

Thye Hua Kwan Moral Charities (THKMC) Disability Services partners with UnaBiz to create healthier and safer environments for beneficiaries and staff

Over 500 beneficiaries and staff enjoy better Indoor Air Quality (IAQ) under THKMC Disability Services

Tuesday, 19 July 2022, SINGAPORE Thye Hua Kwan Moral Charities (THKMC) partners with Massive Internet of Things (IoT) service provider UnaBiz to monitor Indoor Air Quality (IAQ); an initiative by THK Disability Services to create a healthier and safer environment at the THK Homes for Disabled.

As part of its Corporate Social Responsibility (CSR) efforts, UnaBiz Singapore conducted an IAQ monitoring trial - with THK Disability Services from 09 February 2022. For three months, the energy-efficient IAQ monitoring sensors were deployed in Eunost and Chai Chee Homes under THK Disability Services for the monitoring of CO₂ levels within each facility. CO₂ levels were captured in real-time and remotely throughout the day, in areas with high footfall such as dormitories, offices, activity rooms, and nursing stations. The monitoring sensors will be implemented to the rest of the THK Disability Services in Sembawang, Geylang Bahru and Pan-Disability Eunost.

According to The National Environment Agency (NEA), CO₂ levels in occupied areas are often used as a proxy for ventilation adequacy. Building managers should aim for CO₂ levels below 800 parts per million (ppm) at all times. Measurements that exceed 1100 ppm is indicative of inadequate ventilation or potential overcrowding, and should be addressed immediately.

“We are pleased with the results of the trial. On top of real-time actions, our operation team can further analyse historical data stored on the cloud via a user-friendly dashboard, so that we can draw correlations between indoor capacity, length of activities and CO₂ levels to predict IAQ and ventilate the rooms regularly,” said Ms Agatha Tan, Divisional Director of THKMC's Disability Services.

“While the pandemic presented new challenges to our team, it also gave us an opportunity to review our processes and make our homes healthier. CO₂ sensors are simple and powerful tools to optimise IAQ quality and build confidence for our residents,” she added.

The ability to monitor CO₂ levels allows for the team to take the necessary corrective actions if pre-defined thresholds are breached. Measures such as increasing natural ventilation and deploying fans were taken to improve air quality, creating a healthier, safer, and more comfortable environment for over 500 staff and beneficiaries under **THK** Disability Services.

Mr Jonathan Tan, Managing Director of UnaBiz Singapore said, “*CO₂ sensors, as well as temperature and humidity sensors, allow facility managers to take real-time actions to improve the ventilation of indoor spaces. Using the data, building managers can implement data-driven ventilation to allow the flow of fresh air to be automatically optimised. As we transition into the post-pandemic era, vaccines and masks will take a back seat. However, more can be done to reduce the risk of COVID-19 infection by improving ventilation and monitoring CO₂ levels to minimise aerosol transmissions. We are pleased to support **THKMC** by empowering the operation team with IoT solutions and real-time data to provide peace of mind to the residents and staff.*”

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About Thye Hua Kwan Moral Charities (THKMC)

Since October 2011, Thye Hua Kwan Moral Charities (**THKMC**) was incorporated as a single charity with IPC status, merging 9 IPCs and 5 SACs to provide multiple social and welfare services to the community at large. **THKMC** provides assistance through more than 70 programmes and services for the elderly and the sick, families, Persons with Disabilities (PWDs), and children.

Our commitment and endearing efforts galvanise our spirit and mission to the community and beneficiaries that come from different races. Our service motto, “To serve you better... Always” remind us to always stay true to our mission to serve all people regardless of their race, language colour, creed, and religion.

At **THKMC**, we strongly believe that each of us is given that special gift to contribute to society.

Together, we progress as one, abiding by our motto - To serve mankind.



About UnaBiz

UnaBiz is a Massive IoT service provider that specialises in sensor product design, manufacturing, and data platform services across a hybrid of low-power wide-area (LPWA) technologies such as Sigfox, LTE-M, NB-IoT and LoRa, to power business growth. Founded in 2016, the company is headquartered in Singapore, with offices in Taipei, Tokyo, Labège, Paris, Madrid, Lisbon and Holland.

UnaBiz owns the Sigfox technology and has delivered over 10 million sensors on the global 0G Network, owned and operated by 70+ Operators worldwide. The company focuses on Smart Metering, Facilities Management, and Asset Tracking to enable Smart Cities applications.

UnaBiz envisions a closely connected world powered by simple technology because it believes in “Less is More”. By uniting people and technology, it aims to create an impact on a massive scale, to help every person and every organisation on the planet live smarter, simpler, and more sustainably way.

关于太和观慈善机构

太和观慈善机构因合并了九个慈善公益机构及五间乐龄活动中心，自 2011 年 10 月成立为一个非牟利注册的慈善公益机构。我们通过 70 多个项目及服务，为不同族群的人士提供社区帮助，包括乐龄、家庭、儿童、及残疾等方面的帮助与服务。

为来自不同种族的受益者及大众服务是我们对社会的承诺和使命。我们的座右铭：

“永远，更好地为您服务” ，提醒我们忠于使命，在不分种族、语言、信仰和宗教的情况下，为人民服务。

太和观慈善机构坚信每个人都被赋予了为社会做出贡献的责任与才能。我们欢迎那些有着共同愿望的人，希望他们在我们的社区中产生积极的影响。

众志成城，共同进步，恪守我们的座右铭——为人类服务。

About **THK** Disability Services

THK Disability Services was formed in 1989 to provide support for Persons with Disabilities (PWDs) to be independent in their daily living, obtain employability and social skills, through its Homes and Centres in Chai Chee, Eunos, Sembawang and Geylang Bahru.

THK Home for Disabled @ Sembawang

THK Home for Disabled @ Sembawang was established in April 2018 to provide long-term residential care for adults aged between 17 and 55 years old diagnosed with intellectual disabilities (ID) and/or Autism Spectrum Disorder (ASD), or other co-morbidities. We also support short-term care respite care services and crisis placements classified under the MSF Vulnerable Adults category. Our beneficiaries are Singapore Citizens or Singapore Permanent Residents who have an IQ level of less than 70 and/or ASD, or other co-morbidities.

Referrals for admission into the Home have to be made via SG Enable. For assistance on referral procedures, you may contact SG Enable at 1800 8585885 or ad.services@sgenable.sg.

The Home aims to ensure that adults with disabilities enjoy the highest possible quality of life, especially in the areas of health and well-being, participation, independence, decision-making and inclusion. We provide them with a variety of daily activities, from gardening and home farming to PlayStation gaming.

Address:

7 Sembawang Walk Singapore 756977

THK Autism Centre @ Geylang Bahru

THK Autism Centre @ Geylang Bahru was set up in 2017 to meet the increasing demand for Day Activity Centres for Adults with Autism Spectrum Disorder (ASD) aged 16 to 55 years old. The centre aims to engage the adults in meaningful activities and life skills so that they can attain a better quality of life with confidence and independence.

The community-based day care programme provided by **THK Autism Centre @ Geylang Bahru** explores a variety of recreational activities that help to enhance the clients' decision-making capabilities.

Our facilities include a kitchen where our clients will learn to cook and bake simple dishes; an open gym area used for dancing, exercising and leisure play; there is also a mock-up apartment facility where our clients can practise daily activities such as folding clothes, making their bed, etc. We have classrooms where numeracy and literacy lessons are held, and all classrooms also include individual calming rooms for clients to regulate their emotions. This is a place for relaxation and contemplation for our clients as well. There is also a Snoezelen Room, a Multi-Sensory Environment, for our clients to explore and to improve their cognitive and sensory needs through therapy.

Address:

Blk 72 Geylang Bahru #01-3018 & #01-3032, S330072

THK Home for Disabled @ Eunos

THK Home for Disabled @ Eunos was established on 1 June 1989 to provide residential care for 22 children with intellectual disabilities when the Government divested its 6 children's homes.

The Home aims to develop residents and assist them in finding sustained employment in the community and receive a regular income. With its barrier-free access facilities, **THK Home for The Disabled @ Eunos** is able to introduce new initiatives and innovative programmes for all residents in the areas of training and developmental growth, social recreational activities, as well as employment or career opportunities. The Home also facilitates programmes to meet various development needs for children with special needs (7 - 16 years old) who are neglected or have limited caregiver support.

Address:

20 Jalan Eunos Singapore 419494

THK Home for Disabled Adults @ Chai Chee

Established in 1999, **THK Home for Disabled Adults @ Chai Chee** gives shelter, warmth, care and love to 102 intellectually disabled adults; in particular to those without parental support or whose parents are unable to support or care for them. Residents live in harmony with each other and respect each other's race, colour, culture, creed, language and religion.

The Home provides long-term residential care and structured programmes to suit the residents of different age groups and disability profiles. We train and develop their capabilities in self-help, community living, socialisation, perceptual-cognitive and motor skills.

THK Day Activity Centre (DAC) @ Chai Chee

Set up in 2005, is an alternative care arrangement for caregivers to relieve them of caring for the disabled family members during the day. Currently, **THK DAC @ Chai Chee** provides care to clients with a structured programme which includes exercise routine, art & craft making, personal grooming, traveling, baking, cooking, music appreciation, outdoor activities and watching movies.

Address (both Home & Centre):

2 Chai Chee Lane Singapore 469030

THK Pan-Disability Centre @ Eunos

The Society of Moral Charities (Visually Handicapped), SOMC (VH), is a sheltered workshop that provides persons with visual impairment a means to be gainfully employed and was started in October 2005. The Centre, now known as **THK Pan-Disability Centre @ Eunos**, has since moved towards pan-disability and currently has clients with multiple disabilities, such as hearing impairment, intellectual and multiple disabilities.

Address:

Blk 3 Eunos Crescent #01-2577 Singapore 400003

C O N T A C T S

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