, cassava and peanut seeds, as well as organic fertilizers, polyter (a natural hydro-retainer), aflasafe to reduce aflatoxin levels in produce, etc.
  - » With regard to women's economic empowerment, training courses have been organized on the AYA strategy, the concepts of gender, gender equality, equality and equity, and the importance for all of promoting gender equality. These training sessions resulted in methods being taught to trainers, SAEs (entrepreneurial support services) and partnership facilitators on the identification and inclusion of young people.
  - » With regard to the inclusion of young people, several training sessions and follow-up meetings have been organized on the themes of access to financing, start-up capital and targeting employment opportunities for young people in value chains. In addition, to promote youth as an asset for business, young agrisprenuers are reinforced on the OYE (Push-Match-Pull) strategy and life skills, and linked with partnerships to create sustainable opportunities

for all parties.

- » With regard to financial inclusion, the key activities of the period were to facilitate access to financial services for small producers, MSMEs and SMEs, and to draw up and sign a collaboration protocol with CARE Burkina Faso. Training producer groups in the tools and operation of Village Savings and Credit Associations (AVEC/VSLA).
- » With regard to the replication event, 2SCALE organized the commemoration of its tenth anniversary to share its successful experiences of inclusive business models with a wider audience. This replication event was based on proven and documented business models and practices. Burkina Faso had a list of 5 cases to present.

### Results

Despite the many challenges mentioned above, 2SCALE has enabled vulnerable communities to continue to consolidate and increase their capacity for inclusion in value chains, and to develop strategies

for resilience to the negative consequences of climate change. The cumulative results achieved by 2022 are:

- » Improved access to nutritious food for 107,379 low-income consumers (target for Burkina Faso is 100,000);
- » Improving the livelihoods of 94,616 out of 95,000 small-scale farmers by integrating them into value chains in order to sustainably improve their productivity and increase their income (42% of whom are women and 29% young people);
- » The inclusion of 945 MSMEs out of a target of 630 in inclusive value chains and the creation of 1,091 out of 2,500 jobs (more than half of which are held by young people and women);
- » 41,518 ha out of a target of 52,000 ha of eco-efficient production, i.e. a 79.84% completion rate;
- » The mobilization of 3,715,802 euros by companies as the value of financial services;
- » The introduction of 24 off-farm innovations out of the 5 announced have been deployed.

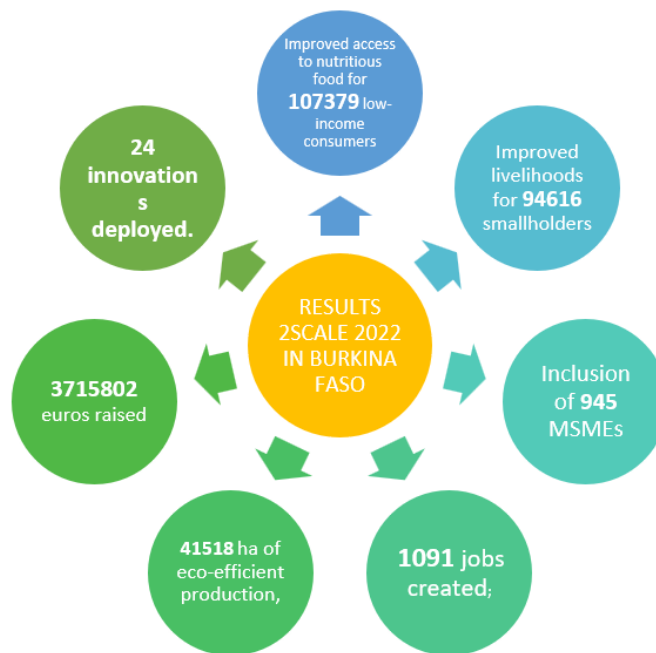



FIGURE 3. Key results of the 2SCALE program in Burkina Faso in 2022

*"Thanks to 2SCALE, we young people from Bama, a town located 31 km from Bobo Dioulasso, the economic capital of Burkina Faso, have been able to carry out several activities. I became an endogenous coach within my organization, with whom we opened an account and deposited a sum of 250,000 Fcfa thanks to membership fees. This enabled us to pay the costs of obtaining approval for our group and to obtain a bank loan of 2,000,000 FCFA to cover our campaign needs in the rainy season. 2SCALE also helped us to set up meetings twice a month as one of the ways of managing our concerted efforts. It's an idea that I approve of and think is good for our commune. I would like to thank the members of 2SCALE and other stakeholders, and especially Mr. Drissa Sangaré, facilitator of the rice value chain".*






FIGURE 4. Testimony of ZEBRE MOUMOUNI, endogenous rice industry coach in Bama

## PIPATA

### Activities

The main activities carried out under PIPATA in 2022 are :

- ✓ Production capacity building, particularly in agro-ecological practices to boost productivity and improve the quality required by InnoFaso;
- ✓ Capacity-building on contractualization to set up a sustainable contractual dynamic guaranteeing the market for sellers and the supply of raw materials for buyers on the local market;
- ✓ Equipping sales staff with harvest and post-harvest management equipment (huskers, thermohygrometers, scales, etc.);
- ✓ Installation of a security access device for the buyer;
- ✓ Production of communication tools (plaques, kakemonos, stickers and flyers) to raise the project's profile.

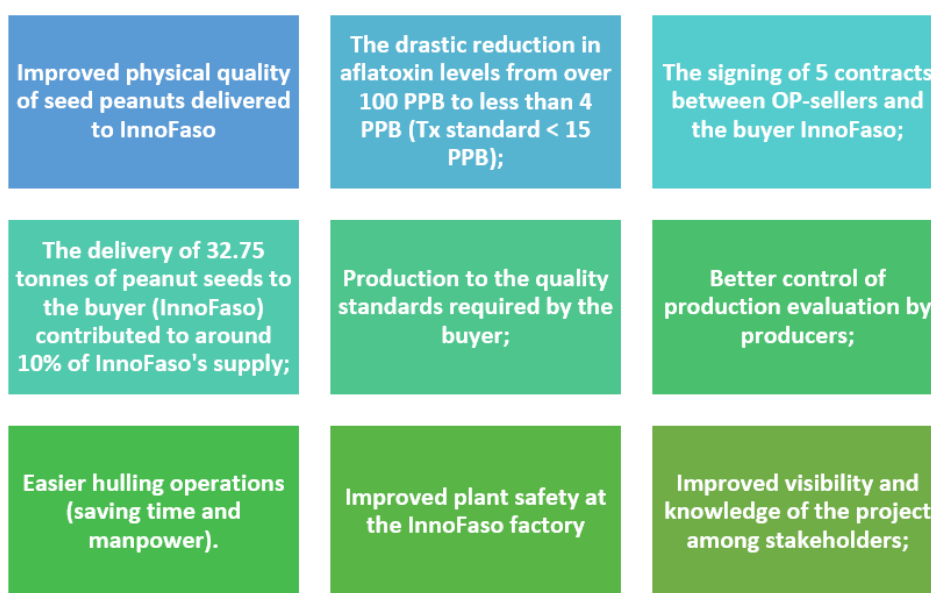
### Results

Several activities have been implemented for the benefit of direct beneficiaries: the Association Formation Développement Ruralité (AFDR), the Association Promo Monde Rural (APMR), the Coopérative Agricole du Passoré (CAP/Yako), l'Union des Groupements Paysans de Commercialisation de Céréales du Namentenga (UGPCCN), L'Union Régionale des Sociétés coopératives avec Conseil d'Administrations des Producteurs d'Arachide du Centre Est, dénommée "Woum-taaba" (UR-SCOOP-CA-PA-CES).

In terms of capacity-building, all the planned targets have been reached, i.e. 42 endogenous animators and 3133 producers trained in the various agro-ecological production and contract farming themes.

In terms of support for the acquisition of harvesting and post-harvest processing equipment, 5 hullers, 5 weighing machines and 5 thermohygrometers have been purchased for the benefit of the producer-vendors.

These various forms of support have improved the vendors' production performance in terms of productivity and quality. These include:



**FIGURE 5.** Key results of PACTE/PIPATA project in Burkina Faso in 2022

*"I used to use local seed. Since the support provided by the project on the importance of using improved seed and compost, I have opted to use improved varieties QH243C and SH470P and to apply compost to my plots. This enabled me to increase my yield from 600-700kg/ha to 1100kg/ha. In view of these results, I decided to produce improved seed to sell to other growers".*

**FIGURE 6.** Testimony of DJIBILA Yamba Salam, peanut producer from the grassroots PO Wend lamita Coopérative CAP-YAKO, Commune de Bagare, Région du Nord

## 2PATM

### Activities

Several activities have been implemented for the benefit of direct beneficiaries: 4 vendors or Agricultural Producers' Organizations (OPA) (Centre d'Appui à la Gestion des Exploitations Familiales «Bwawesé» (CAGEF), Union Régionale des Sociétés Coopératives des Entrepreneurs Agricoles de la Boucle du Mouhoun (URCEAB), Association Vanoussan de Sayaro and Union Régionale des Sociétés Coopératives de Commercialisation des Produits Agricoles de la Boucle du Mouhoun (URSCOOP/CPA)) and the buyer SITRAC.

For the year 2022, the activities carried out are :

- » Training of endogenous animators and producers from the 4 agricultural producer organizations (OPA) in intensive agro-ecological techniques, aflatoxin control techniques, harvest and post-harvest management, product standards and quality in line with SITRAC specifications, contract farming, seed traceability from the field to the SITRAC factory, cooperative life in relation to the OHADA Uniform Act, management, planning, programming of activities, financial education and yield evaluation techniques to anticipate negotiations with SITRAC;
- » Strengthening the technical capacities of the monitoring and evaluation coordinators, so that they can contribute to capitalizing on the project's achievements. These facilitators have carried out several technical advisory and monitoring visits to producers;
- » Linking farmers' organizations with financial institutions and agricultural input suppliers to facilitate their access to agricultural inputs and equipment;

- » A workshop was held to review and plan the campaign, followed by the signing of contracts for 4,780 tonnes of maize for the 2022/2023 campaign;
- » Production of communication tools (plaques, kakemonos, stickers and flyers) to increase the project's visibility;
- » Organization of the KFW visit and several SOFRECO field missions. These visits are part of the general monitoring of projects and coaching of actors.
- » The holding of two governance meetings within the project to strengthen trust and partnership links between the OPAs and SITRAC.

### Results

After a full year of implementation in 2022, encouraging results have been achieved. 24 facilitators and over 600 producers have mastered new corn production techniques integrating agroecological practices. Despite soaring fertilizer prices, the network of producers was able to mobilize sufficient quantities of the inputs needed for production. Funds were raised from financial institutions (Caisses populaires and Coris Bank) to support the purchase of inputs. A total of 623.58 tonnes of fertilizer (NPK and urea) were purchased, against a forecast of 797.40 tonnes. A new variety of maize seed (SEMAX 5) was introduced to farms in partnership with SEMAFORT. Equipment was acquired for SITRAC and the OPAs (3 large tarpaulins, 200 pallets, 4 scales) to enable them to improve product quality. Two kake-monos, 5 visibility plaques and several dozen stickers and brochures were designed and distributed. In terms of agro-ecological practices, over 1,822 tonnes of compost were produced and used in the corn production plots. In addition, 5740 kg of aflasafe were used to combat aflatoxin biologically.

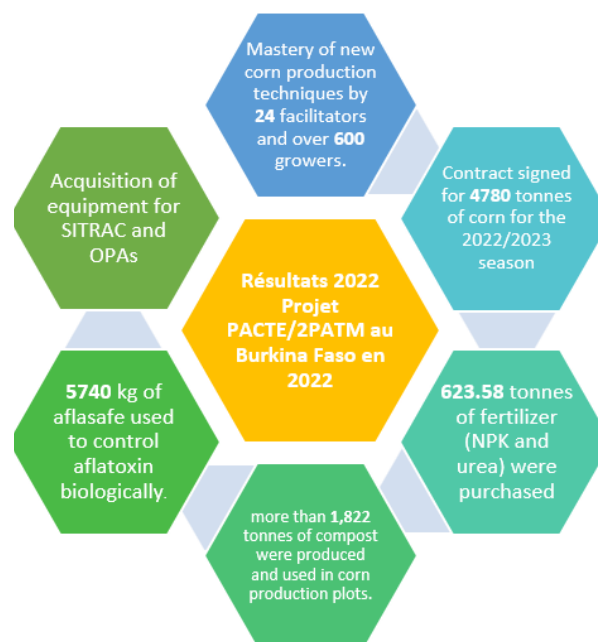


FIGURE 7. Key results of the PACTE/2PATM project in Burkina Faso in 2022



*The introduction of the new corn seed variety has been a success story. In fact, Semax 5 is a high-yielding hybrid that can reach over 12 tonnes/ha, compared with the average yield of existing varieties (5 tonnes/ha). More than 650 kg of Semax 5 seed were purchased by producers from the 4 OPAs, at a value of around 2,608,000 FCFA.*

*Feedback from growers and endogenous organizers has been very positive. SEMAFORT's technicians are also very satisfied with the first trials carried out by growers on their farms.*



## EnGRAIS

### Activities

In 2022, EnGRAIS published the revised version of the West Africa fertilizer and seed recommendation map and agricultural input packages (FeSeRWAM/PIA version 2.0) [www.feserwam.com](http://www.feserwam.com). INERA researchers and other stakeholders in Burkina Faso were actively involved in providing critical data and information to develop the platform. Following the launch, EnGRAIS organized training programs for key stakeholders in Burkina Faso, to equip extension agents, agro-dealers and local non-governmental organizations to support the tool's dissemination activities in the country to reach farmers in Burkina Faso.

In collaboration with PR-PICA, EnGRAIS trained national trainers from Burkina Faso's cotton-growing regions, who in turn conducted training programs at national and farmer level on the effective use of PIAs.

Thanks to collaboration between EnGRAIS, the African Institute of Plant Nutrition and the West African Fertilizer Association, actors in Burkina Faso's private fertilizer sector have been trained, among others, in the 4Rs principles for appropriate and responsible nutrient management, in particular fertilizer use.

In 2022, EnGRAIS officially released the new Fertilizer Bulk Blending Guide for West Africa. Actors in the Burkina Faso fertilizer value chain were actively involved throughout the development process, right up to the launch event. EnGRAIS worked with blenders in the region, including those in Mali, to gather information to develop the guide.

To improve access to knowledge on fertilizer costs along certain strategic corridors in West Africa, EnGRAIS has launched the new version of the West African Fertilizer Cost Simulator, together with all reports and fact sheets related to a cost accumulation study on which the Simulator was developed. The virtual launch event was attended by stakeholders in Burkina Faso. The Simulator provides information to guide the choice of ways to reduce fertilizer costs for farmers, including those in Burkina Faso.

The EnGRAIS project organized a virtual pre-consultation meeting on strengthening the regulatory capacity of the West African Fertilizer Control Committee (WACoFeC), attended by stakeholders from the Ministry of Agriculture, and discussed the readiness of ECOWAS member states, including Burkina Faso, to establish the WACoFeC to address the challenges associated with fertilizer quality control.

### Results

The FeSeRWAM platform meets the specific agro-ecological needs of Burkina Faso's farmers for appropriate fertilizers, improved seeds and good agronomic practices to increase their yields or even production.

Currently, EnGRAIS has developed 43 Burkina Faso-specific IAPs in a brochure to help farmers in Burkina Faso increase their productivity and improve their livelihoods.

The Burkina Faso stakeholders who took part in the Responsible Nutrient Management (4R) training acquired the skills needed to train and advise farmers on best management practices for fertilizer use.

The Bulk Fertilizer Blending Guide for West Africa tackles the challenges posed by poor fertilizer blending practices and harmonizes blending activities to align them with international standards that help blenders in Burkina Faso improve the quality of their fertilizers.

The cost simulator benefits all actors in the fertilizer supply chain, including those in Burkina Faso, as it is a free cost management tool for the supply, import, blending and trading of fertilizers in West Africa.

Over 500 copies (in French and English) of WAFBIG were printed and distributed across West Africa to provide advice, data and information to a range of stakeholders, including those in Burkina Faso, on fertilizer prices and the market crisis, and to update stakeholders on fertilizer trade and consumption.

Following the launch of FeSeRWAM version 2.0, EnGRAIS carried out FeSeRWAM dissemination activities in several countries, including Burkina Faso, and conducted training programs at national and

farmer level in Burkina Faso on the use of AIPs. The Burkina Faso-specific AIP brochure will guide farmers to correctly apply the recommendations and increase their productivity.

Because WACoFeC seeks to help the ECOWAS and UEMOA Commissions, as well as the CILSS Executive Secretariat, to implement ECOWAS Regulation C/REG.13/12/12, focusing on fertilizer quality control, stakeholders in Burkina Faso will benefit to develop an efficient fertilizer sector that will add value to agricultural productivity.

Thanks to the technical training on fertilizer inspection and quality control, delegates from Burkina Faso gained a good understanding of the key provisions of the ECOWAS regulation, fertilizer quality control, the different inspection modalities and their specific procedures. The delegates were also sufficiently equipped to train other fertilizer inspectors in Burkina Faso to improve fertilizer quality in the country.

## AfricaFertilizer (AFO)

### Activities

In response to current trends in the fertilizer sector in sub-Saharan Africa, in 2022 AfricaFertilizer.org changed its name to AfricaFertilizer and launched a redesigned AfricaFertilizer.org website, at a hybrid event in Nairobi, Kenya. Key actors in the Burkina Faso fertilizer value chain joined other stakeholders from sub-Saharan Africa and beyond to take part in the event.

AfricaFertilizer, in collaboration with national partners, organized the annual meetings of its Fertilizer Technical Working Groups (FTWG) in Burkina Faso. Each year, AFO brings together strategic national actors in the Burkina Faso fertilizer industry to discuss, validate and publish fertilizer trade and apparent consumption data.

Following the GTTE event in 2022, AFO has published an overview of national fertilizer statistics and results tables, which are summaries of discussions of data validated by the Fertilizer GTTE, to guide industry decision-making in Burkina Faso. The overview contains Burkina Faso's monthly fertilizer imports, production, apparent consumption, and comments from WGTE meeting participants.

AFO has collected and compiled information on fertilizer plants from fertilizer manufacturers, blenders and organic plant owners in sub-Saharan African countries, including Burkina Faso, and has published the 6th edition of the annual Fertilizer Plant Register, a product that presents the various fertilizer plants and their capacities throughout sub-Saharan Africa, with the

exception of South Africa. Burkina Faso's fertilizer plants have been duly listed in the register.

Throughout the nine months of 2022, AFO published its FertiNews, a monthly e-newsletter collecting fertilizer market news, price data, statistics and related information from across sub-Saharan Africa, and distributed it widely to various stakeholders, including those in Burkina Faso, which actors in the fertilizer supply chain used to make key decisions.

To provide a summary of information on Burkina Faso's trade data over a 10-year time series on fertilizer imports and apparent consumption, AFO has published the Burkina Faso Fertilizer Fact Sheet, which also gives an overview of Burkina Faso's fertilizer production, blending plant locations and crop calendar and seasons.

### Results

The redesigned AFO website provides in-depth data on fertilizer supply chains and availability in over 18 sub-Saharan African countries, which stakeholders in Burkina Faso can leverage to build their national fertilizer supply chain.

By taking part in the AFO launch and rebranding event, Burkina Faso's fertilizer sector actors seized the opportunity to keep abreast of developments in the sector across sub-Saharan Africa, to promote their individual work and to support the national fertilizer sector program.

The results of the AFO WGTT meeting in Burkina Faso have produced credible data and information on fertilizers that are essential for the Burkina Faso government and commercial companies to make informed decisions.

The fertilizer statistics and market commentaries produced and disseminated in AFO's electronic newsletter, FertiNews, kept key actors in Burkina Faso's fertilizer sector abreast of events on the continent, which they took advantage of in their day-to-day activities.

The inclusion of Burkina Faso's fertilizer plants and their capacities in the 6th edition of AFO's SSA Fertilizer Plant Register has the potential to generate interest in investing in fertilizer plants to increase fertilizer production in Burkina Faso.

AFO's 2022 fertilizer country fact sheet on Burkina Faso provides information on the country's trade data over a 10-year time series on fertilizer imports and apparent consumption, which stakeholders can use as a reference resource for their operations.

## 4. Other IFDC activities/Participation of IFDC in external activities



### World Soil Day

December 5 of each year has been chosen by the United Nations General Assembly, since December 2013 to celebrate World Soil Day. As usual, IFDC once again marked its presence at this ninth Soil Day by hosting a dedicated stand. The aim of the day's celebrations was to raise individual and collective awareness of the role played by soil in human life, and of the need to act in the face of the many threats to this vital resource. With this in mind, a panel discussion on the theme of "Soils, the source of food" was chaired by Mamadou TRAORE, Director General of the Bureau national des sols (BUNASOLS).

### Organisation open doors to celebrate IFDC's 19th anniversary in Burkina.

These open doors, held at IFDC's premises in Burkina on May 23 and 24, 2022, were presided over by the Minister of Agriculture, Animal Resources and Fisheries.

The 2-day event brought together the financial and technical partners who collaborate with IFDC through projects already implemented and those in progress.

The open doors were an opportunity to get closer to potential partners and identify new project opportunities.

### 4.3. Team building/ Cocktail de fin d'année

In its managerial management, IFDC introduced a new performance management strategy in 2019, which involved awarding recognition to the best-performing employee, i.e. one who scored an average of 4 or more in the assessment.

In 2020, many employees achieved a score of 4 or more. And the year 2020, which was particularly

exceptional, very difficult (Covi-d19) and yet enabled IFDC to achieve a positive financial balance sheet, boosted the management team to change the individual bonus into a group bonus to celebrate last year's good results. From then on, the group bonus was introduced into the system and is regularly celebrated to this day.

On this occasion, the 2022 IFDC Burkina Faso Group Bonus was celebrated at the IFDC office with the entire staff. A special feature of the 2022 event was the involvement of IFDC alumni, whom IFDC has always regarded as its ambassadors. This was to consolidate the age-old ties that exist and to make them understand that they are still part of IFDC. The Country Director, IFDC Burkina Faso and Mali, presented the new vision of IFDC and invited the alumni to visit the IFDC common house and make it their own. The sharing of experiences by IFDC alumni provided lessons for the younger generation. These alumni, who have a wide range of expertise and are today active in various sectors of activity, including development projects and programs, ECOWAS, HKI, public and private administration, the United Nations system, mining companies and private firms, were delighted with this moment at IFDC.

Last but not least, the event was a source of general satisfaction for all concerned, with feelings of good fellowship between former and current staff. This idea of celebrating performance as a group is salutary and deserves to be perpetuated.

At the end of the year, the IFDC Burkina office organized a cocktail party for IFDC staff and former members. The aim of the event was to bring the old and new generations closer together, and to share experience and advice. During the event, inspiring stories and motivational words were shared with current office staff. To mark the occasion, a guest book was signed by the guests and a retirement gift was presented to Jérôme Nassa, with thanks from the team for his 19 years of service to the organization.



## 5. IFDC investments in December 31, 2022

The following table summarizes the cost of implementing activities and maintaining the IFDC Representation in the country in 2022

**Tableau 5.** Summary of IFD Investments from 1<sup>st</sup> January to 31 December 2022

ACTIVITIES	FCFA
<b>PROJECT 1 : 2SCALE</b>	
Investments /Equipment	6 976 246,50
Salary /Operations	159 643 648,35
Contracts with service providers	8 825 090,30
<b>SUB TOTAL 1</b>	<b>175 444 985,15</b>
<b>PROJECT 2 : PIPATA</b>	
Investments /Equipment	8 225 226,00
Salary /Operations	33 786 134,34
Support/Training	31 126 696,00
<b>SUB TOTAL 2</b>	<b>73 138 056,34</b>
<b>PROJECT 3 : 2PATM</b>	
Investments /Equipment	3 213 400,00
Salary /Operations	36 646 612,07
Support/Training	44 924 504,00
<b>SUB TOTAL 3</b>	<b>84 784 516,07</b>
<b>PROJECT 4: USAID - ENGRAIS</b>	
Contracts with service providers	9 350 000,00
Subsidies for actors /Training	84 473 478,00
<b>SOUS TOTAL 4</b>	<b>93 823 478,00</b>
<b>PROJECT 5: ACMA II</b>	
Salary	1 657 397,00
<b>SUB TOTAL 5</b>	<b>1 657 397,00</b>
<b>PROJECT 6: IFA AFO</b>	
Subsidies for actors /Training	522 348,00
<b>SUB TOTAL 6</b>	<b>522 348,00</b>
<b>PROJECT 7: AGRA</b>	
Travel	78 750,00
<b>SUB TOTAL 7</b>	<b>78 750,00</b>
<b>PROJECT 8: MCC-MCA</b>	

Salary /Operations	2 562 712,00
<b>SUB TOTAL 8</b>	<b>2 562 712,00</b>
<b>PROJECT 9: ISSD SAHEL</b>	
Operation (travel & DP communications)	381 500,00
<b>SUB TOTAL 9</b>	<b>381 500,00</b>
<b>OVERHEAD</b>	
Salary /Operations	54 346 390,73
<b>SUB TOTAL 9</b>	<b>54 346 390,73</b>
<b>TOTAL</b>	<b>486 740 133,29</b>

## 6. Conclusion and Outlook

During 2022, IFDC invested in agricultural development, focusing on the issues of innovation and fertilizer procurement. Indeed, the impact of the war in Ukraine led to a rise in the price of inputs, making some of them inaccessible, which had an impact on the launch of agricultural campaigns.

The change in political regime also affected IFDC's support for its partners. However, by drawing on its expertise and experience, IFDC has been able to strengthen the resilience of small-scale farmers and continue to promote good farming practices, integrated soil fertility management and climate-smart agriculture.

The year 2023 represents an important scaling-up year for IFDC in Burkina Faso, despite the current economic challenges and the shortage of inputs at local level.

Through its projects and programs, IFDC will focus on supporting its stakeholders in the adoption of good agricultural practices such as the development of organic fertilizers, compost, the use of seeds requiring less fertilizer and conservation agriculture. It will also develop new opportunities to support the Burkinabe government in implementing its policy and achieving its agricultural objectives.

To this end, IFDC will scrutinize the various calls for proposals aimed at improving Burkina Faso's agricultural system, supporting producers in their efforts to cope with climatic hazards, improving their production and income, adapting agriculture to the climate and demonstrating good methods for restoring and preserving soil fertility.



*PACTE supervision mission to OPAs*



*Training session for endogenous animators*



*Scoping meeting with buyer SITRAC*



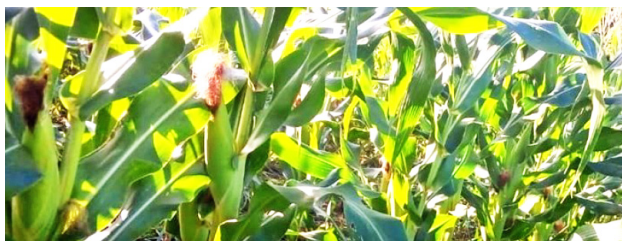
*Supervision mission by the donor, KFW*



*Training session for endogenous animators*



*Supervision mission by the donor, KFW*



*A production plot*



*Compost production*



*OPA corn delivery to SITRAC*



*Supervision of corn stocks*



*Bocar Diagana visits SITRAC*



*Contract signing session*

Reference:

SOU, Sami K. Thierry. " La Salinisation Est Devenue Une Cause Importante De Dégradation Des Sols Et De L'agriculture ", Dr Mamoudou Traore, DG Du Bunasols." MAAH, 6 Dec. 2021, [https://www.agriculture.bf/jcms/pv10\\_103955/fr/-la-salinisation-est-devenue-une-cause-importante-de-degradation-des-sols-et-de-l-agriculture-](https://www.agriculture.bf/jcms/pv10_103955/fr/-la-salinisation-est-devenue-une-cause-importante-de-degradation-des-sols-et-de-l-agriculture-)

**IFDC BURKINA FASO** 11 BP 82 CMS Ouagadougou 11 – Burkina Faso, Tél : +226 25 37 45 03/05  
✦ Fax : +226 25 37 45 02 ✦ Email : ifdcburkina@ifdc.org ✦ www.ifdc.org

