PRESS RELEASE

MEASAT partners with Apadilangit for CanSat competition in conjunction with MEASAT-3d launch

Upper secondary students to gain comprehensive knowledge on satellites in three-phase programme

Kuala Lumpur, 19 May 2022 – To celebrate the launch of the MEASAT-3d satellite, the most advanced satellite in its fleet yet on 22 June 2022, French Guiana Time (23 June 2022, Kuala Lumpur Time), MEASAT Global Berhad ("MEASAT") is collaborating with Apadilangit to run the CanSat competition for Malaysian students in the upper secondary. The partnership with Apadilangit aims to inspire the younger generation to explore the potential of advanced satellites and contribute to the technological and social development of Malaysia by developing new approaches in the fields of Science, Technology, Engineering, Arts and Mathematics ("STEAM").

Open to all upper secondary students (Form 4, Form 5 or its equivalent) across Malaysia in teams of three, participants have a unique opportunity to expand their knowledge on satellites - and perhaps discover a new career path ahead. With the launch of MEASAT-3d which will be further closing the digital gap for Malaysians in remote rural areas via CONNECTme NOW, more and more rural students will be able to access hi-tech careers. They will join other Malaysians who are gaining socioeconomic benefits from the digital economy, including accessing e-learning and knowledge online and participating in e-commerce.

Experiential learning about satellites

CanSat - a combination of the words can and satellite, refers to the beverage can-sized miniature satellites built in the competition, in a process that will enable students to understand how satellites work and their benefits. The three-phase competition will involve writing an abstract in the first phase, while the top ten shortlisted teams will participate in online workshops in the second phase and the three finalist teams will compete in testing their CanSat in the third phase.

The main activity of the competition will take place over the second and third phases, where participants learn to build their own CanSat and launch it via High Altitude Balloon (HAB) to collect data such as temperature, pressure, geolocation and even images by adding a camera to make a drone. Exciting prizes await the winners, with the top three (3) teams able to take home attractive prizes such as a MacBook Pro 13", iPhone 13 and iPhone SE, along with certificates and medals.

Students interested in demonstrating their scientific skills and creativity in building the most stable, unique and creative CanSat can register their teams from today until 22 May 2022 at https://apadilangit.com/MyCanSat/ For more information on the CanSat competition, visit Apadilangit at https://apadilangit.com/ or https://www.facebook.com/apadilangit and MEASAT at http://www.measat.com/ or https://www.facebook.com/MeasatGlobalBerhad.

Note: More details on the CanSat competition can be found in the attached fact sheet.

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About Apadilangit
Apadilangit is a space education company that aims to create space awareness in the younger generations and contribute to the technological and social development of the country by developing space communities, building technologies, crafting new approaches and helping to stimulate national awareness of Malaysia and the global space programme and of its importance for Malaysian modern society and economy.

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About MEASAT
MEASAT is a premium supplier of communication and video services to leading broadcasters, Direct-To-Home (DTH) platforms and telecom operators, with a footprint covering 130 countries representing 80% of the world's population across Asia, Africa, Europe and Australia.

MEASAT is recognised as the key Rural Broadband Service Provider in Malaysia, through its CONNECTme NOW satellite broadband service – a high-speed WiFi Hotspot service best suited for public use in the underserved or unserved areas in Malaysia. CONNECTme NOW enables users to access the internet by purchasing competitively priced Prepaid Access Codes (PAC) in small packages that meet their needs, improving affordability by removing long contracts and high upfront fees.

Soon, the MEASAT fleet will be further strengthened with the addition of MEASAT-3d at 91.5°E in June 2022 which will support cost-effective high-speed broadband with up to 100 Mbps speeds in areas without any terrestrial network throughout Malaysia; increase video distribution capacity across the Asia Pacific region; and provide unrivaled in-orbit satellite redundancy for the region. For more information, please visit www.measat.com / connectmenow.my/

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FACTSHEET
CanSat Competition

The CanSat competition runs from 12 May to 11 June 2022.

The competition is held across three (3) phases, as follows:

Phase 1:

1. Open to all secondary school students of Malaysian citizenship, currently in Form 4 & Form 5 (or its equivalent) in Malaysia, from all government, private and international schools. To enter, students should form groups of three. Then, as a group, they must submit a 300-word abstract, using their creativity and imagination to discuss:
   a. How do satellites impact our daily life?
   b. What are your space dreams for Malaysia?
   c. How can you contribute in making your space dreams for Malaysia come true?

2. The top 10 abstracts will be selected to move into the second phase.

3. Submission of abstracts closes on 22 May 2022.

Phase 2:

1. The top ten (10) groups selected must attend a series of six online workshops organised by Apadilangit from 26 to 28 May 2022, to learn about building satellites.

2. During the online workshops, the 10 teams will learn the following:
   a. Online Workshop 1 - Introduction to CanSat and its Subsystem
   b. Online Workshop 2 - Power and On-board Data Handling
   c. Online Workshop 3 - Payload and Sensors
   d. Online Workshop 4 - Mechanical Structure and Design
   e. Online Workshop 5 - Communication and Ground System
   f. Online Workshop 6 - System Integration and Testing

3. After attending the online workshops, the 10 teams will need to build their CanSat and submit their proposals by 30 May 2022.

4. All 10 teams will be given CanSat modules to assemble and will need to take videos of the assembly process for submission.
   a. Criteria for judging the video includes audio, visual, lighting, angle and CanSat stability.
   b. The video must not be longer than 5 minutes.

5. To build the CanSat, the ten teams must:
   a. Apply knowledge gained during the workshops, using the modules provided by Apadilangit.

b. Create a durable and robust CanSat structure to protect the CanSat, while ensuring that the sensor is operational.
c. Ensure that their CanSat model does not weigh more than 300g.

6. Entries will be judged based on:
   a. System integration
   b. Structural and thermal system design
   c. Presentation video

7. The top 3 teams will be selected to join the final phase.

Phase 3:

1. On 2 June 2022, the top 3 teams selected as finalists of the CanSat competition will be announced.

2. The three teams will need to launch and test their CanSat, when they will be judged based on:
   a. Structural and thermal system design
   b. Data received while airborne:
      i. Altitude
      ii. Pressure
      iii. Temperature

3. On 11 June 2022, each of the three teams will be sent to one of the following locations to launch their CanSat. (to be confirmed a week before the activity):
   a. Pusat Rukun Tetangga Kampar or
   b. Astaka Taman Desa KPMP, Kg Gajah or
   c. Dewan Hj Jarien, Kampung Attaduri, Langkap

   Each satellite will be sent up to 22km above sea level on a High-Altitude Balloon (HAB). Once the HAB bursts, the CanSat will descend on a parachute, taking approximately 30 minutes to reach the ground. The search and rescue (SAR) activity to retrieve the CanSat is estimated to take about 1 to 3 hours depending on wind conditions during the descent and the on-ground location. Data from the CanSat will be retrieved once it is on the ground.

4. winner of the competition will be decided based on combined overall marks from Phase 2 and Phase 3. All three teams will present their CanSat and receive their respective prizes during the launch of MEASAT-3d on 23 June 2022 in the Kuala Lumpur Launch Event.