

Annex A

Featured Activities

DRONE SHOWCASE, Biopolis

The Civil Aviation Authority of Singapore (CAAS) will be organising a showcase dedicated to the innovative use of Unmanned Aircraft Systems (UAS), commonly known as drones, in line with the designation of one-north as Singapore's first drone estate. The Drone Showcase aims to promote the safe and responsible flying of drones, while showcasing the innovative applications and technologies of drones by commercial companies and public sector agencies.

Visitors can look forward to a slew of interactive activities and technical demonstrations at the Drone Showcase, and learn all about flying their drones safely and responsibly.

Programme highlights

Indoor Drone Challenge

Location: Auditorium, Matrix Building, Level 2

Time: 9.00am to 12.00pm

Drone enthusiasts and newbies will get to fly drones through an aerial obstacles course in an enclosed area, guided by certified instructors.

Drone Simulator

Location: Matrix Building, Level 2

Time: 9.00am to 12.00pm

Drone enthusiasts can experience the thrill of flying drones at high speed through different obstacle courses.

Aerial Photography

Location: Open Lawn along Biopolis Road

Time: 9.45am to 10.15am

10.30am to 11.15am

11.30am to 12.00pm

In partnership with Mediacorp and Epson, visitors can have their photos taken by drones.

Safe-Flying Zone

Location: Open Lawn along Biopolis Road

Time: 9.45am to 10.15am

10.30am to 11.15 am

11.30am to 12.00pm

In partnership with Jurong Drone Club, drone enthusiasts and newbies can try their hand at flying drones at a designated safe flying zone. Certified drone-flying instructors will be available to provide useful tips on drone flying.

Drone Workshops

Location: Meeting Rooms 3, 4 & 5, Level 3, Matrix Building

Time: 9.00am to 10.00am

10.00am to 11.00am

11.00am to 12.00pm

The one-hour workshop will teach participants about the different components of a quadcopter and how to build and fly a beginner-friendly drone.

Coding for Drones (Tynker)

Location: Meeting Rooms 1 & 2, Level 3, Matrix Building

Time: 9.00am to 12.00pm

Organised by Science Centre Singapore, this workshop invites students and families with young children to try their hands at becoming drone operators. Workshop participants will learn to code and autonomously pilot a drone.

More information can be found at

www.science.edu.sg/events/Pages/droneworkshops.aspx

Power Paper Airplanes (Power-Up 3.0)

Location: Meeting Rooms 1 & 2, Level 3, Matrix Building

Time: 9.00am to 11.15am

Organised by Science Centre Singapore, this workshop invites students and families with young children to convert a humble origami glider into a remotely controlled aircraft.

More information can be found at

www.science.edu.sg/events/Pages/droneworkshops.aspx

Technology Demonstrations

Catch the following technology demonstrations:

Location: Open Lawn along Biopolis Road

Time: 10.15am to 10.30am

Watch how ST Engineering's unmanned aerial vehicles that are equipped with smart analytics capabilities and specialised algorithms carry out tasks such as automatic detection and recognition, including detecting letters hidden among the crowd, and processing the images to recognise the word that the letters spell.

Location: Outside Matrix Building

Time: 9.30am to 9.40am

10.10am to 10.20am

10.55am to 11.05am

11.40am to 11.50am

Watch how the National Parks Board's (NParks) Tree Inspection Microdrone (TIM), a lightweight, low-risk prototype drone developed in collaboration with the Singapore

University of Technology and Design (SUTD), navigates through foliage to conduct aerial inspection of the tree crown.

Location: Open Lawn along Biopolis Road

Time: 11.15am to 11.30am

Watch how National Environment Agency (NEA) officers use a modified drone to inspect roof gutters/ roof tops and detect the presence of stagnant water which may lead to mosquito breeding.

Location: Centros, Biopolis St

Time: 9.20am to 9.30am

10am to 10.10am

10.45am to 10.55am

11.30am to 11.40am

Watch how the drones developed by JTC and H3 Dynamics are used to inspect building facades and vertical surfaces in one-north for anomalies or defects.

Fly It Safe Showcase

Location: Matrix Building, Level 2

Time: 9.00am to 12.00pm

Visitors to the CAAS booth can learn more about how to fly drones safely and responsibly.

Showcase by private sector companies and public agencies

Location: Matrix Building, Level 2

Time: 9.00am to 12.00pm

Private sector companies and public agencies will demonstrate how they use drones to improve their daily work operations including unmanned parcel delivery and inspection works.

KEEP CLEAN, SINGAPORE!

Each year, Singapore celebrates the Keep Singapore Clean movement with a month-long community clean-up festival – Keep Clean, Singapore!, spearheaded by the Public Hygiene Council (PHC). This year marks the 50th anniversary of Keep Singapore Clean Campaign launched by the late Mr Lee Kuan Yew. PHC continues his legacy by working with partners and public to advocate, the value of maintaining cleanliness beyond our doorsteps.

The message this year, “**I PHC** (Pick up at Home & Community). **Do you?**”, plays on the name of the Public Hygiene Council and celebrates social actions beyond litter picking. We invite all Singaporeans to Pick up at Home & Community. For example, wipe down after use of public toilets, leave a clean table for the next diner at public eateries, clear errant litter or set in order strewn bikes around the neighbourhood.

Programme highlight

PHC Walk

Location: Around one-north, Timbre+

Time: 9.00am to 12.00pm

To mark the official launch of Keep Clean, Singapore! this year, PHC is organising the inaugural PHC Walk, a community walking event, at one-north on 29 April at 9am. The event is set to attract over 3,500 members from local communities to walk together and raise awareness on public cleanliness responsibility. Look forward to a scenic walk followed by family fun at the end of the PHC Walk. A family carnival awaits at Timbre+ with life-sized playsets, stilt walkers, air hockey games, food and entertainment (including a live performance) and an exclusive meet and greet opportunity with star players from Singapore Premier League. The public can also pledge their support for a sustainable Singapore by taking the Climate Action Pledge at Timbre+ or at www.climateaction.sg.

The PHC Walk is an important show of solidarity to keep Singapore clean. “I PHC. Do you?” is not just a one-day exercise. It is a habit and lifestyle of personal responsibility for cleanliness beyond our doorstep.

LIFESTYLE FIESTA

Robotics Jamming: The Future is Now



Location: Fusionopolis One Atrium, Level 1

Time: 9.00am to 12.00pm

Get a chance to tinker with robots in child-friendly workshops by Future Ready Academy, where they will be able to race robots, and battle with their friends, and also try out simple coding!

Farmers' Market

Location: Biopolis Epicentre

Time: 9.00am to 12.00pm

Check out healthy produce and offerings such as fresh vegetables and mushrooms, fresh poulet, fresh salads, Biscotti, Paleo cookies, Tarts and Bakes, cold brew coffee and tea, Kombucha and Probiotic beverages, honey, truffle products, pandan products, snacks and many more!

RACE.EAT.PLAY @ one-north Festival: Soapbox Lounge

Location: Fusionopolis One Porch, Level 1

Time: 9.00am to 12.00pm

JTC's RACE.EAT.PLAY will be back again this year in September – bigger and better than ever! The highlight of the event will be the one-north Soapbox Race where teams will build their own Soapbox Car and race it down a race course filled with obstacles. Get a sneak preview of the event at the Soapbox Lounge near the drop-off point of Fusionopolis One. There will also be free ice cream treats while stocks last!

one-north Festival Sneak Peek

Location: Fusionopolis One Atrium, Level 1

Time: 9.00am to 10.00am

Get a sneak peek of the offerings of the upcoming one-north Festival at Fusionopolis on 7 and 8 September 2018, co-organised by A*STAR and JTC! Visit the booth and play a video game with your brain. Hit the highest number of bottles within 90 seconds to win attractive prizes! Sign up for this unique celebration of research and innovation, and learn about how technology will change our world for the better.

Thai Creative Fashion Market

Location: Fusionopolis One Atrium, Level 1

Time: 9.00am to 11.00am

Shop Thailand, right here at one-north! For one day only, ShopJJ will be bringing in exclusive products from Bangkok's most creative fashion designers. Grab breezy summer tops and eye-catching totes that are functional yet stylish. Visitors can purchase dozens of other unique handmade items from Thailand's most creative fashion designers, and have them shipped direct to their doorstep!

ACTIVE MORNING

Zumba

Location: Star Vista, Star Plaza

Time: 9.00am to 10.00am

Organised by the Health Promotion Board (HPB), try out fun and intense Zumba an aerobic fitness programme featuring movements inspired by various styles of Latin American dance and performed primarily to Latin American dance music.

Fight-Do®

Location: Star Vista, Star Plaza

Time: 10.00am to 11.00am

Organised by the Health Promotion Board (HPB), try out FIGHT DO, an exercise that combines boxing, kickboxing, and martial arts and other various techniques. Participants will adopt these techniques to fight imaginary opponents in animated and exciting workouts.

Urban Street Challenge

Location: Biopolis Street

Time: 8.00am to 11.30am

There will be 3 circuits open to the cycling community and members of the public:

1. A dual challenge circuit, made up of 5 obstacles, where members of the cycling community will go head to head with each other. **(8.00am-11.30am)**
2. For beginners, there will be 2 try-out circuits with simple obstacles on site for members of the public to test their skill. **(9.00am-11.30am)**

Butterfly Explorer

Location: one-north Park: Fusionopolis North

Time: 9.00am to 12.00pm

Did you know that in our urban parks there are many interesting plants that attract various species of beautiful butterflies? Visit one-north Park: Fusionopolis North where you can learn from NPark's friendly station guides more about butterfly-attracting plant, and if you're lucky, spot some butterflies too! Activity sheets for kid explorers will also be available.

PERSONAL MOBILITY DEVICE (PMD) RENTAL AND SHOWCASE

EcoRider Rental



Location: Fusionopolis Way

Time: 9.00am to 11.30am

Get a free trial or rent Emarco's EcoRider for a fun experience. Users will be trained by Emarco's marshals before riding.

E-Scooter Rental



Location: Fusionopolis One Porch, Level 1

Time: 9.00am to 1.00pm

Telepod will be letting the public try out their e-scooters free for 15 minutes at their station at the drop-off point of Fusionopolis One.

E-Scooter Workshop

Location: Galaxis Porch, Level 1

Time: 10.00am to 11.30am

Learn how to perform basic servicing and maintenance from FalconPEV's experienced e-scooter mechanics. Visitors can take part in a guided hands-on workshop to learn how to service their e-scooter. The workshop will cover common tasks like brake-tuning, internal cleaning and changing a punctured tube. Do note that there are limited vacancies and a participation fee of \$5 applies.

Register at <https://www.falconpev.com.sg/pages/diy-electric-scooter-servicing-workshop-car-free-sunday>

Trike Showcase



Location: Fusionopolis Way

Time: 9.00am to 11.30am

Take a spin on OneBerry's clean energy trike powered by solar and fuel cell technology with zero emissions.