

# **COPUOS Scientific and Technical Subcommittee Activities**

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

**Report to IAA Space Debris Committee March 2017**

T. Schildknecht

---

# COPUOS STSC LTSSA

---

## Guidelines prepared by 4 expert groups 2012(11) – 2014:

- **Expert group A**  
" Sustainable space utilization supporting sustainable development on Earth "
- **Expert group B**  
" Space debris, space operations and tools to support collaborative space situational awareness "  
(3 formal, 3 informal meetings, each 2–5 days)
  - 8 Guidelines
  - 3 topics for further consideration by STSC
- **Expert group C**  
" Space Weather "
- **Expert group D**  
" Regulatory regimes and guidance for actors in the space arena "

# COPUOS STSC LTSSA

---

## LTSSA Working Group 2014 – Feb. 2017:

- **First Set of Guidelines agreed by COPUOS June 2016**  
12 guidelines  
A/71/20 Annex (Report of the Committee on the Peaceful Uses of Outer Space. Fifty-ninth session (June 8th–17th 2016))
- **Full Compendium of Guidelines by June 2018**  
(LTSSA Work Plan)
  - to coincide with UNISPACE+50
  - UNISPACE+50 Thematic priority 3:  
*Enhanced information exchange on space objects and events*
- **Proposal for new expert group**  
*Expert Group on Space Objects and Events*
- **Status (after STSC February 2017)**
  - 8 guidelines intensively discussed
  - Many more guidelines still to be discussed!

# COPUOS STSC LTSSA

---

## First Set of Guidelines

### A. Policy and regulatory framework

- **Guideline 1**  
Adopt, revise and amend, as necessary, national regulatory frameworks for outer
- **Guideline 2**  
Consider a number of elements when developing, revising or amending, as
- **Guideline 3**  
Supervise national space activities
- **Guideline 4**  
Ensure the equitable, rational and efficient use of the radio frequency spectrum and the various orbital regions used by satellites

### B. Safety of space operations

- **Guideline 12**  
Improve accuracy of orbital data on space objects and enhance the practice and utility of sharing orbital information on space objects

# COPUOS STSC LTSSA

---

## First Set of Guidelines (cont.)

- **Guideline 13**  
Promote the collection, sharing and dissemination of space debris monitoring Information
- **Guideline 16**  
Share operational space weather data and forecasts
- **Guideline 17**  
Develop space weather models and tools and collect established practices on the mitigation of space weather effects

## C. International cooperation, capacity–building and awareness

- **Guideline 25**  
Promote and support capacity–building
- **Guideline 26**  
Raise awareness of space activities

# COPUOS STSC LTSSA

---

## First Set of Guidelines (cont.)

### D. Scientific and technical research and development

- **Guideline 27**  
Promote and support research into and the development of ways to support sustainable exploration and use of outer space
- **Guideline 28**  
Investigate and consider new measures to manage the space debris population in the long term