

IMPACT REPORT 2023

Making STEM
inclusive for All

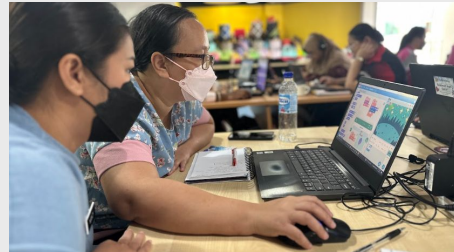


Year 2023

In a Glance

In 2023, Chumbaka experienced significant growth, particularly in its competitive events, drawing in new participants and showcasing a surge in innovative projects. These competitions became hubs for students to express creativity and problem-solving, fostering dynamic learning environments. The commitment to inclusivity was highlighted through expanded programmes benefiting high-need schools, with a focus on rural and B40 communities, ensuring widespread access to quality education.

Chumbaka's engagement in the educational community strengthened through active participation in initiatives like SEC, Code.Org, and ISTE, aligning efforts with global best practices. Collaboration was a key focus, leading to strengthened alliances with existing partners and the establishment of new, promising partnerships. As 2023 unfolded, Chumbaka continued to be a catalyst for quality education, playing a pivotal role in enriching the learning experiences of students nationwide.



Malaysia faces a widening skills gap

- Digital economy sector was expected to contribute 25.5 per cent to the gross domestic product (GDP) by 2025 ([News Straits Time, 2023](#))
- Survey finds Malaysian workers lack skills for complex jobs ([Free Malaysia Today, 2023](#))
- Urban - rural GPN widened in Sabah ([The Star, 2023](#)) and Sarawak ([Borneo Post, 2023](#))

How Do Our 3 Pillars Prepare Kids For The Future?

At Chumbaka, we strongly believe in nurturing a future-ready generation through three essential pillars: Mentor, Curriculum, and Technology. We collaborate with various communities on the ground to empower young minds with these three pillars, building their confidence and capability to thrive in the face of challenges and opportunities that lie ahead.



MENTOR

Capacity building for teachers and university students

A supportive network to assist students in their self-paced learning journey



CURRICULUM

Educational content aligned to Industry 4.0 comprising both hardware & software components

Focus on project-based learning, aligned to subjects in school e.g. Reka Bentuk Teknologi (RBT)



TECHNOLOGY

Accessible online and offline platform for learning

Commitment to embrace open-source platforms for inclusivity within diverse learner communities

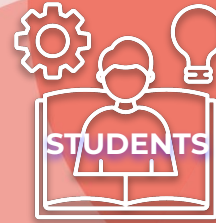
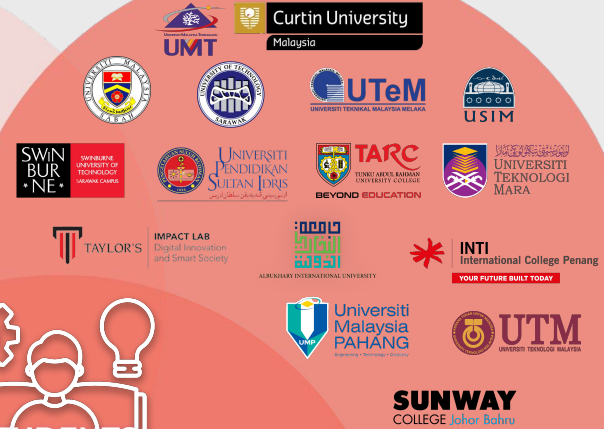
Working Closely with Community Partners Towards a Common Vision

In order to prepare children for the future, Chumbaka actively collaborates with diverse communities to foster innovation, equity, and sustainability among students.

CORPORATE PARTNERS



UNIVERSITIES



KEMENTERIAN PENDIDIKAN MALAYSIA



SCHOOLS

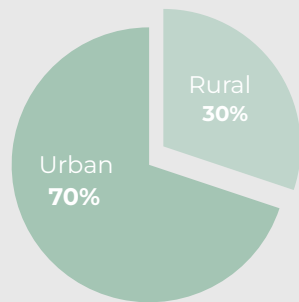
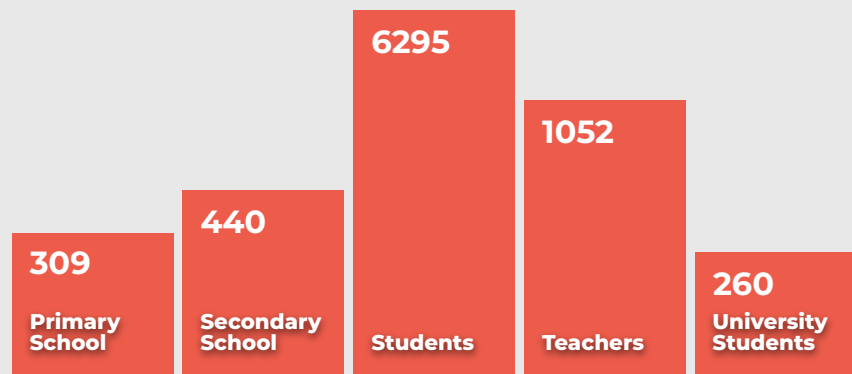
GOVERNMENT AGENCIES

Community Supporters Behind Year 2023

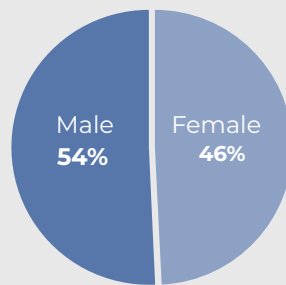
We didn't do it alone. Thanks to various community supporters, we are able to reach out to many schools in Malaysia



In collaboration with our amazing partners we have reached

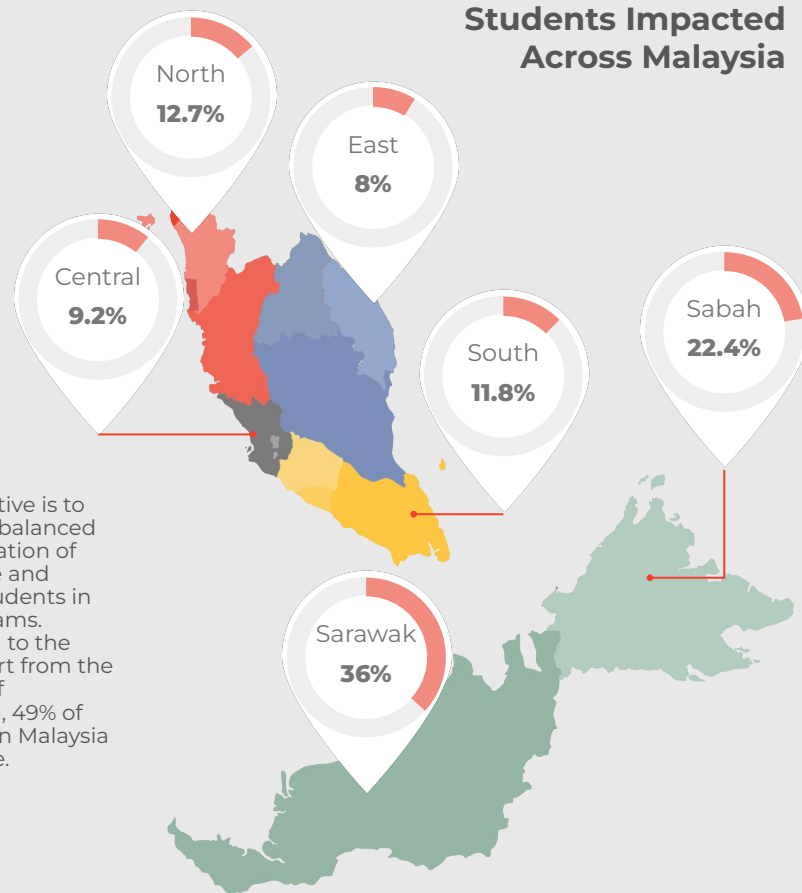


About 30% of the schools participating in our programs are in rural areas. According to the Ministry of Education's 2022 report, 42% of schools in Malaysia are located in rural areas.



Our objective is to achieve a balanced representation of both male and female students in our programs. According to the 2022 report from the Ministry of Education, 49% of students in Malaysia are female.

Students Impacted Across Malaysia



Individual Impact

Continuous Learning After Chumbaka Programme

Our alumni (including students, mentors, and teachers) have been leveraging on our education programmes and support networks for their personal and professional development.

Here, we take a snapshot on the stories shared by our alumni in Tenom, Sabah.



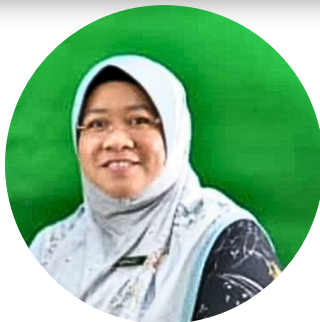
KENNETH TAKES THE LEAD THE MAKER MOVEMENT

In 2018, as head mentor at the Tenom Innovation Centre (TIC), Kenneth facilitates workshops and leads Maker Club movements to nurture innovation within his community. Since then, his ongoing endeavours have led him to receive the Global Student Prize and the PETRONAS Education Scholarship in Chemical Engineering. Additionally, through his impactful innovation projects, Kenneth secures victories not only in national but global engineering and innovation competitions. In his current role as TIC Alumni Maker, Kenneth ardently foster continuous learning for his juniors as a way to give back to his community.



TEACHER LEONA IS PUSHING BOUNDARIES IN THE NAME OF INNOVATION

Teacher Leona broke new ground by expanding the makerspace movement to Papar, Sabah through a collaborative partnership with Chumbaka and PPD Papar. From her wealth of experience working with the Tenom Innovation Centre, this venture has allowed her to connect with a variety of educators and dynamic teams eager for her to train their students and teachers in innovation. Currently, Teacher Leona is focused on establishing the Papar Innovation Centre with Pusat Kegiatan Guru to fortify the region's creative learning foundation.



TEACHER NORHAYATI CHAMPIONS THE USE OF TECHNOLOGY IN SCHOOLS

Teacher Norhayati from PPD Tenom believes that education and technology should go hand-in-hand. With that belief, she strategizes the various methods she can help schools to effectively utilise technology. Due to her strong sense of responsibility, she is emboldened to empower the local community to embrace technology and drive positive change. Through her initiatives, a positive domino effect is being lead on the educational landscape in Tenom which students and teachers will be able to reap for many years to come.

Community Impact

Local Communities Pushing Maker Movement under Chumbaka Support

SJKT Ladang Bukit Jalil

Cikgu Gaanesh, a dedicated teacher from SJKT Ladang Bukit Jalil, became intrigued by the Junior Innovate programme through a former alum. Observing the absence of a state sponsor to host the State Level event for Klang Valley, he proactively suggested the idea to the school board. Collaborating with the school, they successfully approached Asia Pacific University and secured joint funding for the state-level event with Chumbaka support.



Pejabat Pendidikan Daerah Papar

PPD Papar's first collaboration with Chumbaka was under the Ignite Digital Maker (IDM) 4.0, a programme partnership with the Hap Seng Group. Dedicated in supporting Chumbaka since the early phase of the program, PPD Papar proactively engaged with schools participating in the IDM programme and ultimately took charge of organizing the competition showcase.



Ministry Of Education Innovation & Talent Development Sarawak

The Ministry of Education Innovation & Talent Development (MEITD) has been a diligent partner with Chumbaka in striving towards robust STEM education in Sarawak schools. About 227 schools have benefited from various projects involving consistent support from MEITD, including Junior Innovate, Young Innovators Challenge, Yayasan Hasanah STEM 4.0 Programme, and others.



Partnerships for Change

Lending a Hand in Developing Life Skills to Create a Competitive Edge in a New Digital Era

By collaborating strategically with Chumbaka, our corporate partners play an active role in creating a dynamic learning environment. Below, our partners outline how partnering with Chumbaka can positively impact communities and contribute to a brighter future.



YAYASAN HASANAH

The profound influence of the Chumbaka-Yayasan Hasanah partnership is palpable in the classrooms of Perlis, the innovative spaces of the Tenom Innovation Center in Sabah, and the schools nestled in the verdant landscapes of Sarawak. The collaborative synergy between Yayasan Hasanah and Chumbaka is a living example of strategic foresight, a deliberate fusion of resources and expertise aimed at meeting the dynamic needs of education in regions that deserve every opportunity to flourish. This collaboration between Yayasan Hasanah and Chumbaka is not just a partnership; it is a shared commitment to sculpting a brighter tomorrow through the power of education - **Strategy & Partnership Sector, Yayasan Hasanah**



HAP SENG GROUP

Hap Seng Group and Chumbaka share the same value in embracing the education ecosystem through capacity building via digitalization and innovation, which have become global education trends and needs. Our programme specifically involves the community we are interested in, especially in Sabah, where Hap Seng Group is significantly involved in assisting and investing in education. The impact of this partnership is aimed at adding value to the skills of students, teachers, and everyone interested, providing a platform for them to further embrace their true potential and contribute to their better future undertakings - **Corporate Social Responsibility, Hap Seng Group**

Our Way Forward

In the next few years, Chumbaka is committed to creating a more accessible and inclusive community. Our vision goes beyond programmes to create an ecosystem that actively involves all members. To achieve this, we are dedicated to **sharing our educational resources on platforms such as [DELIMa](#) and [LADAP Plus](#)**, ensuring that our materials can be easily accessible to diverse communities. We passionately call upon schools and communities to join us in leveraging the wealth of resources and programs that Chumbaka offers.

If you share our vision and are interested in shaping the future of education, **[collaborate with us!](#)**





#staycurious

If you are interested to understand more:

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