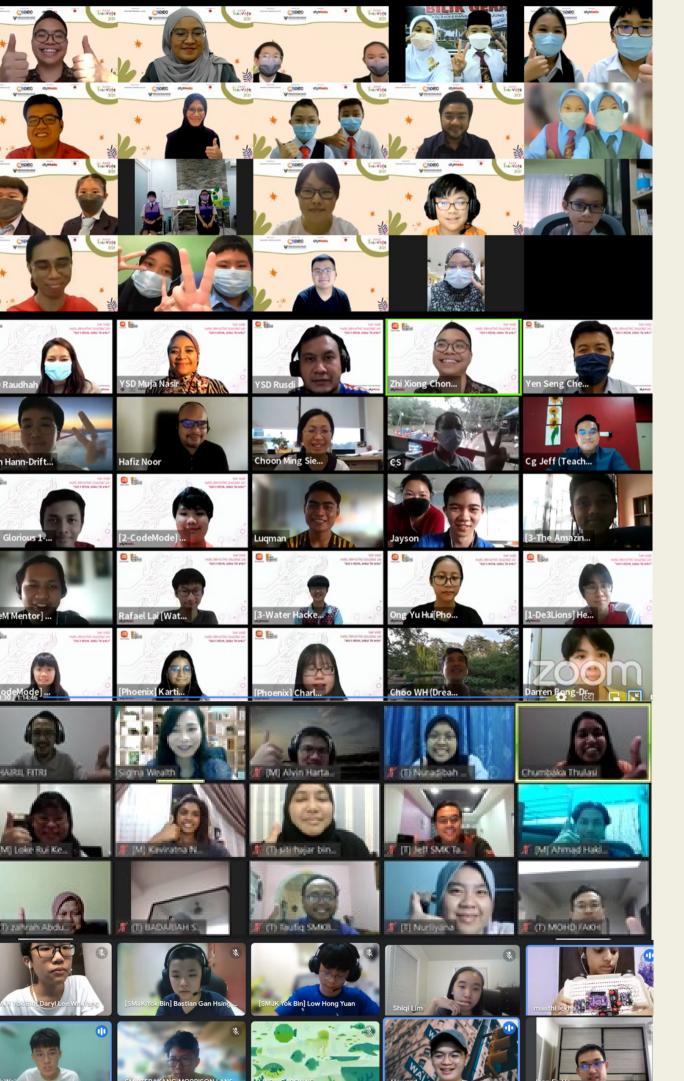


IMPACT REPORT 2021

Your support drives national agenda on STEM





2021 IN A GLANCE

The year 2021 has not been kind to anyone. As we work together to stay safe, the millions of students and teachers who were stranded at home have shown us that Learning Must Not Stop.

Throughout this whole year, we have stumbled over many obstacles and challenges, but the aha-moments of the students and the beaming faces from the teachers are the ones who kept us going.

We have learnt a great deal from the students, teachers, and our community partners. COVID-19, lockdown, and school closure have crippled our ability to reach out to students in Malaysia. But we Chumbaka didn't give up. We learnt to use Discord, Zoom, Telegram, and LMS to run our training for teachers and webinars for students over the internet. Ultimately. we learnt to let go and allow the space and time for our students to think, tinker, and create. While we advocate for the future where all children can navigate through the changing future, we got to learn to do it ourselves first hand.

you - our strong supporters on:

- 1. Our Purpose,
- 2. Our Impact, and
- 3. Our Way Forward.

This is our first annual report, and we would like to take this chance to share with



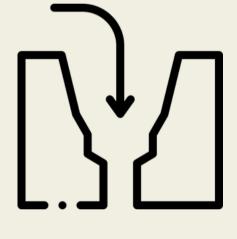
1. Our Purpose **DIGITAL SKILLS GAP IS WIDENING FAST IN** MALAYSIA



Digital job vacancies tripled in Malaysia (The Edge, 2021)



About 3% yearly decline on students' interest in STEM (APEC, 2020)



10% of Malaysia talent market are fulfilled by foreign digital workers (Mida, 2021)

1. Our Purpose

OUR VISION

All children will have the right skill sets and values to navigate the changing future

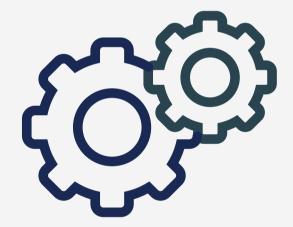
How our 3 pillars prepare kids for the future



Mentor passionate in children education.



Curriculum developed by expert engineers and educators.



Technology

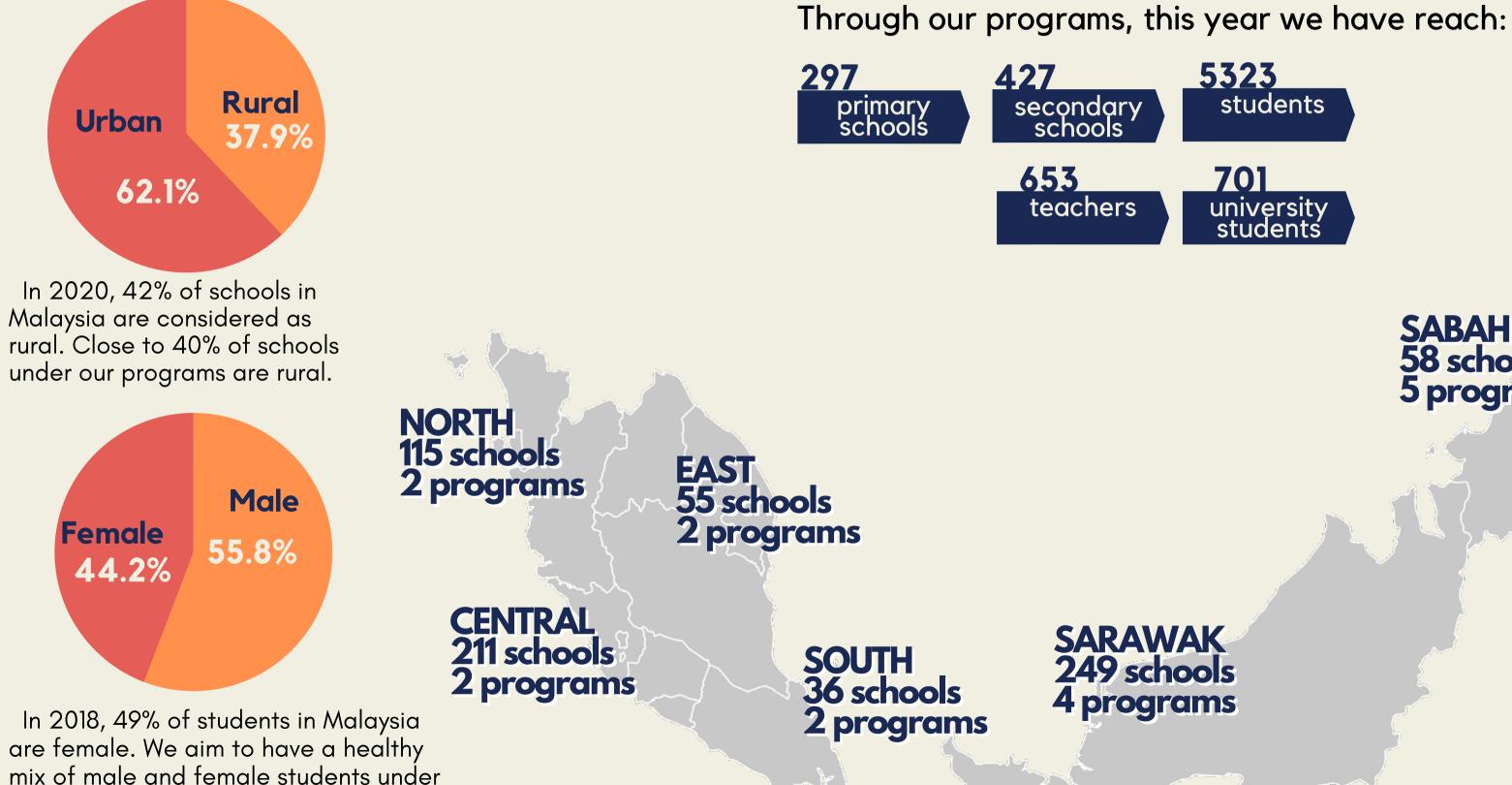
to deliver learning similar to world-class universities.

2. Our Impact WE WORK CLOSELY WITH VARIOUS COMMUNITY PARTNERS TOWARDS A COMMON VISION

Strategic partnerships with our community partners and schools enable Chumbaka to drive STEM at various levels, pushing towards the common goal of national agenda in STEM.



2. Our Impact **OUR DATA ACROSS THE YEAR 2021**

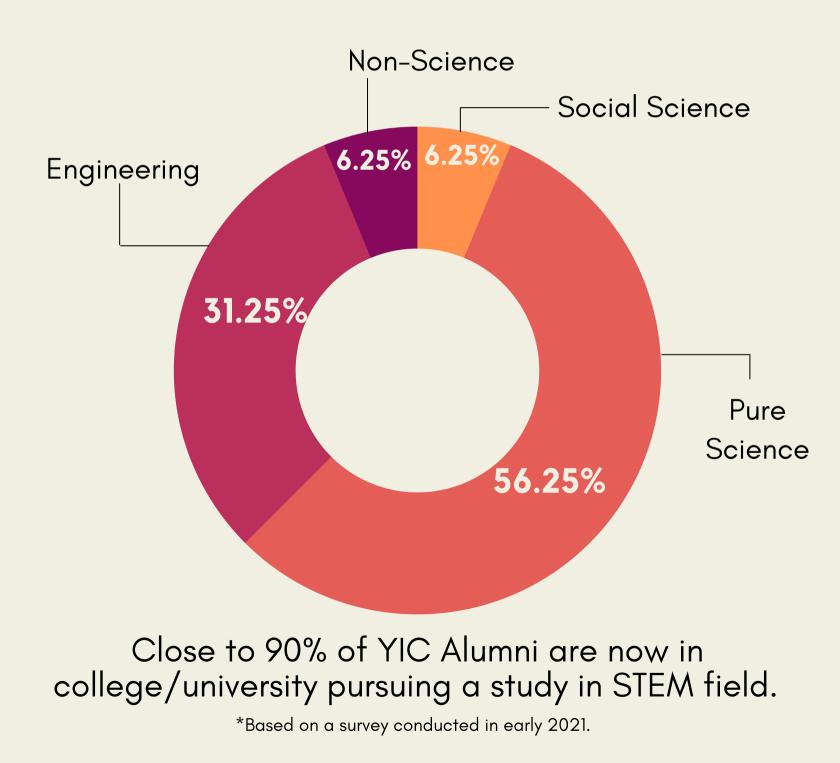


our programs.



2. Our Impact CONTINUOUS LEARNING AFTER CHUMBAKA PROGRAM

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









KOK WEI STUDIES IN PRINCETON

Pua Kok Wei, a YIC alumni is now studying in Princeton University. He has actively involved himself in various programs revolving the use of technology to build up his hometown community in Sekinchan. Despite his busy schedule, Pua has been contributing back by providing advises and guiding our students. See <u>his portfolio here</u>.

ZAHRATUL HUSNA IS THE "IKON MURID DIGITAL" OF MELAKA

Zahratul Husna started her STEM journey back in 2020 with Junior Innovate. Her first-time experience in the competition placed her and her partner as the Champion for JI2020. Finding learning exhilarating for herself, she continued her journey and was recently awarded as the Ikon Murid Digital and with the Digital Utilisation Technology award

CIKGU ANUTHRA BUILDS STRONG COMMUNITY IN SABAH

Anuthra Sirisena, a chemistry teacher with no prior knowledge of technology learning in Tenom, Sabah. She started her innovation journey through a teacher training with Chumbaka back in 2017. Now, she is a passionate community builder that had setup <u>Tenom Innovation Centre</u> (TIC) to encourage makerspace culture within the community.

2. Our Impact **STUDENT PROJECTS ADOPTED IN COMMUNITIES**

Students who won the community adoption grant through Sime Darby Young Innovators Challenge 2020 have worked relentlessly this year to deliver their promise to the communities. SDYIC2021 Grant Recipients will implement 7 community projects in 2022, double the amount of previous years.



BRAIN CIRCUIT

Brain Circuit from SMK Mulong (Kelantan) delivered 15 units of Height Auto Measuring Device, a device to help teachers and nurses to measure height of primary school students contactless. The demand for their device from other nearby schools in Kelantan and Klinik Kesihatan was overwhelming that the team decided to build additional 15 units more!



INDAHPURA

Team Indahpura from SMK Indahpura (1) (Johor) invented "Washroom Auto Counter Device", a device to detect the number of occupants entering a building in adherence to the COVID-19 SOP in school. They managed to build and install 20 units in the 20 schools nearby.



ACES

Aces from SMK Tiong Hin (Sarawak) produced 10 units of STC (Safety Traffic Control) Kit to the surrounding schools in Sibu. This innovative device comprised of an LED safety vest and a controller glove to aid the school traffic warden by providing a better indication to the traffic outside their school especially during dawn.

3. Our Way Forward

To develop children's life skills by inspiring them to create with technology

In the next 2–3 years, we commit to strengthen our 3 pillars



Mentor

To uncover individual potential and enable empowerment among teachers & university mentors through our capacity building efforts



Curriculum

To curate, build, and constantly update our curriculum with the needs of Industry 4.0, while aligning to the social-emotional development





To enable and widen the inclusivity of beneficiaries from rural & remote areas through the deliverance of our technology

Develop children's life skills by inspiring them to create with technology

#staycurious

