

## **Workshop of the Working Group on the Long-term Sustainability of Outer Space Activities**

### **Panel 2 on Safety of space operations**

#### **Abstract of Sittiporn Channumsin, Acting Director of Space Technology Development Office from Geo-Informatics and Space Technology Development Agency (GISTDA) Thailand**

1. Thailand has experienced a noticeable uptick in space-related activities, prompting concerns regarding potential space-related disasters that could put national space safety and security at risk. With recognizing that to tackle the space challenges required collective efforts and international collaboration, the country has embraced principles of space treaties and the Guidelines on Long-term Sustainability of Outer Space Activities to **National Space Act** establishing national-level mechanisms for registrations of space objects, information sharing, guidance for spacecraft launches and operations, in particular research and operation in pertinent to safety of space operations.
2. Focusing policy on safety of space operation, the **National Space Master Plan** of Thailand, proposed by Geo-Informatics and Space Technology Development Agency (GISTDA), sets ambitious milestones comprising of space surveillance and tracking program for national security purpose as well as policy research and technology development programs on Space Traffic Management. International and regional fora are also the effective channels for developing policies and sharing platform for benefits of the region.
3. In operation aspect, Thailand is actively working through local and international collaborations on frameworks **for space situational awareness (SSA)** and **space traffic management (STM)** to delineate roles and processes in these domains. Conjunction analysis for space objects has been implemented by GISTDA to monitor and mitigate risks associated with conjunction events. Alongside, the space traffic management system, "ZIRCON", will be launched shortly to bolster safety and operational capabilities of Thailand.
4. In conclusion, safety of space operation is a priority that Thailand has committed compiling to the space treaties and Guidelines for LTS. Its proactive pursuit of international cooperation underscores its dedication to the responsible and sustainable use of outer space, safeguarding the space environment for future generations.