CLEANSPACE INDUSTRIAL DAYS 2018

Long-Term Sustainability of Space Activities

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• sustainability
• “... development that meets the needs of the present without compromising the ability of future generations to meet their own needs”

• United Nations Committee on the Peaceful Uses of Outer Space
• International cooperation and coordination on science, technology, law and policy of spaceflight since 1957
• voluntary and not legally binding
• no new legal obligations
• spirit of enhancing the practice of States and international organizations
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• no new legal obligations
• spirit of enhancing the practice of States and international organizations
• A. Policy and **regulatory** framework
• B. Safety of space **operations**
• C. International **cooperation, capacity-building** and awareness
• D. Scientific and technical **research** and development
• Guideline B.4 **Perform conjunction assessment during all orbital phases of controlled flight**

• Para.1: “Conjunction assessment should be performed for all spacecraft capable of adjusting trajectories during orbital phases of controlled flight for current and planned spacecraft trajectories.”
• Guideline B.4 Perform conjunction assessment during all orbital phases of controlled flight

• Para.3: “Spacecraft operators ... that are unable to perform conjunction assessments should seek support, via State authorities, ... from appropriate around-the-clock conjunction assessment entities..”
Guideline B.10 Observe measures of precaution when using sources of laser beams passing through outer space

“... analyse the probability of accidental illumination of passing space objects by laser beams; conduct a quantitative evaluation of the laser radiation power at the distance of crossing space objects; if possible, perform an assessment of the risk ... to ... space objects”
• **Guideline A.3 Supervise national space activities**

• “States should ensure that entities under their jurisdiction and/or control ... have the appropriate structures and procedures for planning and conducting space activities in a manner that supports the objective of enhancing the long-term sustainability of outer space activities.”
The way forward...
Q & A session

• Is a top-down process the best approach for enhancing sustainability?
• What can industry contribute, and how?
• Voluntary or binding commitments?