



Space Governance on radio frequencies and associated orbits in the future

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What we want to see now and in the future

- ▶ Good quality and less costly satellite based services to everybody
- ▶ Secured operation of the critical space services to protect human lives

Radio Regulations based on goodwill have worked to achieve the goals...

- ▶ A few operators, mainly state owned bodies
- ▶ Enough spectrum and orbital resources available with steady development to use higher frequency bands



- ▶ Radio Regulations based on goodwill of administrations are effective to achieve the goals, namely
 - ▶ allocation of frequency bands to the services (e.g. exclusive allocation of safety service)
 - ▶ coordination procedures based on goodwill and the first come first serve principle
 - ▶ Harmful interference resolution based on goodwill

Current situations of the Space Services

- ▶ More Private operators under pressure of commercial competition
 - ▶ More spectrum needs
 - ▶ Operational flexibility of existing operators vs Spectrum needs for newcomers
 - ▶ Disagreements between administrations reflecting commercial conflicts between their operators
 - ▶ Economy of scale – tendency to oligopoly
- ▶ Competition with terrestrial based services over broadband
 - ▶ More spectrum needs

More than goodwill might be necessary...

- ▶ Easy to use spectrum is less and less available
- ▶ Economical interests are in contradiction with goodwill



- ▶ These factors might lead to lower quality and costly services



- ▶ Current pace of technological development and requests for goodwill of administrations might not be enough ...

Possible means to achieve the goals in future

1. Increase possibilities for new entrants by lowering barriers to entry

- ▶ Clear rules - continued improvement of coordination & notification procedures
- ▶ Accurate database reflecting the reality
- ▶ Incentive for more homogeneous satellite systems
- ▶ Increase of technical and regulatory assistance to the newcomers
- ▶ Foster the use of more spectrum efficient techniques and new frequency bands

Possible means to achieve the goals in future

2. Regulate undesired conducts (warehousing)

- ▶ Due diligence information after launch
- ▶ Align actual use with recorded characteristics
- ▶ Align rights with actual characteristics
- ▶ Develop International Monitoring for transparency
- ▶ Reflect the cost for the satellite community of indefinitely protecting resources which are not in use.