



**THE DARIU FOUNDATION**

we love coding



# YEARS OF EMPOWERMENT





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**THOMAS TRÜB**  
Founder & Chairman

# Letter From the President

Dear Friends,

Last year was a great year in all respects. We were able to celebrate our 20th birthday in Switzerland and Vietnam with our partners, friends, and employees. Moreover, with the end of the Covid pandemic, we succeeded in redirecting all our energy on developing our activities and implementing our ambitious strategy. The results are impressive, and I would like to take this opportunity to thank our employees, friends, supporters, and strategic partners.

A record number of over 400,000 girls and boys in Vietnam, Malaysia and Bhutan have successfully completed digital literacy training programs, allowing them to gain experience in critical and creative thinking alongside basic coding school skills - positive learnings that will stay with them for life.

Besides being our anniversary year, 2022 was also the kick-off for our new strategy with the two objectives "Geographic Expansion" and the "IMPOSSIBLE" project. In Malaysia, the Rolf Schnyder Foundation launched a preschool

project in collaboration with The Dariu Foundation to teach young children in Sarawak, a state on the island of Borneo, the basics of programming in a fun way. Founder and president of the Rolf Schnyder Foundation is Chai Schnyder, who recently joined our foundation board: Welcome Chai!

In the Kingdom of Bhutan, we have started a pilot project with the VTOB Foundation. VTOB is an association of young teachers who volunteer to provide coding lessons in secondary and high schools. The pilot project has delivered very good results, so in 2023 we will start our first three-year program.

Further countries we are evaluating are Laos and Cambodia, yet we have also received requests for cooperation from South America and Africa - we will see what the coming months hold.

Speaking of partnerships: In 2022 we were able to establish a long-term cooperation with the German development agency "Brot für die Welt"



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for our projects in Vietnam, on the idea to extend this partnership to other countries.

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In Laos, we will be working with Swisscontact, a leading Swiss organization in the implementation of international development projects and we will be able to benefit from their local infrastructure and know how.

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Our second strategic goal is “IMPOSSIBLE”, which we outlined last year as: “We invite the most talented kids from our digital literacy initiative to our code clubs, where they can develop and execute projects - and we want to give them the tools to become entrepreneurs”. In 2022, our team in Vietnam worked with local universities to develop a course in entrepreneurship with the encouraging result that four Vietnamese universities have adopted our programs and now offer them to their students. The same universities, as well as highschools have furthermore approached us to launch and run Code Clubs on their premises, a request we will comply within the upcoming weeks and months.

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By the end of 2023, over 500 students will have graduated from the above mentioned entrepreneur program, and by the end of the year, a dozen projects developed by students

will compete for the “Project of the Year.” We are excited to see the outcome!

Also during our anniversary year, we proudly received six awards. Probably the two most important ones are: The “Bett Asia 21st Century Learning Award” which is granted to the individual, group or organization that is using EdTech effectively to develop the necessary skills to help students become independent and confident global citizens and the “Vietnam Union of Friendship Organization Award” for our significant contribution to Vietnam poverty reduction and sustainable development

And last but not least, I would like to draw your attention to a great birthday present we received from Alberto Venzago. The internationally awarded photographer and filmmaker made a wonderful video about our activities. You can find it (and more) on our homepage: [www.dariu.org](http://www.dariu.org)

But the most precious gift, ladies and gentlemen, is you. Your interest and ongoing support are the foundation for our work, for our modest contribution to a better world: a heartfelt thank you from all of us.

**Thomas Trüb**  
Founder & President





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# Digital Literacy Initiative





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#### Highlights in 2022 include:

- 162 Code Clubs in operation with 2,460 members participating in learning and developing innovative technology-enabled projects
- 133 projects developed by the Code Club members
- 4,000 laptops were delivered to 150 rural schools that did not yet have computers
- 401,562 primary and secondary students were trained in computer and programming skills to develop workplace readiness, needed for economic empowerment
- 90 percent of our students developed digital competencies in STEM (Science Technology Engineering Mathematics) that can lead to better employment opportunities
- 3,562 teachers received in-service training, 80 percent of them reported that they gained more confidence in teaching programming skills



# Awards



Winner of the  
“Bett Asia 21st Century Learning Award” 2022



Certificate of Merit for its Significant Contribution to  
Vietnam’s Poverty Reduction and Sustainable Development  
by the Vietnam Union of Friendship Organisation

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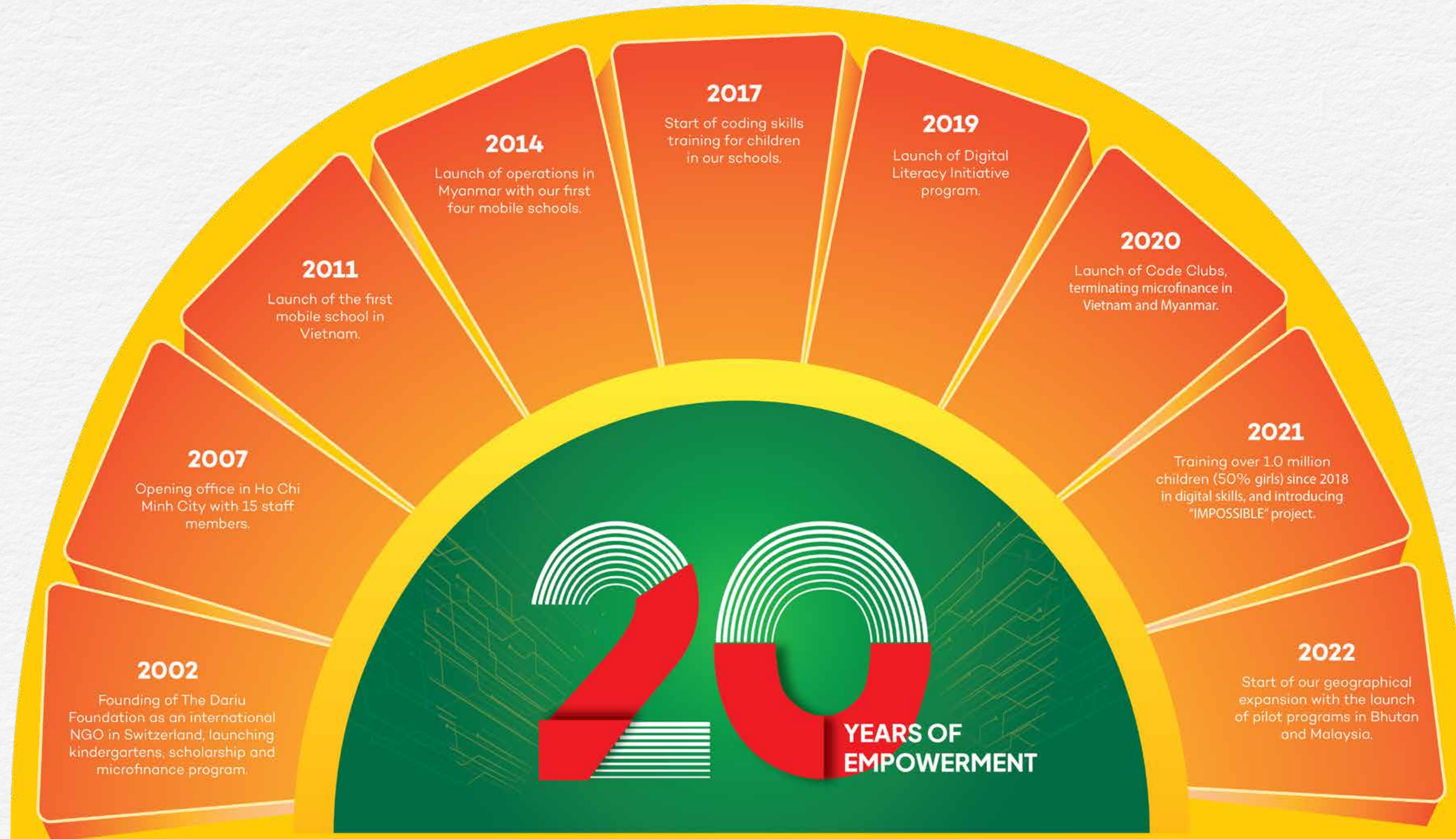


Mr. Nguyen Ngoc Hung - Director General of  
The People's Aid Coordinating Committee (PACCOM)

“The Vietnamese government is paying close attention to the country’s digital transformation and has adopted a corresponding national program that aims to develop the digital economy, society and administration by 2025. This program is closely related to the government’s goals of increasing the share of the digital economy in GDP to 20% by 2025 and 30% by 2030. To achieve this goal, Vietnam relies on the continued cooperation and support of international friends, development partners, and foreign NGOs, including The Dariu Foundation, which promotes digital skills training and development for students in Vietnam.”

**Mr. Nguyen Ngoc Hung - Director General of The People’s Aid Coordinating Committee (PACCOM)**





Timeline TDF 2002 – 2022



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# Strategy 2023 - 2027





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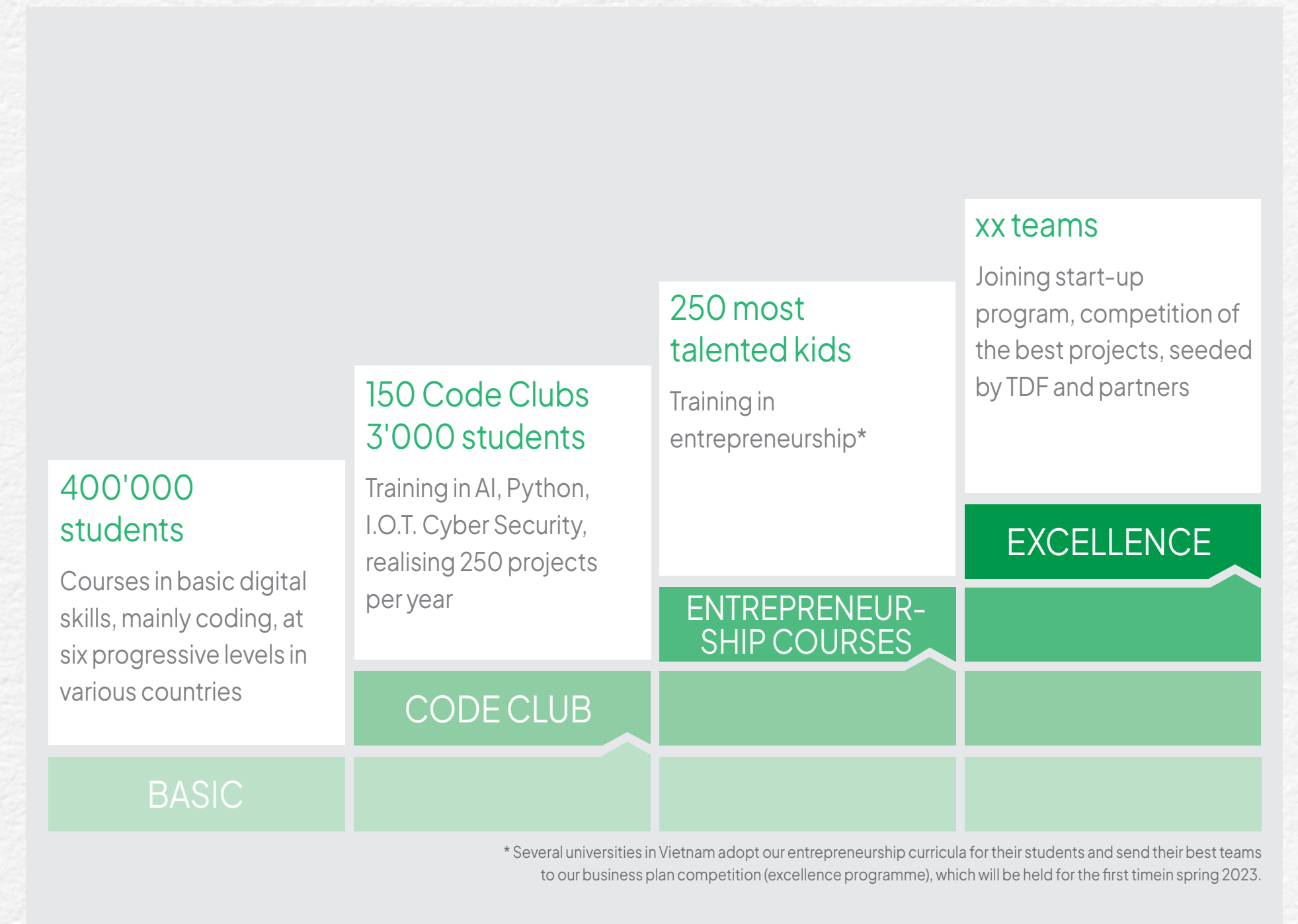
Our priority for the next few years will be geographical expansion. Two pilot projects in cooperation with The Dariu Foundation were already launched in 2022: The Rolf Schnyder Foundation (<https://www.fondationrolfschnyder.org>), has started to teach basic coding in preschools of Sarawak, Malaysia, while the VTOB Foundation (<https://vtob.org>) launched their Digital Literacy Initiative with young volunteers teaching basic coding in secondary and high schools in Bhutan. This was essentially the kick-off for our further expansion into Laos and Cambodia in 2024.

Our focus on coding remains our number one priority for several reasons:

- It enables children to think critically, evaluate their work and engage in a global community.
- It gives children the skills, confidence, and opportunity to change their world.
- It is an important driver for social and economic development, as almost every job requires digital skills.
- It allows young people from rural areas to get the necessary tools to quickly adapt when they move to the city.

- It opens more career opportunities: Coding skills are in high demand in today's job market, and the demand for people with coding skills is expected to continue to grow.
- By encouraging girls to take part in our coding courses - they always make up at least 50% of the participants - we can promote gender diversity in tech. Currently, the technology industry is male-dominated. By encouraging girls to learn to code, we can help bridge the gender gap in the industry while fostering gender equality in the technology industry.

An important pillar will be our "IMPOSSIBLE" project, which was launched in 2022. It will give all interested children - about 400,000 per year - access to basic digital literacy. The most talented among them are invited in a subsequent step to our Code Clubs, where they can develop and carry out projects and submit them to national and international competitions. From the greatest talents, we select those whom we want to give the tools to become entrepreneurs. To achieve this, we have identified different levels:



Several universities in Vietnam adopt our entrepreneurship curricula for their students and send their best teams to our business plan competition (excellence program), which will be held for the first time by the end of 2023.





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# Code Club Project Highlights



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### HIGHLIGHTS IN 2022 INCLUDE:

- 162 Code Clubs in operation
- 2,460 members participating in learning and developing innovative technology-enabled projects
- 133 projects developed by the Code Club members
- 6 projects awarded internationally





# Project Highlights

## PROJECT 1: AUTOMATIC EMERGENCY SYSTEM FOR KARAOKE BARS

Instructed by: **Le Thi Tuoi, IT teacher**

Developed by: **Nguyen Minh Kiet** and **Nguyen Minh Khang** (both 14 years old)

Address: **Vi Thuy Secondary School, Hau Giang Province**

### PROJECT DESCRIPTION

Karaoke bar fires often lead to a high death toll, caused by suffocation and no access to safety exits. In an airplane, oxygen masks are released whenever there is a drop in cabin pressure or in case of emergency. Our group decided to develop a project called Automatic Emergency System for Karaoke Bars.

### HOW IT WORKS

In the event of an emergency/fire, the system automatically releases safety masks (with reflective strips) from the ceiling and people in the room should put them on before exiting the room.

In each room the smoke detectors are connected to the central system. When smoke is detected, an alarm is triggered, and all fire escapes are automatically released. People can easily find their way out or to the escape ladders, so they do not have to jump out of the building, which in many cases leads to death or serious injury.



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# Project Highlights

## PROJECT 2: AUTOMATIC MOSQUITO SPRAY

Instructed by: **Co Nguyen, IT teacher**

Developed by: **Ho Minh Khoi** (11 years old)

Address: **Thoai Giang Primary School, An Giang Province**

### PROJECT DESCRIPTION

During the rainy season, mosquitos usually increase in numbers and we see a lot of mosquitos in classrooms, toilets etc. Our group decided to develop an automatic mosquito sprayer, to dispense chemicals to kill mosquitos.

### HOW IT WORKS

The sprayers are used where necessary and spray the chemicals according to a schedule. When the chemical tank is empty, the sprayer sounds an alarm so we can refill chemicals to keep the operation going.

The next development shall be a sprayer that can be connected to a smartphone.





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# Project Highlights

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## PROJECT 3: AUTOMATIC RICE DISEASE DETECTOR

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Instructed by: **Nguyen Van Giau, IT teacher**

Developed by: **Nguyen Thi Nhu An** and **Nguyen Ngoc Ngan** (both 14 years old)

Address: **Hieu Phung Secondary School, Vinh Long Province**

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### PROJECT DESCRIPTION

Farmers largely rely on their experience or direct visit to the rice field to detect rice diseases. In some cases, they fail to recognize the diseases in time and thus manage to rehabilitate the farm, resulting in crop losses. Our team has developed a project called “AUTOMATIC RICE DISEASE DETECTOR” to help farmers detect rice diseases in a smarter and more reliable way.

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### HOW IT WORKS

The detector, which is installed in cameras in the field, can help detect rice diseases by taking regular images. These images are uploaded to cloud services for analysis (using Scratch AI). The captured images are sent to ThinkSpeak to synchronize with the stored data and generate the analysis results. Once the diseases are detected, the system gives advice on which chemicals should be used to cure the diseases.

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So far, the system has been able to analyze six samples. Over time, we will be able to add and analyze more and other diseases, not only for rice but also for other crops.

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# Project Highlights

## PROJECT 4: HEALTHCARE SUPPORT SYSTEM FOR ELDERLY

Instructed by: **Nhu Quynh Bui**, IT teacher

Developed by: **Hai Dang, Minh Anh, Tri Dat, Duc Manh** and **Minh Nhat** (all 17 years old)

Address: **Cong Nghiep High School, Hoa Binh Province**



### PROJECT DESCRIPTION

It is increasingly common for elderly people to stay at home alone without their children taking care of them or living close by. They need to take medication but often forget to do so. Therefore a small Code Club team from Hoa Binh's Cong Nghiep High School has developed a project to help the elderly take care of themselves.

### HOW IT WORKS

The system has two functions:

Function 1: It measures indicators such as room temperature, humidity, light intensity etc. These indicators will be online so that family members can check and when needed adjust them.

Function 2: The system includes a medication box (with 30 sub-boxes) with an alarm that reminds the elderly to take their medication. If they do not take it, the system sends notifications to family members so they can remind them to do so.



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## PROJECT 5: AUTOMATIC WATERING SYSTEM

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Instructed by: **Dang Van Binh, IT teacher**

Developed by: **Hai Lam** and **Duc Nguyen** (15 & 12 years old)

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Address: **Kim Dong Secondary School, Hoa Binh Province**

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### PROJECT DESCRIPTION

It takes a lot of time and effort for our school's gardener to water all the plants and flowers. And we see this task being repeated every day. That is how the idea came up to help him to release the burden of daily manual work.

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### HOW IT WORKS

The central processor includes a Micro:bit and extension board connected to sensors of humidity, temperature, light and rain. The second processor includes a Micro:bit connected to the pump, and other Micro:bits to control the whole system.

The central is transmitting signals through the Lora board to tto switch the pump on/off automatically. As soon as the pump is running, it also sends the signal to another processor, which controls the watering of the plants in a specified order and duration.





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Annabella Bassler, CFO Ringier AG, Switzerland

"Digital Literacy is a combination of both technical and cognitive abilities in using information and communication technologies to create, evaluate and share information. The Dariu Foundation does fantastic work by empowering young people in Southeast Asia to succeed in life through school and digital education."

**Ms. Annabella Bassler, CFO Ringier AG, Switzerland**



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"I have seen enough misery. It is always the weakest who are exposed to power and cannot defend themselves. Children.

I never forget those eyes, how they look at me, as one who tries to ally with them, but still always being an outsider. A privileged one.

Enough is enough. Thomas and his Dariu Foundation give courage that something can change. It doesn't just take money to do that. It requires us to change and stand up for something. Something important. Something that can be passed on to further generations: KNOWLEDGE."

**Mr. Alberto Venzago, Filmmaker and Photographer**



Alberto Venzago, Filmmaker and Photographer



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# Key Statistics 2022

## DIGITAL LITERACY INITIATIVE

- A total of 474 local state schools joined the training network, of which 150 are mobile schools
- 1,513,562 students **have been trained in digital skills since the beginning of our digital literacy initiative**, of which 401,562 students were trained in 2022

## CODE CLUBS

- A total of 2,460 students joined the network in 162 Code Clubs
- 133 projects developed by Code Club members in 2022. A total of 506 projects were developed since 2018
- 6 international awards in 2022

## SCHOLARSHIPS

- 20,951 scholarships granted since 2007

## KINDERGARTENS

- 34 kindergartens built since 2004

## VOCATIONAL TRAINING PROGRAM

- 901 graduated students in 2022, a total of 1,666 students have been trained since 2019
- Percentage of employment after graduation: 85%



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# Finances



## THE DARIU FOUNDATION Balance sheet as per December 31, 2022

Unit: CHF	31/12/2022	31/12/2021
<b>Assets</b>		
Cash	4,988,555	4,800,173
Other accounts receivable		
- From not related parties	0	184,302
<b>Total current assets</b>	<b>4,988,555</b>	<b>4,984,475</b>
Fixed assets		
- Holdings (more than 20%)	1	1
<b>Fixed assets</b>	<b>1</b>	<b>1</b>
<b>Total assets</b>	<b>4,988,556</b>	<b>4,984,476</b>
<b>Equity and liabilities</b>		
Account payables		
- Account payables to suppliers	4,213	115,773
- Account payables to related parties	15,400	900
<b>Current liabilities</b>	<b>19,613</b>	<b>116,673</b>
<b>Liabilities</b>	<b>19,613</b>	<b>116,673</b>
<b>Capital</b>	<b>0</b>	<b>0</b>
Registered organizational capital	400,00	400,000
Unrestricted organizational capital	4,568,943	4,467,803
<b>Total organizational capital</b>	<b>4,968,943</b>	<b>4,867,803</b>
<b>TOTAL EQUITY AND LIABILITIES</b>	<b>4,988,943</b>	<b>4,984,476</b>

Restatement of the balance sheet as per 31 December 2021

For further information, please refer to the audited Financial Statements





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## THE DARIU FOUNDATION Profit & Loss Statement 2022

Unit: CHF

	YEAR 2022	YEAR 2021
<b>Donations</b>		
Project related donations	0	37,143
Free donations	1,214,101	674,172
<b>Income</b>	<b>1,214,101</b>	<b>711,315</b>
<b>Expenses</b>		
Project expenses	-782,076	-462,997
Personnel expenses	-76,776	-76,630
Non-personnel expenses	-134,168	-11,924
<b>Expenses</b>	<b>-993,020</b>	<b>-551,551</b>
<b>Operating result</b>	<b>221,081</b>	<b>159,764</b>
Financial income	55,362	159,695
Financial loss	-175,303	-112,902
<b>Net financial loss</b>	<b>-119,941</b>	<b>46,793</b>
<b>Result before allocation to organizational capital</b>	<b>101,140</b>	<b>206,557</b>
Changes in registered capital	0	0
<b>Result (before allocation to organizational capital)</b>	<b>101,140</b>	<b>206,557</b>
Allocations/Use unrestricted capital	-101,140	-206,557
<b>Result after allocation to organizational capital</b>	<b>0</b>	<b>0</b>

Restatement of the income statement for the year ending on 31 December 2021  
For further information, please refer to the notes to the Financial Statements



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# Our Partners

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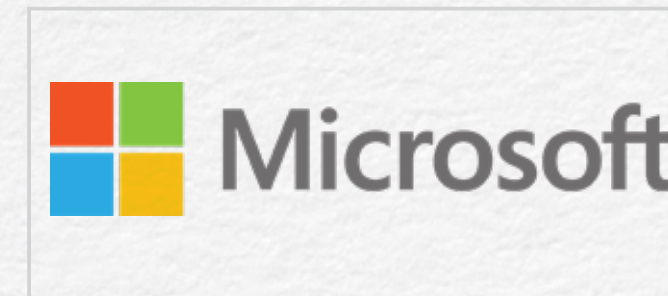
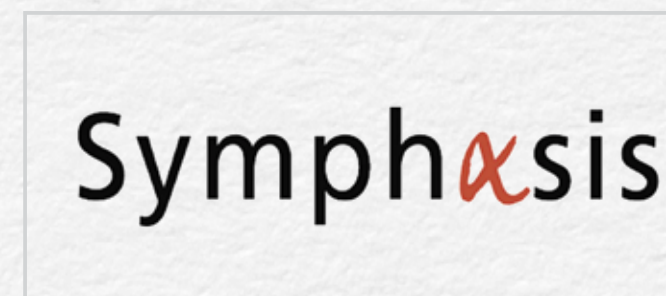
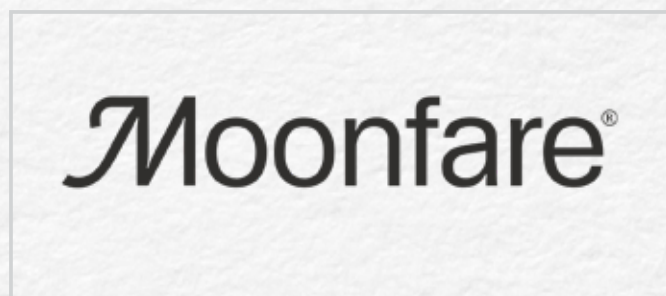
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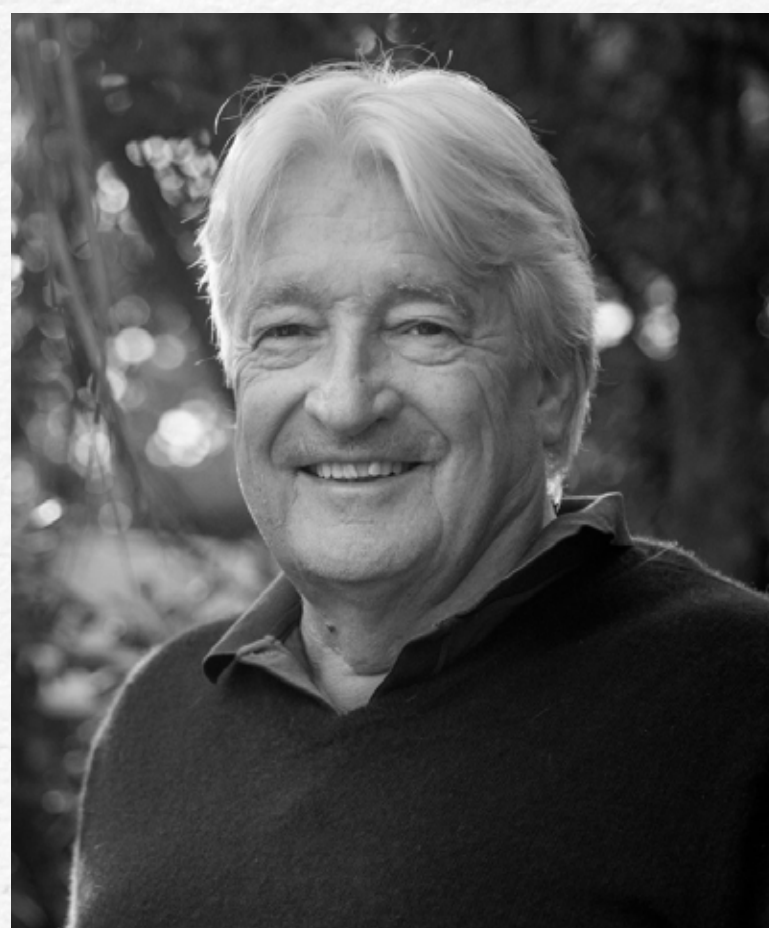
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# Members of the Board



**THOMAS TRÜB**  
Founder and President



**DANIEL KELLER**  
Vice-President



**ANNABELLA BASSLER**  
CFO



**MANUEL LIATOWITSCH**  
Legal Counsel



**CHAI SCHNYDER**  
Member





# Contact

For any requests you may have, please contact MANUELA NIETH,  
Communication & Fundraising, The Dariu Foundation, at: [manuela@dariu.org](mailto: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, 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