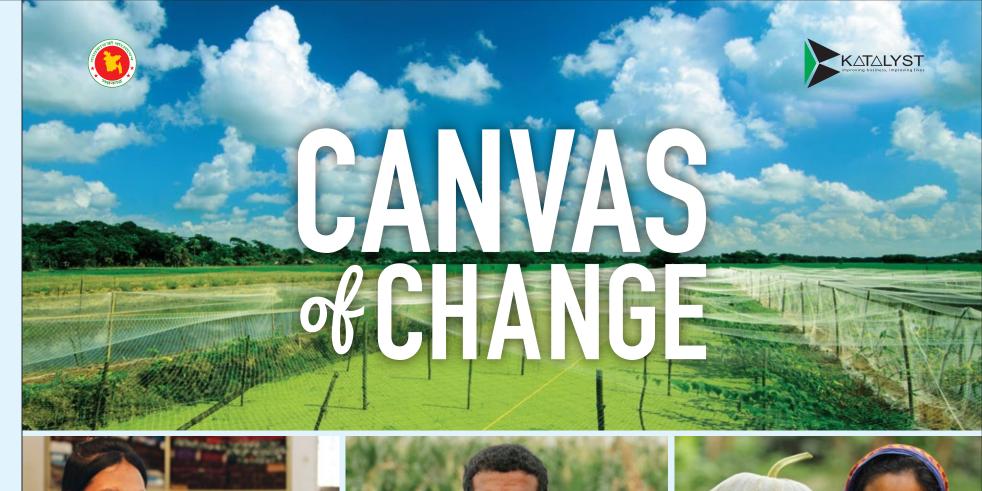
Katalyst Project Office

House 20, Road 6, Baridhara, Dhaka-1212, Bangladesh Tel: +(88)-02-883 3172-4 Fax: +(88)-02-883 5452 www.facebook.com/katalyst-swisscontact www.katalyst.com.bd www.swisscontact.org









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CANVAS & CHANGE







Agri-business for Trade Competitiveness Project (ATC-P), branded as Katalyst, is a market development project which aims to increase the income of poor men and women, thereby contributing to sustainable poverty reduction in Bangladesh. Katalyst has been working in Bangladesh since 2003 and the project's current phase, Phase 3 commenced in March 2014. The livelihoods of poor people depend or market systems in which they are involved as labourers, producers entrepreneurs and consumers. Often however, the poor are systematically excluded from these markets. Katalyst uses the approach of Making Markets Work for the Poor (M4P) to break this vicious cycle of poverty. M4P identifies the barriers preventing poor people's participation in the markets and the root causes of this, and finds innovative solutions to overcome them in partnership with the public and private sectors. It partners with a wide range of private companies to ensure the inclusion of the poor in their business models. This benefits both the private companies and the poor. The project has so far reached out to over 3.5 million farmers and small enterprises, and increased their income by USD 430 million.

Canvas of Change brings you stories from Phase 3 and presents the positive impact that Katalyst is achieving. We believe that stories are the best medium to capture that impact, and this booklet expresses from the perspective of the beneficiaries themselves, how the poor are benefiting from Katalyst's innovative approach. These beneficiaries describe how Katalyst has brought real change to their lives. This has

been possible because they have adopted some of the innovative services and products that Katalyst has introduced to them through local partners: where to find quality inputs like quality seeds and how to use them, how to select the right type and apply the correct amount of fertiliser, where and how to access relevant and accurate agriculture related information, how to successfully link up with output markets in order to sell their produce at the best time and for a good price, and much more. These services and products have given people living in poverty new skills, knowledge and information to increase their income and improve their living conditions. As a result, these families now earnutritious food on a regular basis, and fulfil their dreams of educating their children, building durable homes, and living more secure lives.

We are happy to share with you the stories of our beneficiaries in this booklet, which are testimony to the success and positive impact of our 15 years of work in Bangladesh.

Happy readin

Markus Ehmann General Manager Nasir Ahmed Head of Capitalisation, Communications and External Relations Katalyst











Across Bangladesh, more than four million people are engaged in commercial or homestead vegetable farming. The vegetable sector thus plays an important role in improving the livelihoods of small farmers. Katalyst identified how small vegetable farmers can further improve their yields and increase their incomes by using a balanced mix of fertilisers.

Md. Rejaul Sheikh from the village of Shekhor, Faridpur district, learned how to grow vegetables from his father and grandfather. Rejaul and his three brothers each have five bighas (approximately 2 acres) of land where they cultivate seasonal vegetables to make a living for their extended family of 17 members, who all live together under one roof. One day, after yields had fallen below their expectations, Rejaul and his brothers consulted a local input retailer from their village, who told them about the need for balanced fertilisation. However, they thought the costs were too high and the expected outcome too vague to justify the extra investment needed in quality fertilisers.

This changed when Rejaul attended a training session in his village provided by Katalyst and its private sector partner Petrochem. Here, he had a first-hand experience of the benefits and usage of







the balanced application of fertilisers: "The training taught me the importance of using a combination of macronutrients, micronutrients and compost fertilisers, and of choosing which fertilisers to apply before, during and after cultivation. I didn't really believe that a mere change in fertiliser application would create any significant impact, but visiting a demonstration plot and talking to the lead farmer convinced me to give it a try," Rejaul says.

This, as Rejaul goes on to say, was one of the best decisions of his life. In 2015, when Rejaul applied a balanced mix of fertilisers, by using a proper mix of micro, macro and compost, for the first time, his harvest doubled – and seeing the result, his brothers instantly followed him suit. The slightly increased investment they have had to make in quality micronutrients has more than paid off for Rejaul and his brothers.

Rejaul now makes an annual profit of BDT 100,000 (USD 1205) from vegetable cultivation on his land, a three-fold increase from before. With his extra earnings he bought another 2 acres of land for vegetable cultivation. Alongside this, having learned about the importance of properly storing his produce to keep it safe and healthy in order to achieve a higher market price, Rejaul invested in two warehouses where he stores seasonal products.





from friends and relatives, yields were never enough to make ends meet. As a result Almas, being family's main earner, had to take on extra work and odd jobs.

Three years after Almas started to grow maize in the hope of a better life for himself and his family, things started to change. Katalyst and its private sector partners in the maize sector developed a business model whereby input companies such as Petrochem provide training and information to small maize farmers, in turn creating loyal customers who acquire quality inputs (such as fertilisers and seeds) from the companies authorised retailers/dealers. Almas heard about the training offered by Katalyst and Petrochem in a neighbouring village and decided to attend a session. The hands-on training included information about the benefits of using quality seeds and fertilisers, modern cultivation techniques, improved irrigation management, and proper harvest technology. Putting this newly gained knowledge to use in his fields, Almas experienced a growth in yield, and encouraged by this unfolding success he attended four more training sessions.

He says that thanks to using modern cultivation practices, his yields and income have increased considerably: "I never knew about the importance of using a balanced mix of macronutrients, micronutrients and compost fertilisers to maximise yields. Since starting to use the right dosage



and combination of these three inputs, my harvest has been increasing and I can sell much more maize grain."

Before Katalyst's intervention, Almas obtained 15 maunds (0.6 Metric Tonnes, or MTs) of maize grain every year from one bigha (0.4 acre) of land, earning him a profit BDT 9,000 (USD 108); now he harvests an average of 30 maunds (1.2 MTs), earning him a profit BDT 18,000 (USD 217) a year, investing minimum amount on inputs. This is all thanks to the usage and balanced application of quality fertilisers. With his additional income, Almas recently bought a new house for his family; he is earning a stable, regular income which allows him and his family to live a decent life. His eldest son, aged 23, has also started maize farming on land, Almas bought for him using the additional income. Almas has also become a mentor to other farmers in his village on modern, commercially profitable maize farming methods, and is proud to share his knowledge with them.

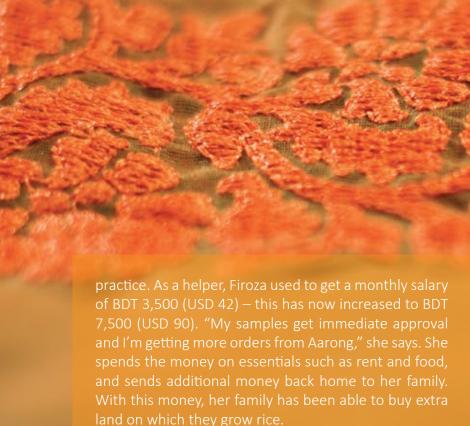


vegetables to feed the family, but over time we found ourselves struggling more and more. So I decided to take my destiny in my own hands and go to Dhaka. I wanted to be able to take care of myself and support my family at the same time," Firoza says.

Firoza really struggled when she first came to Dhaka. She knew no one, and many people tried to exploit her, making false promises and giving her false hopes. "I was on the point of giving up when I came across an employment opportunity at Isabah Enterprise, owned by Md. Rejaul Islam Rana. I started as a helper under the supervision of Ms. Mou, the owner's sister. Ms. Mou was like a mentor and a guardian to me – she encouraged me to learn from her," Firoza says. Ms. Mou had taken part in the Katalyst and Aarong skills training programme and, recognising her efforts and dedication to her work, passed on to Firoza the relevant parts of the training she had learned. Through this, Firoza learned about embroidery work and quality checking.

She proved a fast learner and was promoted to the position of quality controller, meaning that she was able to put her newly gained knowledge into



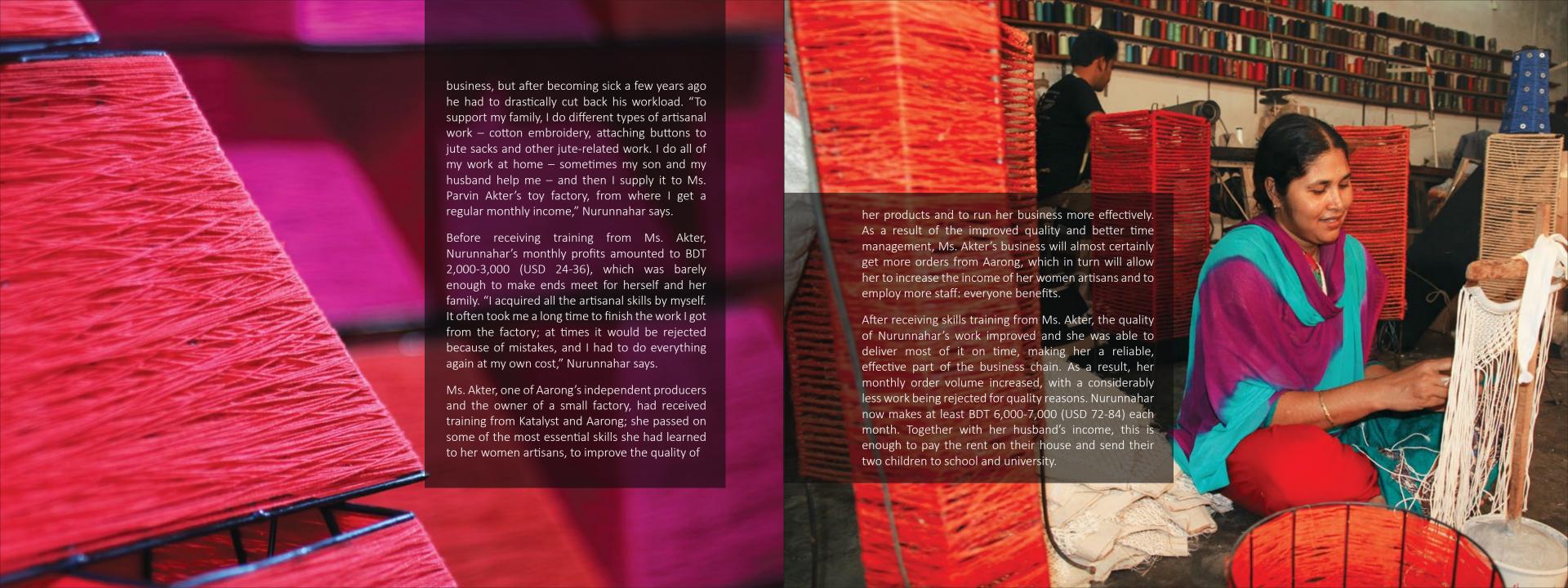


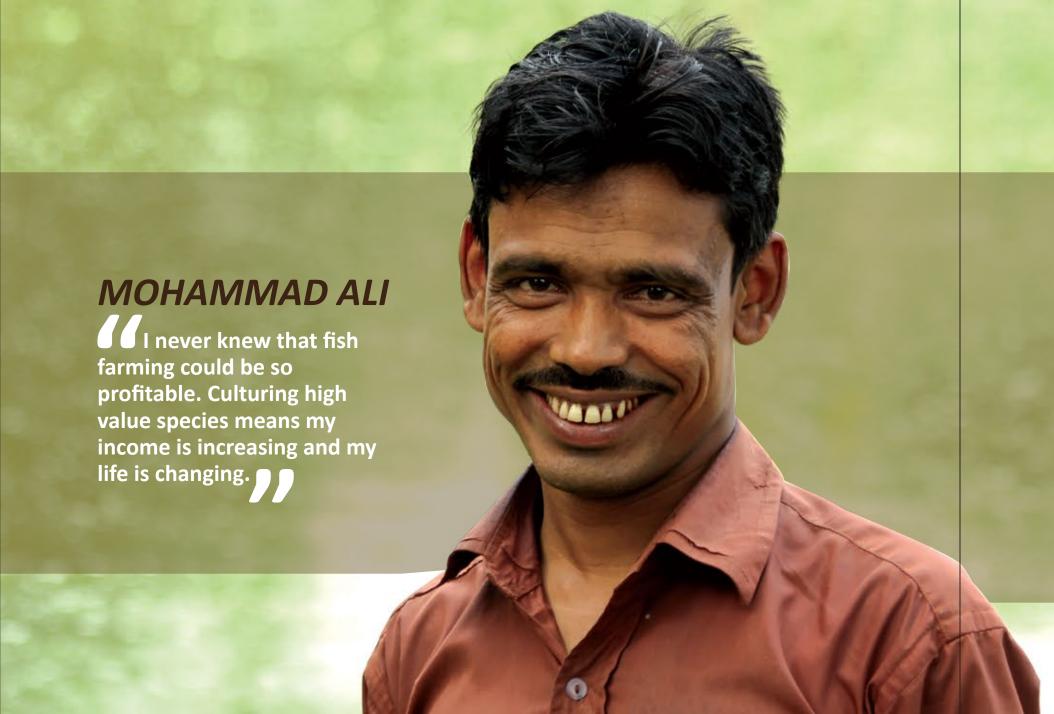
The training that Firoza has received, not only provided

achieved: she has gone from being a helper to becoming a quality controller with a staff of eight working under her.

Now Firoza is keen to attend more training and improve her business skills. She wants to build on her knowledge and become a small entrepreneur, producing toys she designs herself. Thanks to the training and the immense impact it has had on her life, Firoza is confident that she can achieve anything she takes on







of effective culturing techniques tends to be limited,









farmers' productivity. Katalyst identified that at sub-district level, agriculture traders have an established relationship with extension officers and at the same time a healthy interaction with farmers, who they either supply or buy from. Usually formed into associations, these traders are appropriate actors for the project intervention to target, having both the incentive to create better access to extension services for farmers, and being in the position to do so.

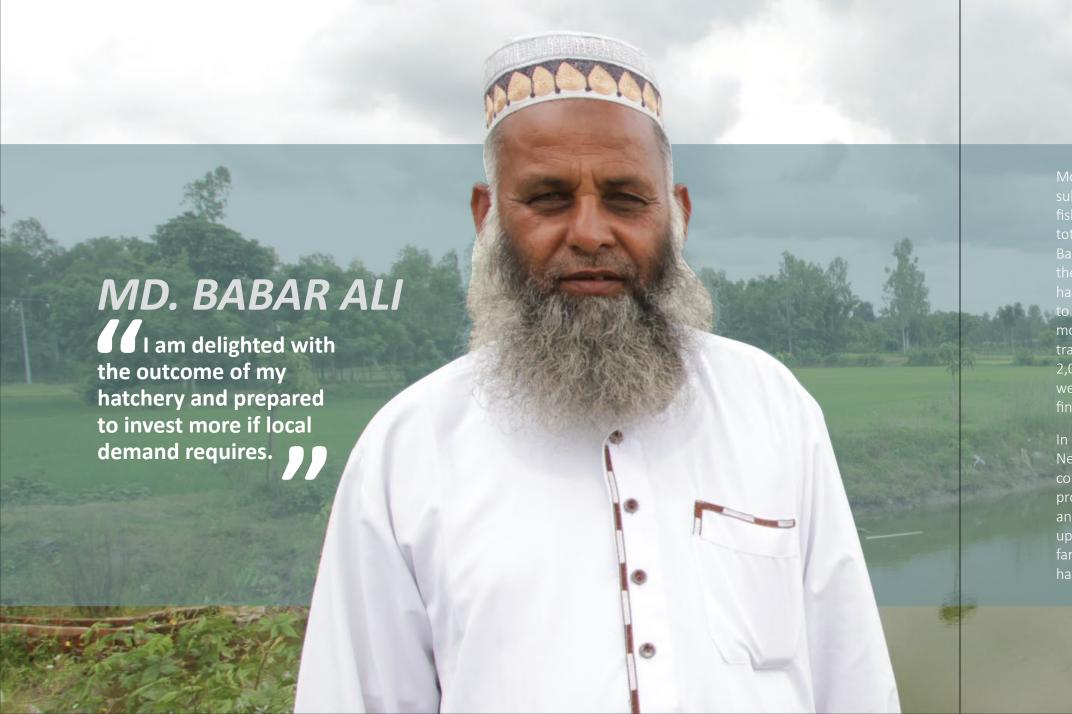
Katalyst's Local Agri-business Network (LAN) taps into local trader association potential by enhancing its capacity in advocacy and organisation management. A trader association can reach groups of farmers as clients, and at the same time support them to access the agricultural extension services they need. By putting traders in the role of facilitator, LAN has created a complementary channel to support public extension services to reach farmers more efficiently. In order to make this linkage formal and organised, sector-based public-private initiative (PPI) committee is formed jointly by extension officers and traders, comprising representatives from three parties — farmers, input and output traders, and extension officers. This committee addresses any major issue raised by farmers, taking appropriate action by sharing resources, roles and responsibilities.



Fazlul Haque, through his farmer group, became associated with the LAN and participated in training on the use of quality seeds, and effective crop protection methods (such as sex pheromone traps, disease prevention and how to apply a balanced mix of fertilisers). Farmer training like this is arranged by the trader association, with the extension office providing the technical resources and the association helping bring the farmers together, arranging a venue, and providing logistical support.

According to Fazlul, the training has helped him enormously. His yields are improving and the increased income he gets as a result helps him to meet his family's needs. Now, with support of the local trader association, extension officers can communicate regularly with farmers like Fazlul to check on their progress and provide advice whenever necessary.

The LAN initiative has strengthened the link between farmers and extension offices with help from local trader association representatives. Regularly scheduled PPI meetings help both government officials and farmers identify emerging issues and plan effectively for the forthcoming season. In keeping with Katalyst's M4P approach, LAN has enabled farmers like Fazlul Haque to get quality inputs when he needs them, the information to use them correctly, and enhanced his ability to compete in the market.



Md. Babar Ali is a hatchery owner in Baliadangi sub-district, Thakurgaon district. He has been cultivating fish since 2007 and currently owns five ponds covering a total area of 800 decimals (8 acres). The main difficulty Babar and other local fish farmers faced was sourcing the fry and fingerling they needed — there was no hatchery in their locality, and instead they had to travel to government hatcheries in Parbatipur sub-district, more than 100 kms away. They either rented a car to transport the fry back home, which cost at least BDT 2,000 (USD25), or used a motorbike if the amount they were carrying back was small. Either way, the fry and fingerling were getting damaged during transportation.

In February 2015, Katalyst's Local Agri-business Network (LAN) formed a public-private initiative (PPI) committee for the fisheries sector to address the problems of the fish farmers by sharing their resources and responsibilities. The committee comprised the upazila fisheries officer, upazila traders and fish farmers, including Babar Ali, and it identified that a hatchery in Balidangi sub-district would help the fish



farmers overcome the problem of wastage during transportation. Babar Ali recognised a business opportunity and was persuaded by the farmers' demand for fry and fingerlings to invest in building a hatchery. The upazila extension officers assured him they would provide the technical knowledge to make his business a going concern, and local fish farmer representatives agreed to get their fry and fingerling from his hatchery as soon as it was up and running.

Encouraged by the PPI committee's response, Babar started to build his hatchery, with an investment of BDT 1,500,000 (USD 18,750). The extension officer made suggestions about layout and design, and assisted Babar to source BDT 400,000 (USD 5,000) worth of mother fish for the hatchery. He also recruited five employees who he pays BDT 39,000 (USD 500) a month.

In January 2016, Babar Ali's hatchery had produce ready to sell. In the first month he sold BDT 53,400 (USD 668) worth of fry, and indications are that he is likely to earn BDT 1,760,000 (USD 22,000) from the sale of fry and fingerling, which will almost cover his investment.







The availability of relevant, up-to-date agriculture information and services is one of the key elements needed to empower small farmers, allowing them to reduce potential losses and increase productivity. Katalyst identified that information and communication technologies (ICT) such as mobile phones offer an effective and easy way to help get farmers the support they need. In 2008, Katalyst and telecom operator Banglalink established a call centre-based helpline which provides farmers with solutions to their agriculture queries.

Omar Faruk Mondol from Jaipurhut district is a vegetable farmer and day labourer. Together with his father, a rickshaw puller, he makes a living for himself and their family. Whatever they earn is spent on household essentials.

Omar has been growing vegetables for the last four years. At first, he leased some land and started to grow bitter gourd. However, the yield was always lower than expected. "I needed some reliable information on what I could do better or what I was doing wrong. But every person in the village who I asked gave me different advice. I didn't know what to do," Omar says.







Then one day, as he was selling some of his meagre harvest at the local market, Omar saw an advertisement painted on a wall. "It said to call 7676 for agriculture information and advice. I immediately made a call on my mobile and spoke to one of the call centre agents," Omar goes on to say.

Katalyst has partnered with Banglalink to launch the agriculture helpline 7676 as an effective, easy-to-reach platform and fast way to disseminate agriculture information to rural farmers. Krishi Jigyasha 7676, introduced in 2009, has been widely accepted by farmers, with more than 385,000 calls registered in 2011 and 2012. Utilising the experiences of this helpline, Banglalink is also partnering with the Department of Agriculture Extension to launch another helpline service, connecting farmers to their nearby agro extension officers.

Omar's story shows how effective such an innovative ICT-based solution can improve the lives of millions of farmers across Bangladesh.



After describing to the call centre agent the cultivation methods he applies, which crops he grows and the issues he faces, Omar learned how and with which dosage to apply urea and potassium fertilisers in order to improve his yield. He also found out about the most effective crop protection methods available to reduce losses. He has called 7676 another three times to obtain agriculture information he can trust.

Omar has obtained information about pesticide spray on his vegetables that was affected by insects. Through 7676 helpline, Omar has been able to increase his annual profits considerably, to BDT 86,000 (USD 1,036) from selling vegetable. With the additional income his bitter gourd production brings him, he has bought a water pump which ensures safe drinking water for his family. He also puts away some money for emergencies and necessary household expenditure.



brothers live in the same locality and they support each other in times of need, often discussing the agricultural issues affecting them. Last season, one of Shariful's brothers recommended the bottle gourd seed sold by Metal Agro. Motivated by his brother's bumper harvest, Shariful bought some of the seeds from a retailer, who told him about Metal Agro's newly launched customer care solution.

Shariful has been involved in farming for the last twelve years, but still felt ill-informed about the ever-changing scenario of new plant diseases. He was familiar with just a few common pesticides, which he used when necessary. Following his brother's suggestion, Shariful grew bottle gourd on the 15 decimals of land he owns, but after a month, noticed that the leaves were crumbling and turning a toxic yellow. The medicines he applied did not help and every day he was losing part of his potential valuable harvest. Poverty seemed imminent.

When his brothers were unable to come up with an answer, Shariful decided to approach Metal Agro's customer care service the call centre agent recommended a powder, based pesticide; Shariful took this advice and after two weeks his crops were disease-free and healthy again. Encouraged by this success, his brother can now access the helpline





One of the major factors inhibiting economic growth in Bangladesh's agriculture sector is farmers' lack of access to relevant agriculture information. Both the public and private sectors have a competent extension workforce and distribution channel systems in place; however, resource limitations mean a vast number of farmers still are not being included in the information loop. Katalyst has been working with public and private actors in Bangladesh's ICT sector to address this market constraint. Utilisation of rural digital centres (known as Union Digital Centres, or UDCs) to disseminate agro information to farmers has been one notable example.

In 2015, Katalyst partnered with Access to Information (A2I), a government programme based at the Prime Minister's Office, which has established UDCs, one-stop ICT service outlets operating in all 4,547 union parishads of the country. The centres are owned by the government but run privately by rural entrepreneurs. Generally, each UDC has a dedicated broadband internet connection connected to a computer, along with other hardware support such as projectors and a photocopier. The entrepreneurs offer a wide range of online and offline ICT-based services, which include government services (for example e-passport, national ID card registration), livelihood information,





computer training and mobile banking. These digital centres are located at union parishad level, the lowest tier of local government, making the service easily accessible to all the farming households in that union. Each union in Bangladesh has an average 25,000 inhabitants, any of whom can access the services offered by the local UDC.

Fifty UDCs in the Rangpur division were shortlisted for Katalyst's pilot, based on farmer footfall in these centres, with the objective of equipping them as effective sources of agriculture information dissemination. Katalyst established a linkage between A2I and digital content provider WIN Inc, to develop a website with comprehensive agriculture information solutions which could be accessed by the UDC entrepreneurs to help farmers with a range of agriculture-related queries. The UDC entrepreneurs were then trained to use the website and other sources of agriculture information (such as the fertiliser recommendation software (FRS) operated by the Soil Resource Development Institute) effectively, to provide agriculture information solutions to farmers. In addition, A2I and Katalyst collaborated in organising farmer-focused awareness activities to educate farmers about the newly introduced service in UDCs.



Md. Nurul Alam is one of the many farmers who has visited a UDC to get agriculture information and who has benefited through improved productivity. Nurul is a 36-year-old farmer who lives with his wife and two children in Bondorpara village, Kochukata union. His father was also a farmer, and Nurul was involved in farming from a very early age. In November 2015, Nurul attended a courtyard meeting, part of the awareness campaign driven by A2I and Katalyst. The very next day he decided to visit his local UDC. He was planning to grow maize, and was concerned that his knowledge about the proper application of fertiliser dosage may not be up-to-date. Mr. Razzak, the UDC entrepreneur, accessed the FRS to advise Nurul on the best dosages relevant to his land. Nurul took a printout of the advice away with him, and later applied it in his practice.

Nurul used the information to grow maize on his 30 decimals of land. His yield increased significantly, from 800 kgs in the previous season to 1,120 kgs, giving him and his family an increased income of BDT 4,000 (USD 50). Nurul is clear about the reason for this success. He says, "The information I got from Mr. Razzak was really helpful – it was the first time I'd learned about the practice of balanced fertiliser usage. It gave me better productivity and a reduction in my production costs. Following my success growing maize, I've already visited the UDC again to get information on potato cultivation, which I'm engaged in at the moment – and I'm hoping it'll bring me similar results."

