



SAPIENZA
UNIVERSITÀ DI ROMA



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Legal Challenges of New Space Applications

Recent years have seen a considerable increase in the use of outer space. Ever more space actors, including private companies, are placing more objects in space. We naturally see a corresponding increase in orbital debris and in potentially destructive collisions. Different space actors also tend to adhere to different standards. The existing governance frameworks and rules that seek to guarantee a sustainable use of space for all nations are increasingly under strain. We need resilience. And we need more international cooperation. It is often said that the future of space activities will mainly depend on the ability of States and international organizations to consolidate a comprehensive legal framework, regulating the new issues, both at the international and domestic level. In short, the existing body of international norms and rules for space is the foundation on which we all work. But we must acknowledge that increased human activity in space and the rapid growth of new entrants is testing the UN conventions on outer space to the limit, including on issues of space traffic management, space mining and use of space, moon and celestial bodies resources, big data and mega-constellations, on-orbit servicing and active debris removal, space situational awareness. The international regulatory environment no longer suffices. But, which would be the way ahead after ten years of work and engagement at the international level through different projects and initiatives (ICoC, TCBMs, PAROS, LTS), which have proven how difficult is to govern space negotiation processes at the international level? Is still the international dimension which should be privileged, or it is better to convert to the national initiatives on implementation of informally agreed guidelines, coupled with national frameworks, as a sufficient step? How to better utilize the COPUOS and its Subcommittees and any other international fora dealing with space governance matters?

Globally shaped principles of responsible behaviour across the full range of space activities should serve long term goals: to increase international cooperation in space, to commit mutually to non-interference in the peaceful exploration and use of outer space, to facilitate an equitable access to outer space and increase transparency in the conduct of space activities. The Symposium *Legal Challenges of New Space Applications* aims at discussing the legal challenges related to the rapid development of new space applications, with a view to promote an inspiring debate and stimulate a reflection on existing perspectives for adopting and adapting new legal frameworks.

Scientific Committee

Prof. Sergio Marchisio
Prof. Philippe Achilleas
Dr. Marco Ferrazzani
Prof. Stephan Hobe (TBC)
Prof. Armel Kerrest

SYMPOSIUM N.11

LEGAL CHALLENGES OF NEW SPACE APPLICATIONS

Chaired by Prof. Sergio Marchisio

Dipartimento di Scienze Politiche

University Sapienza of Rome

Paper N.1 Viviana Iavicoli - WHEN SPACE SUSTAINABILITY DOESN'T MEET EARTH SUSTAINABILITY

Paper N. 2 Grytsenko Iana - SPACE REMEDIATION AS A KEY FOR SUSTAINABILITY IN OUTER SPACE

Paper N.3 Gianfranco Gabriele Nucera - EXPLORING THE LEGAL FRAMEWORK OF SPACE SITUATIONAL AWARENESS ACTIVITIES

Paper N.4 Alessandra Matteis - INTERNATIONAL COOPERATION AS A TOOL FOR PROMOTING ECONOMIC DEVELOPMENT AND FACILITATING ACCESS TO OUTER SPACE: THE EXAMPLE OF ITALY-KENYA AGREEMENTS GOVERNING THE BROGLIO SPACE CENTER

Paper N. 5 Giovanni Ardito - DEVELOPING AN INTERNATIONAL REGIME FOR SPACE RESOURCES THROUGH THE LENSES OF THE LAW OF THE SEA: RECENT LESSONS FROM THE INTERNATIONAL SEABED AUTHORITY

Paper N.6 Anne-Sophie Martin - SOME LEGAL THOUGHTS RELATED TO FUTURE ON-ORBIT SERVICING ACTIVITIES

Paper N. 7 Lucia Bonventre - A LANDSCAPE AND MARKET ANALYSIS OF SPACE-RELATED PATENTS

Paper N.8 Antonino Salmeri - A WAY FORWARD. REGULATING NEW SPACE ACTIVITIES THROUGH MULTI-STAKEHOLDER ADAPTIVE GOVERNANCE

PaperN. 9 Pierfrancesco Breccia - THE NEED FOR A SPACE TRAFFIC MANAGEMENT AND ITS LEGAL CHALLENGES

Paper N. 10 Ludovica Di Lullo - FROM SPACE TO EARTH: ASSESSING THE LEGAL FRAMEWORK OF BIG DATA IN THE SPACE TECHNOLOGIES SECTOR

Paper N.11 Marina Gagliardi - NEW SPACE ACTIVITIES, SPACE DEBRIS AND ACTIVE DEBRIS REMOVAL: LEGAL ASPECTS AND CHALLENGES