

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

### **Panel 3 on Scientific and technical research**

#### **Abstract of Michel Doyon, Manager Flight Operations, Canadian Space Agency Canada**

1. The technical expertise offered by the Canadian Space Agency in space situational awareness would contribute to a capacity-building discussion and be linked to sub-topics (b) and (c) put forward in the Chair's non-paper concerning the scope of the 06 February 2024 capacity-building workshop.
2. It is envisioned that the presentation would cover how Canada is implementing the guidelines related to Space situational awareness (SSA) and the status of our implementation efforts in that area.
3. It would share information on the two space-based SSA assets that Canada operates and upcoming developments in this area. It would also discuss how this data is used for collision avoidance / debris mitigation efforts.
4. Finally, it would cover the Conjunction Risk Assessment and Mitigation System (CRAMS) system and the value-added products it can produce, which could be of interest to emerging space faring nations. CRAMS aids in space debris management through supporting collision avoidance. It supports just over 100 satellites from nearly a dozen organizations across the Government of Canada, as well as Canadian industry, academia and foreign nations on request by generating collision data messages.