





LETTER FROM THE EXECUTIVE DI

### **NUMBERS ARE** IMPORTANT. **BUT THIS IS ABOUT** PEOPLE.

We are getting there! This report shows where we made greater progress in 2022 and where we still have further to go. I'm delighted to say that the first of those areas is larger than the second.

But what do we mean by "progress"? Our yardstick is our 2021–25 <u>strategy</u>. It sets out our focus, three overarching outcomes of our work, and some quantitative targets related to our key performance indicators. Each year we aim to get better at meeting them, and at collecting and evaluating the data involved.

In 2022, our partners and we enabled more than 2.7 million smallholders to access products and services supported by our Foundation. That was almost double the number of people who benefited in 2021; the share of temale beneficiaries rose slightly to 29 %. The value of the products and services roses by 37 % to \$41 are ilino. Tables of specific projects showed that farmers incomes give by between 37% and 59 %. Our capacity-building activities related to climate-smart, resilient agriculture involved more than 800,000 farmers. We supported 15,000 rural enterprises, an increase of 68 % over the previous year. Those businesses created some 16,000 (bec, of which 56% went to young people. More than one-third of our Agriservices Centers are now owned by women.

Numbers are important. But they never convey the whole picture. Throughout the year, our website features portraits of our work. There, you may hear from a widow whose extra income earned because of our programs enables her to send all her children to school. To me, such vioices are a critical counterpart to aggregate income figures. These stories tell the human side of our numbers. And fortunately, 2022 brought back the opportunity that I had so missed in 2021 — the opportunity to meet the people with whom and for whom we do all our work. I have continued to chart some of these hugely impressive encounters in my Linkedin posts.

THESE STORIES TELL THE HUMAN SIDE OF OUR NUMBERS. AND FORTUNATELY, 2022 BROUGHT BACK THE OPPORTUNITY THAT I HAD SO MISSED IN 2021 – THE OPPORTUNITY TO MEET THE PEOPLE WITH WHOM AND FOR WHOM WE DO ALL OUR WORK.

Returning to the countries in where we operate has also brought me back into closer contact with our local employees. Their dedication and passion for helping smallholders to improve their farming inspire me time after time. Their commitment enables the highlights and performance described in this report. But what is less clear from the numbers is that many of our employees and partner organizations are working in very difficult circumstances. While we were pregaing this report. Armed conflict flared up in Sudan. Myanman has dropped out of Western headlines, but life there is far from easy. Nigeria and Ma face major security issues. Other Syngenta Foundation 'presence countries' also have special challenges. I am deeply grateful to our people and their partners who tackle those challenges cheerfulf and skillfully, day in, day out.

And what do I see coming up? We are currently working on exciting developments about which I hope soon to say more. Mearwhile, we are also pressing ahead with the implementation of our strategy— always remembering both the numbers and the people! I hope you enjoy the reading and, as always, I look forward to your comments.



n for Sustainable Agriculture (SFSA)







To strengthen smallholder farming and food systems, we catalyze market developm and delivery of innovations, while building capacity across the public and private

### **HOW WE WORK**

SFSA's comprehensive <a href="https://git.org/

**FUNDING** 2022 \$ 40 M



### **PUBLIC AND PRIVATE PARTNERS**

### OUR COMMITMENTS & SDG1 CONTRIBUTIONS





















### **OUR AREAS OF WORK**

AGRISERVICES

ural entrepreneurship -strong focus on omen and youth

AGRICULTURAL INSURANCE SOLUTIONS SEEDS2B (AIS)

Policy work helps remove barriers and enable significant scale-up

### WHERE WE WORK

personal presence ensures excellent contacts and locally relevant activities.

ca, our core teams work in Mali, Senegal, Nigeria and Kenya. Our Asian teams operate in Inc adesh, Indonesia, the Mekong region, and China. The head office is in Switzerland.

We are involved in activities in several other countries through partnerships. For instance, we carry out R8D work in Ethicpia and Ugands; numerous African universities participate in the Demand-Led Breeding program. Our seeds team collaborates with partners in several African countries, supporting programs like PASTA, AVISA, and Seeds for Impact. We also work on applicultural insurance in Sudan Zambia and Cambodia. Our partners come from around the world, including the Americas and Australia

### **AFRICA**

### **ASIA**

Bangladesh, India, China, Mekong region (Myanmar, Cambodia), Indonesia



Involvement through partners

### **DELIVERING ON OUR COMMITMENTS** SFSA continues making significant progress towards the Strategic Outcomes

(SOs) outlined in our 2021–2025 strategy. As a result, we have increased some of our initial targets.

By 2025, we are now aiming for 20,000 SFSA-supported enterprises and \$250 million in annual value from the use of SFSA-supported products. The previous targets were 15,000 and \$100 million.

### SFSA'S CURRENT 2025 IMPACT TARGETS

At least 20 % net income increase for five million smallholder families

At least 20 % net income increase for five million smallholder families Better nutrition, health and food security

Smallholders cope with climate change in a climate-smart and resilient way

### STRATEGIC OUTCOMES BY 2025



women and youth, have better access to affordable and sustainable innovations Use of SFSA-supported products and services creates more than \$250 million in value annually SFSA action leads to greater investment in sustainable agriculture



Smallholders farm at least 2.5 million hectares in line with improved manageme and resilience practices At least 1 new CSRA\* initiative starts each

year At least 5 million smallholders and releval institutions have strengthened their capacity and awareness related to CSRA



Our impact is driven by smallholders' increased adoption of solutions that address climate change, incorporate the needs of women and youth, produce nutritious food, and meet consumer demand in efficient markets. The following sections provide further details.



ELIVERING ON OUR COMMITMENTS > **OUTCOME I:** 

### **SMALLHOLDERS GET THE TOOLS** THEY NEED

### **OUR APPROACH** We focus on low-income smallholders, putting them at the heart of agri-food systems. Our work

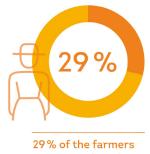
we tocus on tow-income smallholders, putting them at the heart of api-food systems. Our work increases these farmers' ability to choose, afford and use sustainable and innovative solutions to their challenges. To support the introduction of new technologies, we ensure suitable training and accompanying services. We also push for a stronger 'enabling environment', for example in finance, cigitalization and agricultural policy. All of this work is anchored in strong partnerships, notably betwee the public and private sectors.







supported<sup>1</sup>, an increase of 99% **OUR PROGRESS IN 2022** 



are women<sup>2</sup>, up from 25% in 2021

In 2022, we supported more than 2.7 million smallholders, almost double the figure for 2021. "Support means providing access to affordable and sustainable solutions and services. These include training, improved seed varieties, good agripment practices, mechanization, digital tools, financial and agri-imprance solutions, and market opportunities. An increasingly important way to make such solutions available is through Catalytic Intermedianties. We establish these as separate legal entities to scale up our innovations. The two main examples so far are the Agri-Enterprener Covent Foundation (AEGE) and Agriculture and Climate Plake Enterprise Ltd. (ACRE). Studies of specific projects revealed that farmers' revenues increased by between 37% and 59%. Further information on these project appears below.

SFSA is committed to gender equality. In 2022, the average proportion of female beneficiaries in our programs rose to 29%. This is an encouraging increase over 2021 (25%), but still a long way off our 2025 target of 50:50 parity. We are investing considerable efforts to improve in this area. Our partners and we help smallforders gain access to a wide range of products and severices. Sales from those rose by almost one-third last year. This \$142m generated through those sales considerably boost local economies, the added value of better harvests comes on top of this. Impressive though a 31% rises may sound, however, it could have been much higher. Various external factors combined to make life very sound, however, it could have been much higher. Various external factors combined to make life very contributed for the production of the production of



HANNAH KARANJA

Despite these problems, we continued to expand our Agriservices programs. In 2022, 1.7 million farms benefited from these, an increase of 85%. As part of our impact measurement, we have receifly run surveys in Bangiodesh, Indonesia, and findia. These surveys primarily examined how smallholders benefit from the three countries' related models (Farmers' Hubs., Pancer Tanl, and Agri-Enterpreneurs, respectively). The positive impact of our agriservices on tarmers' lives is clear. The smallholders' responses highlight increases in crop'eld and incomes, together with better access to markets. Their livelihoods have improved commensurately. However, the surveys also help us continue to learn riess about how to improve our effectiveness. Some prans include enhancinc the qualify and virture of

Our Agricultural Insurance Services (AIS) team also overcame the challenges of 2022 and made significant progress. About 734,000 farmers chose to sign up for SFSA-supported insurance products, more than triple the number in 2021. Bangladesh made a major contribution to this rise. There, we combine agricultural insurance with other products and services, such as credit, farm inputs and advisory services. This includes working with "Lead Farmers", who spread awareness of crop insurance among their neighbors. Additional financial literacy training increases smallholders' understanding of insurance and how it can reduce credit risks. Alongoide our well-established activities in Bangladesh, we began working in Zambia. The authorities there approved our "macro-resilience" package in October, in filter for the new seans. But the and of the wear 2000 farmers in four Zembia my ownores and for the contraction provisions and the war. 2000 farmers in four Zembia my ownores and contractions. time for the new season. By the end of the year, 7800 farmers in four Zambian provinces had chosen

> THE POSITIVE IMPACT OF OUR AGRISERVICES ON FARMERS' LIVES IS CLEAR. THE SMALLHOLDERS' RESPONSES HIGHLIGHT INCREASES IN CROP YIELD AND INCOMES, TOGETHER WITH BETTER ACCESS TO MARKETS.

Our Seeds2B team improves smallholden' access to better crop varieties. "Better' means, for example, seeds that raise yields, strangthen resilence to climate change and help raise smallholden' incomes. In 2022, we approve yetered some 20 varieties for their potential to met specific float needs. Typically, such varieties often potential to met specific float needs. Typically, such varieties come from public breeding programs: local seed companies provide the crucial channel t farmers. In 2022, Seed52B helped 129 such companies and breeders to expand their portfolios and sell public and private varieties to smallholders. Thanks to our combined efforts, more than 260,000. smallholders were able to use better varieties in 2022, a 27% increase over 2021.

A notable example of new seed access, initially catalyzed by our R&D teams, is Indian smallholders' ability to buy 'ADA Mater' (Affordable, Accessible, Asian), Public and private partners jointly ran the breeding program for this drought-lolerant corn. At introduction in 2016, local seed partners soid 16 tons of AAA Maize, like year his figure reached 210 fors. The number of smallholder beneficiaries has correspondingly leaped, from 900 at launch to 14,000 in 2022, Average AAA Maize yields in the targeted area of India and 2-SEMs, compared to conventional varieties' 1.5Vha. This difference gives smallholders an additional net income of \$75/hectare.

I AM A FARMER AND A HUB MANAGER. I GROW TOMATO, PEPPER, CUCUMBER. CABBAGE. WATERMELON, CORN. COWPEA, AND SORGHUM. THE FARMERS HUB MODEL HAS HELPED ME INCREASE MY KNOWLEDGE OF MODERN SEEDLING PRODUCTION. FOR EXAMPLE USING IMPROVED VARIETIES, NURSERY TRAYS, AND PLANTING MEDIA THE BENEFITS HAVE EXTENDED TO SEVERAL OTHER WOMEN IN MY COMMUNITY THROUGH CAPACITY-BUILDING IN HORTICULTURE AND ARABLE CROPS. IAM A WIDOW, THE PROFIT FROM MY FARMERS HUB HELPS ME TO PAY MY CHURDEN'S SCHOOL FEES AND BUY THEIR BOOKS, FURTHERMORE, MY PRESTIGE AND SOCIAL STATUS IN THE COMMUNITY HAVE ALSO INCREASED.

# TALATU IDRIS



### ASSESSING OUR IMPACT

Over the past few years, we have conducted impact studies and sastifaction surveys on some of our key projects. The work is mainly done by external organizations. The results help us better understand our activities effects on beneficiaries. We can then continue at scale or, where necessary, adapt our approach. Are well as sharing the data with program partners, we publish some key findings on our website (see links below). This section provides some examples.

Pancer Tani is a multi-service enterprise initiated by our team in indonesia. It is similar to the Farmers'
Hubs mentioned below. Smallholders value the access that each Pancer Tani provides to good products
and oustomer service. 85 % of surveyed farmers reported increases in revenue (average 37 %) by using
Pancer Tani offerings. Two out of three attributed the increase to having bigger harvests to self. Our study
shows that the ability to grow more crops comes primarily from better farming knowledge and easier
access to quality inputs.

FARMERS' HUBS Exement: Hugs or runal businesses giving smallholders one-stop' access to quality input finance, knowledge, and markets. We investigated their impact in Bangladesh. 77% of far revenue increase averaging around 59% with corps grown from Farmers Hub seedings, said that the rise is thanke to increased harvest sales. 8% reported accessing a new price a Farmers' Hub; rewer than 5% are certain they could find a good alternative. o quality inputs, machinery, sh. 77% of farmers reported a lub seedlings. 93% of farmers sing a new product because of MICROINSURANCE MARKET DEVELOPMENT

MICROINSURANCE MARKET DEVELOPMENT

On Microissurance Market Development program provides services to mitigate and reduce agricultural risks in Bangladesh, insurance gives farmers greater confidence; after buying it, smallholders also increase their investment in their crops – in this study, by an average of almost 8900 take, some 42%.

Two-thirst of surveyed farmers would like to keep using crop insurance. The study also showed that the project beneficiaries had better access to loans.

I'me AGHI-ENTHEPRENEUR (AE) MODEL

The Agri-Entrepreneur (AE) model in India empowers rural women and youth, in particular. It incentivizes
them to play an active role in apticularly development. Surveyed farmers list advice and access to inquits
as the two main AE services. Half of the farmers communicate with their local AE at least weekly. 79 %
reported earning more money; nearly half of this group said incomes had increased by at least 50%. More
farmers attribute the rise to higher volumes of crop sold. Those who reported no income change mainly
blamed this on the high cost of inputs. A survey among AE is summarized under Outcome 3 below. THE AGRI-ENTREPRENEUR (AE) MODEL

PASTTA

PASTTA Is USAID's Partnership for Seed Technology Transfer in Africa. Its successes include the 
introduction of Kaisamanoi plyidid corn in Senegal. Smallholders who have adopted the variety say the 
their yield han siene by 150% over the past three years. Many of them are now also planting Kaisaman on a larger area. Farmers typically sell a portion of their harvest and keep the remainder for parsonal 
consumption. Farmers grow the variety during the off-season. This increases food security throughou 
year and leaves smallholders time to grow cash crops as well.

Studies of specific projects revealed that farmers' revenues increased by between 37% and 59%

DELIVERING ON OUR COMMITMENTS >

### **OUTCOME II: SMALLHOLDERS COPE WELL WITH CLIMATE CHANGE**

### **OUR APPROACH**

Agriculture both contributes to and suffers from global warming. There is an urgent need to improve realisence of smallhooker farming to climate change. As outlined in our Strategy, we are making Clim. Smart, Realient Agriculture (CSRA) an integral part of the entire SFSA portfolio. We take an all-round approach, tallored to local contexts.

o increase farmers' resilience and ability to adapt, we are implementing a range of strategies and its acreasing the likelihood of good harvests goes hand in hand with protecting smallholders against the prosequences of crop failures. Longer-term contributions to resilience must be accompanied by more medical economic incontives. Examples of such financial benefits include higher productivity, lower roduction costs and profitable sales of new rotation crops.



### More than 800,000 farmers participated in SFSA capacity-building activities related to CSRA during 20221

### **OUR PROGRESS IN 2022**

Capacity-building is a major pillar of our Mission. In the CSRA area, efforts to create awareness and build capacity include runmerous smallhoider training sessions and field days. These focus on good agroromic practices, dimitate-emal varieties, firmitatel existation, and other forms of risk reduction mittigation. Some examples of our CSRA activities follow below; our <u>wabsite</u> provides further details

### PROMOTING EFFICIENT WATER USE

PROMOTING EFFICIENT WATER USE
In Banglindah, no work includes the pull\_project (introducing Water-Efficient Technologies). IWET is sponsored by the Cose-Cole Foundation and supported by the 2030 Water Resources Group, its main sopcietive is to reduce Immer's use of proundwater while also improvem plant immore. IWET focuses on more efficient mango cultivation. Using modern drip irrigation, farmers can intensity mango production and save up to 70 % of the water used conventionally. This approach also has other advantages. It enables more difficient fertilizer use than traditional manual application. Fever weds mannines work and help avoid unnecessary littinge. Farmers can hervest earlier and more easily, with yields up to 300% higher than before. The system adea allows income divertication through intercopping. In 2022, more than 6000 farmers participated in IWET training and other events; the program ran 120 demonstrations.

In the Niayes area of Senegal, our team successfully plicited the use of <u>solar-driven water pumps</u>. By replacing pump fuel with surlight, the pumps save smallholders money and are environmentally more friendly than conventional models. Our team is now working with USAD in the Sanegalese capital Back on spreading this gromating technology. A USAD project called SUBE (Sealing UP Renewable Energy) aims to increase farmers' use of solar pumps in the country's southern and eastern cropping areas.

BY REPLACING PUMP FUEL WITH SUNLIGHT, THE PUMPS SAVE SMALLHOLDERS MONEY AND ARE **ENVIRONMENTALLY MORE FRIENDLY THAN** CONVENTIONAL MODELS.

STRENGTHENING SEED SYSTEMS TO INCREASE FOOD PRODUCTION In the IASITIA program in Kenya, our Seedat28 team promoted climate-smart agriculture, in cooperation with several particulture. Together, they introduced farmers to techniques such as water harvesting, drip trigation, and the production of certified seeds. Through the program, smallholders also gained access to important tools and services. These include varieties of potats, beans or veropetables that resist drought and/or diseases. PASTTA also inked farmers to markets and ensured access to soil nutrition, mechanization, financial services and insurance, in drought-prone Samburu Courty, for example, pasterdistifs that in increasingly lard to make a living from cattle-grazing. PASTTA has helped them diseasely into potato farming as an additional source of food and income.

Tel is a vital staple food for Ethiopia. However, the cereal is an 'orghan' crop, largely ignored by international research for many years. SFSA has been supporting the tel value chain since 2006, in collaboration with the Ethiopian Institute for Agricultural Research and the University of Bern in Switzerland. The first phase of the program concluded in 2022; by then, it had enabled release of five early maturing varieties. They are, above all, resistant to lodging and drought; yields are 0.3—1 to trothectare higher than the main varieties usually grown. Good performance in dry conditions makes new tel better able to cope with locally relevant climate-related stress. The program now seeks to rais Ethiopian food production by increasing local seed companies' capacity to deliver the varieties to farm commercials, by the end of 2022, more than 50.000 smallholders were growing SFSA-supported tel; considerable expansion is planned over the next few years.

### SPREADING WEATHER-RELATED INSURANCE, FINANCE AND INFORMATION

FINANCE AND INFOMMATION
With every crop, samilholders typically carry a huge burden of risk. Crop insurance enables them to invest in their harvests with greater confidence. However, smallholders rarely have experience of such owner. A lack of both knowledge and risk can prevent them from trying out insurance policies that would reduce their risk and give them peace of mind. To help smallholders understand the concept and products, and no manage their expectation, our JAIS team organizes capacity-building events across Asia and Africa. In 2022, more than 300.000 farmers and staff from partner institutions attended.

in Bangladesh, the Microinsurance Market Development Program familiarizes smallholders with multiple climate-smart farming practices. A survey showed that all farmers in the program are applying least one of these practices. In the area of weather-related information, for example, more than 65% farmers consult forecasts before inginging, 69% use them for cultivation planning; more than half plan the use of crop protection products in line with the weather forecast.

In Sudan, our Financial Education initiative aims to build a strong foundation of knowledge on credit, savings and insurance. Before the armed conflict of 2023, we assessed farmers' confidence and ability to understand financial processes. More than 90% said that the education helped them make financial transactions, fill in bank forms, read and query account statements, and understand simple sales contracts. Almost 98's considered taking up insurance after the training; 92% found it easy to use budgeting in their daily lives.



### IMPROVING SOIL HEALTH AND REDUCING GREENHOUSE, GAS EMISSIONS.

EMISSIONS. In Karya, our local team, The Nature Conservancy (TNC) and other partners recently mapped the agricultural ecosystem of the Laikipia region. Mapping included a household survey, soil sampling, and hydrologic assessment with the University of Florida. This comprehensive approach lays the basis for a sustainable regional footoscape. The soil health project in Laikipin has already exceeded its target. Whave engaged with over 7000 farmers and established value chains for two new rotation crops: dry page. and canola. We aim to introduce sunflower as the next rotation crop, continuing to improve soil health, increase farmers' resilience and raise their incomes.

We are also working with TNC in Asia. In India, we jointly enabled 154 Agricultural Entrepreneurs (AEs) to provide di<u>cred taint seeding</u> rortial services as part of their sustainable business offer. Direct seeding helps replace stuble-burning by using orgo residuse as much. This change in practice both keeps moisture in the soil and tackles the major annual problem of air pollution from countless fires.

In China, TNC and we assessed the effectiveness and impact of government <u>subsidies</u> on soil health and 'green' agricultural development. In Garsu province, we ran events with local officials and farmers on improving organic fertilizer subsidy policy. In Sichusan, we studied the potential of low-cathon agricultural supporting the provincial government's drive for carbon-neutrality in the farming sector. Having estimated greenhouse gas emissions from Sichuan's farms, we held roundtables with officials, academic experts, cooperatives, and farmer representatives. We also complete data-collection for rice and kinefful, with the jod private and public lorganizations. The data enables us to draft technical specifications for improving the crops' carbon profile and to recommend incentives for farmer adoption.

Together with our partners in the Nutrition in City Ecosystems (NICE) project, we made significant progress in helping improve the demand for and local supply of deverse, nutritious food across the three countries where the initiative operates. By the end of 2025, NICE has successfully established over 174 Farmers\* Hucs, serving as the preferred social business model in Bangladesh, Kenya, and Rwanda. The project provided training to over 3000 amilholders on good agricultural practices, agreecology and equipped farmers with the necessary skills to combat soil erosion effectively.

### **OUTCOME III: SMALLHOLDERS BENEFIT FROM** THRIVING MARKETS

### **OUR APPROACH**

ustainability has three pillars: environmental, social, and economic. Thriving markets are essential for ustainabile improvements in livelihoods. In our case, these are markets in which smallholders can buy ent and profitably sell, and in which businesses that serve them can thrive. As described above, SFSA kis smallholders with markets for insurance, seed and other elements of successful farming. This action describes our progress in stimulating rural entrepreneurship.



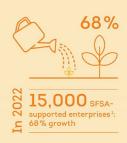
SFSA's entrepreneurial AC help smallholders to access products and services that lead to better harvests and higher income. We empower rural entrepreneurs to meet the needs of their farming neighbors and create jobs.

We focus on building capacity across many organizations. For example, in the seed system, we collaborate with CGIAR centers, National Agricultural Research Systems and other public

### **OUR PROGRESS IN 2022**

In 2022, SFSA supported over 15,000 agri-enterprises, 68 % more than in 2021. Depending on the local situation, our support can take many forms. They include providing technical assistance, facilitating access to financing options, catalyzing public and private partnerships, identifying and training future rural enterpreneurs, and promoting technology transfers.

Our AC vary locally in focus and in name: Agri-Entrepreneurs, Farmers' Hubs, Pancer Tani or CEMA, our West African mechanization centres. On average, 55% of AC are run by women, a major step forward from 2021. Despite the international challenges described under Outcome 1 show, 7000 new Centres started operations in 2022. This was a rise of 90%. Most of these centers are in India, where in 2022 the Agri-Entrepreneur Growth Foundation passed the mitestone of 10,000 trained Agri-Entrepreneurs. Through AC, we contributed to the creation of over 16,000 permanent and temporary jobs in 2022. More than half of these positions went to people under 35.





On average, 35% of the entrepreneurs are women<sup>2</sup> (52% rise in the share)



16,000

cicline Micro/Small/Growing Businesses. 14,812 Agilisarvico Centers. 129 public or private seed producers, breeders and see emporase. 89 Commercial francial institutions. Itemer aggregators, insurance companies, insurance companies, insecom emporase and micro/france institutions. In a micro of the commercial francial franci

## PADMABATI NAIK



85% of Agri-Entre preneurs in India experience im-provements in their quality of life and income\*.

### AGRI-ENTREPRENEURS:

A FLAGSHIP INITIATIVE Syngenta Foundation India launched the Agri-Enterpreneur (AE) model in India in 2014. Each AE provides services to about 150-200 neighboring farmers. For major scale-up, we partnered with Tata Trusts in 2019 to create the Agri Entrepreneur Growth Foundation (AEGF), which is now also anchored by IDH-The Sustainable Trade Indiative. Coming into 2023, there were close to 12,000 AEs across more than 15 states.

A recent impact study shows that the program has eignificantly improved the quality of life and income of 85% of surveyed Agri-Entrepreneurs. They reported that they can now afford household expenses and have improved self-esteem. The study also highlights that 41% of AEs earn most income form selling agricultural impact 23% report oligible making and 21% socy advice as their highest-earning services. Almost all survey participants found the AE training useful and easy to understand; 75% mentioned that they apply "all" or most of it to their work. Two out of three AEs communicate with each farmer at least weekly. However, the experiences and satisfaction of AEs vary between states. The survey also indicated scope for changes to the training. We are currently addressing both this issue and how to accelerate growth in the proportion of female Agri-Entrepreneurs in partnership with the Bill & Melinda Gates Foundation and others.

### VOICES FROM THE FIELD





### **FURTHER HIGHLIGHTS**

### ADVANCING DIVERSITY & INCLUSION

The eradication of global poverty and the achievement of sustainable economic growth requir and inclusive societies and markets. In many countries, however, women smallholders are disdardantaged. For example, they often find it much harder than nen to get access to training and financial services. SFSA has set itself the ambitious goal of gender equality among its be

Progress so far varies considerably. In 2022, our programs enabled approximately 217,000 female smallholders to get agricultural insurance, about 30% of all participants. In Mail, women now account for 45% of participants in our Seeds program PASTTA, compared with 17% in 2019. Last year, women women once than 5000 SFSA Agrisen/de Centers1, 35% of the total, and a rise from the previous year's 25%. On average, however, the proportion of our female beneficiaries increased to only 29%, up from 25% in 2021.

king hard to improve this situation. For e designed for female Agri-Entrepreneurs cific training for smallholder <u>fruit-growers</u> or example, in inclu there are now traini iurs (AEs). In 2022, our team in China inf

SFSA also works for the economic inclusion of people with disabilities. In Kenya, for example, we are partnering in this area with Sightsavers and East Africa Mallings Limited. In 2021, we jointly launched an inliability in the society with value of the compover enterprenous and farmers with disabilities. By the end of 2022, the initiative had engaged with 45 entrepreneurs and three network managers. The entrepreneurs can framer's those across three sub-counties. Almost one-third of them are people living with disabilities. The program provises training and mentorship to improve participants' technical, organizational, and management skills.

### ACHIEVING GENDER EQUALITY IS A MULTI-FACETED CHALLENGE

To help assess our work, we run numerous surveys. Some of these are described in the Outcome sections above. Last year in Bangladesh, we noticed after a rural household surve that very few women had provided answers. This low participation rate did not reflect female involvement in family farming and decision-making. One issue was that some questors referred to tasks that are traditionally men's responsibility. More limiting, however, was that the survey investigators often talked only to the formal head of each household. In Bangladesh familes, this person is typically male. We also excited that the number of female enterpreseurs had remaind very low, even thouse when contribute agrificantly to numerous activities. These include post-harvest connitions, farm management and specific profitable tasks such as establishing seedings. To address this issue, the Syngenia Foundation has adopted a "household" approach to training, Hubbands and wives now learn together, so that both can benefit equally. Our Bangladesh Farmer's Hubs have also created numerous jobs for women, including the great majority of hose related to seeding production. A remaining challenge with Farmer's Hubs is to encourage more female farmers to seek services there. Our Bangladesh insurance sem also continues to exciter distribution models that reach more women. The type of goods and services with which we combine insurance can play a rice. Burndling the over with farm inputs mainly attracts men, because it is they who buy these products at local retailers. A distribution model that involves microfinance institutions encourages higher numbers of women to choose insurance.



### **BUILDING CAPACITY IN DEMAND-LED BREEDING**

Demand-Led Breeding (DLB) aims to produce new crop varieties that meet farment 'needs. We are a founding member of a partnership that helps leading African universities to train plant scentists in DLB. In 2022, the partnership created additional educational metides with new topics for postgraduates. The two open-access training modules are designed for plant breeding education and practitioners. One focuses on 'Genorico, Diversity, and releasity in plant variety design," the other on 'Genorico, Diversity and releasity in plant variety design," the other on 'Genorico proversition power product profiles based on the DLB toolbox." Both modules are already in use at major plant science centers.

Last year, African plant breeders also used our DLB guidelines to develop 20 new product profiles. These are for improved beans, cassava, groundnut, maize, pigeon pea, sorghum, and tomato. African experts also employed the DLB methodology to create compelling cases for investment in beans and <u>formato</u>. The DLB partnership's advocacy for sustainable agricultural practices continued at events in Africa and beyond. They included the Nigeran Plant Breeders' Association conference, the &ustralassian Plant Breeders' Association conference and the plant of th

In DLB, we collaborate cosely with the West Africa Centre for Crop Improvement (<u>WACCI</u>), a World Bant Africa Centre of Excellence at the University of Ghans. Our work there, led by Professor Enic Danquath, includes a contribution to training ten PriD statedarts in plant breeding. In 2022 Professor Danquath secured a commitment from Ghans's Food Systems Resilience Project Fund to invest two million dollars in R80 for staple crops. He also wen the prestigeous 2022 <u>Africa Food Price</u> for WACCI's outstanding in R80 for staple crops. He also wen the prestigeous 2022 <u>Africa Food Price</u> for WACCI's outstanding contribution to Africa's food security efforts. A World Bank-relied survey of more than 50 academic institutions from nine African countries ranked WACCI top in project implementation and performance.

### IMPROVING NATIONAL, REGIONAL AND INTERNATIONAL POLICIES AND **REGULATIONS**

Our Policy work focuses on a strong enabling environment for agricultural development. In 2022, we continued to urge for policy reforms that benefit smallholders. Our Policy learn partnered with leading research organizations to propose improvements in several areas. The lopics included youth enterprenountable, formulae-smart agriculture, seed policy spiriculture and code IABO, soll health and low-carbon agriculture. Our efforts involved both policy studies and advocacy for change. In Nijeria, for example, our partners Sahel Consulting and we held discussions with the country's Agricultural Research Council (ARCN). These focused on our study of national agriculture R&D and recommendations for its further evolution. The Régorian government has recently adopted informs to deringthen the ARCN and boost research. A normantly of practice aims to build a common platform for planning, streenlining, and implementing agricultural R&D nationvide.

We also ran similarly themed studies in other countries. Our goal was to identify agnificant trends in pub and private research expenditure and recommend advisable changes in focus. In Indonesia and China, we published reports on "Reporting Publis Agri-Food R&D for Achieving Sustanable, Nutrificus, and Cintrade Resilient Food Systems". These are available on the relevant Pizibo, aged four weekste. We are began the same research in Kenya. Additionally, we convened stakeholder meetings in indonesia, Nigeri and China. These brought together senior representatives from the public and private sectors, as well as development and donor communities. Our well-received observations sparked intense debate on the future of agnicultural R&D. Experts regard our reports as valuable and timely resources.

Our Policy team also worked on rural business topics. Together with IFPRI, we have now analyzed key drivers of successful youth entrepreneurship in several countries. In 2022, we added India and Indonesia. The resulting recommendations enable countries to identify gaps in their policy and regulatory

In 2022, the Foundation for Food & Agriculture Research (FFAR) and we officially started a program to improve the adoption of climate-smart farming in Kenya and Bangladesh. The program will be implemented by World Vision supported by the Overseas Development Institute (UK), under AgMission, an initiative by FFAR and the World Farmers' Organisation. AgMission aims to unlock agriculture's potential for reduce greenhouse asse armissions.

OUR GOAL IS TO IMPROVE COORDINATION BETWEEN FARMERS, INPUT SUPPLIERS, AGGREGATORS, PROCESSORS, TRADERS AND STORAGE OPERATORS. BETTER COORDINATION SHOULD ENCOURAGE FOREIGN INVESTMENT IN RICE MILLING AND PROCESSING, EQUIPMENT SUPPLY, OR OTHER PARTS OF THE VALUE CHAIN.

### POLICY PUBLICATIONS AND EVENTS

Dur Policy Watch newsletter is available on free <u>subscription</u> via our website. This morthly builetin rovides a digest of policy information and insights, with a strong focus on our countries of operation. To vivro policy hange and promote sustainable isamithided framing, we also discensinate research papers and participate in workshops and meetings with policymakers and other stakeholders. In 2022 we granized more than 35 policy events for over 1500 people. Topics covered in our papers and events included seed policy regulations, value chains, and rural entergreneurship.

In Kenya, in collaboration with New Markets Late, we ran a seed policy workshop at the Artican Seed Trade Association (AFSTA) Congress. The primary objective was to share unifidings on regionally harmonized seed policy regulations. We also published several reports on these findings. The topics included potato seed regulation in Kenya, regional registration of publicly bed varieties, and identifying properties for public crop varieties. A visit to the Kenya Agricultural and Livestock Research Organization (KALFO) enabled staff at the Tanzana Agriculture Research Institute (TARF) to learn about KALRO's licensity models for seed companies whiting to sell its improved varieties. We also facilitated the formalization of material transfer agreements between TARFI and Tanzania's Agriculture Agency.

In Nigeria, we reported on Plant Variety Protection at a national training and awareness creation nortashop. We also participated in a cowpea variety licensing workshop and spearheaded other activities, at the request of the National Agricultural Seeds Council. For Nigeria and Mail, we other no study of the no-value chain. Our goal is to improve contraination between timers, injust supplier aggregators, processors, traders and storage operators. Better coordination should encourage foreign revestment in rice milling and processing, equipment supply, or other parts of the value chain. The Aggrena assessment freshed in 2022; we expect to linative adults the year. We hen plan a series of relecting to validate the findings and to share the recommendations and opportunities with potential

In Indonesia, we brought fogether 60 representatives from the public, private and development sectors to discuss the results of our study on reorienting agricultural R8D (see above). Our supported recommendations help inform the discussions at and between institutions such as the National Research and Innovation Agency, and the Ministries of Agriculture and of National Development Planning. Several follow-up meetings have enabled further deliberation on the recommendations and required

ADVANCING OUR EMPLOYEES

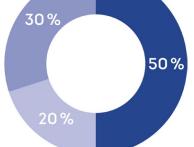
We want to be the best foundation we can. Internally, achieving this goal requires close attention to personal development and to <u>Diversity & Inclusion</u> (D&I). Promoting gender equality continues to be a major focus. Our min is an inclusive and supportive workplace in which all employees thrive be an displort our properties of the propose of the properties of the prope

vourier's situation in the windpace varies internationary. This is also tude of the continues it within the foundation works. We continue to additiess specific challenges faced by our female employees. These include their wellbeing during extended field visits, notably in the areas of menstrual hygiene and night time safety. Our Indian team has also been running educational sessions to tackle sexual harassment. We are now exploring how best to adapt this training to local situations in other countries

Personal development and the Foundation's work both additionally benefit from our internal Communities of Practice. We currently have one focused on climate-mart agriculture and another on impact measurement and management. Those platforms enable our country teams to share experience and insights with colleagues across the Foundation. In addition, our Portfolio Management team shares lessons from completed projects, successful or otherwise.

### **PARTNERS AND** RESOURCING

We are very grateful for the financial and in-kind support of Syngenta AG and our other rs. In 2022, they provided funds of \$40 m. These we



### COMING FUNDS 2022

Funds from First Part
Funds from Second P
Funds from Third Par

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Total sum raised. This includes funding provided by Syngents Ad to SFSA RD and country offices as well unding from other sources that goes directly into local organizations and program. Intentin fluxual laterments, unsudded, in 2022, funds from "First Party" (Syngenta) also include the contribution to Syngerta Foundation India.

### OUR PROGRESS IN NUMBERS

|                                  |        |       |       |      | Submicasics a |                         |       |       |      |      |  |
|----------------------------------|--------|-------|-------|------|---------------|-------------------------|-------|-------|------|------|--|
|                                  |        |       |       |      | supported pr  | upported products (SPs) |       |       |      |      |  |
|                                  |        | 2020  | 2021  | 2022 | 2020          | 2021                    | 2022  | 2020  | 2021 | 2022 |  |
| Agriservices                     | Asia   | 607.1 | 883.3 | 1599 | 4003          | 7590                    | 14508 | 23.4  | 97   | 119  |  |
|                                  | Africa | 28.3  | 35.8  | 124  | 171           | 217                     | 332   | 1.6   | 1.9  | 3.8  |  |
| Agricultural Insurance Solutions | Asia   | 32    | 173.7 | 386  | 31            | 14                      | 26    | 0.020 | 0.11 | 0.68 |  |
|                                  | Africa | 100.4 | 66.1  | 348  | 27            | 34                      | 43    | 0.75  | 0.71 | 6.8  |  |
| Seeds2B                          | Asia   | 16.5  | 31.9  | 39.4 | 34            | 31                      | 55    | 0.77  | 1.4  | 1.7  |  |
|                                  | Africa | 90    | 181.7 | 224  | 152           | 94                      | 74    | 5.3   | 6.5  | 9.6  |  |
|                                  |        |       |       |      |               |                         |       |       |      |      |  |

### OTHER 2020-2022 DATA

|                                  |        | 2020 | 2021   | 2022 | 2020 | 2021               | 2022               | 2020  | 2021  | 2022  | 2020 | 2021            | 2022             |
|----------------------------------|--------|------|--------|------|------|--------------------|--------------------|-------|-------|-------|------|-----------------|------------------|
| Agriservices                     | Asia   | 122  | 20.5 1 | 462  | n/a  | 33%o               | 32°/o              | 17º/o | 23°/o | 35°/o | nfa  | 6600<br>(56°/o) | 16251<br>(65°/o) |
|                                  | Africa | 10.2 | 11.6   | 24.5 | n/a  | 14°/o              | 39°/o              | 29°/o | 26°/o | 38°/o | n/a  | 576<br>(57 %)   | 670<br>(49 %)    |
| Agricultural Insurance Solutions | Asia   | 11.2 | 202.8  | 291  | nla  | 25%                | 19°/o              | nia   | nla   | nla   | n/a  | n/a             | n/a              |
|                                  | Africa | 8    | 20.3   | 34.9 | n/a  | 39%                | 42°/o              | nía   | n/a   | nía   | nla  | nla             | nla              |
| Seeds2B                          | Asia   | 1.9  | 6      | 0.7  | n/a  | 15*/o <sup>2</sup> | 28°/o <sup>2</sup> | nla   | n/a   | nla   | nla  | nla             | nla              |
|                                  | Africa | 7.7  | 12.4   | 18   | n/a  | 27°/o <sup>2</sup> | 2151/02            | nla   | n/a   | n/a   | nla  | nla             | nla              |
|                                  |        |      |        |      |      |                    |                    |       |       |       |      |                 |                  |

- 2021-2021 acts not yet alvalation for most or or the contempopulous.

The number of people attending capacity-building activities given, funded and/or supported by SFSA. Type of participants include farmers, public (e.g. local organizations, academia, local government representatives) a revisals formal and medium enterprises larlers.

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undation for Suntainable Agriculture



<sup>&</sup>lt;sup>4</sup> Data per gender are not available for certain programs

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