



BRIDGING THE DIGITAL DIVIDE

01

02

03

04

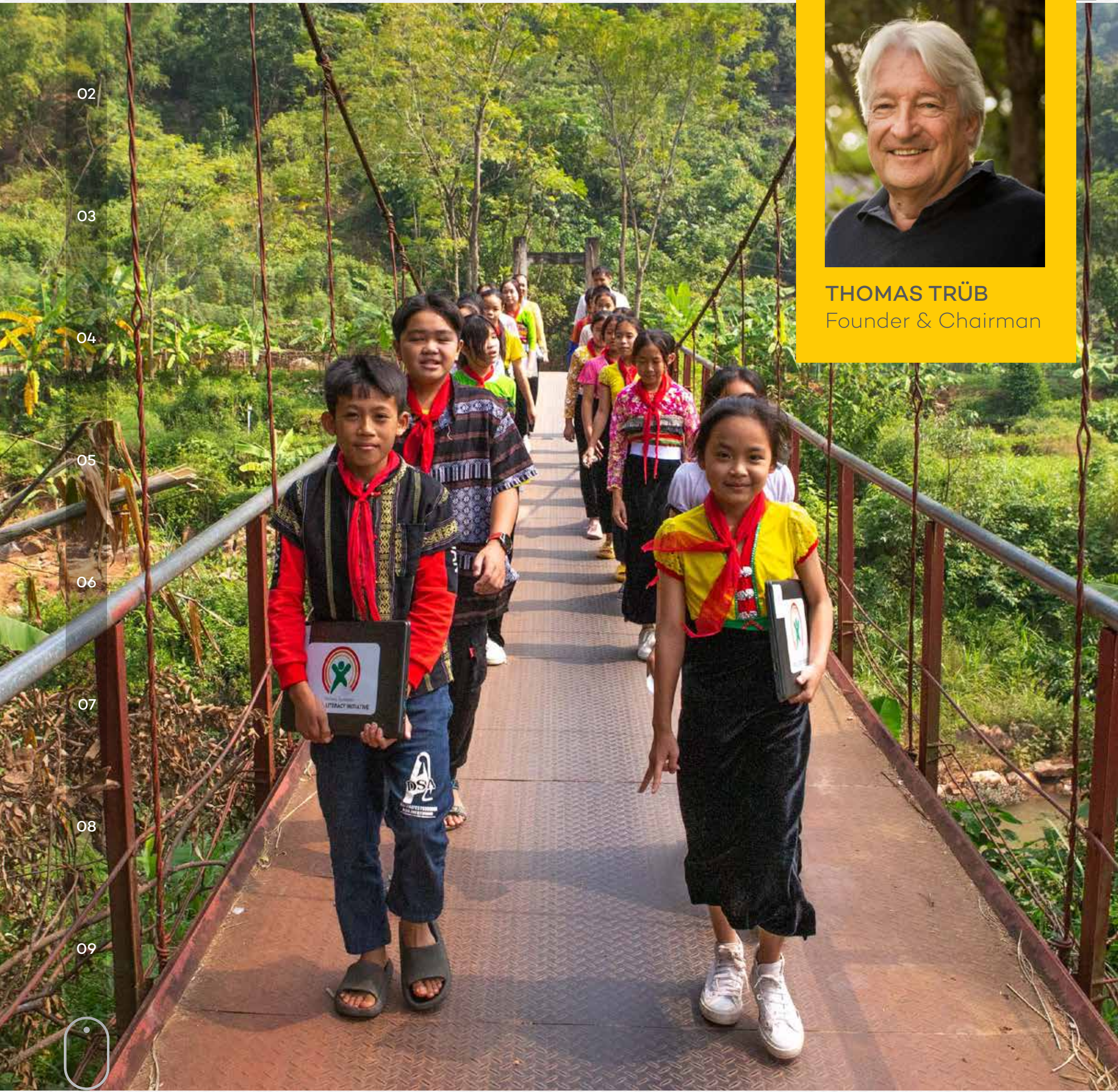
05

06

07

08

09



THOMAS TRÜB
Founder & Chairman

Letter From the President

Dear friends,

After the Corona year, 2020 follows the Corona year of 2021, but unfortunately, there is more to come. The military coup in Myanmar in February has plunged an entire country into misery and since then our local partners, who run our mobile coding schools for disadvantaged children, have been unable to conduct courses. We wish from the bottom of our hearts that peace will return as soon as possible, not only in Myanmar. In any case, we are ready to quickly ramp up and expand our activities again.

In Vietnam, the situation was dominated by long-term school closures, interrupted supply channels, and insecure students and teachers. Be that as it may, our employees and local partners developed a strong resilience in these challenging times, adapting to the

ever-changing situation with energy and resourcefulness, and achieving great results:

- A new record of 362,000 boys and girls have successfully completed one or more of our coding classes. Since the launch of our digital literacy initiative (DLI) in 2018, over one million children have received their certificates. I think we can take some pride in that.
- Our plan for 2021 was to provide 1,200 teachers with the skills to teach children how to code. At the end of the year, there were almost five times more. This is a promise for the future. Thanks to the large number of trained teachers, we will be able to increase this number of trained students more notably, and thus satisfy an even larger part of the ongoing demand.

01

02

03

04

05

06

07

08

09

- Meanwhile, we operate 220 code clubs. These clubs are home to our greatest talents where more than 4,000 girls and boys receive in-depth coaching and all the materials needed to develop their own projects (read more about this in Chapter 4).
- Ten projects won awards in local competitions in Vietnam and three projects following suit on the international stage.
- And finally, The Dariu Foundation in Vietnam received an award as an international NGO for its “significant contribution 2021”.

Last year, we also gave a lot of thought to our future. As a result, we have constructed an ambitious and focused five-year strategy directed at three core areas:

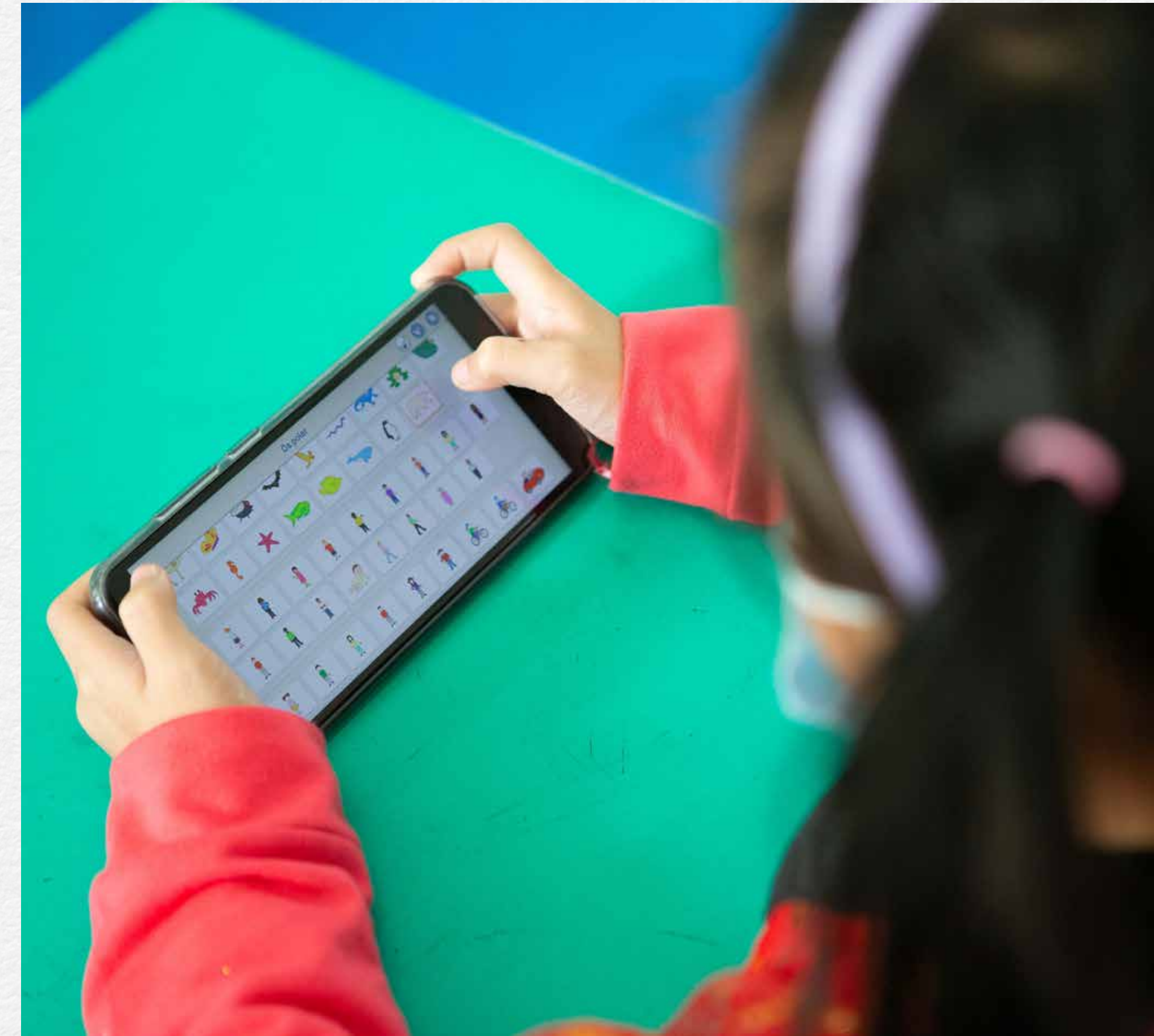
- DLI is an impressive success story of how we enable disadvantaged children to enter the digital world, which will guide them in their personal and professional

development. We want to pursue this path and roll out our experience internationally in partnership with local organizations.

- We want to continue to invest in the qualitative development of our Code Clubs and do everything we can to ensure that they can become national and international champions. This is the declared goal of our “IMPOSSIBLE” project (see Chapter 3).
- DLI is aimed primarily at children between the ages of 9 and 15. The Code Clubs address young people at the college and university levels. And subsequently, in 2022, we want to start a coding school pilot project in nursery schools.

Towards the end of 2022, we will raise a toast to our 20th birthday with all of you, at least virtually, so that we can thank you for your interest and support - here’s to the next five years.

THOMAS TRÜB
Founder & President



01

02

03

04

05

06

07

08

09

Digital Literacy Initiative



DIGITAL LITERACY EDUCATION

Teaching digital literacy in primary and secondary schools is essential, providing young children and teenagers with the skills they need to thrive in an ever-changing digital world. More importantly, digital literacy education enables children to think critically, evaluate their work and engage with a global community. However, computers are an unaffordable luxury for many children in Vietnam, particularly in rural and mountainous areas. Recognizing that digital education is a key driver for social and economic development in today's

digital world, where nearly every career requires digital literacy, The Dariu Foundation has actively been supporting local partners in implementing such education programs since 2011.

65 percent of the children currently entering primary school will ultimately work in a job that does not exist today, according to a recognised estimate

reported by the World Economic Forum. The question becomes, what do we teach our children when a large percentage of tomorrow's jobs do not exist today? There is still a lot that we can do to help our children be equipped for whatever the labor market holds for them in the future. Among them, preparing children with foundational digital skills and

competencies in science, technology, engineering, and mathematics (STEM) is essential. This has become even more apparent during the COVID-19 pandemic crisis, which has obliged teachers and students to adopt alternatives to face-to-face teaching and learning on an unprecedented scale. Again, it is of vital importance to prepare children with the skills they need for their future, and TDF has been making these efforts over the last 11 years.



01
02
03
04
05
06
07
08
09

01

02

03

04

05

06

07

08

09



The COVID-19 pandemic has exposed the extent of the digital divide in education, halted traditional classroom education, and accelerated the urgency for equitable solutions. TDF's program aims to bridge the digital divide among the rural and poorest students across Vietnam, by providing schools that do not have computers with laptops, local IT teachers with professional development to enable them to deliver in-class lessons that provide students with STEM skills, including coding, computer science, and cyber robotics. The program is helping students and teachers a set of transferable skills that facilitate and foster success in school, work, and life; supports career readiness by developing the breadth of transferable skills, most notably 21st-century skills, that will prepare youth to adapt to a rapidly changing labor market, through lifelong learning skills and mindsets.



01

02

03

04

05

06

07

08

09



Highlights in 2021 include:

- 4,000 laptops were delivered to 160 rural schools that do not have computers.
- 362,000 primary- and secondary-level students trained with computing and coding skills to develop the workplace skills needed for economic self-sufficiency, and 90 percent of students developed digital skills and competencies in STEM that can lead to increased employment opportunities.
- + 6,000 teachers provided with professional development training with 80 percent reporting improved confidence in teaching coding skills.

01

With our Digital Literacy Initiative, we focus on coding. Launched in 2018 with a pilot project, we will have trained around 1.5 million children and young people by the end of 2022 and expect to have trained 7 million young people by 2027.

02

03

04

05

06

07

08

2018

We started to
TEACH CODING SKILLS
for rural, disadvantaged kids

2022

We'll have trained
1.5 MILLION KIDS
with digital skills

2027

We'll have trained
APPROX 7 MILLION KIDS
with digital skills

09



01

02

03

04

05

06

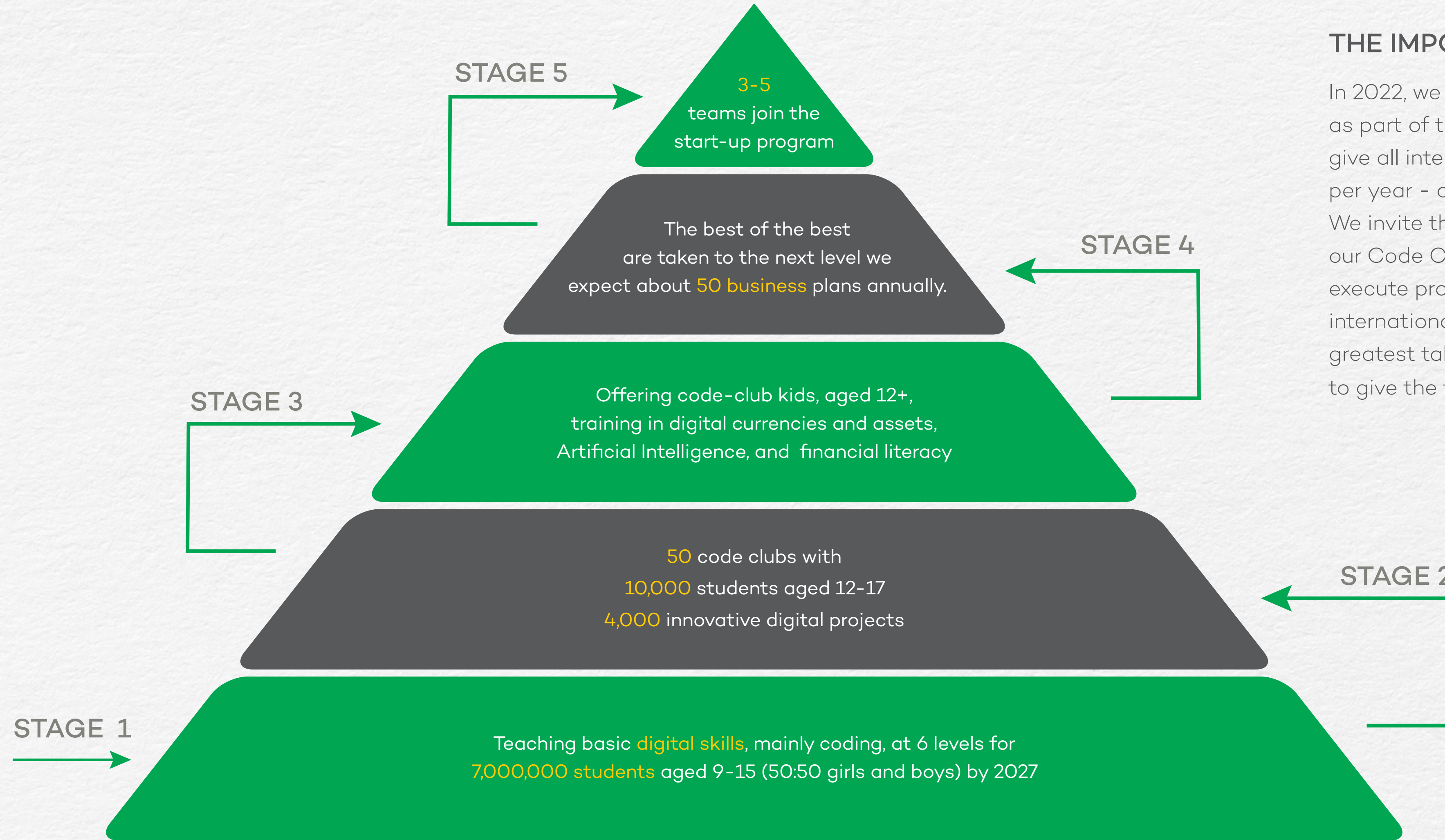
07

08

09

The Impossible Project





THE IMPOSSIBLE PROJECT

In 2022, we will launch our IMPOSSIBLE project as part of the Digital Literacy Initiative. It will give all interested children - around 400,000 per year - access to basic digital literacy. We invite the most talented among them to our Code Clubs, where they can develop and execute projects and enter them in national and international competitions. From among the greatest talents, we select those whom we want to give the tools to become entrepreneurs.

Our geographical expansion



We are convinced that with this approach, we are not only meeting the health and well-being needs of children and young people in fast-growing cities, but also creating systems that enable young people from rural areas to adapt and use the knowledge they have learned when they move to the city. That's why we plan to take our initiative to more countries in Southeast Asia.

01

02

03

04

05

06

07

08

09

Code Club Projects & Prize Winners



01

02

03

04

05

06

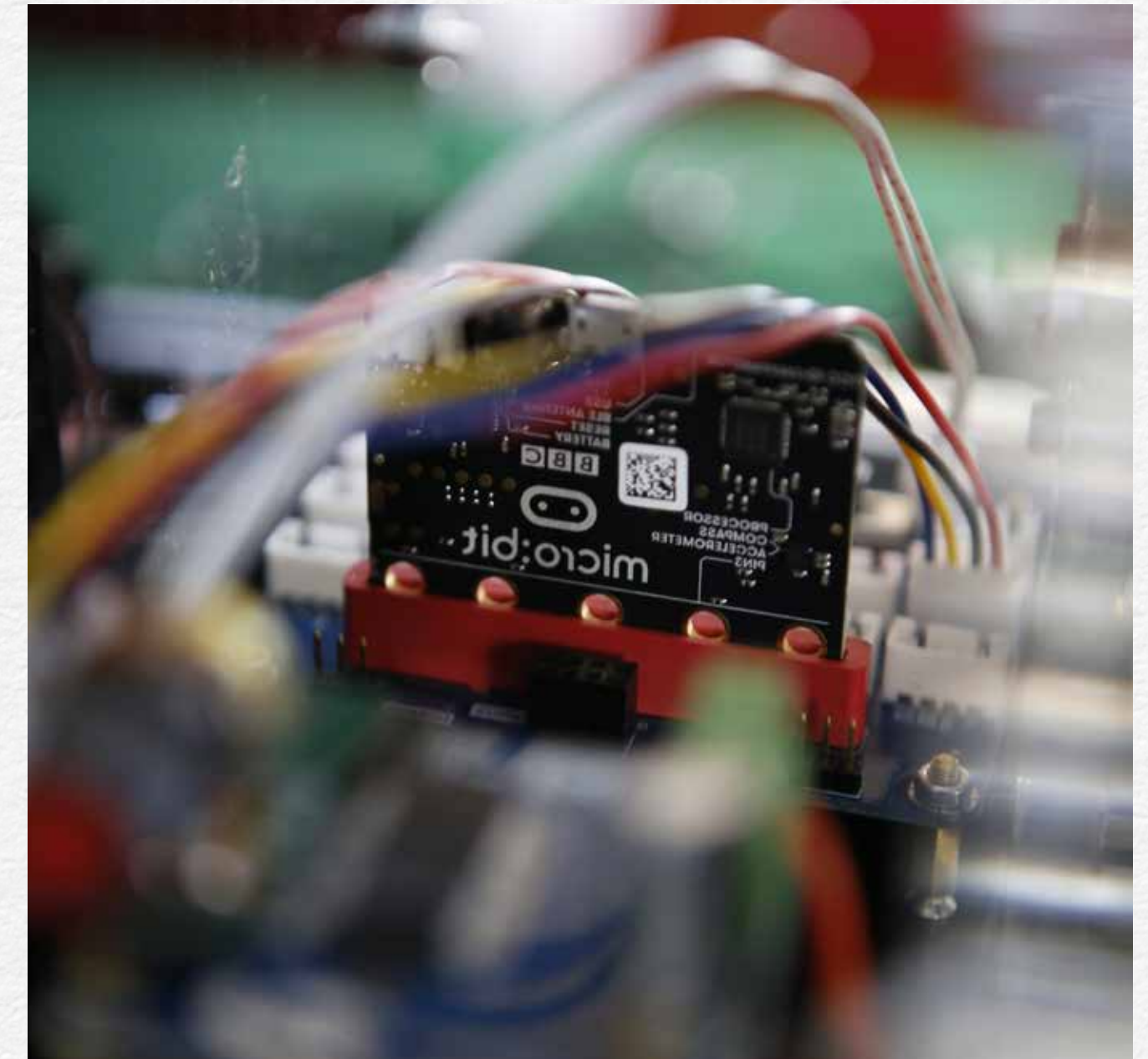
07

08

09

WHAT IS A CODE CLUB?

A Code Club is an extracurricular club for young and talented students aged 9–15. Clubs are organized by IT teachers and supported with free resources provided by The Dariu Foundation. Each club has 20–30 members (30 maximum) who show interest in and passion for digital skills, and voluntarily participate.



WHAT HAPPENS AT A CODE CLUB?

At the weekly club sessions, the members participate in training sessions, develop project concepts and ideas, then follow the projects either guided by their teachers or developed by themselves. Club organizers (IT Teachers) assist their students to progress throughout their projects. Competition events are organized on a regular basis, either by TDF or local partners.

01

02

03

04

05

06

07

08

09

WHAT'S NEXT AFTER CODE CLUB?

Our aim with Code Club is to train all students in computing and coding skills at basic levels (around 350,000-450,000 students per year). Through Code Clubs, we strive to attract around 2,000-2,500 talented students yearly, who will continue to be trained in two major categories: advanced coding and financial literacy.

Concerning coding, the Code Club teachers and students will be trained in advanced levels of Python, NFT, Cryptocurrency, Blockchain, and AI. As for financial literacy, our students will be trained in soft skills such as the fundamentals of entrepreneurship, design thinking and innovation, problem-solving skills, how to lead a team and control your budget, how to market your product/service, leadership skills, work and time management as well as negotiation and pitching skills.

From the 2,000-2,500 students who have complete our offline and online training

program, TDF will organize a competition to select 100 of the leading students to join the incubation process. During the incubation process, students will be guided to develop and complete specific projects, which will be presented to the judging panel. TDF and its partners will develop a network of mentors to support the selected students in teams. Each team can have one or several mentors and a mentor can support one or several teams. The mentors are selected from the IT sector, tech companies, including Qualcomm, Intel, Microsoft and Google.

The three premier projects will be provided with seeding capital from TDF for commercial development. Participants will have to sign a form prepared by TDF, in which they agree to contribute at least 10% of their profits to the Digital Literacy Initiative, including the Impossible project.



01

02

03

04

05

06

07

08

09

HIGHLIGHTS 2021

- 220 Code Clubs in operation
- 4,000 members participating in learning and developing innovative technology-enabled projects
- 373 projects developed by the Code Clubs members
- 10 projects awarded locally and internationally



Project Highlights

Project 1: THE AI CHATBOT

Instructor: **Ms Duong Thi Dieu**

Developed by: **Bui Duy Manh – 16 years old**

School: **Vung Tau High School** (Ba Ria Vung Tau province)

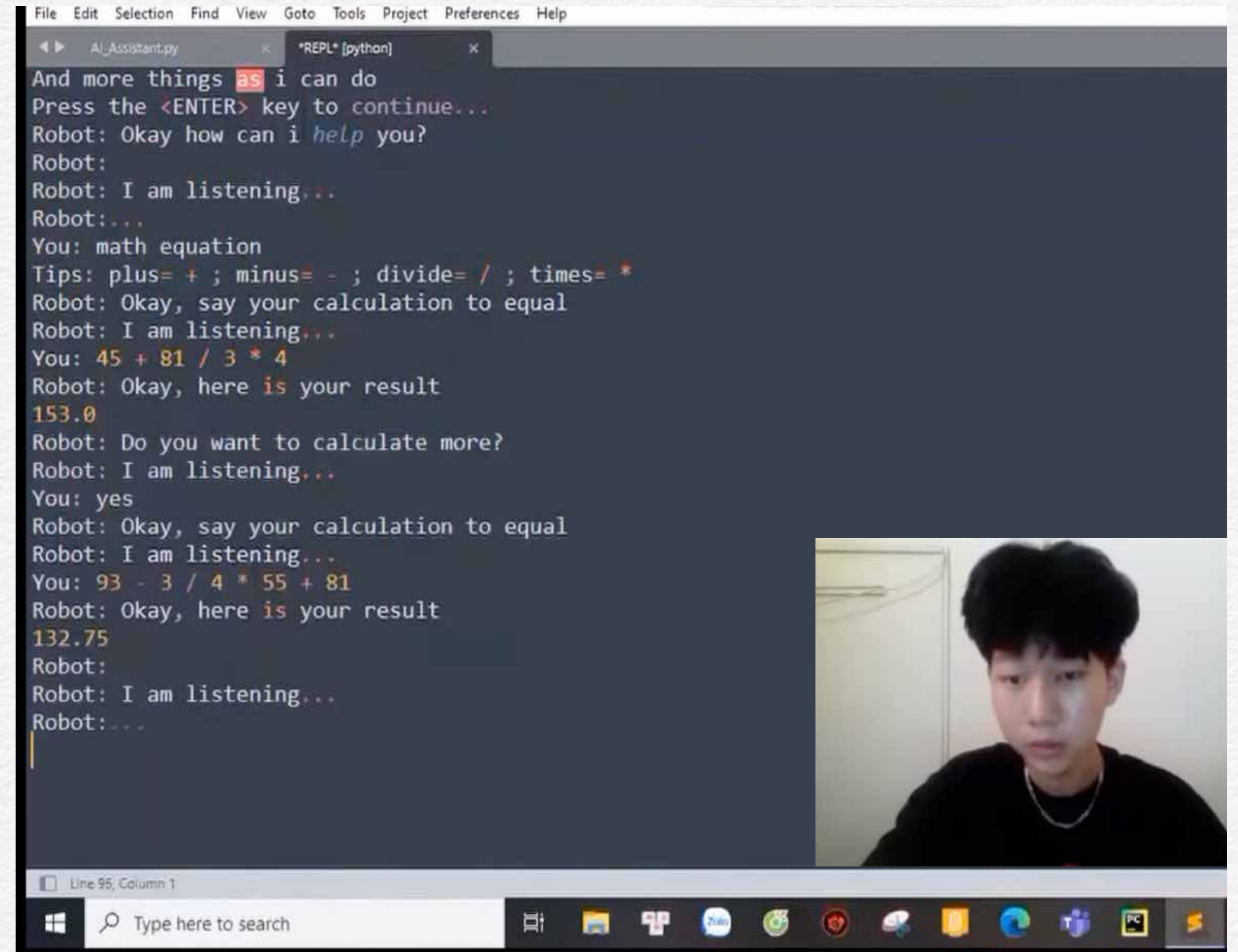
Award: **Honorable Mention** (Coolest Project Malaysia 2021)

What it can do:

- Chat with the Chatbot
- Voice search from Google and Youtube
- Work as a calculator
- Provide Covid-19 updates
- Document/text translation
- Unit convertor
- Open apps such as Facebook, Gmail, Google Map, ...

How does it work:

- To search for information from Google or Youtube, words and phrases can be said out loud and the chatbot will present the search result page/window.
- To make a calculation, numbers and formulas can be said out loud and the chatbot will present the results.
- Or text translation into different languages





Project Highlights

Project 2: THE COVID 19 TESTING ROBOT

Instructor: Ms Duong Thi Dieu

Developed by: Nguyen Van Hien – 13 years old

School: Nguyen An Ninh Secondary School (Ba Ria Vung Tau province)

Award: **1st Runner Up** (Coolest Project Malaysia 2021)

What it can do:

- Mask wearing checkpoint, reminding users to wear mask correctly
- The robot will ask several questions including what you have done in the past few days, then refer to the appointed doctor
- Offer Covid-19 test kits and read the result

How it is programmed:

- Use a teachable machine to identify the mask. It is capable of recognizing objects and voices by programming.
- Use commands such as “broadcast” to list down the questions. The broadcast command will be applied to buttons to move between steps.
- The robot is programmed to communicate with the patient for examination or vaccination.

Project Highlights

Project 3: COMMUNICATING ASSISTANT FOR THE DEAF

Instructor: **Ms Bui Thi Hiem**

Developed by: **Dinh Cong Hieu (15 years old);
Nguyen Thi Yen (13 years old) Ha Dinh Hai Dang (15 years old)**

School: **Cun Pheo Primary & Secondary School** (Hoa Binh province)

Award: **2nd Runner Up** (Coolest Project Malaysia 2021)

What it can do:

Based on the signs and facial expressions that the deaf use to communicate, the team use Scratch AI and Micro:bit to build a communicating assistant device. Signs will be recorded and converted into voices.

Users just express their thought in signs in front of the camera and the system will convert the signs into voices or text.



01

02

03

04

05

06

07

08

09



Interview with Hiram Lopez-Landin

Manager, Qualcomm® Wireless Reach™, Corporate Responsibility

Q: What is Vietnam Forward?

A: Vietnam Forward is a program developed in collaboration with The Dariu Foundation (TDF) equipping children across Vietnam's rural areas with access to "Always On, Always Connected PCs" (ACPCs) compute platforms to supports digital literacy. These devices bring the hallmark characteristics of smartphones to laptops while also providing enterprise-class computing performance. Teachers and children across 80 K-12 schools in rural communities nationwide receive training and support to facilitate learning in foundational digital skills and competencies in science, technology, engineering, and mathematics (STEM) that are essential for creating economic self-sufficiency.

Qualcomm provides ACPCs equipped with mobile LTE capabilities, powered by Qualcomm's Snapdragon® compute platforms, through its Qualcomm® Wireless Reach™ initiative, to ensure a continuous connection to 4G/LTE Internet. Approximately 100,000 primary and secondary-level students are building digital skills to succeed in online and blended learning environments. Other collaborators include Viettel and Vietnam's Ministry of Education and Training.



01

02

03

04

05

06

07

08

09

Q: What challenge is this program addressing?

A: The program is improving access to digital skills and training for teachers and K-12 students. Education is a key driver for social and economic development. Yet, for many students in rural Vietnam, sometimes trying to get to school can be the toughest part of their school day. A journey on makeshift wood planks and vegetative debris to get across floods is common. And in today's digital world, where nearly every career requires digital literacy, computers are an unaffordable luxury for most children in remote rural areas. Teachers who work in rural communities need training that prepares them to use technology for learning both in school and at home.

The digital divide intensified during COVID-19 when school closures forced students to rely on virtual learning. Students in rural areas consistently represent the vast majority of those who cannot be reached by remote learning. In a recent report from UNICEF, three out of four students cannot be reached live in rural areas, but in lower-income countries, the percentage is even higher.

In rural Vietnam, approximately 12 million students

lack regular access to the digital tools, connectivity, and online resources to acquire digital skills and competencies in STEM including workforce preparation in coding, computer science and cyber robotics.

Q: What is the goal of Vietnam Forward?

A: The COVID-19 pandemic has exposed the extent of the digital divide in education, halted traditional classroom education, and accelerated the urgency for equitable solutions. Vietnam Forward aims to bridge the digital divide across Vietnam using Qualcomm-enabled technologies to reimagine the way students learn and educators teach by bringing the modern classroom to life and enabling a world where all learners are intelligently connected from the home, the classroom, or virtually anywhere.

Q: Why is Qualcomm investing in this program?

A: Qualcomm is working to bridge the digital divide for over 1.3 billion learners without internet at home by intelligently connecting students and teachers whether

they are in the classroom, at home, or on the go for a seamless learning experience. Student and teacher engagement and productivity are optimized through ultra-intelligent platforms designed to deliver superior performance, power efficiency, and robust security for more focused, personalized learning experiences with fewer disruptions. We are reimagining education and the way the world learns and teaches. Qualcomm digitally transforms classrooms with immersive video, audio, and remote learning experiences, and modernizes learning environments preparing students to enter tomorrow's workforce.

Q: Why did Qualcomm select The Dariu Foundation to implement this program?

A: To receive grant funding for a Qualcomm Wireless Reach program, organizations submit proposals that undergo a rigorous internal review process. Based on a set criterion, organizations are selected as the implementing organization. The Dariu Foundation's goals aligned with Qualcomm's efforts to bridge the digital divide for learners without access to the internet at home.

01

02

03

04

05

06

07

08

09



Mr. NAM THIEU, CEO of Qualcomm Vietnam, Cambodia & Laos



“Over the last two years, Qualcomm has been working closely with The Dariu Foundation (TDF) in an effort to advance digital literacy education among rural and mountainous children in Vietnam. With our grants, 80 rural schools have been provided with 2,400 laptops powered by Qualcomm’s Snapdragon® compute platforms and mobile LTE capabilities. As a result, approximately 100,000 primary and secondary students have been equipped with digital skills and more than 6,000 educators with professional development trainings. We are very happy with this cooperation and the quality that TDF is bringing to this program,” said Mr. Nam Thieu.

01

02

03

04

05

06

07

08

09

Q: What are the results of this program by far?

A: Around 2,400 ACPCs are being leveraged in schools for computer lab use and a selected number of students are taking the devices home to work on collaborative coding assignments. The program supports extracurricular code clubs, which are designed to attract talented students interested in technology. Since 2020, the program has helped form 150 Code Clubs with around 3,000 club members. Nearly 1,500 club members have access to ACPCs to work on projects with classmates anytime and anywhere.

Q: What other similar projects does Qualcomm support globally?

A: Over the last 15 years, Wireless Reach has grown to support over 130 programs in nearly 50 countries, impacting 24 million beneficiaries. Two of these programs have been in Vietnam. Current active projects include DevelopHer, a women entrepreneurship program in collaboration with the Cherie Blair Foundation for Women, and this Vietnam Forward education program.

Q: How does Vietnam Forward align with governmental and global goals?

A: This program supports Vietnam’s Ministry of Education and Training (MoET) integration efforts with informatics and computer science in classrooms across Vietnam. In 2018, MoET introduced a new general education curriculum based on core competencies. The new curriculum makes technology an introductory subject already at the primary level and a required subject at the secondary level.

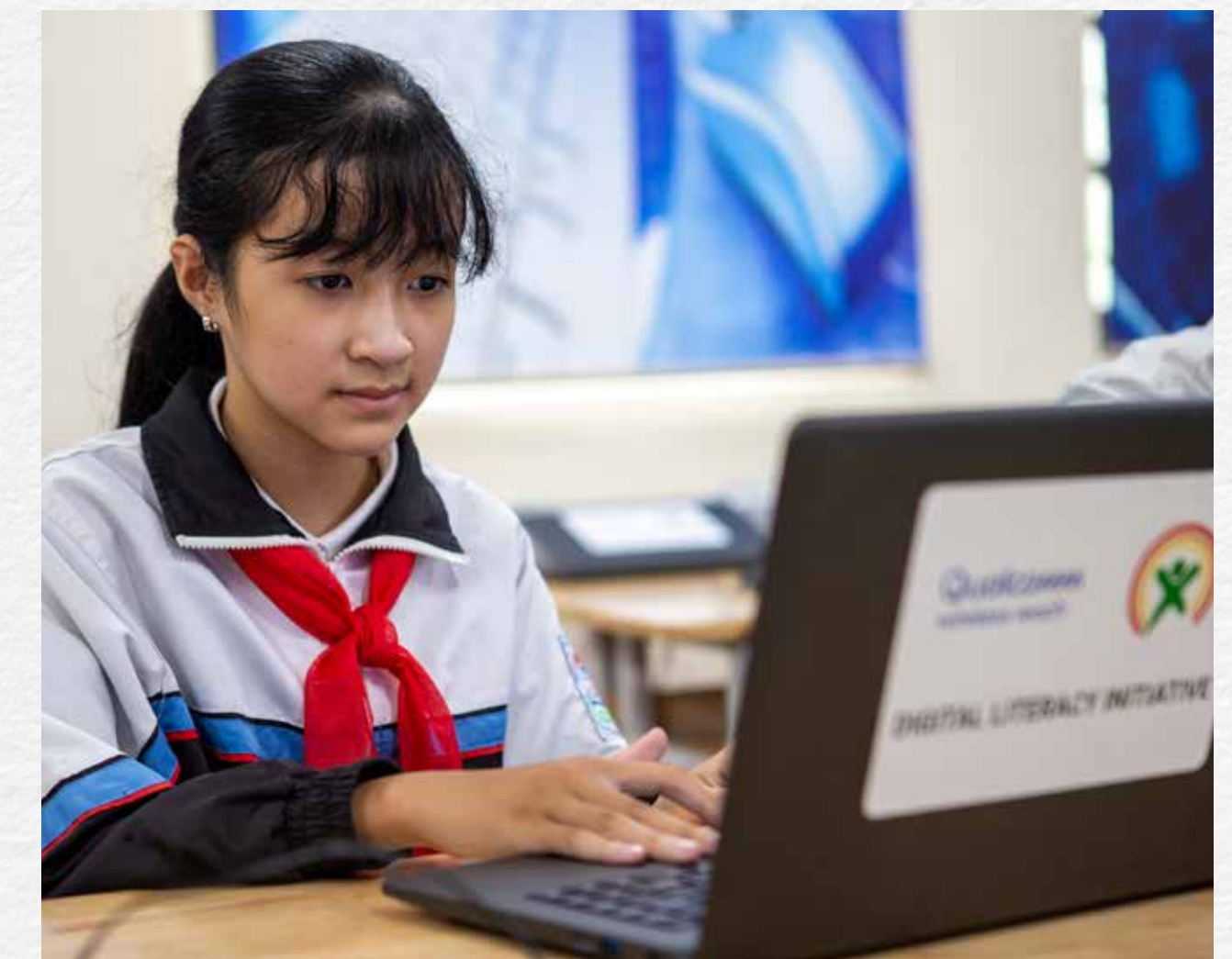
Qualcomm Wireless Reach programs are centered around Goal 9 of the United Nations Sustainable Development Goals (SDGs): Build resilient infrastructure, promote sustainable industrialization, and foster innovation, although several programs cut across multiple SDGs. Vietnam Forward program aligns with the SDGs, particularly with Goal 4: Quality education.

Vietnam Forward also reflects Qualcomm’s priorities as part of the Global Education Coalition, an international multi-sector partnership convened by the

United Nations Educational, Scientific, and Cultural Organization (UNESCO).

Q. What’s next for the Vietnam Forward program with Dariu?

A. Collaborators are exploring strategies to advance to different school levels and to expand the teacher professional development initiative.



01

02

03

04

05

06

07

08

09

Key Statistics

DIGITAL LITERACY INITIATIVE

- A total of 500 local schools joined the training network that includes 160 mobile schools
- Training 1,112,000 students since 2011, of which 362,000 students were trained in 2021

CODE CLUBS

- A total of 4,000 students joined the network of 220 code clubs

SCHOLARSHIPS

- 20,951 scholarships granted since 2007, of which 1,430 scholarships were granted in 2021

KINDERGARTENS

34 kindergartens built since 2004

VOCATIONAL TRAINING PROGRAM

- 765 students graduated since 2019, of which 483 students graduated in the year 2021
- Percentage of employment after graduation: 85%



01

02

03

04

05

06

07

08

09



Finances

STATEMENT OF ACTIVITIES 2021 VIETNAM

Unit: CHF

YEAR 2021 (Exchange rate 2021: 25,058)

YEAR 2020 (Exchange rate 2020: 24,701)

For the fiscal year ended 31 December 2021

	MICROFINANCE ACTIVITIES	CHARITY ACTIVITIES	TOTAL	MICROFINANCE ACTIVITIES	CHARITY ACTIVITIES	TOTAL
Income						
Loan interest income	-	-	-	3,044	-	3,044
Capital from Dariu Switzerland	-	-	-	-	753,834	753,834
Bank interest	-	177,061	177,061	55,267	166,903	222,170
Foreign exchange gains	-	1,175	1,175	-	2,603	2,603
Other donations	-	357,123	357,123	-	592,502	592,502
Other incomes	-	2,978	2,978	20,720	5,499	26,219
Total income	-	538,337	538,337	79,031	1,521,341	1,600,373
Expenses						
Staff salary and benefits	-	316,732	316,732	10,812	289,963	300,775
Office rental	-	21,550	21,550	304	21,862	22,165
Telephone, fax and internet	-	5,136	5,136	60	5,083	5,143
Electricity and water	-	2,523	2,523	88	2,413	2,501
Transport and business trip expenses	-	4,150	4,150	-	8,629	8,629
Car rental	-	9,712	9,712	-	9,819	9,819
Trainings and seminars	-	2,455	2,455	-	-	-
Expenses of business trip to Myanmar	-	-	-	-	2,157	2,157
Scholarship granting	-	31,207	31,207	-	89,602	89,602
School building	-	32,848	32,848	-	33,630	33,630
DLI - From Dariu	-	41,992	41,992	-	81,641	81,641
DLI - From other donations	-	426,862	426,862	-	590,683	590,683
Vocational training	-	64,137	64,137	-	10,041	10,041
Bank of Laptops	-	13,528	13,528	-	-	-
Stationery and other office expenses	-	4,160	4,160	52	4,624	4,677
Loan interest expense	-	-	-	30	-	30
Foreign exchange losses	-	3,298	3,298	-	2,969	2,969
Bank charges	-	647	647	23	1,289	1,312
Depreciation and amortisation	-	6,556	6,556	-	4,189	4,189
Provision for doubtful debts	-	-	-	2,447	-	2,447
Other expenses	-	13,058	13,058	307	8,756	9,062
Total expenses	-	1,000,553	1,000,553	14,123	1,167,349	1,181,472
SURPLUS/(DEFICIT) BALANCE FROM ACTIVITIES	-	(462,215)	(462,215)	64,908	353,992	418,900



01

02

03

04

05

06

07

08

09

01

02

03

04

05

06

07

08

09



FINANCIAL POSITIONS 2021 VIETNAM

Unit: CHF

As of December 31, 2021

As of December 31, 2020

Exchange rate 2021: 25,345

Exchange rate 2020: 26,622

ASSETS

Current assets

Cash on hand	10,222	27,651
Cash in banks	148,095	547,594
Short-term financial investments	2,532,297	1,307,192
Other receivables	17,759	21,035
Other current assets	17,541	16,700

Total current assets	2,725,914	1,920,172
-----------------------------	------------------	------------------

Non-current assets

Long-term financial investment	-	1,103,601
--------------------------------	---	-----------

Total non-current assets	-	1,103,601
---------------------------------	----------	------------------

TOTAL ASSETS	2,725,914	3,023,772
---------------------	------------------	------------------

EQUITY AND LIABILITIES

Current liabilities

Payables to suppliers	868	-
Accrued expenses	1,422	-
Other short-term payables	18,416	8,648

Total current liabilities	20,706	8,648
----------------------------------	---------------	--------------

Non-current liabilities

Other long-term payables	-	4,662
--------------------------	---	-------

Total non-current liabilities	-	4,662
--------------------------------------	----------	--------------

Equity

Net assets for charity activities	2,705,208	3,010,462
-----------------------------------	-----------	-----------

Total equity	2,705,208	3,010,462
---------------------	------------------	------------------

TOTAL EQUITY AND LIABILITIES	2,725,914	3,023,772
-------------------------------------	------------------	------------------

01

02

03

04

05

06

07

08

09



THE DARIU FOUNDATION Consolidated Profit & Loss Statement 2021

Unit: CHF	YEAR 2021	YEAR 2020
Operating revenues		
Loan interests	-	3,044
Donations	1,068,438	1,478,925
Other income	2,978	26,219
Total income	1,071,416	1,508,188
Expenses		
Personnel costs	333,049	321,380
Scholarship awarded	31,207	89,602
Digital literacy initiative	616,510	715,995
General and administrative expenses	122,571	149,168
Write-off bad debts	-	2,447
Other expenses	13,058	9,062
Depreciation of fixed assets	6,556	4,189
Total operating expenses	1,122,951	1,291,843
Operating profit	-51,535	216,345
Other incomes (expenses)		
Interest income	197,969	222,170
Interest expense	-	20,576
Foreign exchange differences	1,764	-55,327
Extraordinary expense	-462,512	-
Total other incomes (Expenses)	-262,780	187,420
NET INCOME (LOSS) FOR THE YEAR	-314,314	403,765

THE DARIU FOUNDATION Consolidated balance sheet December 31, 2021

Unit: CHF

AS AT 31/12/2021 AS AT 31/12/2020

Assets

Current assets

Cash	2,610,064	2,428,724
Loan receivable	184,302	181,452
Other accounts receivable	17,759	21,035
Short-term deposits	2,532,297	1,307,192
Other current assets	17,541	16,700

Total current assets 5,361,963 3,955,103

Fixed assets

Long-term deposits	-	1,103,601
--------------------	---	-----------

Total non-current assets - 1,103,601

Total assets 5,361,963 5,058,703

Equity and liabilities

Other current liabilities	19,284	8,648
Deferred income and accrued expenses	118,095	2,500
Provision	425,756	-

Total current liabilities 563,135 11,148

Long term loans/payables (incl. current portions) - 4,662

Equity prior year 5,042,893 4,933,759

Profit for the period	-314,314	403,765
Translation differences current year	70,249	-294,631

Total equity 4,798,828 5,042,893

TOTAL EQUITY AND LIABILITIES 5,361,963 5,058,703

(The complete and audited financial statements are available at: www.dariu.org)



01

02

03

04

05

06

07

08

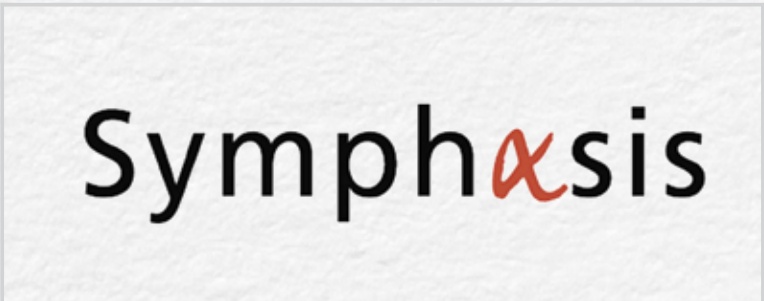
09

- 01
- 02
- 03
- 04
- 05
- 06
- 07

Our Partners



- 08
- 09



01

02

03

04

05

06

07

08

09

Members of the Board



THOMAS TRÜB
Founder and President



DANIEL KELLER
Vice-President



ANNABELLA BASSLER
CFO



MANUEL LIATOWITSCH
Legal Counsel



Contact

For any requests you may have, please contact MANUELA NIETH,
Communication & Fund Raising, The Dariu Foundation, at manuela@dariu.org

SWITZERLAND

Bank: Aargauische Kantonalbank

Bank/Address: Lindenplatz 18, CH-4800

Zofingen, Switzerland

Account name: Dariu Foundation,
c/o Ringier AG, Brühlstrasse 5, CH-4800

Zofingen, Switzerland

Account number (CHF): 0160.9256.2057

(IBAN: CH42 0076 1016 0925 62057)

Account number (USD): 0161.1162.7253

(IBAN: CH29 0076 1016 1116 2725 3)

Swift code: KBAGCH22