THE DARIU FOUNDATION
we love coding



2023 ANNUAL REPORT

THE DARIU FOUNDATION
we love coding



THOMAS TRÜB
Founder and President

Letter from the President

Dear Friends of The Dariu Foundation

2023 was another very satisfying year for The Dariu Foundation: we trained roughly 500,000 students (6-18 years old, 50% female) in digital literacy. This is about 25,000 more than in 2022. In Bhutan, we now support 10 schools, 44 teachers, 1,165 students and have provided 110 laptops.

Earlier this year, we signed two long-term partnerships with Bread for the World, a global development and relief organisation based in Germany, and Swisscontact, a leading Swiss organisation implementing skills development projects in developing and emerging countries. Together, we launched our first co-funded project "Bridging the Digital Gap for School Students" in 10 provinces in Vietnam. And in the final days of the old year, we received the green light for another co-funded project in Laos and Cambodia, which we will launch in January 2024.

By the end of 2023, we trained 5,000 children in our Code Clubs, 3,000 of whom have completed the final stage of the entrepreneurship programme. Over 100 mentors have coached Code Club teams to realise their projects for the annual “Impossible Bootcamp”, which took place in early December and attracted over 250 participants.

While this is a wonderful event in itself, what is even more amazing is that an increasing number of high schools and universities are eager to work with us. This is the highest recognition we could have hoped for when we started this journey.

In the midst of all this activity, our team in Vietnam has also launched a new project: "Makerspace". A Makerspace is a collaborative workspace within a school or library for creating, learning, exploring and sharing. These spaces also help prepare those who need critical 21st century skills in science, technology, engineering, arts and maths (STEAM). They provide hands-on learning to help develop critical thinking skills and even build confidence.

Our partner in Malaysia, the Fondation Rolf Schnyder, ran a successful pilot in 2023 and will expand its activities in 2024 to serve over 2000 young people in Sarawak.

Finally, we are pleased to announce four new partnerships: besides Bread for the World, we now also work with the Curti Foundation, the International University of Applied Science and Swisscontact. Read more about them on page 21.

Your interest and continued support is the foundation of our work: a big thank you from all of us.

Thomas Trüb
Founder and President



Digital Literacy Initiative

Highlights in 2023 include



179 Code Clubs with 5,000 participants

2,724 members involved in learning and developing innovative technology-enabled projects

109 projects developed by the Code Club members

5,730 laptops were delivered to 150 rural schools that did not already have computers.

492,963 primary and secondary school students were trained in computer and coding skills to develop the workplace readiness needed for economic empowerment.

90 percent of students developed digital skills in STEM that can lead to better employment opportunities.

4,056 teachers received professional development training, with 80 percent reporting increased confidence in how to teach coding skills.

Awards



Winner of the award from Prime Minister

FOUR INTERNATIONAL AWARDS

Coolest Project Malaysia 2023:

1. First Runner Up (Game category): Loc Phat High School - Bao Loc - Lam Dong
2. Project that captures our hearts: Loc Phat High School - Bao Loc - Lam Dong
3. First Runner Up (Web category): Hoang Dieu High School - Soc Trang City - Soc Trang

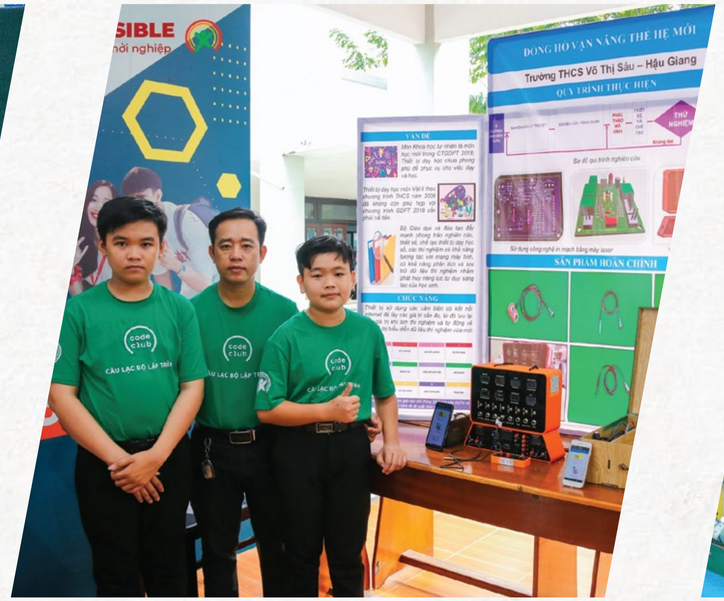
2023 World Invention Creativity Olympic:

1. Gold medal award: Cong Nghiep High School - Hoa Binh City - Hoa Binh

Code Club Highlights



Code Clubs use a project-based learning approach that encourages creativity and a passion for exploration. Students work in teams to develop collaboration and problem-solving skills.



Student-driven topic selection: Students have the freedom to choose and pursue research topics that are relevant to societal realities, unrestricted by classroom space or teachers.



STEAM (Science - Technology – Engineering - Arts - Mathematics) programmes give young people the tools they need to realize their own projects.

Project Highlights



Project 01: Intelligent control system for sturgeon farming

PROJECT 01: INTELLIGENT CONTROL SYSTEM FOR STURGEON FARMING

Instructed by: Xuan Thai and Bien Nguyen - IT teacher

Developed by: Gia Han, Chan Hung (both 12 years old), Thanh Trung (13 years old), and Thien Phuc (14 years old)

Address: Phi Lieng Secondary School, Lam Dong Province

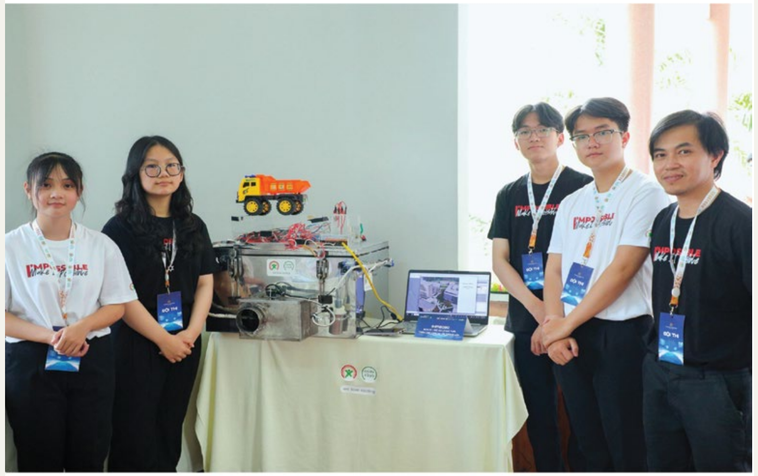
PROJECT DESCRIPTION

A team of four students from Phi Lien Secondary School in Lam Dong Province have developed an intelligent control system to address a key challenge in sturgeon farming: maintaining optimal water quality.

HOW IT WORKS

This innovative system uses sensors to continuously monitor water clarity. When the water meets pre-set standards, valves automatically open to supply fresh water to the sturgeon tanks. However, if the water quality falls below acceptable levels, the valves remain closed and an alarm system immediately notifies the farmers, allowing them to take timely action. This ingenious solution not only reduces the manual workload for the farmers, but also helps to ensure consistent and healthy water conditions for their sturgeon, ultimately contributing to a more efficient and sustainable farming practice.

Project Highlights



Project 02: Boxce - Emission control system for heavy duty vehicles

PROJECT 02: BOXCE - EMISSION CONTROL SYSTEM FOR HEAVY DUTY VEHICLES

Instructed by: Mr. Ngo Thanh Tung, IT teacher
Developed by: Duc Manh, Khanh Linh, Truong Cam Tu, Pham Tuan Hung (15 years old)
Address: Thang Long High School, Lam Dong Province

PROJECT DESCRIPTION

Recognising the growing threat of air pollution, especially in areas of high traffic density, a team of high school students developed the innovative BOXCE system to reduce harmful emissions from large and aging freight vehicles.

HOW IT WORKS

The BOXCE system uses advanced emission control technologies:

- Uses Diesel Exhaust Fluid (DEF) to effectively reduce NOx and HC emissions.
- Incorporates a HEPA filter to remove dust, mold and bacteria.
- Activated carbon filter to remove residual gasoline vapor, CO and other pollutants.
- Automatic control system with sensors and central processing unit.
- Collects detailed data for research and development to optimize performance for various utility applications.

Its hardware components include a HEPA filter, activated carbon filter, DEF treatment box, fan system and control circuitry. In addition, its software includes a mobile application that links sensor kit data for collection, provides real-time emissions data, reviews of trip history, displays of emissions graphs and notifies of system operating status.

Project Highlights



Project 03: Drone for rescue missions

PROJECT 03: DRONE FOR RESCUE MISSIONS

Instructed by: Huynh Cam Hong, IT teacher

Developed by: Ba Loc (11 years old), Phu Loc, Nhat Anh, Dang Thau, Bao Quan (17 years old)

Address: Phan Van Dang Secondary & High School, Vinh Long Province

PROJECT DESCRIPTION

The use of drones in rescue missions has gained in popularity and has proven to be helpful and effective when, for example, fires break out in high apartment buildings located in narrow alleys in the cities. The team designed a pilot-controlled drone specifically for emergency situations. This agile aircraft can navigate tight spaces and enter areas inaccessible to firefighters on the ground.

HOW IT WORKS

During a fire rescue mission, the drone transmits live camera footage to a control center, allowing rescuers to assess the situation and develop targeted rescue plans. Images from the drone are analyzed by a device built with a Raspberry Pi computer and camera to detect survivors. This allows for faster and more accurate search efforts.

But the drone's capabilities go beyond observation. It can carry two self-launching balls which can be deployed remotely to contain small fires, buying valuable time for firefighters to arrive.

The system's versatility extends beyond firefighting. The drone can be used in a variety of search and rescue scenarios, delivering crucial supplies like water, food, and medicine to disaster zones or remote locations.

Impossible Project

In 2022, The Dariu Foundatiton launched the ambitious IMPOSSIBLE project, a program designed to bridge the gap between a young person's innovative ideas and their successful implementation. By fostering digital literacy, entrepreneurship and technological skills in students, IMPOSSIBLE empowers them to become the future generation of tech-savvy entrepreneurs.

The project itself equips students of all ages with the digital and entrepreneurial skills they need to thrive. It fosters a passion for STEM fields and encourages them to think creatively and solve real-world problems.

For those with a burning entrepreneurial spirit, the Impossible Incubation Program provides the perfect launch pad. This intensive two to three month program offers a structured environment including mentorship, coaching and financial support. Here, aspiring tech entrepreneurs can develop their ideas into working prototypes and solid business models.

Finally, the annual Impossible Bootcamp serves as the culmination of their efforts. This event showcases the best and brightest from the program, giving them the opportunity to present their work to a panel of judges and receive valuable feedback.



Impossible Project

Highlights in 2022 - 2023:

- More than 1,930 Code Club students participated in 15 school-based hackathons that fostered project brainstorming and creative thinking.
- 127 teams submitted proposals, of which 64 (including high school and university students) were selected for the incubation boot camp. Of note, 38.6% were female-led teams and 38 projects originated from Code Clubs.
- Over 50 mentors from industry and academia joined the program.
- 25 top projects participated in the final Demo Day with the winners being:

> **Batch 01 (2022):** "Smart Tub Crab Farm" from Him Lam Ethnic Minority Boarding School and Horizan S-Company (simulation platform in work skills training) from University of Danang.

> **Batch 02 (2023):** "Smart Device to Support Rice Farming" developed by students from Vo Thi Sau Secondary School in Hau Giang and "EduBin - Automatic Trash Scan" developed by students from the University of Technology and the University of Economics in Ho Chi Minh City.



Makerspace

WHAT IS A MAKERSPACE?

A makerspace is a collaborative workspace in a school or library for making, learning, exploring, and sharing with tools ranging from high-tech to no-tech.

- These spaces are open to middle and high school students in the target area and feature a variety of maker equipment, including 3D printers, laser cutters, CNC machines, soldering irons, and even sewing machines.

- These spaces also help prepare those who need critical 21st century skills in STEAM. They provide hands-on learning, help with critical thinking skills and build confidence. Some of the skills learned in a makerspace include electronics, 3D printing, 3D modeling, coding and robotics. Makerspaces also foster entrepreneurship and are used as incubators and accelerators for startups.



Makerspace

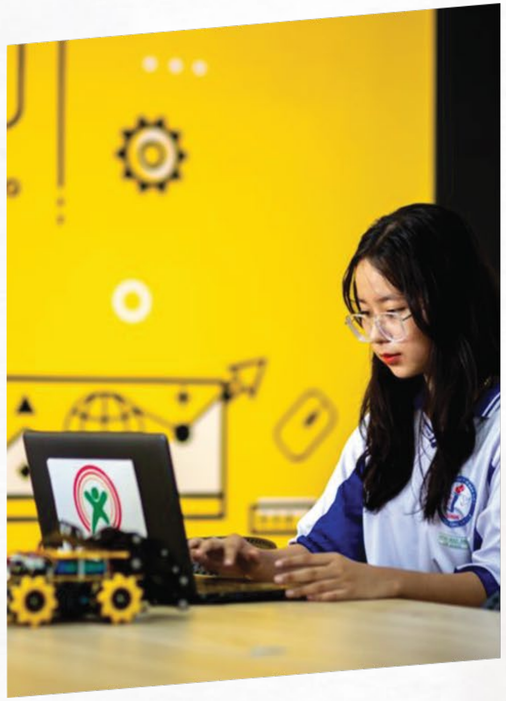
WHAT ARE THE BENEFITS OF A MAKERSPACE?

In addition to having a space where students have technology and relevant tools to prepare and complete their prototypes, students enjoy the following benefits:

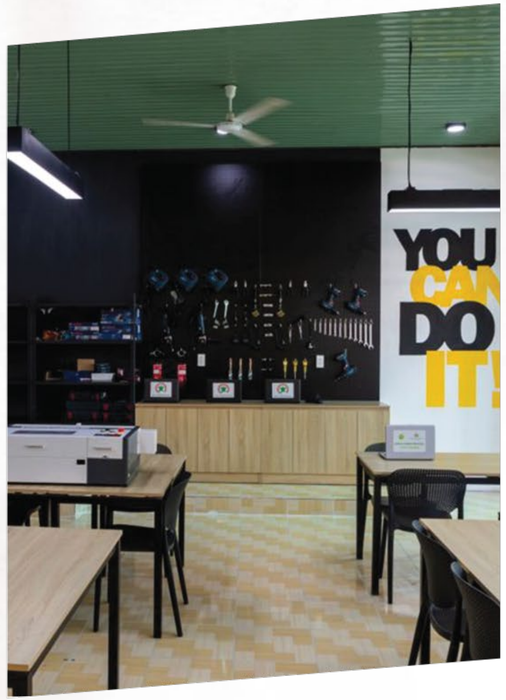
- Opportunities to innovate: Code Club is where students learn new knowledge and skills and develop projects. They also use makerspaces to foster innovation through hands-on experimentation. Code Club members have the opportunity to be creative and use personalized learning strategies to make changes to existing concepts or develop their own ideas, methods, or products.
- Develop critical thinking and problem-solving skills: The ability to think critically and solve problems effectively should be established at an early age and cultivated over time. These skills are fundamental to, and enhanced by, learning experiences in Makerspaces and through digital and project-based making.
- Develop a broad set of 21st century skills: This goes beyond critical thinking and problem solving. 21st century skills include flexibility, collaboration, adaptability, oral and written communication, information literacy, technology literacy, productivity, social skills, leadership, initiative and more. These important, in-demand skills help develop young minds for future success.



Makerspace



Makerspace at Vo Van Kiet High School, Vinh Long Province



Makerspace at Phan Van Tri Secondary School, HauGiang Province



Makerspace at Long Tri A Secondary School, HauGiang Province

Our Strategy 2024-2028

Our strategy is to be active in 20 countries by the end of 2028

01

350 Code Clubs will host 20,000 - 25,000 students per year, allowing them to unleash their creativity.

04

In 2024, we will begin our operations in **Laos and Cambodia**, and in 2025 we will expand to **Africa.**



02

We also aim to open around **100 new Makerspaces.**

03

We will give around **500,000 children (per year) access to digital education** over the next four years.

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MR NGOAN VAN TRINH

Deputy Director, Department of Education and Training, Vinh Long Province

Testimonials

"The Code Literacy project, led by the Dariu Foundation, has significantly improved digital technology and computer science education in Vĩnh Long Province. Teachers now stay up to date with the latest programming knowledge, which is seamlessly integrated into the official computer science curriculum and extracurricular programming club activities. In addition, students have gained practical problem-solving skills and achieved remarkable results in national technology competitions. Encouraged by these positive results, our province plans to expand programming education to all levels of education, fostering an environment where both students and teachers can continuously develop their expertise and enhance their career prospects."

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MR BAO THE PHAM

Assoc. Prof., Dr, Dean of the Faculty of Information Technology, Saigon University

Testimonials

"As an educator, I've witnessed the transformative impact of Dariu's Code Literacy project. This initiative bridges the gap between traditional education and the rapidly evolving technology landscape. By providing timely knowledge updates, it helps students and teachers keep pace with the digital age. External support, such as that provided by Dariu, is critical to empowering schools, educators and students in the Mekong Delta."

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MR TIEN ANH LE

Founder, CEO of Chatbot Vietnam

Testimonials

"As the founder of a young AI platform startup, I wholeheartedly support Dariu's Code Literacy project. These programmes play a crucial role in equipping Vietnamese youth with essential skills in the digital age. Access to computer science and programming will not only enhance their skills, but also enable them to compete globally. It's amazing to see such a commitment to empowering the next generation! Furthermore, through the Impossible Project, Dariu is doing a fantastic job of fostering innovative thinking and providing a strong platform for young entrepreneurs.

To further increase the impact, I propose to foster even stronger connections between startups by facilitating more networking events. This will allow the Dariu Foundation to provide more valuable opportunities for young people to share experiences, learn from each other, expand their professional networks and apply their skills in real-world scenarios."

Key Statistics

1. DIGITAL LITERACY INITIATIVE

- A total of **474** local schools joined the training network, including **150** mobile schools.
- **2,006,525** students have been trained since 2011, including **492,963** in 2023 alone.

2. CODE CLUBS

- A total of **5,000** students joined the network of **179** Code Clubs. **109** projects were developed by Code Clubs members in 2023. A total of **615** projects have been developed since 2018.
- **04 international awards in 2023.**

7. DIGITAL ENTREPRENEURSHIP

- **2,943** students have been educted since 2022.
- A total of **290** students have been divided into 88 teams for incubation.



3. SCHOLARSHIPS

- **20,981** scholarships have been awarded since 2007, including **30** in 2023.

6. MAKERSPACE

- **3** Makerspaces were completed in 2023.

4. KINDERGARTEN

- **34** Kindergartens have been built since 2004.

5. VOCATIONAL TRAINING PROGRAMME

- **Of the 1,666** students trained since 2019, 85% achieved employment after graduation.



THE DARIU FOUNDATION
Balance sheet as per December 31, 2023

Unit: CHF	31/12/2023	31/12/2022
Assets		
Cash	1.854.156	4.988.555
Other accounts receivable		
- From not related parties	1.500.155	0
Prepaid expenses		
- From not related parties	11.115	0
Total current assets	**3.365.426**	**4.988.555**
Fixed assets		
- Securities (under 20%)	1.019.259	0
- Holdings (more than 20%)	0	1
Fixed assets	**1.019.259**	**1**
Total assets	**4.384.685**	**4.988.556**
Equity and liabilities		
Account payables		
- Account payables to suppliers	78.578	4.213
- Account payables to related parties	19.039	15.400
Current liabilities	**97.617**	**19.613**
Liabilities	**97.617**	**19.613**
Restricted capital	**80.000**	**0**
Registered organizational capital	400.000	400.000
Unrestricted organizational capital	3.807.068	4.568.943
Total organizational capital	**4.207.068**	**4.968.943**
TOTAL EQUITY AND LIABILITIES	**4.384.685**	**4.988.556**



THE DARIU FOUNDATION
Profit & Loss Statement 2023

Unit: CHF	YEAR 2023	YEAR 2022
Donations		
Project related donations	80.000	0
Free donations	629.575	1.214.101
Income	**709.575**	**1.214.101**
Project expenses	-1.069.682	-782.076
Personnel expenses	-73.827	-76.776
Non-personnel expenses	-168.319	-134.168
Expenses	**-1.311.828**	**-993.020**
Operating result	**-602.253**	**221.081**
Financial income	107.637	55.362
Financial expenses	-187.259	-175.303
Net financial loss	**-79.622**	**-119.941**
Result before allocation to registered capital	**-681.875**	**101.140**
Changes in registered capital	-80.000	0
Result (before allocation to organizational capital)	**-761.875**	**101.140**
Allocations/Use unrestricted organizational capital	761.875	-101.140
Result after allocation to organizational capital	**0**	**0**

The Dariu Foundation's full audited financial statements can be found on our website.

New Partnerships

swisscontact

Swisscontact is a Swiss non-profit organization focused on promoting economic, social, and environmental development.
Established in 1959, it operates worldwide, implementing projects aimed at fostering inclusive growth and reducing poverty.
Swisscontact and The Dariu Foundation launched an initiative to promote digital skills among youth in Laos and Cambodia.

CURTI STFTUNG

CURTI STIFTUNG, founded in 2015 by Regula and Beat Curti, is a registered NGO for the support of creative, research and educational activities in the field of culture, as well as for the preservation and restoration of historical, architectural or otherwise culturally significant properties in Switzerland. **They are supporting our project in Bhutan.**

Brot für die Welt

Bread for the world is a globally active development and relief agency in Germany that empowers the poor and marginalised to improve their living conditions in more than 85 countries all across the globe.
BftW's support will ensure that a high-quality digital education is mainstreamed into Vietnamese schools and create access to basic computer and coding skills for 1.2 – 1.5 million children between 2023 – 2025.

iu
INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

The International Online University of Applied Sciences offers online degree programs in various fields such as business administration, engineering, health management, and social work. It provides flexible learning options, allowing students to study from anywhere in the world at their own pace.
IU awarded 50 scholarships to the Dariu Foundation for undergraduate or graduate studies.

ZEWO Quality Seal

We are proud to announce that The Dariu Foundation has received the prestigious ZEWO quality seal. This esteemed certification is a testament to our commitment to transparency, accountability, and effective use of resourcees. The ZEWO seal assures our donors and partners that their contributions are managed with the highest ethical standards and are directly supporting impactful projects. This achievement not only enhances our credibility but also strrengthens the trust placed in us by our community. We remain dedicated to maintaining these high standards continuously improving our operations, and maximizing our positive impact



Our Partners

Symphasis

WIETLISBACH FOUNDATION

Brot für die Welt

fontana foundation

ZEWO ZERTIFIZIERT CERTIFIÉ CERTIFICATO

intel

UBS Optimus Foundation | UBS

Moonfare

swisscontact

Google

Microsoft

iu INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

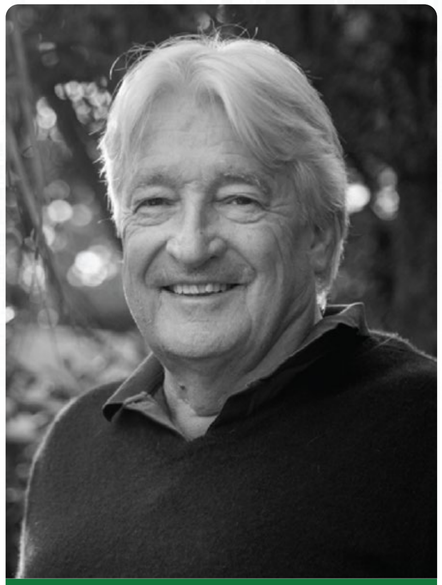
HSBC

Qualcomm wireless reach

Ringier

CURTI STFTUNG

Member of the Board



THOMAS TRÜB
Founder and President



DANIEL KELLER
Vice-President



ANNABELLA BASSLER
CFO



MANUEL LIATOWITSCH
Member



CHAI SCHNYDER
Member

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(IBAN: CH42 0076 1016 0925 62057)

Account number (USD): 0161.1162.7253
(IBAN: CH29 0076 1016 1116 2725 3)

Swift code: KBAGCH22

