

chym**baka**

2024 IMPACT REPORT

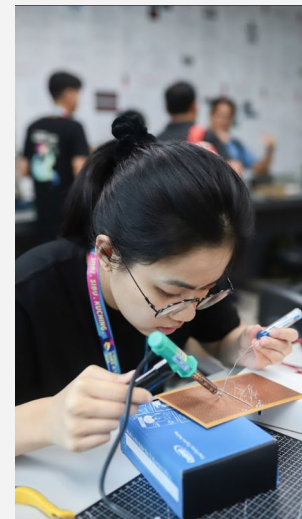
Strengthening the Foundation of STEM



2024 at a glance

In 2024, we at Chumbaka expanded our role in advancing STEM (Science, Technology, Engineering, and Mathematics) education by forging new partnerships and strengthening connections with educational communities and corporate stakeholders. While we remain committed to driving STEM learning forward, **we recognise that equitable education begins with a strong foundation in basic literacy and numeracy, especially for students in underserved schools.** To address this gap, we have launched initiatives to bridge learning losses among rural students, ensuring that literacy is no longer a barrier to future opportunities in STEM.

Chumbaka's commitment is to build an inclusive and accessible educational ecosystem that actively engages all stakeholders. **To achieve this, we share our educational resources on open platforms, such as DELIMa, and continuously seek partnerships to support diverse learning infrastructures, including initiatives like 'Program Anak Kita' via the Kayam School Learning app.** By prioritising literacy as a foundational step, we aim to equip students with essential skills that prepare them for the future. Our efforts remain focused on breaking educational barriers, fostering innovation, and ensuring that every student, regardless of background, has the opportunity to thrive in an evolving digital landscape.



How Chumbaka's 3 Pillars Prepare Kids For The Future

Malaysia's future economic success depends on cultivating a talent pipeline that can adapt to evolving industry needs.

With secondary school STEM enrollment still falling short of the targeted 60:40 ratio, the country must intensify efforts to develop a skilled workforce for high-demand sectors.

(Reference: [Bernama, 2024](#); [Khazanah Research Institute, 2024](#))

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MENTOR

We **empower teachers and university students to build a strong support network**, guiding students in their self-paced learning journey.

CURRICULUM

Our **project-based, self-paced learning content integrates Industry 4.0 technologies** with essential life skills, equipping students for the future.

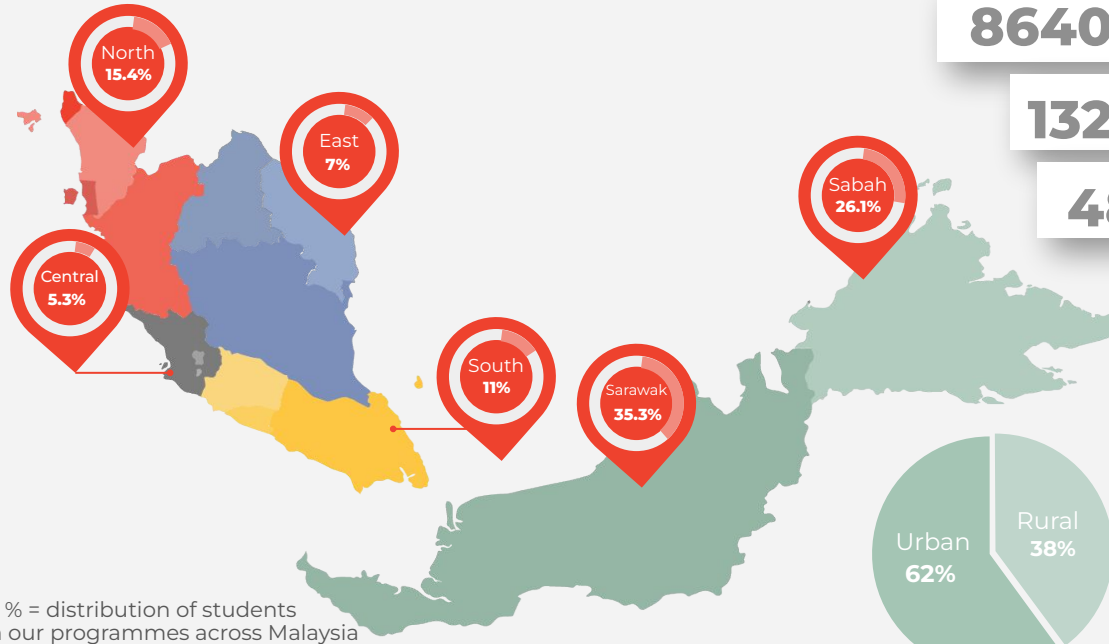
TECHNOLOGY

We **leverage open-source platforms to promote inclusivity and accessibility**, enabling diverse learner communities to thrive.



Our Reach

In collaboration with our amazing partners, this year we have reached...



** % = distribution of students in our programmes across Malaysia

8640

students



1329

teachers



488

primary schools

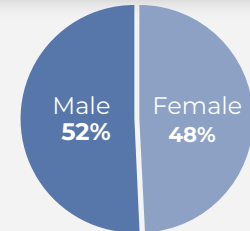
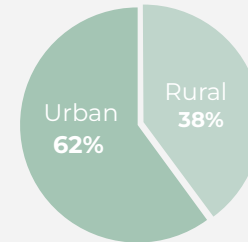


368

secondary schools



278 university students



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In 2024, 38% of participating schools are in rural areas, up from 30% last year. With 42% of Malaysian schools classified as rural (MOE, 2022), we remain committed to improving representation and support for these communities.

We always strive to achieve balanced representation of male and female students in our programmes. In 2024, female participation increased to 48%, closely aligning with national demographics at 49% female (MOE, 2022).

As part of a broader concerted effort, Chumbaka is strengthening education in Sarawak.

It takes a village to raise a child, and we are growing alongside the community. Through collaboration with key stakeholders in Sarawak, we strive to enhance education at every level with a sustainable and holistic approach.

PETROS

To accelerate progress toward a 40% science stream enrollment rate in Sarawak, Chumbaka and PETROS signed a Memorandum of Understanding (MoU) to develop more local talent.

As part of the national effort to strengthen education, Chumbaka is contributing to improving English and Mathematics literacy in Sarawak through Program Anak Kita.



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Aligning with the growing demand for the industrial skills of integrated circuit (IC) design, Chumbaka collaborates with [SMD Semiconductor Sarawak](#) to equip secondary and university students with hands-on learning and industry exposure in integrated circuit (IC) design, preparing them for the workforce.



Driving Change by Empowering Networks

By fostering networks among beneficiaries (students, teachers, and schools) and stakeholders, we cultivate a dynamic learning ecosystem that drives collaboration, knowledge exchange, and leadership development.



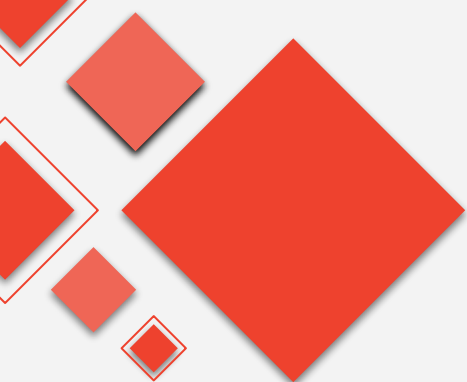
Chumbaka fosters a Professional Learning Community (PLC) among teachers, encouraging them to share insights and experiences while implementing our programmes in schools. In one of the **Yayasan Petronas STEM-4-ALL Train-The-Trainer (TTT) Workshops**, teachers work together to develop strategies for enhancing student learning in schools.



Chumbaka has long promoted student showcases and recently integrated teacher journey showcases into our programmes. At **the Bridging Learning Loss' Learning Seminar**, our teachers get to share best practices, gain recognition, and engage with stakeholders and the community to foster collaboration and growth.

We facilitate dialogue among stakeholders, universities, education offices, and schools to strengthen the teaching and learning ecosystem. The **Chumbaka 2nd School Leadership Summit** brings these groups together to connect, collaborate, and explore future partnerships.





Together, We Empower Change

We sincerely thank our community supporters — corporate stakeholders, government agencies, and education groups — for sharing our vision of empowering learners and educators. Your unwavering support drives innovation, strengthens learning communities, and creates a lasting impact.

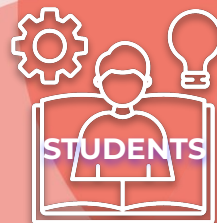


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CORPORATE PARTNERS

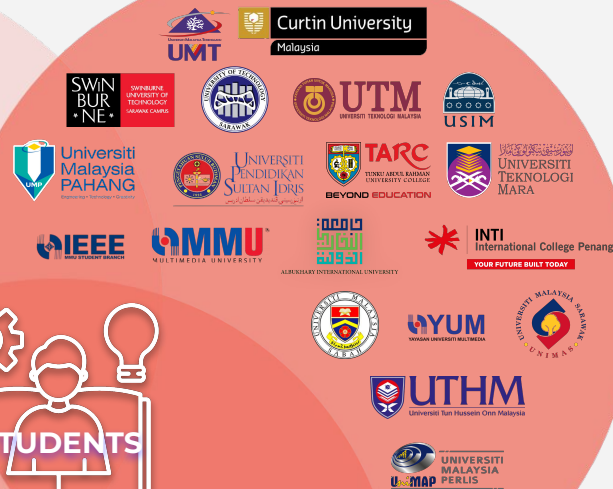


GOVERNMENT & AGENCIES



SCHOOLS

UNIVERSITIES



Empowering Change, One Student at a Time.

Behind every successful programme are individuals whose lives have been transformed through learning, mentorship, and perseverance.



Wong Chuan Yee turns challenges to growth

Wong Chuan Yee, a student from SMK Chung Hua Miri, faced discouragement from joining his robotics team due to his average grades. Determined to participate in the [SMD Make-a-thon](#), he teamed up with a friend and found support from university students, trainers, and judges. With their encouragement, he quickly grasped the content and, alongside his teammates, exceeded expectations—winning the competition. Grateful for the experience, he credits the Chumbaka programme for transforming his mindset and self-belief.



Teacher Nisa inspires Pemulihan Khas students to take charge of their learning

Teacher Nisa from SK Sebauh was introduced to the Chumbaka programme through Yayasan Hasanah's Learning Loss initiative. Using the Kayam School Learning app, she made her remedial lessons more dynamic, tailoring instructions to help weaker students catch up. She sees herself as an educator who empowers students to take charge of their learning, fostering critical thinking beyond memorization. While her teaching methods have evolved from rote learning to problem-solving, she now aims to integrate more digital tools, coding, and interactive activities to equip students with 21st-century skills for future challenges.



Our Way Forward

Beyond our initiatives and programmes, we strive to create a supportive community that engages all stakeholders. We invite corporations from various multitudes to support this effort and encourage schools and education communities to leverage these resources for greater impact.

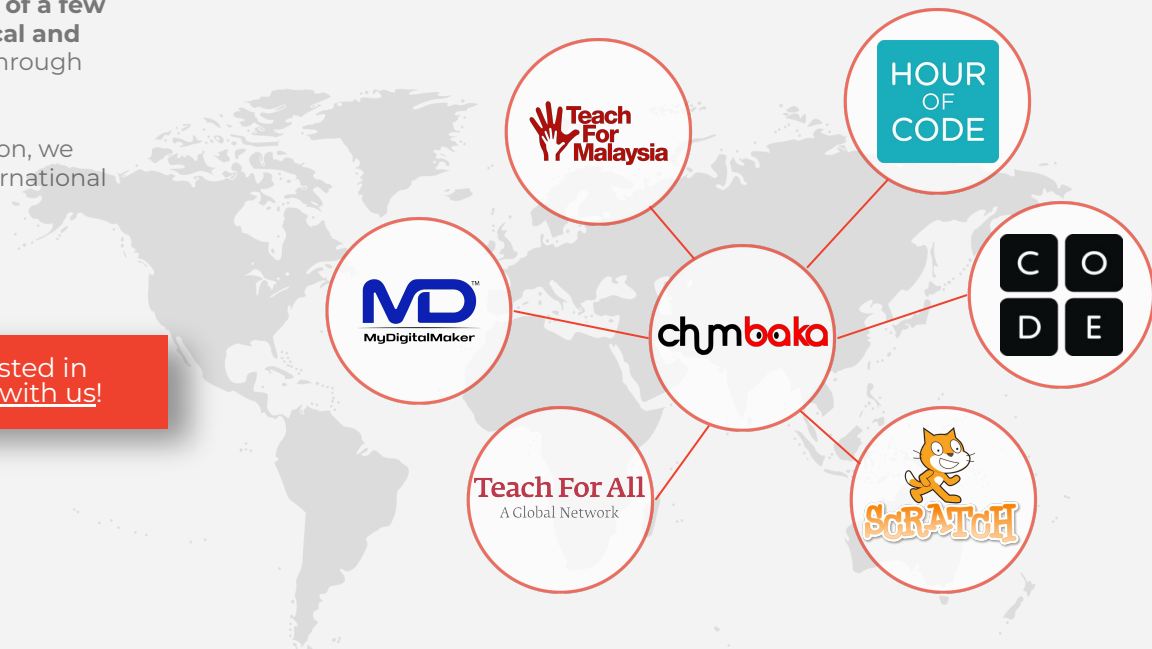
Recognised by esteemed institutions and communities for our commitment to quality education and impactful partnerships with industry leaders, **we are part of a few international networks, actively engaging local and global stakeholders to drive greater impact** through shared resources and expertise.

With a strong foundation of trust and recognition, we continue to expand our local presence and international influence.

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



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#stay **curious**

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