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
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"
LTSSA Working Group 2014 – Feb. 2017:

- First Set of Guidelines agreed by COPUOS June 2016
  12 guidelines
- 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!
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
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
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